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Water Resources Data
Utah
Water Year 1981

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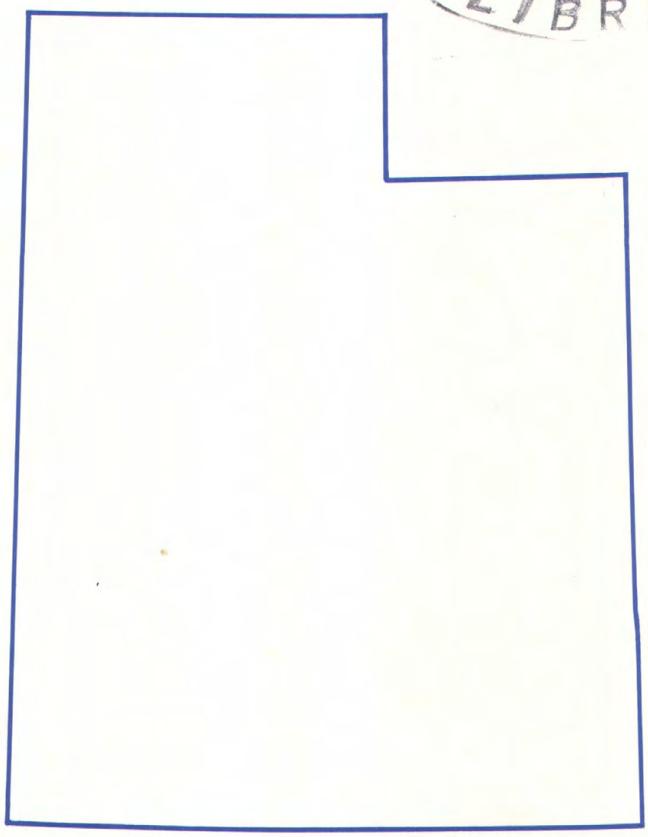

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT UT-81-1
Prepared in cooperation with the State of Utah
and with other agencies

CALENDAR FOR WATER YEAR 1981

1980

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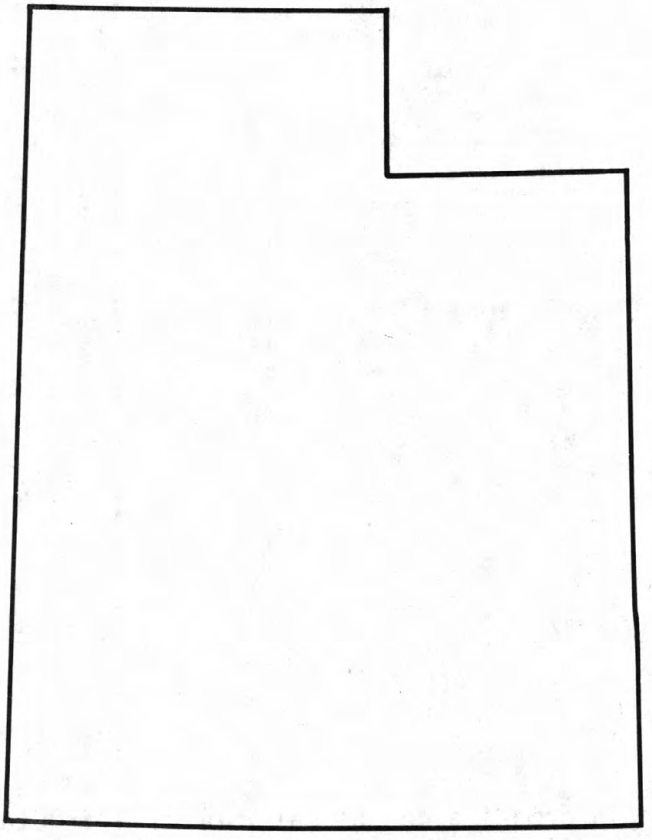
Water Resources Data
Utah
Water Year 1981



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT UT-81-1
Prepared in cooperation with the State of Utah
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For information on the water program in Utah write to
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Salt Lake City, Utah 84104

1982

PREFACE

This report was prepared by personnel of the Utah District of the Water Resources Division of the U.S. Geological Survey under the supervision of Ted Arnow, District Chief, and Alfred Clebsch, Jr., Regional Hydrologist, Central Region. It was done in cooperation with the State of Utah and with other agencies.

This report is one of a series issued State by State. General direction for the series is by Philip Cohen, Chief Hydrologist, U.S. Geological Survey, and Robert J. Dingman, Assistant Chief Hydrologist for Scientific Publications and Data Management.

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Water resources data for the 1981 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 274 gaging stations; stage and contents for 19 lakes and reservoirs; water quality for 65 hydrologic stations, and 375 wells; miscellaneous temperature measurements and field determinations for 181 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.

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WATER RESOURCES DATA FOR UTAH, 1981

INTRODUCTION

Water resources data for the 1981 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 274 gaging stations; stage and contents for 19 lakes and reservoirs; water quality for 65 hydrologic stations, and 375 wells; miscellaneous temperature measurements and field determinations for 181 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.

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-81-1." 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 35 gaging stations; by the Bureau of Land Management, U.S. Department of the Interior, for 9 gaging stations; and by the Corps of Engineers, U.S. Army, for 3 gaging stations. Records for eight gaging stations in Idaho in the Bear River basin and one 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 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
West Fork of Smith Fork near Robertson, WY

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).

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Utah District personnel who contributed significantly to the collection and preparation of the data in this report were Michael D. ReMillard, Larry R. Herbert, Glenn A. Andersen, George A. Birdwell, Richard B. Garrett, Ezra Hookano, George W. Sandberg, Gerald Plantz, Kendall R. Thompson, Dixie D. Canny, Donald Batty, Richard Beard, Elmer C. Gerhart, V. Lambert Jensen, Deloy C. Emmett, Jerry C. McNeely, Kevin Guttormson, Rod Tibbets, Donald Bischoff, Stanley K. Dubois, Barry Sattin, LaVerne G. Sultz, David Allan, Michael Eckenwiler, Michael Hawkins, Kevin Linn, Brad Sether, Cynthia Smith, Melanie E. Smith, John Yarbrough, James D. Barton, Carole Burden, Shonna Dennison, E. Blaine Johnson, Rolaine King, Brent Sheffer, Mary-Joy Smuin, Helen Faddis, Vickie McEwen, and Lauri Hlavaty.

SUMMARY OF HYDROLOGIC CONDITIONS

Precipitation during the winter (November-February) was less than normal throughout the state, whereas the precipitation for the entire water year was about normal. This resulted because snowfall generally was less than normal, while precipitation from summer thunderstorms generally was greater than normal. Following are November-February and water year precipitation and the departure from normal, at several sites (fig. 1) as reported by the National Oceanic and Atmospheric Administration Climatologic Data for Utah.

	November-February		Water-year	
	Total (inches)	Departure (inches)	Total (inches)	Departure (inches)
Blanding	1.13	-2.90	11.64	-0.18
Callao	.98	- .36	6.21	1.02
Cedar City	1.17	-1.98	11.76	1.43
Green River	.78	-.73	6.03	.42
Hanksville	.28	-.87	5.43	.23
Logan	5.01	-1.50	17.30	-.29
Milford	1.65	-1.06	13.25	4.83
Nephi	2.98	-2.04	17.82	3.93
Roosevelt	.68	-1.34	6.11	-1.23
Salt Lake City	2.99	-2.17	13.04	-2.13
Zion National Park	1.59	-4.25	15.95	1.59

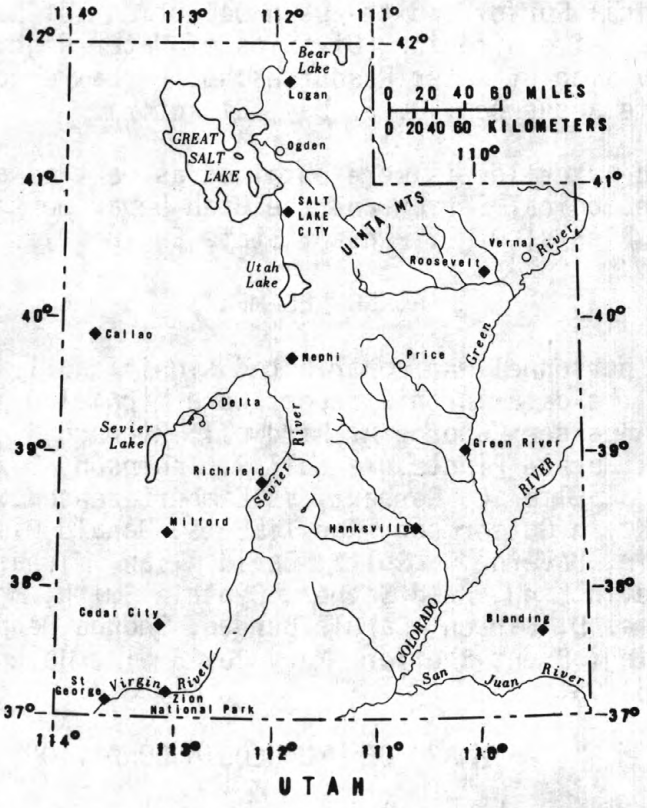

Figure 1.—Precipitation recording sites.

For the selected sites, the November-February precipitation ranged from 0.36 to 4.25 inches less than normal, whereas the water year totals ranged from 2.13 inches less than normal at Salt Lake City to 4.83 inches greater than normal at Milford.

SURFACE WATER

Because the major source of water for Utah streams is from melting of the winter snowpack, streamflow for the 1981 water year generally was less than normal. Streamflow as measured at seven representative gaging stations averaged 80 percent of the 1951-80 median compared to 141 percent a year ago. However, streamflow for Beaver River near Beaver, station 10234500, was 113 percent of the median, while the other six sites ranged from 62 to 86 percent of median.

Discharge for the 1981 water year compared with the median runoff for 1951-80 at the seven representative gaging stations for which long-term records are available is shown in figure 2.

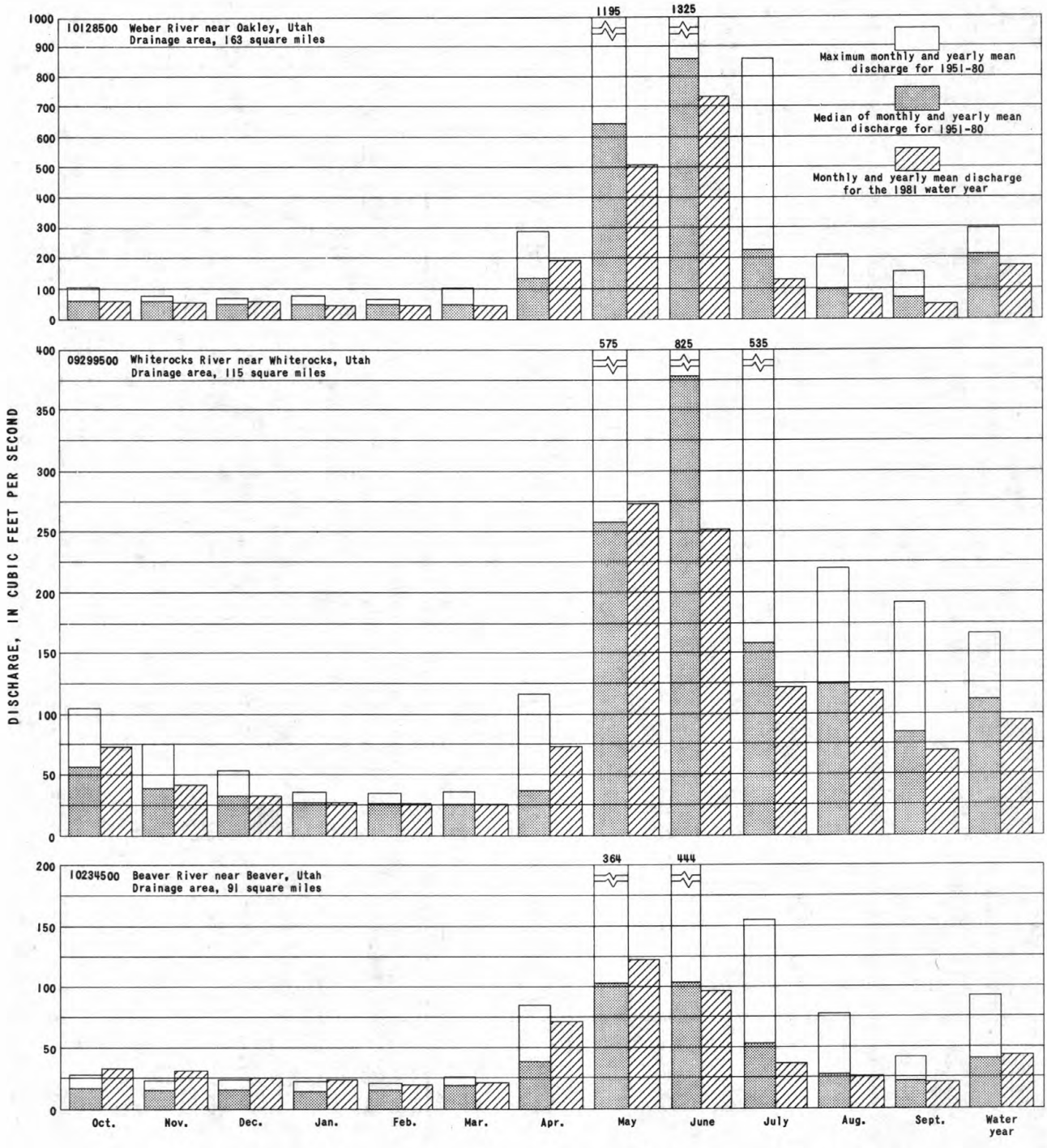

Figure 2.—Comparisons of discharge during the 1981 water year with median and maximum discharge for the 1951-80 water years at seven long-term representative gaging stations.

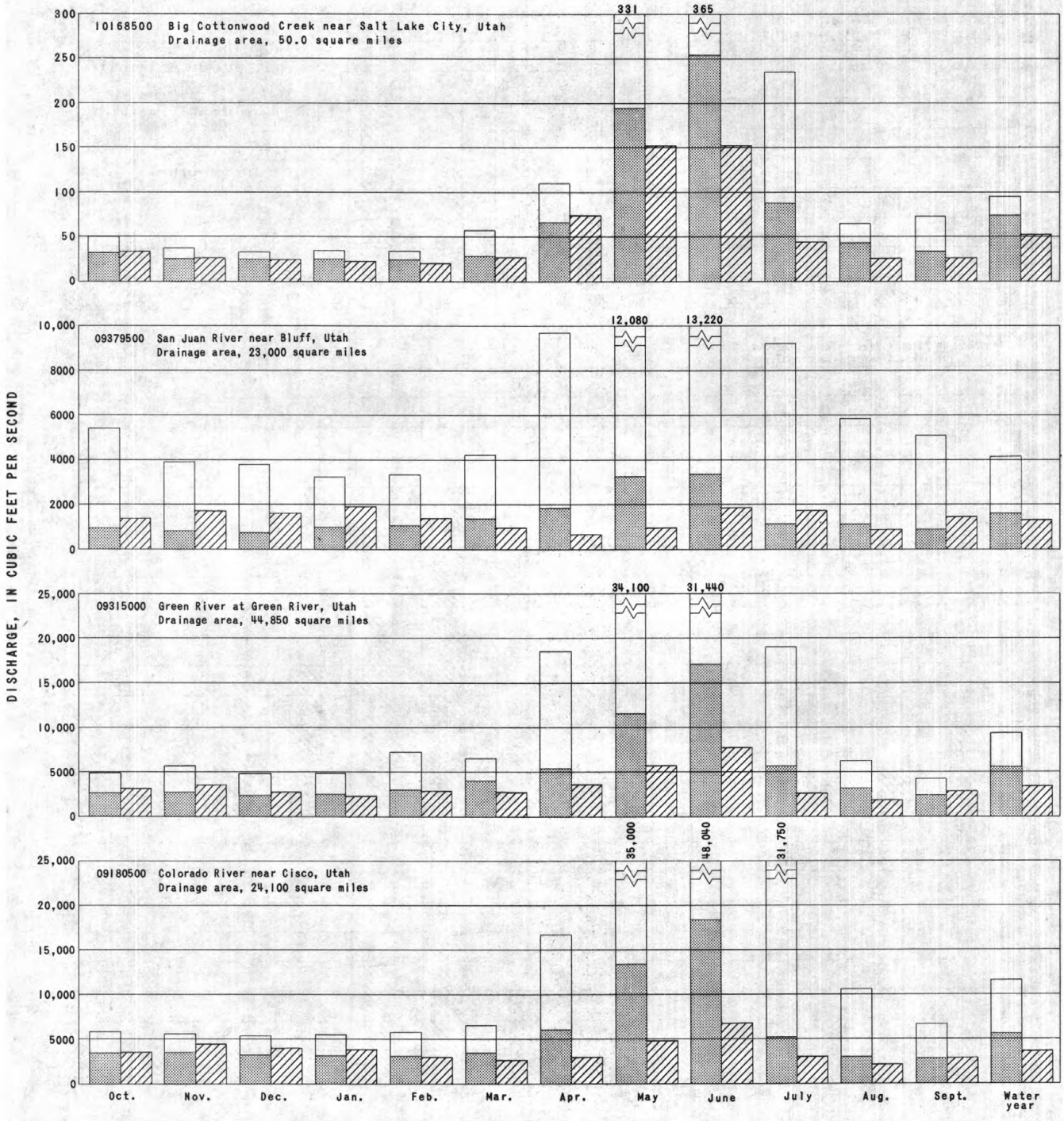

Figure 2.—Comparisons of discharge during the 1981 water year with median and maximum discharge for the 1951-80 water years at seven long-term representative gaging stations—Continued.

Peak discharge for the year at most sites was significantly less than usual, but intense thunderstorms during September 5-9 caused high peaks of short duration at some sites in the central part of the state.

On September 8, Chicken Creek near Levan, station 10219200, had an instantaneous peak discharge of 390 cubic feet per second. This was the highest recorded at this site during the period of record (1962-81).

Muddy Creek near Emery, station 09330500, had an instantaneous peak discharge of 1,840 cubic feet per second on September 5. This was the highest since 1955 and the fourth highest in 38 years of record at this site.

Muddy Creek below Interstate Highway I-70, near Emery, station 09332100, had an instantaneous peak discharge of 9,400 cubic feet per second on September 5. This greatly exceeded the previous high of 2,070 cubic feet per second recorded at this site during the period of record (1973-81).

The Fremont River near Caineville, station 09330230, had instantaneous peak discharges of 4,000 cubic feet per second on September 5 and 3,150 cubic feet per second on September 9. These are the two highest peaks recorded at this site during the period of record (1967-81).

The Dirty Devil River above Poison Spring Wash, near Hanksville, station 09333500, which consists of the Fremont River and Muddy Creek drainages, had an instantaneous peak discharge of 18,300 cubic feet per second on September 6. This is the fourth highest peak recorded at this site during the period of record (1943-81).

Courthouse Wash near Moab, station 09183000, had an instantaneous peak discharge of 9,500 cubic feet per second on September 6, which was the second highest in 23 years of record at this site.

As of October 1, 1981, reservoir storage in 19 major irrigation reservoirs was 95 percent of the average, compared to 125 percent of the average the previous year. The elevation of Bear Lake was 5,915.91 ft (National Geodetic Vertical Datum of 1929), with contents of 882,500 acre-feet, compared to 1,182,000 acre-feet a year ago.

Great Salt Lake reached a seasonal peak stage of 4,200.25 feet on June 15, 1981. The peak stage was 0.30 foot lower than the previous year's peak stage and was 2.00 feet lower than the 1976 peak (4,202.25 feet), which was the highest elevation in 48 years. Elevation of the lake on September 30, 1981 was 4,198.20 feet. This was 0.90 foot lower than the level the previous year and 6.85 feet above the all-time record low (4,191.35 feet) during October-November 1963.

The historic record of lake elevation began during 1847 when the pioneers reached the Great Salt Lake Basin. The elevation of the lake at that time was about 4,200 feet. The all-time record high occurred during 1873 when the lake level was 4,211.6 feet.

The National Stream Quality Accounting Network (NASQAN) is a series of stations at which systematic and continuing measurements are made to determine

the quality of the Nation's streams. Design of the network specifies measurement of a broad range of water-quality characteristics which were selected to meet many of the information requests of groups involved in planning and management on a national or regional scale.

Mean dissolved-solids concentrations at all NASQAN stations for the 1981 water year were not significantly different from the mean concentration at these stations for the 1974-80 water years (see fig. 3). The Dolores River near Cisco, station, 09180000, had the largest mean dissolved-solids concentration and also the largest range of values for the 1981 water year. The Beaver River at Adamsville, station, 10237000, had the smallest mean dissolved-solids concentration.

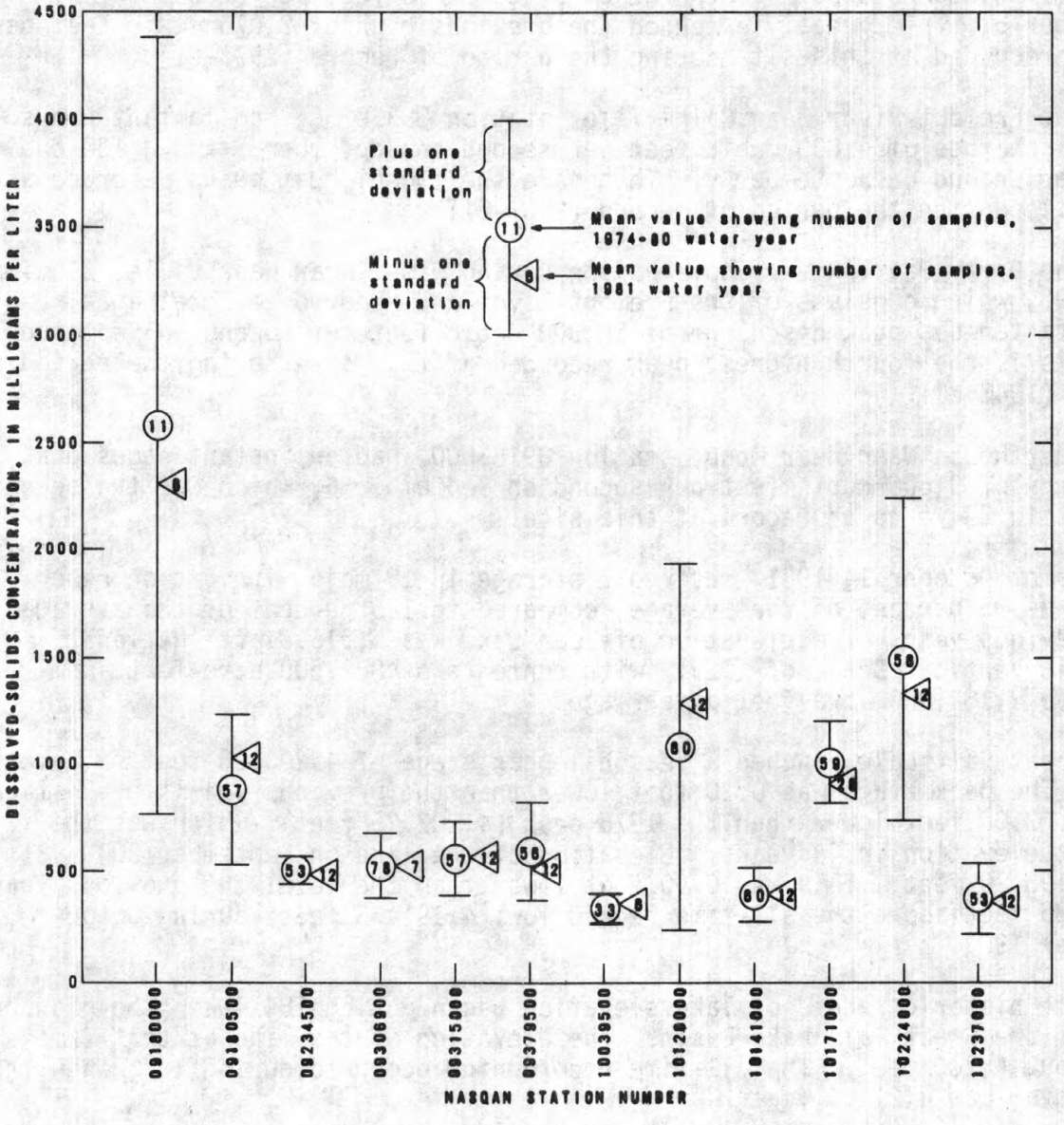

Figure 3.—Mean dissolved-solids concentrations of NASQAN stations.

Trace-element concentrations were small at most NASQAN stations. Iron was the most prevalent trace element occurring predominantly in the suspended rather than the dissolved phase. Dissolved aluminum, barium, chromium, copper, managnese, selenium, and zinc were found in significant concentrations at one or more stations. Lead concentrations exceeded the U.S. Environmental Protection Agency standard of 50 micrograms per liter in 3 of 21 samples from the Jordan River at Salt Lake City (station 10171000), and 1 of 6 samples from the White River at mouth (station 09306900).

Chemical analyses of water from the Weber River and its tributaries indicated the quality of water was good except near the mouth of the river. Irrigation return flow into the depleted lowermost reach of the river is the principal reason water quality deteriorates in this area. The principal water type in the Weber River basin is calcium bicarbonate or calcium magnesium bicarbonate.

Suspended-sediment loads during the 1981 water year in both the Colorado River near Cisco (station 09180550), and the Green River at Green River (station 09315000), were much smaller than the 1980 water year. The total suspended-sediment load at the Colorado River near Cisco was 76 percent smaller, corresponding to a 57-percent decrease in total water discharge. The total suspended-sediment load at the Green River was 77 percent smaller, corresponding to a 42-percent decrease in total water discharge. (See following table.)

Station	Suspended-sediment load (tons)		Water discharge (acre-feet)	
	1980 water year	1981 water year	1980 water year	1981 water year
09180500	8,510,563	2,037,857	6,319,000	2,670,000
09315000	10,381,496	2,392,883	4,317,000	2,501,000

GROUND WATER

The major areas of ground-water development in Utah are shown in figure 4. Those areas are listed in table 1 along with estimates of withdrawals from wells in each of the areas. The total 1981 withdrawal was about 832,000 acre-feet--about 78,000 acre-feet more than was withdrawn from wells during 1980 and 19,000 acre-feet more than the average withdrawal during 1971-80.

The increased withdrawals from wells during 1981 were a result of increased withdrawals for irrigation and industrial use. Although precipitation was greater than average in most of Utah during 1981, winter snow accumulation was less than normal and streamflow in many areas was less than normal. Because of this, generally less surface water was available for irrigation during 1981 than during 1980, and withdrawals of ground water for irrigation increased. The increase in withdrawals for industrial use during 1981 was mainly due to dewatering operations at a mine in the Beryl-Enterprise area.

Table 1.--Areas of ground-water development

Number in figure 4	Area	Estimated withdrawals from wells during 1980 (acre-feet)
1	Grouse Creek	4,000
2	Park Valley	2,900
3	Curlew Valley	40,000
4	Malad-lower Bear River valley	7,200
5	Cache Valley	33,000
6	Bear Lake valley	--
7	Upper Bear River valley	50
8	Ogden Valley	11,200
9	East Shore area	36,000
10	Jordan Valley	125,000
11	Tooele Valley	30,000
12	Dugway area (including Skull Valley)	4,200
13	Cedar Valley	4,500
14	Utah and Goshen Valleys	101,000
15	Heber Valley	40
16	Duchesne River area	250
17	Vernal area	--
18	Sanpete Valley	14,200
19	Juab Valley	21,000
20	Central Sevier Valley Upper Sevier Valleys Upper Fremont River valley	25,000
21	Pavant Valley	80,000
22	Sevier Desert	18,000
23	Snake Valley	12,400
24	Milford area	69,000
25	Beaver Valley	11,100
26	Monticello area	1,700
27	Blanding area	500
28	Parowan Valley	27,000
29	Cedar City Valley	29,000
30	Beryl-Enterprise area	93,000
31	Central Virgin River area	22,000
	Other areas	9,000
	Minimum total (rounded)	832,000

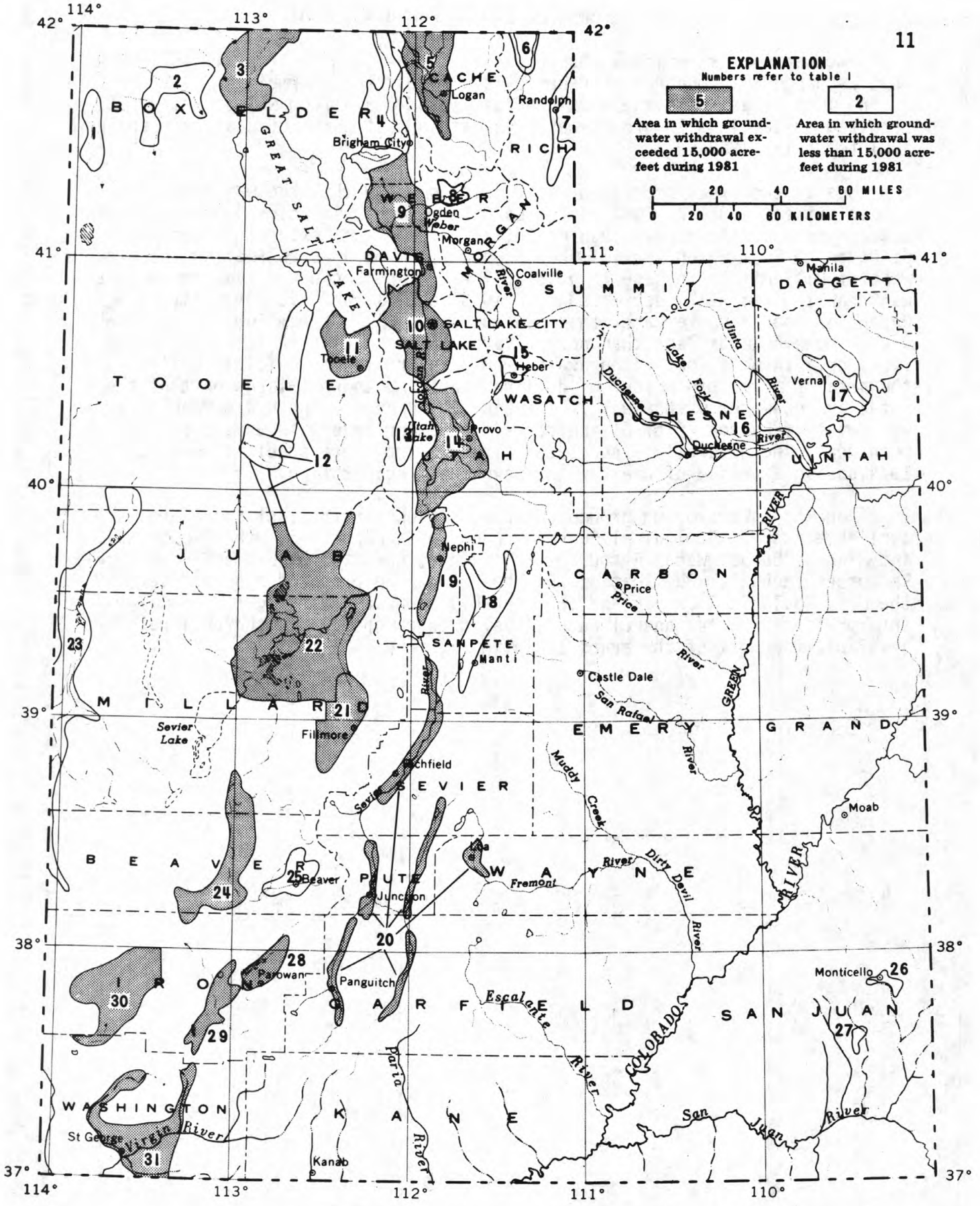

Figure 4.—Areas of ground-water development listed in table 1.

Because 1981 streamflow was less than normal in many areas it is likely that recharge to ground-water reservoirs was less than normal and less than during 1980. Less recharge and increased withdrawals from wells during 1981 resulted in declines in ground-water levels in most parts of Utah from spring 1981 to spring 1982.

One of the areas of ground-water development with large water-level declines between 1981 and 1982 is the East Shore area, in which Ogden is located. Water levels declined more than 4 feet in a large area extending from west of Ogden to Farmington; maximum declines were as much as 20 feet in the area west of Hill Air Force Base (fig. 5). The declines occurred even though total withdrawals from wells decreased from 1980 to 1981, and 1981 precipitation at Ogden Powerhouse was greater than average (fig. 6). Streamflow in the Weber River, however, was less than normal, probably resulting in less than average recharge. In addition, withdrawals from industrial and municipal wells in the area of more than 4 feet of decline continued to be a large part of the total ground-water withdrawal in the East Shore area. The hydrograph of a well west of Layton (fig. 6) indicates that water levels in that area have been declining generally since 1953, although they were stable from 1965 to 1974 during a period of greater than average precipitation.

Reports interpreting ground-water conditions in the East Shore area are avaliable as U.S. Geological Survey Professional Paper 518, Utah Geological and Mineral Survey Water-Resources Bulletin 2, and Utah Department of Natural Resources Technical Publication 35, the latter two prepared cooperatively by the U.S. Geological Survey and the Utah Division of Water Rights. Similar interpretive reports, annual water-level change maps, and withdrawal data are available for most of the areas shown in figure 4.

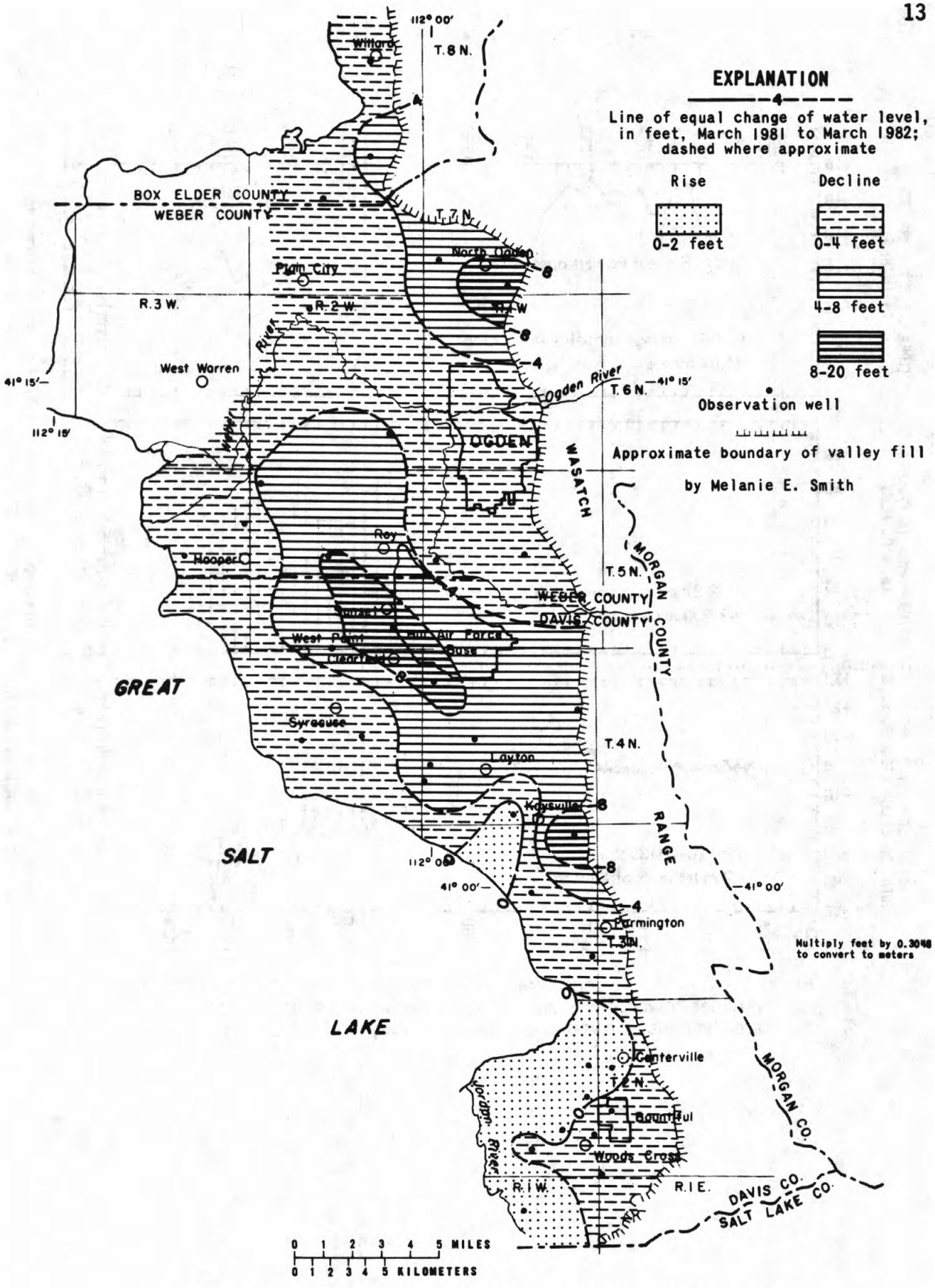

Figure 5.—Change of ground-water levels in the East Shore area, March 1981 to March 1982.

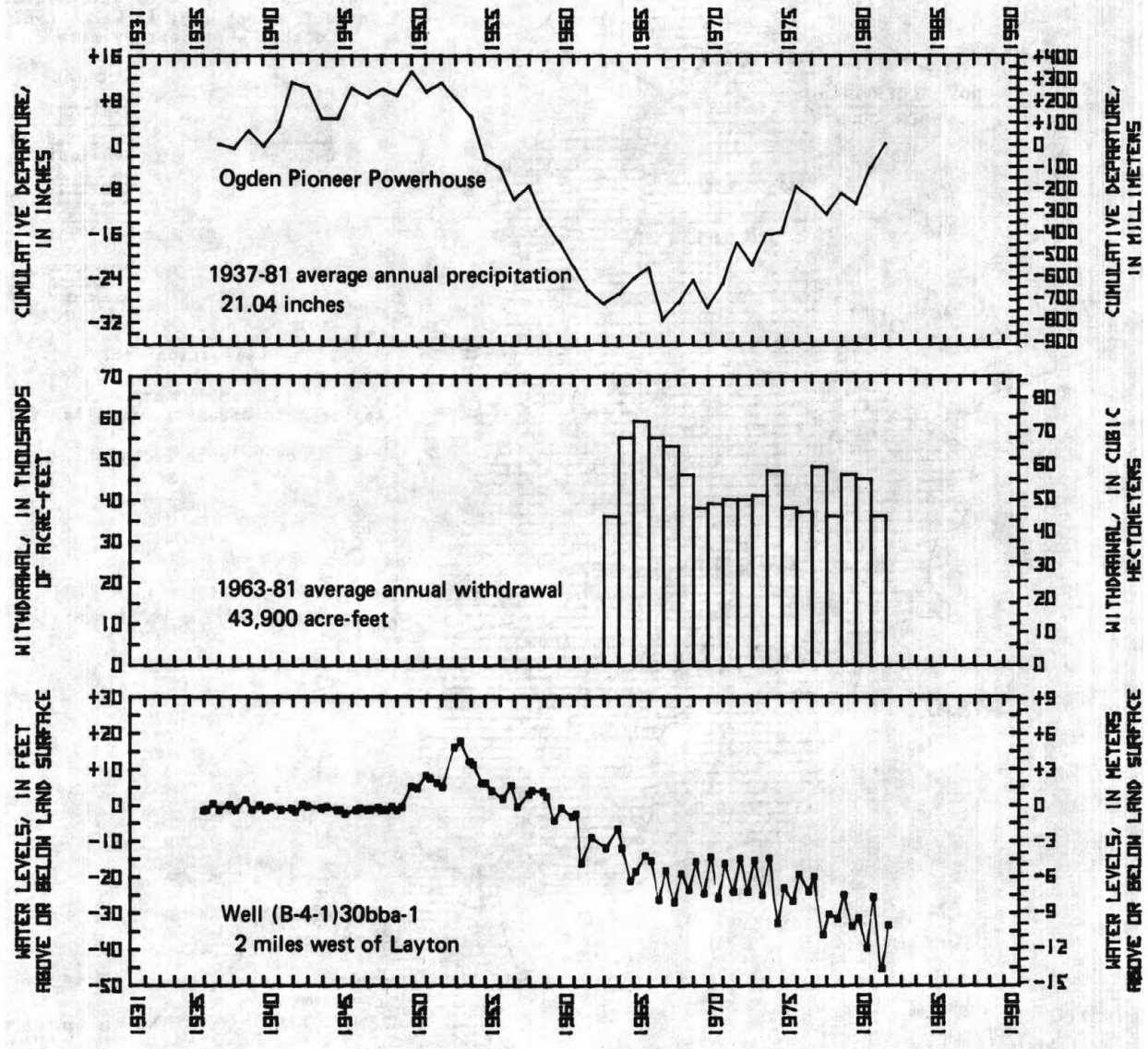

Figure 6.—Cumulative departure from average annual precipitation at Ogden Pioneer Powerhouse, annual withdrawals from wells in the East Shore area, and water levels in a well west of Layton.

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 multi-celled 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, rod-like, 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 within 48 hours at 35°C. In the laboratory, these bacteria are defined as the organisms 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 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 by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given 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 one 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 0.02832 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 (collodial) 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.

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 (µg/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, µg/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 one 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 called "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 collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliters (m/L) or liters (L). Numbers of planktonic organisms 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. Sedimtation 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	.004- .062	Sedimentation
Sand	.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 usually 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. time) for periphyton and macrophytes and mg C/(m3. 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 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 content 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 artifical 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. . . . . .Hexageria
Species. . . . . .Hexagenia limbata

WDR 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, 1980 is called the "1980 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 numbering 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 7.

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 8. The capital letter at the beginning of the location number indicates the quandrant 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.

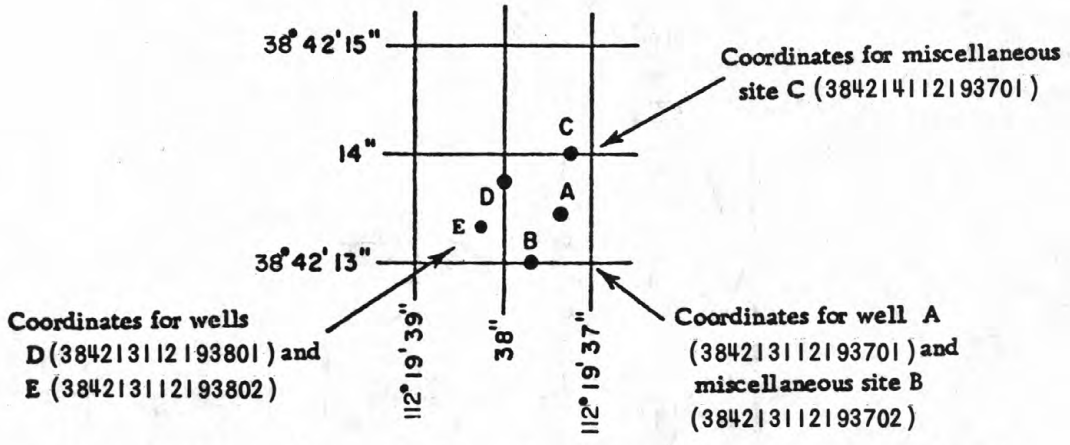

Figure 7.—System for numbering wells and miscellaneous sites (latitude and longitude).

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.

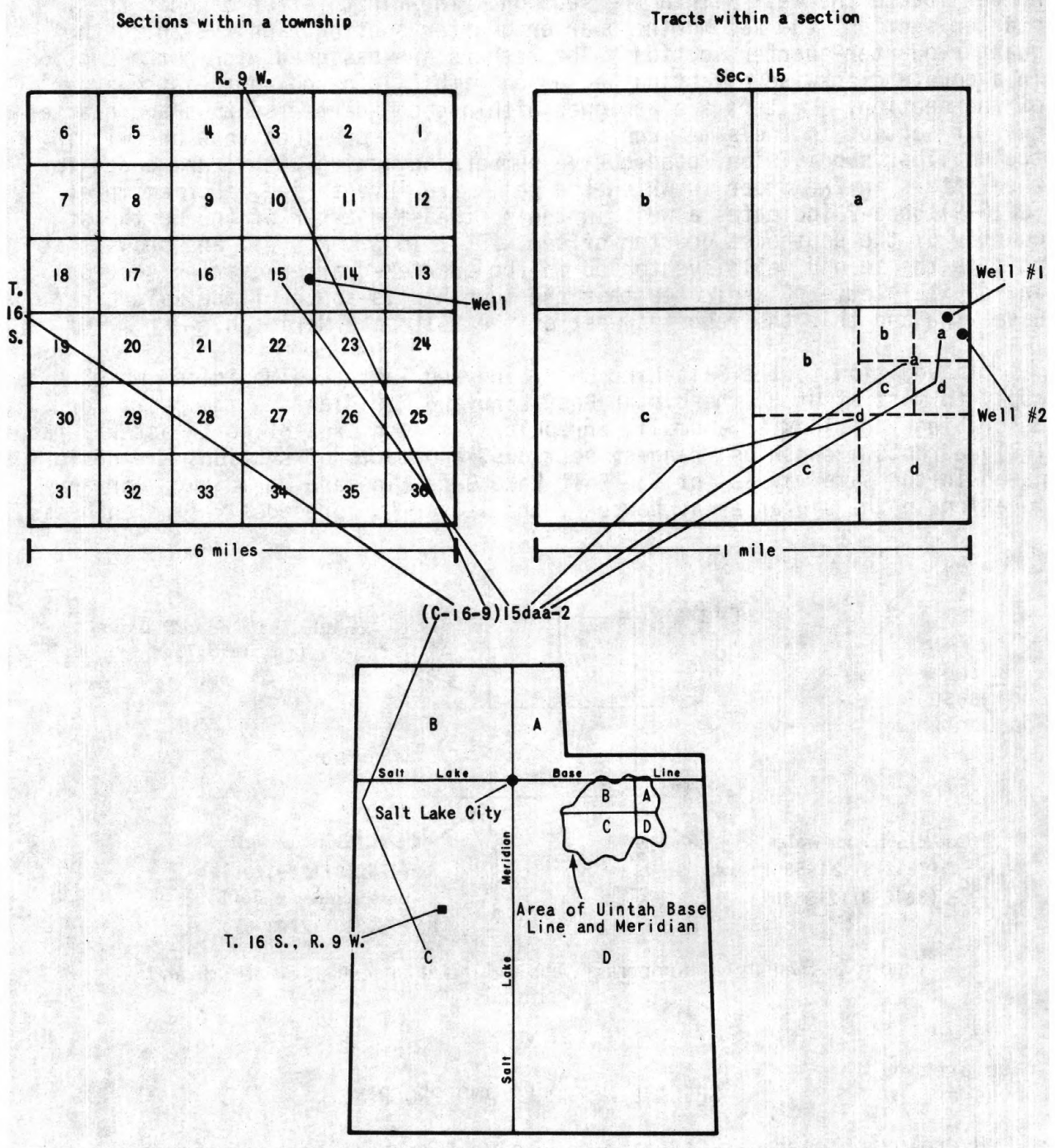

Figure 8.—System for numbering wells (township and range).

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.

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 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 15.

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 10 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 tabular 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.

For most gaging stations on lakes and reservoirs, the data presented comprise a description of the station and a monthly summary table of stage and

contents. For some reservoirs, a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

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 measurements, 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 1981 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 one 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. Water and Power Resources Service. 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 from 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. 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 collecting 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 181 stations in Utah, usually at one-month intervals (fig.11). Field instruments having a specific conductance range from 50 to 8,000 micromhos were used for most of the measurements. In the tables on pages 634 to 668 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. 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 7 and 8.)

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 hundredths 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.

Thirty-four 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, 1200 South Eads Street, Arlington, VA 22202 (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-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-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.
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.

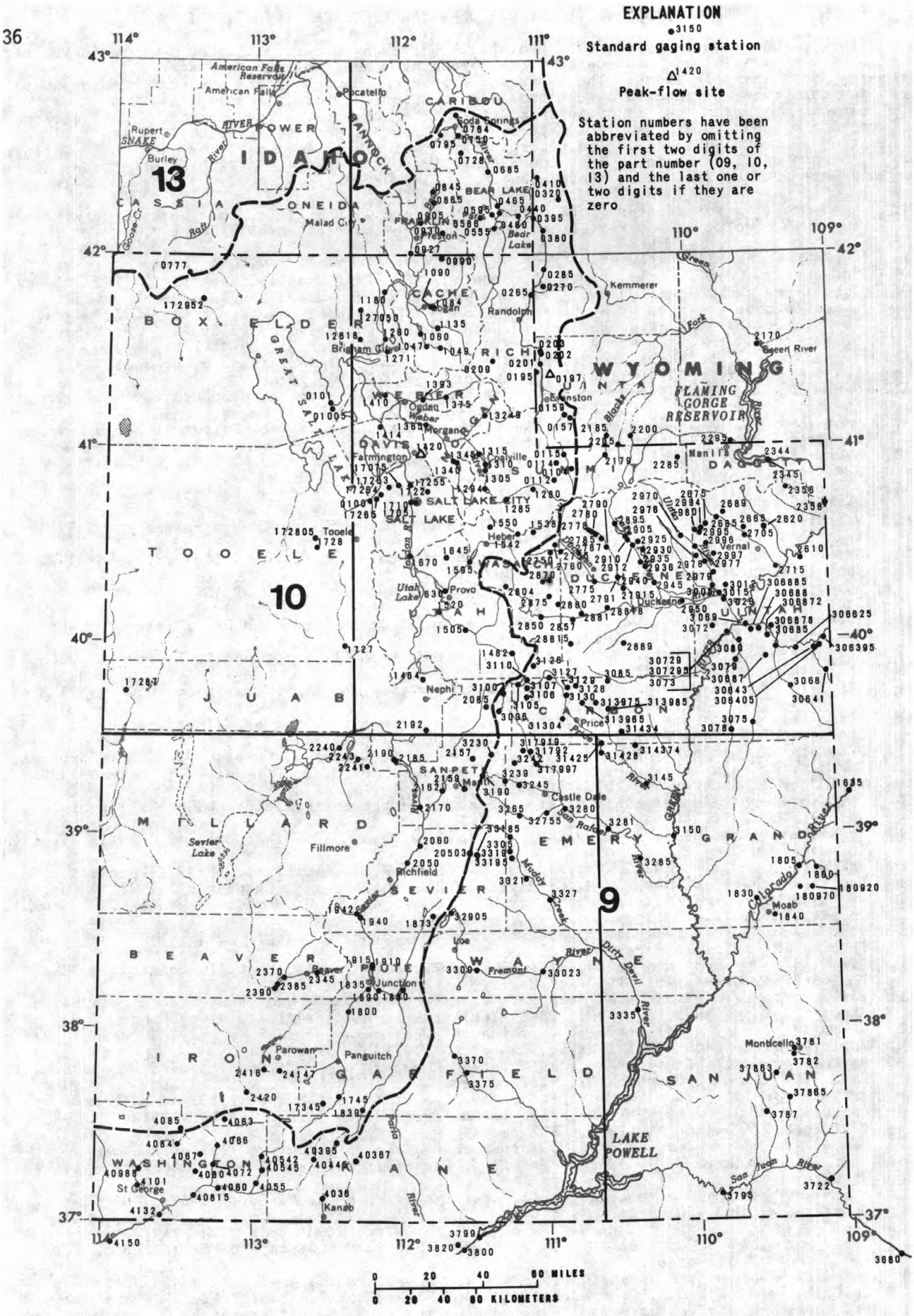

Figure 9.—Location of gaging stations in Utah.

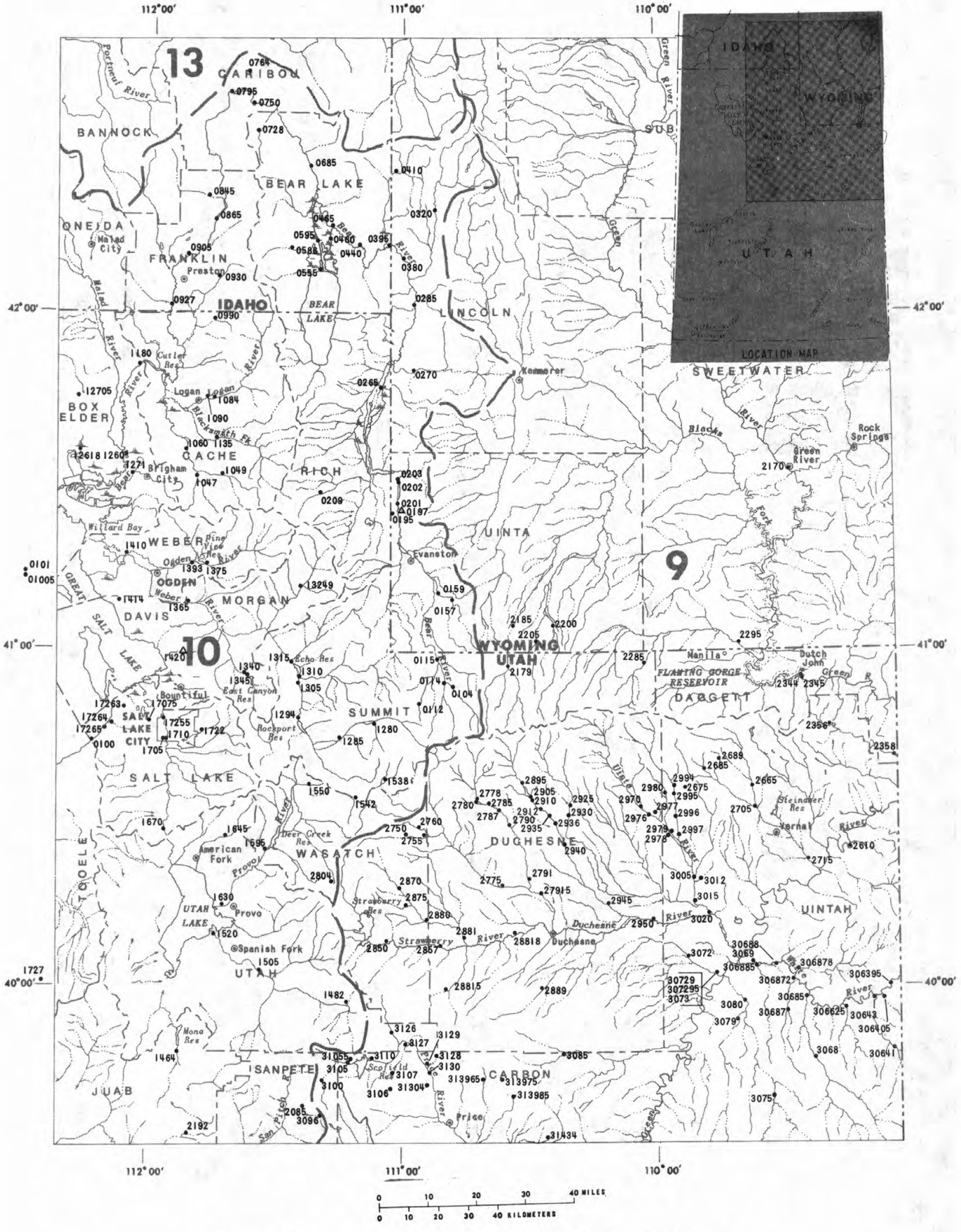

Figure 9.—Location of gaging stations in Utah—Continued.

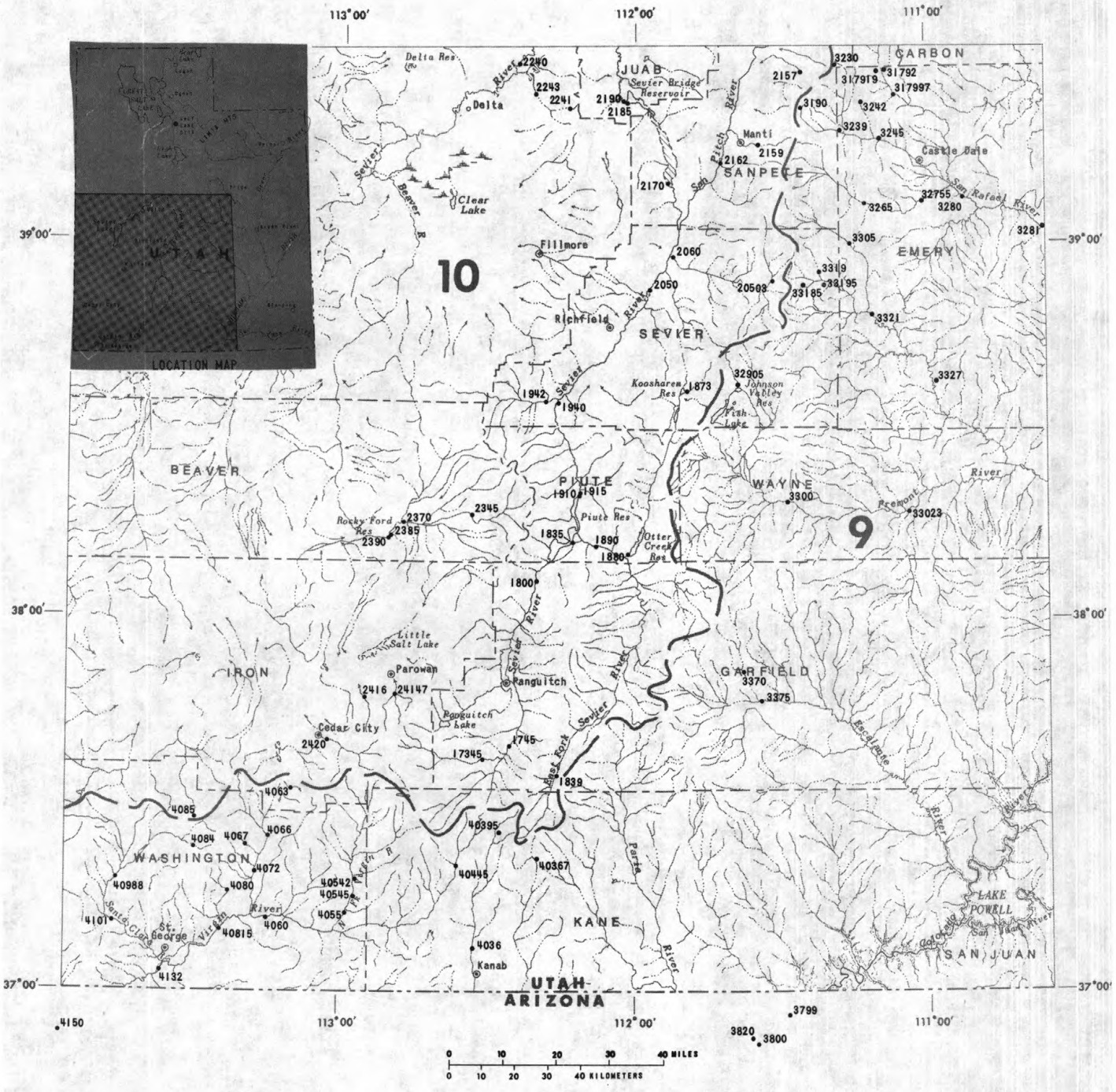

Figure 9.—Location of gaging stations in Utah—Continued.

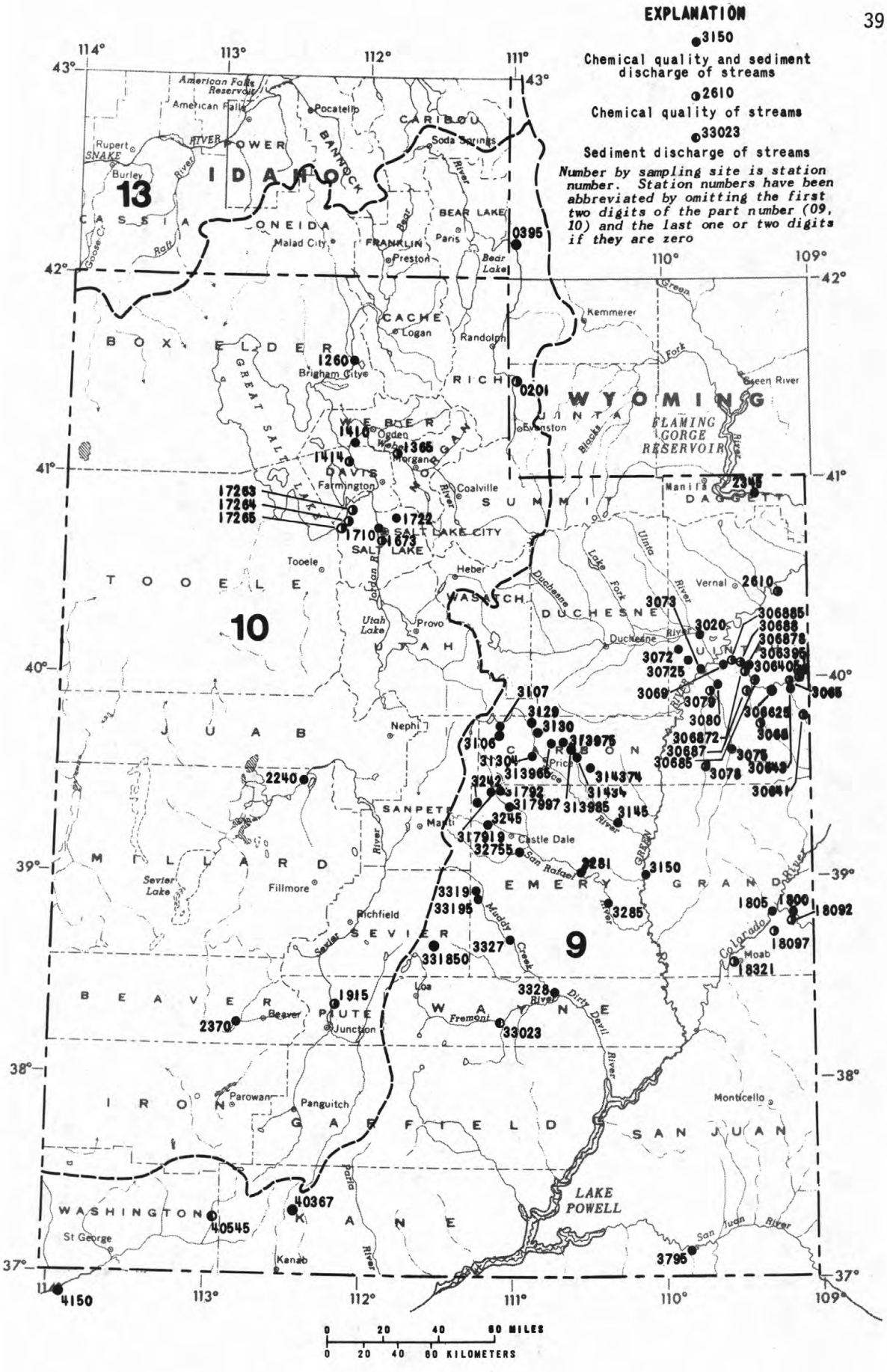

Figure 10.—Location of surface-water-quality stations in Utah.

COLORADO RIVER MAIN STEM

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 39°07'45", long 109°01'36", in SE¼NW¼ sec.5, T.11 S., R.104 W., Mesa County, Hydrologic Unit 14010005, on right bank 0.7 mi (1.1 km) downstream from McDonald Creek, 12 mi (19 km) southwest of Mack, Colorado, and 1.5 mi (2.4 km) upstream from Colorado-Utah State line.

DRAINAGE AREA.--17,843 mi^2 (46,213 km^2).

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Altitude of gage is 4,325 ft (1,318 m) from topographic map. May 1951 to October 1980, water-stage recorder at site 5.7 mi (9.2 km) upstream at different datum.

REMARKS.--Records good except those of no gage-height record, Mar. 12 to Apr. 8 and Aug. 27 to Sept. 1, which are fair. 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.--30 years, 5,719 ft^3/s (162.0 m^3/s), 4,143,000 acre-ft/yr (5,110 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,800 ft^3/s (1,610 m^3/s) June 9, 1957, gage height, 16.40 ft (4.999 m), site and datum then in use; minimum daily, 960 ft^3/s (27.2 m^3/s) Sept. 7, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,100 ft^3/s (343 m^3/s) June 9, gage height, 5.84 ft (1.780 m); minimum daily, 1,580 ft^3/s (44.7 m^3/s) Aug. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3220	4460	4410	4130	3230	3200	2400	4680	9550	3500	2040	3380
2	3260	4500	4200	4230	3190	3180	2300	4800	9160	3200	1910	3220
3	3240	4460	4330	4260	3070	3200	2100	5610	8920	3380	1880	3180
4	3200	4080	4380	4240	2940	3200	1800	9380	10000	3800	1800	3080
5	3080	4650	4350	4280	2990	3200	2000	8180	9830	3650	1680	3070
6	3040	4710	4380	4180	3090	3160	2100	6390	9860	3400	1600	3310
7	2990	4770	4480	4130	3080	3060	1950	5520	10100	2940	1580	3310
8	3130	4850	4550	3970	3060	2970	1820	4670	11000	2680	1640	3400
9	3540	4850	4500	3860	3040	2940	1780	4260	11200	2420	1600	3460
10	3160	4840	4370	3850	3120	2940	1800	3920	11000	2520	1620	3670
11	3190	4820	4040	3890	3090	2920	1760	3510	10700	2580	2020	3830
12	3230	4720	4020	3870	2770	2850	1820	3250	9720	3000	2380	3830
13	3370	4770	4100	3810	3000	2750	1920	3050	8430	3220	2700	3970
14	3630	4920	4180	3730	3180	2650	2180	2930	7080	3440	2840	3920
15	3850	4940	4140	3670	3200	2600	2100	2910	6030	3460	2780	3850
16	3950	4870	4160	3730	3210	2660	2480	2910	4900	3180	2920	3820
17	4190	4580	4370	3850	3220	2470	2940	3090	4170	3200	3020	3650
18	4300	4470	4290	3940	3220	2500	3160	3220	3680	3580	2980	3500
19	4240	4380	4270	3950	3210	2500	3360	3340	3500	3800	2840	3400
20	4270	4390	4300	3820	3180	2440	3800	3280	3340	3300	2600	3190
21	4410	4440	4280	3770	3180	2420	4380	3470	3280	2940	2420	3120
22	4290	4420	4280	3660	3180	2400	3520	3730	3480	2600	2320	3110
23	4270	4360	4310	3640	3140	2400	3280	3770	3600	2260	2220	3060
24	4190	4510	4350	3620	3120	2360	3080	3570	3440	2160	2260	3000
25	4130	4600	4340	3660	3120	2320	3020	3470	3200	2140	2300	3010
26	4150	4420	4250	3700	3140	2220	3200	3660	3020	2300	2360	2990
27	4180	4410	4350	3700	3210	2250	3620	3900	2900	2540	2300	2950
28	4250	4290	4330	3660	3250	2260	4020	4600	3160	2860	2300	2850
29	4250	4320	4310	3730	---	2340	4000	6720	3480	2740	2300	2800
30	4230	4370	4320	3350	---	2400	4120	8180	3750	2500	2400	2740
31	4610	---	4270	3290	---	2360	---	8640	---	2280	3000	---
TOTAL	117040	137170	133210	119170	87430	83120	81810	142610	195480	91570	70610	99670
MEAN	3775	4572	4297	3844	3123	2681	2727	4600	6516	2954	2278	3322
MAX	4610	4940	4550	4280	3250	3200	4380	9380	11200	3800	3020	3970
MIN	2990	4080	4020	3290	2770	2220	1760	2910	2900	2140	1580	2740
AC-FT	232100	272100	264200	236400	173400	164900	162300	282900	387700	181600	140100	197700

CAL YR 1980 TOTAL 2677730 MEAN 7316 MAX 30200 MIN 2380 AC-FT 5311000
WTR YR 1981 TOTAL 1358890 MEAN 3723 MAX 11200 MIN 1580 AC-FT 2695000

09180000 DOLORES RIVER NEAR CISCO, UTAH

LOCATION.--Lat 38°47'50, long 109°11'40", in SW¼SE¼ sec.18, T.23 S., R.25 E., Grand County, Hydrologic Unit 14030004, on left bank 0.2 mi (0.3 km) downstream from Line Canyon, 9.1 mi (14.6 km) upstream from mouth, 13.5 mi (21.7 km) downstream from Colorado-Utah State line, and 13.9 mi (22.4 km) southeast of Cisco.

DRAINAGE AREA.--4,580 mi^2 (11,860 km^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: 1974.

GAGE.--Water-stage recorder. Altitude of gage is 4,165 ft (1,270 m) from river-profile map. Dec. 6, 1950 to Apr. 18, 1965, at site 200 ft (61 m) downstream at different datum; Apr. 19, 1965 to Sept. 3, 1975 at site 10 ft (3 m) downstream at different datum.

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

AVERAGE DISCHARGE.--31 years, 739 ft^3/s (20.9 m^3/s), 535,400 acre-ft/yr (660 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,400 ft^3/s (493 m^3/s) Apr. 21, 1958, gage height, 9.84 ft (3.000 m) at different datum; minimum, 3.4 ft^3/s (0.096 m^3/s) Sept. 23, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,110 ft^3/s (59.8 m^3/s) July 18, gage height, 8.93 ft (2.722 m), no peak above base of 3,000 ft^3/s (85.0 m^3/s); minimum, 79 ft^3/s (2.24 m^3/s) Oct. 7-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	144	136	140	131	118	134	964	749	266	236	142
2	106	145	141	120	137	137	142	1080	907	280	204	157
3	101	145	135	130	133	142	134	1220	988	332	177	155
4	94	145	129	140	114	144	134	1260	1080	326	157	149
5	87	143	136	150	106	147	142	1630	1030	293	134	142
6	84	143	139	150	126	142	142	1300	1080	255	122	379
7	81	143	144	130	129	137	134	1030	1040	233	110	241
8	79	142	150	120	131	136	152	847	1210	204	101	218
9	81	141	151	120	131	136	152	716	1460	189	101	250
10	79	140	141	130	140	135	173	576	1600	188	94	196
11	79	139	129	130	150	135	175	468	1530	180	110	227
12	81	137	117	120	151	130	220	362	1420	288	120	296
13	86	140	109	120	120	136	347	296	1250	873	130	504
14	86	142	128	110	142	138	415	266	1060	1360	140	429
15	165	144	131	110	150	137	459	233	896	847	150	328
16	175	151	137	110	142	136	577	228	676	968	155	277
17	188	143	129	130	147	132	793	229	511	1060	160	244
18	178	129	138	140	141	124	958	232	452	1550	165	224
19	160	118	141	170	149	121	952	225	418	1220	160	191
20	149	111	156	170	154	120	844	195	400	841	140	178
21	146	114	161	170	152	119	677	189	400	521	135	165
22	147	113	160	160	147	123	568	205	386	422	130	162
23	146	118	164	160	137	122	560	212	377	354	125	144
24	148	129	165	150	124	119	500	197	354	324	130	274
25	142	141	167	160	110	116	589	185	314	411	125	311
26	139	133	159	160	105	121	793	180	284	294	113	160
27	143	113	165	130	112	129	946	172	269	276	98	160
28	156	104	163	121	118	139	1020	170	280	315	98	144
29	156	117	160	138	---	144	996	197	292	274	108	131
30	148	132	160	151	---	142	918	287	302	236	134	121
31	143	---	150	144	---	129	---	326	---	202	134	---
TOTAL	3847	3999	4491	4284	3729	4086	14746	15677	23015	15382	4196	6699
MEAN	124	133	145	138	133	132	492	506	767	496	135	223
MAX	188	151	167	170	154	147	1020	1630	1600	1550	236	504
MIN	79	104	109	110	105	116	134	170	269	180	94	121
AC-FT	7630	7930	8910	8500	7400	8100	29250	31100	45650	30510	8320	13290

CAL YR 1980	TOTAL	523698	MEAN	1431	MAX	10400	MIN 79	AC-FT	1039000
WTR YR 1981	TOTAL	104151	MEAN	285	MAX	1630	MIN 79	AC-FT	206600

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 current year, once-daily.
WATER TEMPERATURES: March 1951 to September 1959, October 1964 to current year, once-daily.
SUSPENDED-SEDIMENT DISCHARGE: March 1951 to Dec. 1953, Oct. 1957 to Sept. 1964, Oct. 1978 to Sept. 1979, quarterly, Oct. 1979 to Sept. 1980, monthly.

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 daily, 254 micromhos May 8, June 6, 1952.
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 daily, 9,720 micromhos Aug. 9; minimum daily, 520 micromhos June 11.
WATER TEMPERATURES: Maximum, 26.0°C several days during July and Aug.; minimum, 0.5°C Jan. 26.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	NITRO-GEN DIS-SOLVED (MG/L AS N)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT 21...	1100	151	3160	8.1	11.0	9.0	51	9.6	2.6	90
JAN 26...	1330	171	4500	8.2	5.0	.5	1.6	11.7	9.0	<1
MAR 23...	1130	129	6020	8.2	16.5	11.0	22	9.7	3.0	K4
MAY 27...	1100	168	4160	8.2	25.0	18.0	2.9	7.9	1.9	13
JUL 27...	1100	291	2080	8.0	28.5	22.0	480	7.4	1.5	70
SEP 24...	1030	230	3610	8.0	24.0	16.5	160	8.2	1.3	K56

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L 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 21...	160	590	420	--	140	59	440	61	7.9	25
JAN 26...	21	540	370	--	120	58	710	73	13	36
MAR 23...	21	570	--	410	120	66	1000	78	18	45
MAY 27...	30	470	--	320	110	48	620	70	12	93
JUL 27...	760	460	--	350	130	34	270	55	5.5	13
SEP 24...	180	550	--	420	140	49	520	66	9.6	19

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)
OCT 21...	170	470	690	.5	8.2	1930	1940	2.6	787
JAN 26...	170	390	1200	.3	6.2	2570	2640	3.5	1190
MAR 23...	160	370	1700	.4	4.7	3520	3410	4.8	1230
MAY 27...	150	310	1100	.4	6.0	2340	2380	3.2	1060
JUL 27...	110	360	420	.3	8.8	1310	1310	1.8	1030
SEP 24...	130	400	900	.5	7.1	2110	2120	2.9	1310

K Results based on colony count outside the acceptable range (non-ideal colony count).

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	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)
OCT 21...	.880	.820	1.1	1.1	.82	1.1	1.70	.00	1.9
JAN 26...	3.40	3.50	--	4.5	--	.60	--	--	4.1
MAR 23...	1.10	1.20	--	1.5	1.3	.80	2.40	.40	2.0
MAY 27...	.070	.070	--	.09	.91	.91	.98	.00	.98
JUL 27...	.570	.250	--	.32	.93	.42	1.50	.83	.67
SEP 24...	.070	.070	--	.09	1.0	.34	1.10	.69	.41

DATE	NITRO-GEN, 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, 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)	POTAS-SIUM -40 DIS-SOLVED (PCI/L AS K40)
OCT 21...	2.4	.68	.66	11	.060	.18	.030	--
JAN 26...	--	4.9	4.9	--	.010	.03	.050	27
MAR 23...	3.4	.99	.99	15	.020	.06	.020	34
MAY 27...	1.9	.89	.91	8.3	.040	.12	.020	69
JUL 27...	2.4	.86	.86	10	.490	1.5	<.010	--
SEP 24...	2.0	.90	.92	8.9	.180	.55	1.20	--

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)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)
OCT 21...	1100	2	0	2	200	0	200	0	0	0	0
JAN 26...	1330	2	0	2	100	0	100	0	0	0	20
MAR 23...	1130	1	1	0	100	0	200	1	1	0	30
MAY 27...	1100	2	0	2	100	0	100	0	0	0	10
SEP 24...	1030	3	1	2	300	0	300	0	0	0	10

DATE	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, SUS-PENDED RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	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)
OCT 21...	0	10	3	2	1	11	6	5	730	720	10
JAN 26...	20	0	0	0	0	5	3	2	150	100	50
MAR 23...	20	10	0	0	0	4	2	2	350	300	50
MAY 27...	0	10	0	0	2	5	3	2	210	190	20
SEP 24...	10	0	1	1	0	13	11	2	3900	3900	20

09180000 DOLORES RIVER NEAR CISCO, UTAH--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	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)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)
OCT 21...	6	1	5	100	60	40	.1	.1	.0	7	2
JAN 26...	9	7	2	150	10	140	.2	.1	.1	8	4
MAR 23...	0	0	0	160	40	120	.1	.0	.1	4	0
MAY 27...	2	0	4	60	30	30	.2	.1	.1	3	0
SEP 24...	7	6	1	130	120	10	.1	.1	.0	9	7

DATE	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)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 21...	5	2	0	2	0	0	0	20	0	30
JAN 26...	4	3	0	3	0	0	0	20	0	20
MAR 23...	4	2	1	1	0	0	0	100	60	40
MAY 27...	3	1	0	1	0	0	0	10	0	10
SEP 24...	2	2	1	1	0	0	0	60	10	50

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
OCT 21...	1100	--	11	.7
JAN 26...	1330	--	7.0	.7
MAR 23...	1130	--	7.6	.2
MAY 27...	1100	--	14	--
JUL 27...	1100	11	--	--
SEP 24...	1030	--	6.3	1.2

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO JULY 1981

DATE	OCT 21,80		MAR 23,81		MAY 27,81		JUL 27,81		SEP 24,81	
TIME	1100		1130		1100		1100		1030	
TOTAL CELLS/ML	9900		830		11000		2700		7500	
DIVERSITY: DIVISION	0.9		1.2		0.8		1.0		1.4	
.CLASS	0.9		1.2		0.8		1.0		1.4	
..ORDER	1.8		1.7		1.1		1.6		1.8	
...FAMILY	2.7		2.4		1.3		1.6		2.1	
....GENUS	2.9		2.8		1.3		1.6		2.1	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...MICRACTINIACEAE										
....MICRACTINIUM	--	-	--	-	--	-	--	-	710	9
...OOCYSTACEAE										
....ANKISTRODESMUS	150	2	--	-	--	-	70	3	130	2
...SCENEDESMACEAE										
....SCENEDESMUS	2300a	23	52	6	8500a	78	--	-	130	2
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	380	4	--	-	140	1	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	2800a	28	--	-	1100	10	1400a	51	2600a	34
....MELOSIRA	460	5	78	9	--	-	--	-	--	-
....STEPHANODISCUS	--	-	39	5	--	-	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	840	8	52	6	360	3	--	-	65	1
...CYMBELLACEAE										
....CYMBELLA	--	-	26	3	--	-	--	-	65	1
...FRAGILARIACEAE										
....SYNEDRA	1100	11	--	-	140	1	--	-	--	-
...NAVICULACEAE										
....ENTOMONEIS	76	1	--	-	--	-	--	-	--	-
....NAVICULA	540	5	65	8	72	1	--	-	260	3
...NITZSCHIACEAE										
....HANTZSCHIA	76	1	--	-	--	-	--	-	--	-
....NITZSCHIA	990	10	270a	33	290	3	560a	21	390	5
...SURIRELLACEAE										
....SURIRELLA	150	2	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....AGMENELLUM	--	-	160a	19	--	-	--	-	--	-
....ANACYSTIS	--	-	91	11	290	3	700a	26	3200a	42
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....TRACHELOMONAS	76	1	--	1	--	-	--	-	--	-

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent
(b) Observed organism, may not have been counted: Less than 1/2 percent

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5550	4850	---	3950	5780	5270	4900	880	2350	3130	2160	---
2	5810	4680	---	3880	---	5710	5180	810	2020	4170	2430	4570
3	6380	4580	6640	3740	---	---	---	---	970	3730	2990	2810
4	7250	---	6450	3900	4080	7050	5390	---	900	3140	2890	2840
5	7350	4600	6110	3920	5100	6020	6070	---	730	1740	2690	7350
6	7150	4770	5600	---	5050	---	4850	---	740	1650	2860	1500
7	---	4920	5380	4160	5010	5310	---	710	710	1740	3930	2780
8	6250	4930	---	---	5430	5480	4150	740	730	1910	6160	---
9	5570	4870	5250	---	5960	5250	4400	880	640	1930	9720	3450
10	5570	4960	5630	4280	5560	---	4580	1020	560	1960	4870	3120
11	5550	---	5900	4480	5210	---	4800	1180	520	---	---	2060
12	5660	5050	5490	4260	5950	5240	5260	---	530	2270	2720	2080
13	5870	5040	---	---	5490	5620	5770	1320	570	1600	4570	2610
14	---	---	4850	6540	5710	5460	---	1770	600	1740	1960	2130
15	---	5110	5190	5380	5110	5310	---	2080	750	1950	3340	---
16	5350	5240	5450	4860	4550	5610	---	2400	760	1450	5680	1680
17	7460	5340	6150	4370	---	---	1350	2520	960	1560	1730	1820
18	7630	---	6110	4100	4910	5380	1180	3140	1110	1520	---	2760
19	7800	5380	6030	4720	4890	5230	1000	---	1410	1080	2360	2310
20	6070	5010	5100	5820	4790	5260	920	3410	1480	1820	6220	2540
21	3160	---	5720	6870	4660	5170	---	3640	1560	1450	4860	2950
22	2990	4770	5390	4740	5100	5450	1190	3660	1570	1810	2170	---
23	3290	---	---	4350	5180	6020	1590	4140	---	1840	2280	3650
24	3520	5490	4950	4820	---	---	1410	---	1590	2130	2670	3280
25	4020	---	---	5520	4440	5970	1540	4200	1490	2080	---	3880
26	4920	6160	4510	4500	4340	---	1830	---	1650	1950	3880	2020
27	4110	---	4230	---	4490	5720	---	3980	1910	2100	4940	4940
28	---	5870	4410	5820	4640	5540	1240	4100	2050	2300	4060	2870
29	4160	5840	4500	---	---	5620	890	4640	2120	2720	4040	---
30	4280	---	---	5290	---	5330	840	4740	2150	1530	3990	3310
31	4510	---	3790	4940	---	---	---	---	---	1980	5060	---
MEAN	5450	---	---	4770	5060	---	---	---	1210	2070	3830	3010

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0	10.0	---	4.0	3.0	7.0	10.0	19.0	23.0	23.0	25.0	---
2	21.0	9.0	---	4.0	---	7.0	10.0	19.0	23.0	24.0	25.0	25.0
3	21.0	9.0	4.0	4.0	---	---	---	---	23.0	24.0	25.0	25.0
4	21.0	---	4.0	4.0	3.0	7.0	11.0	---	23.0	24.0	25.0	24.0
5	21.0	9.0	4.0	3.0	3.0	7.0	12.0	---	23.0	24.0	25.0	23.0
6	21.0	10.0	4.0	---	4.0	---	12.0	---	21.0	25.0	25.0	23.0
7	---	11.0	4.0	3.0	4.0	7.0	---	16.0	21.0	26.0	26.0	23.0
8	21.0	11.0	---	---	4.0	7.0	12.0	15.0	21.0	26.0	26.0	---
9	21.0	11.0	4.0	---	5.0	7.0	12.0	15.0	21.0	26.0	26.0	23.0
10	21.0	11.0	4.0	3.0	5.0	---	16.0	15.0	21.0	26.0	26.0	22.0
11	19.0	---	4.0	3.0	5.0	---	16.0	15.0	21.0	---	---	22.0
12	18.0	11.0	4.0	3.0	5.0	8.0	16.0	---	22.0	25.0	25.0	21.0
13	18.0	11.0	---	---	5.0	9.0	16.0	15.0	22.0	25.0	24.0	21.0
14	---	---	3.0	3.0	5.0	9.0	---	15.0	19.0	25.0	23.0	21.0
15	---	9.0	3.0	3.0	5.0	9.0	---	16.0	19.0	25.0	23.0	---
16	16.0	9.0	3.0	3.0	5.0	9.0	---	17.0	19.0	25.0	23.0	21.0
17	16.0	9.0	3.0	3.0	---	---	16.0	17.0	20.0	25.0	23.0	21.0
18	12.0	---	3.0	3.0	5.0	9.0	16.0	17.0	21.0	25.0	---	21.0
19	11.0	5.0	3.0	3.0	7.0	9.0	16.0	---	21.0	25.0	24.0	21.0
20	11.0	5.0	3.0	3.0	7.0	9.0	16.0	17.0	22.0	25.0	24.0	21.0
21	9.0	---	3.0	3.0	7.0	10.0	---	17.0	22.0	24.0	24.0	21.0
22	11.0	5.0	3.0	3.0	7.0	10.0	15.0	18.0	23.0	25.0	24.0	---
23	11.0	---	---	3.0	7.0	11.0	15.0	18.0	---	25.0	24.0	21.0
24	10.0	5.0	3.0	3.0	---	---	15.0	---	23.0	24.0	24.0	20.0
25	10.0	---	---	3.0	7.0	10.0	15.0	20.0	23.0	25.0	---	20.0
26	10.0	5.0	3.0	.5	7.0	---	15.0	---	23.0	25.0	24.0	20.0
27	10.0	---	3.0	---	7.0	10.0	---	22.0	24.0	25.0	25.0	20.0
28	---	5.0	3.0	3.0	7.0	10.0	18.0	23.0	24.0	25.0	25.0	20.0
29	9.0	4.0	3.0	---	---	10.0	19.0	23.0	24.0	25.0	25.0	---
30	10.0	---	---	3.0	---	10.0	19.0	23.0	24.0	25.0	26.0	19.0
31	10.0	---	3.0	3.0	---	---	---	---	---	25.0	26.0	---
MEAN	15.0	---	---	3.0	5.5	---	---	---	22.0	25.0	24.5	21.5

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT						
21...	1100	151	9.0	51	43	21
JAN						
26...	1330	171	.5	6	96	2.8
MAR						
23...	1130	129	11.0	460	100	160
MAY						
27...	1100	168	18.0	251	98	114
JUL						
27...	1100	291	22.0	891	100	700
SEP						
24...	1030	230	16.5	447	99	278

09180500 COLORADO RIVER NEAR CISCO, UTAH

LOCATION.--Lat 38°48'38", long 109°17'34", in NW¼NW¼ sec.17, T.23 S., R.24 E., Grand County, Hydrologic Unit 14030005, on left bank 1 mi (2 km) downstream from Dolores River, 11 mi (18 km) south of Cisco, 36 mi (58 km) downstream from Colorado-Utah State line, 97 mi (156 km) upstream from Green River, and 235 mi (378 km) upstream from San Juan River, at mile 1,022.3 (1,644.9 km).

DRAINAGE AREA.--24,100 mi^2 (62,420 km^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 (1,247 m) from river-profile map. Prior to Nov. 10, 1914, several staff and chain gages at bridge near Moab, 31 mi (50 km) downstream at datum, 3,937.73 ft (1,200.220 m) 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.--70 years (1911-81), 7,500 ft^3/s (212.4 m^3/s), 5,434,000 acre-ft/yr (6.70 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 76,800 ft^3/s (2,175 m^3/s) June 19, 1917, gage height, 19.7 ft (6.00 m); minimum recorded, 558 ft^3/s (15.8 m^3/s) July 21, 1934, gage height, 0.44 ft (0.134 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, about 125,000 ft^3/s (3,540 m^3/s) July 4, 1884, from flood record at Fruita, Colo.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,800 ft^3/s (362 m^3/s) June 9, gage height, 5.92 ft (1.804 m); minimum, 1,270 ft^3/s (36.0 m^3/s), Aug. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3000	4430	4330	3910	3110	2910	2330	4970	9360	3550	2120	2750
2	3000	4310	4140	3960	3050	2920	2210	5560	9740	3310	1970	2890
3	3070	4370	4230	3980	2960	2950	2030	5990	9280	3170	1830	2830
4	3010	4080	4230	4000	2780	2960	1680	9050	10100	3680	1770	2710
5	2840	4270	4230	4030	2820	2950	1900	10000	10400	3670	1560	2660
6	2840	4560	4270	4060	2940	2940	2010	7840	10200	3360	1430	3230
7	2750	4580	4390	4030	2930	2820	1910	6670	10300	2960	1360	3050
8	2800	4730	4470	3840	2920	2690	1840	5620	11100	2620	1380	3180
9	3050	4730	4380	3760	2920	2650	1800	4940	11800	2370	1360	3180
10	3180	4700	4240	3700	2960	2650	1830	4510	11700	2220	1340	3390
11	2850	4700	3920	3730	3000	2620	1760	3980	11600	2460	1590	3610
12	3000	4640	3800	3720	2600	2630	1810	3560	10800	2810	2080	3690
13	3050	4680	3850	3700	2700	2620	2030	3220	9570	3520	2450	3990
14	3400	4760	3960	3610	2940	2590	2390	3010	8210	4480	2780	4100
15	3740	4840	3980	3550	3010	2490	2350	2930	6950	4200	2800	3780
16	4080	4850	4000	3570	3010	2540	2700	2900	5820	3850	2780	3690
17	3960	4460	4150	3670	3030	2390	3310	3050	4690	3940	2880	3510
18	4260	4270	4180	3820	3020	2400	3770	3220	4020	4900	2890	3290
19	4140	4180	4130	3880	2980	2420	3920	3350	3720	4810	2810	3150
20	4140	4150	4180	3760	2940	2370	4150	3310	3470	4080	2460	2930
21	4280	4200	4160	3670	2950	2370	4640	3370	3240	3380	2230	2780
22	4180	4280	4150	3580	2940	2390	4290	3670	3420	2910	2090	2750
23	4080	4250	4140	3560	2880	2370	3630	3870	3590	2470	1980	2700
24	4010	4370	4210	3530	2830	2270	3350	3690	3480	2250	1960	2720
25	4010	4560	4220	3590	2830	2210	3220	3460	3170	2290	1970	2950
26	3880	4340	4080	3620	2850	2160	3470	3580	2890	2270	1960	2710
27	4000	4290	4190	3620	2900	2120	4050	3740	2730	2470	1920	2640
28	4040	4160	4130	3590	2990	2130	4590	4190	2740	2830	1920	2560
29	4070	4180	4100	3700	---	2220	4700	5870	3280	2890	1880	2470
30	3950	4190	4090	3420	---	2300	4600	7810	3700	2620	2000	2400
31	4390	---	4050	3190	---	2240	---	8510	---	2350	2490	---
TOTAL	111050	133110	128580	115350	81790	78290	88270	149440	205070	98690	64040	92290
MEAN	3582	4437	4148	3721	2921	2525	2942	4821	6836	3184	2066	3076
MAX	4390	4850	4470	4060	3110	2960	4700	10000	11800	4900	2890	4100
MIN	2750	4080	3800	3190	2600	2120	1680	2900	2730	2220	1340	2400
AC-FT	220300	264000	255000	228800	162200	155300	175100	296400	406800	195800	127000	183100

CAL YR 1980 TOTAL 3150720 MEAN 8609 MAX 38400 MIN 2650 AC-FT 6249000
WTR YR 1981 TOTAL 1345970 MEAN 3688 MAX 11800 MIN 1340 AC-FT 2670000

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 current year.
WATER TEMPERATURES: May 1949 to September 1959, October 1964 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 (2,531,000 tonnes) Oct. 14, 1941; minimum daily, 14 tons (13 tonnes) Aug. 22, 1960.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 2,120 micromhos Aug. 9; minimum daily, 540 micromhos June 11.
WATER TEMPERATURES: Maximum, 25.0°C several days during July and Aug; minimum, 1.0°C Dec. 15.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 7,200 mg/L July 18; minimum daily mean, 6 mg/L Feb. 4.
SEDIMENT LOADS: Maximum daily, 95,300 tons (86,500 tonnes) July 18; minimum daily, 45 tons (41 tonnes) Feb. 4.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	NITRO-GEN DIS-SOLVED (MG/L AS N)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT 21...	1430	4240	1510	8.0	11.5	9.5	170	9.4	1.7	91
NOV 17...	1130	4230	1140	8.3	.0	3.0	16	10.8	1.4	--
DEC 15...	1200	3650	1140	8.2	5.0	1.0	2.5	12.9	1.4	4
JAN 26...	1630	3520	1160	8.2	8.5	2.0	2.5	13.6	4.1	6
FEB 23...	1200	2990	1470	8.3	8.5	4.5	5.3	11.7	1.4	<1
MAR 23...	1500	2410	1500	8.1	21.5	8.5	23	10.8	1.4	9
APR 27...	1030	3800	1130	8.0	26.5	16.5	110	7.5	1.3	110
MAY 27...	1400	3840	1400	8.1	30.0	20.5	23	7.9	2.4	6
JUN 22...	1400	3380	1200	8.2	35.0	24.0	15	7.4	1.7	K8
JUL 27...	1430	2470	1620	7.9	35.0	23.5	380	7.3	2.3	220
AUG 24...	1400	1910	1770	7.8	33.5	23.0	68	7.8	2.5	K75
SEP 24...	1330	2680	1660	8.2	26.5	20.0	69	8.1	1.6	K37

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L 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 21...	240	480	300	--	120	43	140	39	2.8	6.2
NOV 17...	--	350	200	--	87	31	120	43	2.8	6.1
DEC 15...	48	340	200	--	85	31	120	43	2.8	5.1
JAN 26...	390	330	190	--	82	31	130	46	3.1	4.8
FEB 23...	31	340	200	--	84	32	170	51	4.0	6.3
MAR 23...	47	380	--	230	95	35	190	52	4.2	6.4
APR 27...	130	320	--	190	82	28	120	44	2.9	6.2
MAY 27...	8	420	--	270	110	35	140	42	3.0	5.9
JUN 22...	K8	380	--	270	98	33	120	40	2.7	4.0
JUL 27...	390	560	--	400	148	46	150	37	3.0	6.6
AUG 24...	780	600	--	430	160	49	150	35	2.9	5.7
SEP 24...	K120	510	--	350	132	43	150	39	3.1	6.5

K Results based on colony count outside the acceptable range (non-ideal colony count).

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, 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 CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT 21...	180	410	140	.4	12	999	984	1.4	11400
NOV 17...	150	240	140	.2	11	790	729	1.1	9020
DEC 15...	--	280	140	.3	9.0	764	758	1.0	7530
JAN 26...	140	270	150	.3	9.3	770	776	1.1	7320
FEB 23...	140	280	220	.2	8.1	887	888	1.2	7160
MAR 23...	--	330	240	.3	8.0	1000	997	1.4	6510
APR 27...	130	250	150	.3	7.7	737	726	1.0	7560
MAY 27...	150	320	160	.4	6.2	907	871	1.2	9400
JUN 22...	110	340	130	.3	6.1	811	800	1.1	7400
JUL 27...	160	520	160	.4	11	1200	1140	1.6	8000
AUG 24...	170	520	180	.5	11	1230	1190	1.7	6340
SEP 24...	160	450	160	.5	10	1130	1050	1.5	8180

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DIS-SOLVED (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)
OCT 21...	.120	.090	.15	.12	1.4	.78	1.50	.63	.87
NOV 17...	.020	.020	.02	.03	.89	.70	.91	.19	.72
DEC 15...	.050	.070	.05	.09	.83	.60	.88	.21	.67
JAN 26...	.660	.680	.23	.88	.24	.23	.90	.00	.91
FEB 23...	.340	.140	--	.18	.76	.61	1.10	.35	.75
MAR 23...	.140	.100	--	.13	1.4	.68	1.50	.72	.78
APR 27...	.100	.130	--	.17	1.2	.40	1.30	.77	.53
MAY 27...	.090	.140	--	.18	1.0	1.5	1.10	.00	1.6
JUN 22...	.080	.090	--	.12	1.0	1.1	1.10	.00	1.2
JUL 27...	.150	.140	--	.18	1.4	.72	1.50	.64	.86
AUG 24...	.110	.120	--	.15	1.1	.82	1.20	.26	.94
SEP 24...	.150	.080	--	.10	.81	.56	.96	.32	.64

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO-GEN, 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, 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)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT 21...	2.4	.90	.87	11	.190	.58	.030	--
NOV 17...	1.6	.70	.71	7.1	.030	.09	.030	--
DEC 15...	1.6	.69	.68	7.0	.050	.15	.040	--
JAN 26...	4.2	3.3	3.2	19	.040	.12	.020	3.6
FEB 23...	2.3	1.2	.61	10	.140	.43	.050	4.7
MAR 23...	2.1	.59	.58	9.3	.080	.25	.030	--
APR 27...	2.0	.73	.74	9.0	.220	.67	.050	4.6
MAY 27...	1.8	.69	.78	7.9	.100	.31	.070	4.4
JUN 22...	1.6	.48	.48	7.0	.070	.21	.010	3.0
JUL 27...	3.3	1.8	1.4	15	.420	1.3	.010	--
AUG 24...	2.9	1.7	1.6	13	.050	.15	.020	--
SEP 24...	2.0	.99	.93	8.6	.100	.31	.030	--

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)	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, SUS-PENDED RECOV. (UG/L AS CR)
NOV 17...	1130	2	1	1	100	20	80	4	<1	0	0
FEB 23...	1200	2	0	2	100	30	70	0	<1	10	10
MAY 27...	1400	2	0	2	100	0	200	0	<1	10	0
AUG 24...	1400	3	0	3	100	20	85	0	<1	0	0

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	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)
NOV 17...	0	2	<3	2	0	2	550	--	<10	10	10
FEB 23...	0	0	<3	3	2	1	230	220	10	11	9
MAY 27...	10	0	<3	5	0	5	1000	--	<10	9	6
AUG 24...	10	1	<3	9	8	1	3000	--	<10	11	4

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	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)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
NOV 17...	0	40	30	9	.1	.1	.0	3	1	2
FEB 23...	2	50	20	30	.0	.0	.0	4	2	2
MAY 27...	3	60	50	6	.2	.0	1.0	3	0	3
AUG 24...	7	80	70	7	.2	.2	.0	5	2	3

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	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)
NOV 17...	6	0	6	0	0	0	--	10	0	20
FEB 23...	6	0	6	0	0	0	--	80	80	4
MAY 27...	10	0	10	0	0	0	--	40	10	30
AUG 24...	13	0	13	0	0	1	1900	30	20	6

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)
OCT 21...	1430	6.0	--	--
NOV 17...	1130	--	5.5	.5
FEB 23...	1200	--	9.6	1.4
APR 27...	1030	7.8	--	--
MAY 27...	1400	--	9.8	--
JUN 22...	1400	7.7	--	--
JUL 27...	1430	9.1	--	--
AUG 24...	1400	--	4.4	.1
SEP 24...	1330	6.6	--	--

DATE	TRITIUM IN WATER MOLECULES (TU)	TRITIUM WATER MOLECULES COUNT ERROR (TU)
OCT 01-31	73.2	4.4
NOV 01-30	77.4	4.4
DEC 01-31	69.2	4.5
JAN 01-31	70.2	2.6
FEB 01-28	71.7	4.5
MAR 01-31	75.9	4.0
APR 01-30	66.8	4.0
MAY 01-31	68.9	4.5
JUN 01-30	78.7	5.8
JUL 01-31	70.7	4.7
AUG 01-31	79.0	4.7
SEP 01-30	73.6	4.7

COLORADO RIVER MAIN STEM

09180500 COLORADO RIVER NEAR CISCO UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	NOV 17,80		MAR 23,81		MAY 27,81		JUN 22,81	
TIME	1130		1500		1400		1400	
TOTAL CELLS/ML	540		8300		9700		53000	
DIVERSITY: DIVISION	0.2		0.9		1.1		1.0	
.CLASS	0.2		0.9		1.1		1.0	
..ORDER	0.5		1.6		1.7		1.7	
...FAMILY	2.2		2.5		2.3		1.8	
....GENUS	2.3		2.6		2.7		1.9	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	--	-
...MICRACTINIACEAE								
....MICRACTINIUM	--	-	200	2	1200	13	1200	2
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	--	-	61	1	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	--	-
....OOCYSTIS	13	2	--	-	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	2000a	20	2400	5
....SCENEDESMUS	--	-	98	1	1300	13	3900	7
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	310	3	2700	5
..ZYGNEMATALES								
...DESMIDIACEAE								
....COSMARIUM	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	39	7	2200a	27	3300a	34	33000a	62
....MELOSIRA	--	-	--	-	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	--	-	--	-
....COCCONEIS	13	2	--	-	--	-	--	-
....RHOICOSPHENIA	26	5	98	1	--	-	--	-
...CYMBELLACEAE								
....CYMBELLA	39	7	490	6	--	-	--	-
...DIATOMACEAE								
....DIATOMA	26	5	49	1	--	-	--	-
...FRAGILARIACEAE								
....SYNEDRA	--	-	200	2	--	-	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	13	2	200	2	--	-	--	-
...NAVICULACEAE								
....ENTOMONEIS	--	-	98	1	--	-	--	-
....NAVICULA	310a	57	2900a	36	430	4	300	1
...NITZSCHIACEAE								
....NITZSCHIA	13	2	250	3	860	9	6900	13
...SURIRELLACEAE								
....SURIRELLA	--	-	49	1	61	1	--	-
...TABELLARIACEAE								
....TABELLARIA	52	10	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	61	1	--	-
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	61	1	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	61	1	2700	5
..HORMOGONALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	1400a	17	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....TRACHELOMONAS	--	-	--	-	--	-	--	-

See footnote at end of table.

09180500 COLORADO RIVER NEAR CISCO UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	JUL 27,81		AUG 25,81		SEP 24,81	
TIME	1430		1400		1330	
TOTAL CELLS/ML	9100		3500		6400	
DIVERSITY: DIVISION	0.9		1.0		1.6	
.CLASS	0.9		1.0		1.6	
..ORDER	1.6		1.3		2.4	
...FAMILY	1.9		2.3		3.0	
....GENUS	2.4		2.3		3.3	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...CHARACIACEAE						
....SCHROEDERIA	--	-	770a	22	35	1
...MICRACTINIACEAE						
....MICRACTINIUM	--	-	--	-	380	6
...OOCYSTACEAE						
....ANKISTRODESMUS	66	1	170	5	140	2
....DICTYOSPHAERIUM	200	2	--	-	--	-
....KIRCHNERIELLA	66	1	--	-	--	-
....OOCYSTIS	66	1	--	-	--	-
...SCENEDESMACEAE						
....ACTINASTRUM	790	9	--	-	1100a	18
....SCENEDESMUS	1300	14	1400a	41	980a	15
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	200	2	--	-	350	5
..ZYGNEMATALES						
...DESMIDIACEAE						
....COSMARIUM	66	1	--	-	--	-
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	4200a	46	460	13	770	12
....MELOSIRA	460	5	--	-	--	-
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	70	1
....COCCONEIS	--	-	--	-	35	1
....RHOICOSPHENIA	--	-	--	-	--	-
...CYMBELLACEAE						
....CYMBELLA	--	-	--	-	35	1
...DIATOMACEAE						
....DIATOMA	--	-	--	-	--	-
...FRAGILARIACEAE						
....SYNEDRA	--	-	--	-	--	-
...GOMPHONEMATACEAE						
....GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
....ENTOMONEIS	--	-	--	-	--	-
....NAVICULA	66	1	460	13	170	3
...NITZSCHIACEAE						
....NITZSCHIA	1600a	18	170	5	660	10
...SURIRELLACEAE						
....SURIRELLA	--	-	--	-	35	1
...TABELLARIACEAE						
....TABELLARIA	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
.CRYPTOPHYCEAE						
..CRYPTOMONADALES						
...CRYPTOCHRYSIDACEAE						
....CHROOMONAS	--	-	--	-	--	-
...CRYPTOMONADACEAE						
....CRYPTOMONAS	--	-	--	-	35	1
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	--	-	--	-	630	10
..HORMOGONALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	--	-	--	-	870	14
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....TRACHELOMONAS	--	-	72	2	35	1

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organism, may not have been counted: Less than 1/2 percent.

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1410	1300	1200	1110	1320	1300	1520	880	710	1200	1490	---
2	1460	1220	1220	1110	---	1420	1550	840	700	1410	1540	1750
3	1450	1210	1200	1120	1240	1370	1600	---	700	1380	1620	1660
4	1420	1260	1180	1130	1230	1480	1720	840	690	---	1640	1640
5	1440	1240	1140	1150	1300	1310	1750	670	670	1300	1670	1710
6	1440	1290	1140	1120	1320	1370	1610	670	650	1250	1700	1560
7	1460	1200	1150	1110	1390	1300	1610	710	640	1360	1750	1610
8	1470	1200	1180	1130	1420	1340	1590	790	610	1320	1830	---
9	1430	1110	1170	1110	1450	1400	1630	850	570	1330	2120	1610
10	1390	1120	1170	1140	1370	1370	1670	910	550	1370	1910	1530
11	1350	1130	1190	1160	1400	1390	1810	1080	540	1510	2070	1480
12	1380	1120	1150	1100	1510	1380	1830	---	550	1480	1850	1490
13	1410	1110	1120	1160	1380	1330	2080	1130	590	1510	1840	1490
14	1450	1140	1140	1230	1390	1380	---	1180	640	1850	2070	1510
15	1480	1120	1150	1150	1320	1390	---	---	690	1500	1940	---
16	1600	1160	1170	1190	1350	1450	1430	1270	960	1550	2070	1380
17	1810	1160	1190	1130	1380	1440	1330	1320	860	1500	1620	1380
18	1690	1130	1220	1140	1290	1460	1240	1320	950	1590	---	1430
19	1640	1150	1190	1190	1290	1410	1160	1270	1070	1240	1620	1410
20	1480	1140	1170	1280	1320	1470	1080	1290	1120	1440	1710	1420
21	1510	1140	1220	1240	1270	1410	980	1260	1180	---	1600	1450
22	1290	1150	1150	1160	1360	1430	920	1260	1190	1450	1670	1470
23	1330	1170	1140	1130	1340	1450	980	1220	1140	1500	1670	1500
24	1340	1170	1120	1150	1210	1430	1020	1260	1140	1580	1710	1510
25	1350	1220	1110	1180	1280	1450	1050	1220	1110	1620	1730	1660
26	1380	1200	1130	1160	1260	1500	1130	1260	1150	1610	1740	1500
27	1380	1190	1060	1250	1280	1440	1070	1240	1190	1650	1770	1800
28	1330	1170	1080	1190	1290	1560	1020	1200	1240	1680	1760	1560
29	1350	1140	1100	---	---	1580	940	1150	1320	1720	1680	---
30	1370	1150	1090	1140	---	1510	900	970	1340	1550	1720	1510
31	1340	---	1070	1250	---	---	---	910	---	1510	1780	---
MEAN	1440	1170	1150	1160	1330	1420	1370	1070	882	1480	1760	1540

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0	8.0	5.0	4.0	3.0	7.0	10.0	18.0	21.0	22.0	24.0	---
2	20.0	8.0	5.0	4.0	---	7.0	10.0	18.0	21.0	23.0	24.0	24.0
3	20.0	8.0	5.0	4.0	3.0	7.0	10.0	---	21.0	23.0	24.0	24.0
4	20.0	8.0	5.0	4.0	3.0	7.0	11.0	16.0	21.0	---	24.0	23.0
5	20.0	8.0	5.0	3.0	4.0	7.0	12.0	15.0	21.0	23.0	24.0	23.0
6	20.0	9.0	5.0	3.0	4.0	7.0	12.0	15.0	20.0	24.0	24.0	22.0
7	20.0	10.0	5.0	3.0	4.0	7.0	12.0	14.0	20.0	25.0	25.0	22.0
8	20.0	10.0	5.0	3.0	4.0	7.0	12.0	14.0	20.0	25.0	25.0	---
9	20.0	10.0	4.0	3.0	4.0	7.0	12.0	14.0	20.0	25.0	25.0	22.0
10	20.0	10.0	4.0	3.0	5.0	7.0	16.0	14.0	20.0	25.0	25.0	21.0
11	18.0	11.0	4.0	3.0	5.0	8.0	16.0	14.0	20.0	25.0	25.0	21.0
12	18.0	10.0	4.0	3.0	5.0	8.0	16.0	---	21.0	24.0	24.0	20.0
13	17.0	10.0	4.0	3.0	5.0	9.0	16.0	14.0	21.0	24.0	23.0	20.0
14	17.0	10.0	4.0	3.0	5.0	9.0	---	14.0	21.0	24.0	22.0	20.0
15	17.0	8.0	4.0	3.0	5.0	9.0	---	---	18.0	24.0	22.0	---
16	16.0	8.0	4.0	3.0	5.0	9.0	16.0	16.0	18.0	24.0	22.0	20.0
17	15.0	8.0	4.0	3.0	5.0	9.0	16.0	16.0	19.0	24.0	22.0	20.0
18	12.0	8.0	3.0	3.0	6.0	9.0	16.0	16.0	20.0	24.0	---	20.0
19	11.0	5.0	3.0	3.0	7.0	9.0	16.0	16.0	20.0	24.0	23.0	20.0
20	10.0	5.0	3.0	3.0	7.0	9.0	16.0	16.0	21.0	24.0	23.0	20.0
21	9.5	5.0	3.0	3.0	7.0	10.0	16.0	16.0	22.0	---	23.0	20.0
22	10.0	5.0	3.0	3.0	7.0	10.0	15.0	16.0	22.0	24.0	23.0	20.0
23	10.0	5.0	3.0	3.0	7.0	10.0	15.0	17.0	22.0	24.0	23.0	20.0
24	9.0	5.0	3.0	3.0	7.0	10.0	15.0	18.0	22.0	24.0	23.0	19.0
25	9.0	5.0	3.0	3.0	7.0	10.0	15.0	18.0	22.0	24.0	23.0	19.0
26	9.0	5.0	3.0	3.0	7.0	10.0	15.0	20.0	23.0	24.0	23.0	19.0
27	9.0	5.0	3.0	3.0	7.0	10.0	15.0	20.0	23.0	24.0	24.0	19.0
28	9.0	5.0	3.0	3.0	7.0	10.0	15.0	21.0	23.0	24.0	24.0	19.0
29	8.0	5.0	4.0	---	---	10.0	17.0	21.0	23.0	24.0	25.0	---
30	8.0	5.0	4.0	3.0	---	10.0	18.0	21.0	23.0	24.0	25.0	18.0
31	8.0	---	4.0	3.0	---	---	---	21.0	---	24.0	25.0	---
MEAN	14.5	7.5	4.0	3.0	5.5	8.5	14.5	17.0	21.0	24.0	23.5	20.5

09180500 COLORADO RIVER NEAR CISCO UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	87	705	179	2140	12	140	14	148	9	76	17	134
2	186	1510	142	1650	10	112	10	107	9	74	18	142
3	113	937	148	1750	12	137	12	129	9	72	19	151
4	69	561	141	1550	14	160	16	173	6	45	18	144
5	54	414	160	1840	13	148	18	196	7	53	17	135
6	55	422	161	1980	22	254	17	186	11	87	17	135
7	44	327	133	1640	47	557	16	174	11	87	36	274
8	43	325	154	1970	36	434	13	135	11	87	28	203
9	59	486	164	2090	16	189	13	132	12	95	19	136
10	58	498	162	2060	17	195	11	110	11	88	19	136
11	41	315	164	2080	13	138	14	141	13	105	21	149
12	42	340	151	1890	14	144	11	110	12	84	23	163
13	40	329	142	1790	13	135	10	100	12	87	25	177
14	88	808	172	2210	12	128	9	88	13	103	22	154
15	1850	18700	230	3010	17	183	8	77	14	114	19	128
16	3650	40200	165	2160	17	184	10	96	14	114	22	151
17	1550	16600	47	566	17	190	10	99	13	106	16	103
18	600	6900	23	265	20	226	13	134	15	122	19	123
19	540	6040	22	248	19	212	15	157	14	113	37	242
20	520	5810	20	224	16	181	11	112	17	135	46	294
21	480	5550	20	227	16	180	9	89	17	135	49	314
22	341	3850	21	243	14	157	9	87	17	135	44	284
23	258	2840	19	218	14	156	10	96	16	124	39	250
24	214	2320	95	1120	14	159	12	114	13	99	37	227
25	188	2040	82	1010	16	182	9	87	14	107	36	215
26	255	2670	24	281	13	143	9	88	14	108	36	210
27	200	2160	16	185	14	158	10	98	15	117	49	280
28	183	2000	15	168	14	156	10	97	18	145	140	805
29	170	1870	12	135	14	155	10	100	---	---	240	1440
30	175	1870	13	147	18	199	10	92	---	---	260	1610
31	188	2230	---	---	22	241	9	78	---	---	280	1690
TOTAL	---	131627	---	36847	---	5933	---	3630	---	2817	---	10599

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	280	1760	545	7310	805	20300	2300	22000	390	2230	1200	8910
2	245	1460	605	9080	780	20500	1720	15400	430	2290	3930	30700
3	225	1230	545	8810	605	15200	800	6850	400	1980	2160	16500
4	205	930	1850	45200	650	17700	800	7950	400	1910	1020	7460
5	345	1770	2100	56700	740	20800	425	4210	290	1220	770	5530
6	345	1870	1170	24800	600	16500	500	4540	270	1040	3400	29700
7	280	1440	775	14000	475	13200	300	2400	280	1030	1360	11200
8	310	1540	550	8350	735	22000	300	2120	240	894	1830	15700
9	315	1530	465	6200	850	27100	325	2080	290	1060	1000	8590
10	290	1430	410	4990	805	25400	400	2400	380	1370	1060	9700
11	265	1260	395	4240	655	20500	700	4650	390	1670	1450	14100
12	355	1730	370	3560	515	15000	350	2660	530	2980	2110	21000
13	425	2330	340	2960	420	10900	2850	27100	330	2180	2890	31100
14	490	3160	325	2640	305	6760	4800	58100	2820	21200	4220	46700
15	495	3140	340	2690	215	4030	5850	66300	1120	8470	2820	20800
16	555	4050	320	2510	195	3060	4900	50900	1180	8860	1520	15100
17	450	4020	290	2390	190	2410	3000	31900	900	7000	1110	10500
18	420	4280	295	2560	200	2170	7200	95300	1060	8270	790	7020
19	440	4660	295	2670	200	2010	4650	60400	1480	11200	570	4850
20	430	4820	340	3040	215	2010	4750	52300	1100	7310	450	3560
21	515	6450	305	2780	180	1570	4950	45200	720	4340	410	3080
22	525	6080	315	3120	200	1850	4150	32600	530	2990	430	3190
23	380	3720	355	3710	165	1600	2700	18000	450	2410	380	2770
24	375	3390	305	3040	190	1790	1450	8810	390	2060	380	2790
25	390	3390	280	2620	175	1500	1300	8040	300	1600	710	5660
26	405	3790	275	2660	175	1370	800	4900	210	1110	470	3440
27	420	4590	285	2880	150	1110	880	5870	290	1500	1050	7480
28	450	5580	295	3340	170	1260	570	4360	260	1350	820	5670
29	545	6920	680	10800	250	2210	1300	10100	260	1320	600	4000
30	545	6770	1130	23800	1630	16300	1000	7070	270	1460	370	2400
31	---	---	890	20400	---	---	550	3490	870	5850	---	---
TOTAL	---	99090	---	293850	---	298110	---	668000	---	120154	---	367200

TOTAL LOAD FOR YEAR: 2037857 TONS.

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM
OCT							
21...	1430	4240	9.5	71	450	5150	56
NOV							
17...	1130	4230	3.0	88	42	480	--
DEC							
15...	1200	3650	1.0	60	28	276	--
JAN							
26...	1630	3520	2.0	95	6	57	--
FEB							
23...	1200	2990	4.5	88	9	73	--
MAR							
23...	1500	2410	8.5	96	145	944	--
APR							
27...	1030	3800	16.5	98	315	3230	--
MAY							
27...	1400	3840	20.5	97	176	1830	--
JUN							
22...	1400	3380	24.0	92	106	967	--
JUL							
27...	1430	2470	23.5	98	792	5280	--
27...	1600	2080	23.5	--	850	4770	66
AUG							
24...	1400	1910	23.0	100	291	1500	--
SEP							
24...	1330	2680	20.0	99	254	1840	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
OCT						
21...	63	88	97	98	99	100
NOV						
17...	--	--	--	--	--	--
DEC						
15...	--	--	--	--	--	--
JAN						
26...	--	--	--	--	--	--
FEB						
23...	--	--	--	--	--	--
MAR						
23...	--	--	--	--	--	--
APR						
27...	--	--	--	--	--	--
MAY						
27...	--	--	--	--	--	--
JUN						
22...	--	--	--	--	--	--
JUL						
27...	--	--	--	--	--	--
27...	80	95	100	--	--	--
AUG						
24...	--	--	--	--	--	--
SEP						
24...	--	--	--	--	--	--

09180920 ONION CREEK ABOVE ONION CREEK BRIDGE, NEAR MOAB, UTAH

LOCATION.--Lat 38°41'49", long 109°15'16", in SE¼SW¼ sec.22, T.24 S., R.24 E., Grand County, Hydrologic Unit 14030005, on right bank 7.3 mi (11.7 km) upstream from Highway 128, 18.0 mi (29.0 km) northeast of Moab.

DRAINAGE AREA.--2.9 mi^2 (7.5 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 17, 1979 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,120 ft (1,560 m) from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 180 ft^3/s (5.10 m^3/s) Sept. 6, 1981, gage height, 4.32 ft (1.317 m) from floodmarks; minimum, 0.49 ft^3/s (0.014 m^3/s) June 29, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 180 ft^3/s (5.10 m^3/s) Sept. 6, gage height, 4.32 ft (1.317 m) from floodmarks; minimum daily, 0.51 ft^3/s (0.014 m^3/s) Sept. 26, 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.5	1.5	1.6	1.7	1.8	1.6	1.4	1.3	.90	1.5	.94
2	1.2	1.5	1.5	1.6	1.6	1.9	1.8	1.5	1.3	.90	1.6	.94
3	1.2	1.5	1.5	1.6	1.7	1.8	1.8	1.6	1.3	.90	1.8	.94
4	1.2	1.5	1.6	1.6	1.7	1.6	1.7	1.6	1.2	.90	2.0	.94
5	1.2	1.5	1.6	1.6	1.7	1.6	1.5	1.4	1.1	.90	2.4	1.6
6	1.3	1.5	1.6	1.6	1.7	1.6	1.4	1.6	1.1	.90	2.4	2.0
7	1.3	1.5	1.6	1.6	1.7	1.6	1.0	1.4	1.0	.90	2.4	.83
8	1.4	1.5	1.6	1.6	1.7	1.6	1.2	1.2	1.0	.90	2.4	.83
9	1.4	1.5	1.5	1.6	1.7	1.6	1.2	1.2	1.2	.90	2.4	.83
10	1.4	1.5	1.5	1.6	1.8	1.6	1.2	1.3	1.2	.90	2.4	.83
11	1.4	1.5	1.5	1.6	1.7	1.6	1.1	1.4	1.1	.90	2.2	.94
12	1.5	1.5	1.5	1.6	1.7	1.9	1.2	1.5	1.0	.90	2.4	1.0
13	1.4	1.5	1.5	1.6	1.7	1.9	1.2	1.6	1.2	.90	6.6	.94
14	1.8	1.5	1.5	1.6	1.7	1.9	1.3	1.7	1.0	.90	3.8	.94
15	2.2	1.5	1.5	1.6	1.7	1.9	1.3	1.9	1.0	.90	2.7	1.0
16	1.6	1.5	1.5	1.6	1.8	1.9	1.3	1.9	1.1	1.4	1.0	.94
17	1.4	1.5	1.5	1.8	1.7	1.9	1.3	1.7	1.1	1.3	.94	.62
18	1.4	1.5	1.6	1.9	1.8	1.6	1.4	1.6	1.1	4.7	.94	.62
19	1.3	1.5	1.6	2.0	1.8	1.6	1.4	1.6	1.2	2.4	.94	.62
20	1.3	1.5	1.6	1.8	1.8	1.6	1.4	1.5	1.2	2.1	.94	.62
21	1.4	1.4	1.6	1.8	1.8	1.6	1.4	1.5	1.1	1.1	1.0	.62
22	1.4	1.4	1.6	1.8	1.8	1.6	1.3	1.7	1.0	1.0	.94	.62
23	1.4	1.4	1.6	1.8	1.8	1.6	1.4	1.6	1.0	.90	.94	.62
24	1.4	1.5	1.6	1.6	1.8	1.6	1.4	1.5	1.1	.90	.94	.72
25	1.4	1.4	1.6	1.6	1.8	1.6	1.4	1.4	2.7	.90	.94	.62
26	1.4	1.4	1.6	1.6	1.8	1.6	1.5	1.3	1.3	.90	.94	.51
27	1.4	1.4	1.6	1.6	1.8	1.9	1.6	1.3	1.0	.90	.94	.62
28	1.5	1.4	1.6	1.6	1.8	1.9	1.5	1.0	1.0	.90	.94	.51
29	1.5	1.4	1.6	1.8	---	2.0	1.5	1.0	1.0	.90	.94	.62
30	1.5	1.4	1.6	1.7	---	2.7	1.4	1.1	.90	.90	1.2	.62
31	1.5	---	1.6	1.7	---	1.7	---	1.3	---	.90	1.2	---
TOTAL	43.9	44.1	48.4	51.7	48.8	54.3	41.7	45.3	34.80	35.60	54.68	25.00
MEAN	1.42	1.47	1.56	1.67	1.74	1.75	1.39	1.46	1.16	1.15	1.76	.83
MAX	2.2	1.5	1.6	2.0	1.8	2.7	1.8	1.9	2.7	4.7	6.6	2.0
MIN	1.2	1.4	1.5	1.6	1.6	1.6	1.0	1.0	.90	.90	.94	.51
AC-FT	87	87	96	103	97	108	83	90	69	71	108	50

CAL YR 1980 TOTAL 453.50 MEAN 1.24 MAX 2.2 MIN .58 AC-FT 900
WTR YR 1981 TOTAL 528.28 MEAN 1.45 MAX 6.6 MIN .51 AC-FT 1050

09180920 ONION CREEK ABOVE ONION CREEK BRIDGE, NEAR MOAB, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT												
17...	1130	1.5	2190	8.2	11.0	11.5	--	490	270	--	120	46
NOV												
21...	1050	1.3	1060	8.3	--	7.0	3.5	460	240	--	110	44
MAR												
06...	1130	1.7	1020	8.2	4.5	7.5	--	450	--	--	110	42
APR												
08...	1300	1.2	1110	8.3	13.0	16.0	--	440	--	210	100	45
MAY												
08...	1100	1.3	1190	8.3	15.0	11.5	--	440	--	230	110	41
JUN												
26...	1100	1.0	1070	8.1	34.5	21.0	--	440	--	230	110	40
JUL												
30...	1100	.90	1050	8.0	28.5	19.5	--	430	--	230	109	39
SEP												
15...	1230	.99	1200	8.4	25.5	20.5	--	500	--	270	128	43

DATE	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)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT												
17...	77	25	1.5	6.1	220	300	92	.4	19	799	1.1	3.1
NOV												
21...	92	30	1.9	4.3	220	270	78	.4	17	756	1.0	2.6
MAR												
06...	71	25	1.5	5.0	230	260	77	.3	17	728	.99	3.4
APR												
08...	74	27	1.5	5.1	230	270	72	.3	18	729	.99	2.4
MAY												
08...	66	24	1.4	4.8	210	250	73	.3	17	695	.95	2.4
JUN												
26...	64	24	1.3	4.8	210	240	71	.2	19	683	.93	1.8
JUL												
30...	72	26	1.6	4.1	200	240	82	.2	19	695	.95	1.7
SEP												
15...	68	23	1.4	5.4	230	280	77	.2	20	765	1.0	2.0

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT			
17...	1.4	.030	--
NOV			
21...	1.7	.030	--
MAR			
06...	1.7	.160	3.7
APR			
08...	1.4	.030	3.8
MAY			
08...	1.5	.020	3.6
JUN			
26...	1.7	.020	3.6
JUL			
30...	2.1	.020	--
SEP			
15...	1.2	<.010	--

DATE	TIME	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT			
17...	1130	<10	50
NOV			
21...	1050	<10	30
MAR			
06...	1130	10	10
APR			
08...	1300	<10	20
MAY			
08...	1100	10	20
JUN			
26...	1100	40	20
JUL			
30...	1100	<10	120
SEP			
15...	1230	<10	220

09180970 ONION CREEK BELOW ONION CREEK BRIDGE, NEAR MOAB, UTAH

LOCATION.--Lat 38°42'23", long 109°18'52", in NE¼NE¼, sec.24, T.24 S., R.24 E., Grand County, Hydrologic Unit 14030005, on right bank 2.8 mi (4.5 km) upstream from Highway 128, 15.5 mi (24.9 km) northeast of Moab.

DRAINAGE AREA.--16.8 mi^2 (43.5 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 16, 1979 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,480 ft (1,366 m) from topographic map.

REMARKS.--Records poor. No upstream storage or diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 480 ft^3/s (13.6 m^3/s) Sept. 5, 1981, gage height, 4.05 ft (1.234 m); minimum, no flow for part of several days during 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 480 ft^3/s (13.6 m^3/s) Sept. 5, gage height, 4.05 ft (1.234 m) from floodmarks; minimum, 0.48 ft^3/s (0.014 m^3/s) Mar. 30.

REVISIONS.--The maximum discharge for the water year 1979 has been revised to 180 ft^3/s (5.10 m^3/s) Aug. 16, 1979, gage height, 3.00 ft (0.914 m) superseding figure published in the report for 1980.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.79	.96	1.3	1.4	1.4	2.0	1.3	1.3	1.0	.83	1.1	.85
2	.79	.96	1.3	1.3	1.4	2.0	1.6	1.3	1.1	.83	1.0	.85
3	.79	.96	1.3	1.3	1.4	1.3	1.6	1.3	1.1	.83	.90	.85
4	.79	.96	1.3	1.3	1.4	1.1	1.6	1.3	1.0	.83	1.1	.85
5	.79	.96	1.3	1.3	1.4	1.1	1.6	1.3	1.0	.83	1.6	1.5
6	.79	.96	1.3	1.4	1.4	1.2	1.6	1.3	.95	.80	1.4	2.0
7	.79	.96	1.5	1.4	1.4	1.3	1.6	1.3	.90	.80	1.7	.75
8	.79	.96	1.3	1.4	1.4	1.3	5.5	1.3	.95	.80	1.7	.75
9	.79	.96	1.3	1.4	1.5	1.3	1.3	1.3	.95	.80	1.7	.75
10	.79	.96	1.5	1.4	1.5	1.3	1.3	1.3	.90	.80	1.7	.75
11	.79	.96	1.2	1.5	1.4	1.3	1.3	1.3	.95	.80	2.6	.80
12	1.6	.96	1.2	1.6	1.4	1.5	1.3	1.3	.90	.80	6.0	.90
13	1.3	1.0	1.3	1.5	1.5	1.5	1.3	1.3	.95	.80	5.6	.80
14	1.5	.96	1.3	1.4	1.6	1.5	1.3	1.3	.90	.80	2.5	.80
15	1.8	.96	1.3	1.3	1.6	1.5	1.3	1.5	.89	.80	1.9	.90
16	1.5	.96	1.3	1.5	1.6	1.5	1.3	1.9	.88	1.3	1.9	.85
17	1.5	1.0	1.3	1.5	1.6	1.3	1.3	1.7	.90	1.2	1.9	.70
18	1.7	1.0	1.3	1.5	1.6	1.3	1.3	1.7	.90	5.1	1.9	.70
19	1.4	1.0	1.3	1.5	1.6	1.3	1.3	1.5	.85	2.3	1.9	.70
20	1.3	1.2	1.3	1.1	1.8	1.3	1.3	1.6	.87	2.0	1.9	.70
21	1.1	1.8	1.3	1.4	1.6	1.3	1.3	1.5	.88	1.0	1.9	.70
22	1.0	1.9	1.3	1.6	1.6	1.3	1.3	1.3	.88	.95	1.9	.70
23	1.0	2.9	1.3	1.5	1.6	1.3	1.3	1.2	.89	.95	1.9	.70
24	1.0	3.4	1.3	1.3	1.8	1.3	1.3	1.1	.90	.95	1.9	.70
25	.98	2.6	1.3	1.6	1.8	1.3	1.3	1.2	.83	.85	1.9	.80
26	.98	1.8	1.3	1.4	1.8	1.5	1.3	1.1	2.5	.85	1.9	.68
27	.98	1.9	1.3	1.4	1.8	1.5	1.3	1.0	1.1	.85	1.9	.68
28	.96	2.0	1.3	1.5	1.8	1.5	1.3	1.0	.85	.76	1.9	.68
29	.96	1.1	1.3	1.6	---	1.5	1.3	.95	.85	.76	1.2	.68
30	.96	1.1	1.3	1.5	---	3.1	1.3	.95	.85	.76	1.3	.68
31	.96	---	1.3	1.4	---	1.1	---	.97	---	.80	1.1	---
TOTAL	33.17	40.10	40.5	44.2	43.7	44.6	45.0	40.37	29.37	33.53	60.80	24.75
MEAN	1.07	1.34	1.31	1.43	1.56	1.44	1.50	1.30	.98	1.08	1.96	.83
MAX	1.8	3.4	1.5	1.6	1.8	3.1	5.5	1.9	2.5	5.1	6.0	2.0
MIN	.79	.96	1.2	1.1	1.4	1.1	1.3	.95	.83	.76	.90	.68
AC-FT	66	80	80	88	87	88	89	80	58	67	121	49

CAL YR 1980 TOTAL 841.66 MEAN 2.30 MAX 19 MIN .37 AC-FT 1670
WTR YR 1981 TOTAL 480.09 MEAN 1.32 MAX 6.0 MIN .68 AC-FT 952

09180970 ONION CREEK BELOW ONION CREEK BRIDGE, NEAR MOAB, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1980 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 to SEPTEMBER 1981

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 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)
OCT 17...	1315	1.5	3660	8.0	11.0	11.0	840	660	--	240	59	470
NOV 21...	1300	2.0	2930	7.9	--	1.0	790	610	--	220	58	430
MAR 06...	1400	1.2	3010	8.3	6.0	7.0	770	--	--	220	53	410
APR 09...	1300	1.1	2990	8.2	20.0	18.0	640	--	490	170	53	370
MAY 08...	1200	1.2	2920	8.3	16.0	14.5	770	--	620	210	60	370
JUN 26...	1300	.85	3180	8.1	36.5	--	720	--	570	200	53	410
JUL 30...	1200	.76	2800	8.0	30.0	28.5	680	--	550	190	51	370
SEP 15...	1100	.78	4400	8.0	25.5	20.0	1400	--	1300	450	69	500

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)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT 17...	54	7.0	14	--	680	720	.3	18	2310	3.1	9.4
NOV 21...	54	6.7	12	--	630	620	.3	17	2100	2.9	11.4
MAR 06...	53	6.4	12	160	660	610	.3	16	2080	2.8	6.9
APR 09...	55	6.4	11	150	570	480	.3	17	1770	2.4	5.1
MAY 08...	51	5.8	10	150	560	540	.3	17	1860	2.5	6.2
JUN 26...	55	6.7	12	150	600	630	.3	17	2020	2.8	4.6
JUL 30...	54	6.2	10	130	580	540	.4	18	1850	2.5	3.8
SEP 15...	43	5.8	15	130	1200	900	.2	18	3230	4.4	6.8

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT 17...	.89	.020	--
NOV 21...	1.3	.030	--
MAR 06...	1.3	.010	9.0
APR 09...	1.1	.040	8.2
MAY 08...	1.6	.020	7.5
JUN 26...	1.1	.020	9.0
JUL 30...	1.9	.080	--
SEP 15...	.77	<.010	--

DATE	TIME	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR 06...	1400	30	10
APR 09...	1300	60	10
MAY 08...	1200	50	10
JUN 26...	1300	40	10
JUL 30...	1200	10	20
SEP 15...	1100	40	160

09183000 COURTHOUSE WASH NEAR MOAB, UTAH

LOCATION.--Lat 38°36'46", long 109°34'45", in NE¼SE¼ sec.22, T.25 S., R.21 E., Grand County, Hydrologic Unit 14030005, on left bank 0.6 mi (1.0 km) upstream from bridge on U.S. Highway 160, 0.8 mi (1.3 km) upstream from mouth and 3.0 mi (4.8 km) northwest of Moab.

DRAINAGE AREA.--162 mi^2 (420 km^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 (8 km) 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 (1,213 m) from river-profile map.

REMARKS.--Records good except those of no gage-height record, Nov. 17 to Mar. 2 and Sept. 6-11, which are poor. No regulation or diversions above station.

AVERAGE DISCHARGE.--21 years (1949-55, 1967-81), 1.81 ft^3/s (0.051 m^3/s), 1,310 acre-ft/yr (1.62 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,300 ft^3/s (348 m^3/s) Aug. 5, 1957, gage height, 9.38 ft (2.859 m), from rating curve extended above 500 ft^3/s (14.2 m^3/s) on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 9,500 ft^3/s (269 m^3/s) Sept. 6, gage height, 8.04 ft (2.451 m), from floodmarks, base discharge 700 ft^3/s (19.8 m^3/s); minimum, no flow at times.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	.25	.16	.12	1.2	.67	1.1	.17	.27	.12	.71	.11
2	.12	.25	.16	.12	.65	2.7	1.1	.15	.19	.11	.08	.09
3	.12	.26	.16	.13	.18	1.4	7.6	.16	.81	.08	.07	.09
4	.12	.26	.16	.13	.18	.77	1.1	.22	.15	.07	.06	.09
5	.12	.29	.16	.13	.17	.68	.82	.13	.12	.07	.06	195
6	.13	.31	.16	.12	.17	1.0	1.0	.12	.12	.06	.05	100
7	.12	.33	.16	.11	.17	4.4	.94	.14	.11	.06	.06	6.0
8	.12	.34	.15	.10	.18	1.2	25	.14	.10	.06	.06	10
9	.12	.29	.11	.10	.50	.67	1.5	.14	.09	.07	.08	3.4
10	.12	.31	.09	.10	.25	.65	.84	.14	.09	.07	.08	1.1
11	.12	.32	.09	.11	.30	12	.61	.14	.08	.07	.39	.80
12	.62	1.4	.12	.12	.34	6.6	.58	.14	.08	.08	.12	.45
13	1.1	1.0	.14	.10	.34	1.4	.68	.14	.08	.10	.10	.25
14	1.5	.37	.13	.09	.35	1.4	.70	.14	.09	.08	.10	.19
15	36	.30	.13	.12	.35	1.1	49	.15	.10	.06	6.0	.15
16	17	.23	.14	.12	.40	1.1	7.2	.17	.10	.31	6.5	.15
17	.96	.16	.14	.11	.45	.90	1.2	.46	.09	.10	.11	.14
18	.31	.14	.14	.12	.50	.76	2.7	.16	.09	.10	.09	.14
19	.21	.15	.13	.12	.54	.90	5.4	.15	.09	.08	.09	.15
20	.18	.16	.13	.11	.52	.90	1.1	.16	.08	.06	.08	.14
21	.18	.17	.13	.12	.60	.76	.64	.17	.07	.06	.09	.14
22	.18	.18	.13	.11	.64	.76	.54	.16	.07	.06	.10	.13
23	.15	.18	.14	.11	.68	.76	.54	.16	.07	.05	.09	.13
24	.15	1.9	.13	.12	.66	.76	.52	.16	.06	.06	.09	.12
25	.16	.80	.13	.10	.61	.76	.42	.17	.07	.06	.08	.12
26	.20	.24	.12	.08	.60	.76	.27	.16	.06	.06	.08	.12
27	.25	.17	.13	.10	.65	.76	.20	.15	.08	.06	.08	.12
28	.18	.16	.13	.11	.70	2.4	.20	.16	.46	.07	.22	.11
29	.16	.16	.13	13	---	1.2	.20	.16	.11	.07	.10	.12
30	.19	.17	.12	7.5	---	3.8	.18	.15	.08	.06	1.5	.12
31	.23	---	.13	2.0	---	1.9	---	.17	---	.06	.60	---
TOTAL	61.25	11.25	4.18	25.63	12.88	55.82	113.88	5.09	4.06	2.48	17.92	319.67
MEAN	1.98	.38	.13	.83	.46	1.80	3.80	.16	.14	.080	.58	10.7
MAX	36	1.9	.16	13	1.2	12	49	.46	.81	.31	6.5	195
MIN	.12	.14	.09	.08	.17	.65	.18	.12	.06	.05	.05	.09
AC-FT	121	22	8.3	51	26	111	226	10	8.1	4.9	36	634

CAL YR 1980 TOTAL 548.38 MEAN 1.50 MAX 82 MIN .01 AC-FT 1090
WTR YR 1981 TOTAL 634.11 MEAN 1.74 MAX 195 MIN .05 AC-FT 1260

09183210 COLORADO RIVER ABOVE MILL CREEK, NEAR MOAB, UT

WATER-QUALITY RECORDS

LOCATION: Lat 38°34'31", long 109°34'41", in SW1/4NW1/4 sec.2, T.25 S., R.21 E., Grand County, Hydrologic Unit 14030005, 1.3 mi (2.1 km) west of Moab, and 0.2 mi (0.3 dm) upstream from mouth of Mill Creek.

PERIOD OF RECORD.--February 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)
OCT 23...	1030	4140	1300	7.9	8.0	9.5	8.5	69	440	--	--
NOV 20...	1530	4220	1240	8.3	5.0	2.5	12.4	--	340	190	--
DEC 18...	1400	4280	1140	8.3	8.0	2.0	12.3	7	330	190	--
JAN 29...	1400	3590	1170	8.2	7.0	3.0	12.4	<1	340	200	--
FEB 26...	1500	2820	1270	8.1	9.0	6.5	11.5	<1	340	200	--
MAR 26...	1400	2180	1570	8.1	22.0	12.5	9.5	17	380	--	230
APR 30...	1330	4820	930	7.9	30.0	19.5	7.5	49	280	--	150
MAY 28...	1000	3760	1340	8.2	23.0	19.0	8.2	24	420	--	280
JUN 25...	1500	3550	1120	8.1	39.5	27.0	7.2	32	350	--	250
JUL 30...	1330	2820	1700	7.9	37.0	24.0	7.6	260	590	--	430
AUG 27...	1430	1960	1770	7.9	36.0	26.0	7.9	K900	600	--	460
SEP 22...	1400	2750	1450	8.1	28.5	20.0	7.3	K100	500	--	350

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 FIELD (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)
OCT 23...	110	39	120	37	2.5	5.5	--	--	390	130	174
NOV 20...	85	32	120	43	2.8	5.7	150	--	280	130	33
DEC 18...	83	30	120	44	2.9	5.3	--	140	270	150	18
JAN 29...	84	31	140	47	3.3	4.5	--	--	270	150	16
FEB 26...	84	32	140	47	3.3	4.9	--	140	300	170	75
MAR 26...	94	36	180	50	4.0	6.1	--	150	310	230	74
APR 30...	73	23	86	40	2.2	3.9	--	130	220	93	356
MAY 28...	110	35	130	40	2.8	5.5	--	140	330	140	91
JUN 25...	89	30	110	41	2.6	3.8	--	100	330	120	43
JUL 30...	158	47	160	37	3.1	7.0	--	160	560	160	560
AUG 27...	152	53	160	37	3.1	6.0	--	140	570	150	74
SEP 22...	132	42	130	36	2.7	5.3	--	150	440	130	300

K Results based on colony count outside the acceptable range (non-ideal colony count).

09183210 COLORADO RIVER ABOVE MILL CREEK, NEAR MOAB, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)
OCT							
23...	.100	--	.12	--	1.1	1.20	2.1
NOV							
20...	.000	--	.00	--	.62	.62	1.3
DEC							
18...	.070	--	.08	--	.90	.97	1.7
JAN							
29...	.510	--	.17	--	.00	.34	1.3
FEB							
26...	.080	--	--	--	1.6	1.70	2.3
MAR							
26...	.060	--	--	--	1.0	1.10	1.7
APR							
30...	.100	--	--	--	1.3	1.40	2.0
MAY							
28...	.060	--	--	--	1.2	1.30	2.0
JUN							
25...	.090	--	--	--	.82	.91	1.2
JUL							
30...	.150	.160	--	.21	2.2	2.30	4.0
AUG							
27...	.130	--	--	--	.78	.91	2.3
SEP							
22...	.070	--	--	--	1.0	1.10	2.1

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (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)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT						
23...	.85	--	9.1	.190	.58	--
NOV						
20...	.69	--	5.8	.020	.06	--
DEC						
18...	.69	--	7.3	.050	.15	--
JAN						
29...	.98	--	5.8	.040	.12	3.4
FEB						
26...	.63	--	10	.160	.49	3.7
MAR						
26...	.62	--	7.6	.090	.28	4.6
APR						
30...	.62	--	8.9	.370	1.1	2.9
MAY						
28...	.65	--	8.6	.150	.46	4.1
JUN						
25...	.33	.00	5.5	.050	.15	2.8
JUL						
30...	1.7	2.1	18	.810	2.5	--
AUG						
27...	1.4	--	10	.070	.21	--
SEP						
22...	.95	--	9.1	.230	.71	--

09183210 COLORADO RIVER ABOVE MILL CREEK, NEAR MOAB, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)
NOV 20...	1530	--	0	0	10
DEC 18...	1400	--	0	0	20
JAN 29...	1400	--	100	0	10
FEB 26...	1500	--	0	0	20
MAR 26...	1400	--	0	0	30
APR 30...	1330	.0	0	0	50
MAY 28...	1000	--	0	0	20
JUN 25...	1500	--	0	0	10
JUL 30...	1330	--	100	0	110
AUG 27...	1430	--	0	1	30
SEP 22...	1400	--	0	0	40

DATE	TIME	CYANIDE TOTAL (MG/L AS CN)
NOV 20...	1530	.00
DEC 18...	1400	.00
JAN 29...	1400	.00
FEB 26...	1500	.00
MAR 26...	1400	.00
APR 30...	1330	.00
MAY 28...	1000	.00
JUN 25...	1500	.00
JUL 30...	1330	.00
AUG 27...	1430	.00
SEP 22...	1400	<.01

09184000 MILL CREEK NEAR MOAB, UTAH

LOCATION.--Lat 38°33'44", long 109°30'48", in NW¼NE¼ sec.8, T.26 S., R.22 E., Grand County, Hydrologic Unit 14030005, on right bank 0.5 mi (0.8 km) downstream from North Fork, 1.5 mi (2.4 km) southeast of Moab, and 3.5 mi (5.6 km) upstream from mouth.

DRAINAGE AREA.--74.9 mi^2 (194.0 km^2).

WATER-DISCHARGE RECORDS

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 (1,290 m) 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 (0.6 km) upstream at various datums.

REMARKS.--Records good. Diversion into Sheley Tunnel, for storage in R. E. McDougald Reservoir began in March, 1981. Diversion approximately 6.0 mi (9.6 km) above station. Records do not include approximately 2,410 acre-ft (2.97 hm^3) diverted during the 1981 water year.

AVERAGE DISCHARGE.--30 years (1950-71, 1973-80), 14.3 ft^3/s (0.405 m^3/s), 10,360 acre-ft/yr (12.8 hm^3/yr), prior to diversion to Sheley Tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded discharge, about 5,110 ft^3/s (145 m^3/s) Aug. 21, 1953, gage height, 10.74 ft (3.274 m) from floodmark, site and datum then in use from rating curve extended above 700 ft^3/s (19.8 m^3/s) on basis of slope-area measurements at gage heights 8.24 ft (2.512 m), 8.62 ft (2.626 m), 9.81 ft (2.990 m), and 11.1 ft (3.38 m); maximum gage height, 11.6 ft (3.54 m) Aug. 26, 1961, site and datum then in use; minimum recorded, 0.2 $ft^3.s$ (0.006 m^3/s) Feb. 15, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 250 ft^3/s (7.08 m^3/s), and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Aug. 31	unknown	498	14.1	3.44	1.048
Sept. 6	0030	*685	19.4	3.80	1.158

Minimum, 3.5 ft^3/s (0.099 m^3/s) Feb. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	12	12	11	9.8	3.9	5.3	8.0	8.9	11	10	9.4
2	5.5	11	12	11	9.3	5.7	5.3	8.0	5.3	7.3	9.8	8.9
3	5.3	11	12	11	11	4.4	7.6	8.0	18	9.5	9.3	9.0
4	5.3	10	12	11	9.3	6.1	5.0	8.0	5.7	9.2	9.3	8.8
5	6.1	11	12	11	6.8	5.4	5.0	7.6	9.7	9.2	9.3	34
6	5.8	11	12	9.4	6.8	5.4	5.0	6.4	8.5	9.0	9.2	60
7	4.9	11	12	9.3	10	5.4	5.0	6.4	5.3	7.5	9.2	9.8
8	5.2	9.9	11	9.3	10	5.1	7.2	5.8	8.7	7.5	9.3	15
9	5.2	11	9.9	9.3	12	4.9	5.0	5.7	9.4	8.1	11	9.2
10	5.1	11	8.2	9.7	10	4.8	4.7	6.2	11	7.1	9.8	8.0
11	5.7	10	8.7	10	8.8	4.8	4.7	6.1	15	6.9	13	8.0
12	9.4	11	11	12	11	4.7	4.7	7.5	14	8.1	17	8.7
13	12	13	12	10	11	4.7	4.7	8.4	12	9.5	8.0	8.0
14	14	12	11	9.0	11	5.0	6.0	8.3	12	7.8	8.7	8.4
15	30	9.6	11	11	11	4.9	11	7.5	12	12	9.2	8.8
16	17	8.3	12	11	11	4.6	12	10	11	13	10	8.8
17	13	8.1	12	11	7.6	4.3	13	9.2	6.7	13	9.5	8.8
18	12	7.5	12	11	9.8	4.7	18	8.4	7.0	7.6	9.3	8.4
19	12	8.5	11	10	6.4	4.8	11	7.7	8.7	6.7	9.3	8.4
20	11	9.4	11	11	5.3	4.8	8.4	10	8.8	7.2	9.0	8.4
21	11	10	11	10	4.7	4.7	7.6	11	9.1	9.3	9.4	8.4
22	11	12	11	10	4.7	4.5	7.6	8.8	9.1	10	9.8	8.0
23	11	12	12	10	4.7	4.4	7.2	8.5	8.8	10	9.4	8.4
24	10	16	11	11	4.7	4.3	6.8	8.4	8.4	10	9.4	8.4
25	11	11	11	10	4.3	4.4	6.0	8.1	7.9	10	9.0	8.4
26	12	12	11	8.4	4.1	4.2	5.7	7.9	7.6	9.3	9.0	8.4
27	13	12	11	10	4.1	4.3	6.0	7.0	8.3	9.8	9.1	8.0
28	12	12	11	11	3.9	4.8	8.8	7.6	7.9	9.8	13	8.4
29	11	12	11	16	---	4.4	8.0	9.8	7.6	8.8	12	8.4
30	11	13	11	6.4	---	8.6	8.0	8.2	7.8	8.8	12	8.4
31	12	---	11	6.4	---	4.5	---	11	---	9.8	42	---
TOTAL	314.7	328.3	346.8	317.2	223.1	151.5	220.3	249.5	280.2	282.8	343.3	340.0
MEAN	10.2	10.9	11.2	10.2	7.97	4.89	7.34	8.05	9.34	9.12	11.1	11.3
MAX	30	16	12	16	12	8.6	18	11	18	13	42	60
MIN	4.9	7.5	8.2	6.4	3.9	3.9	4.7	5.7	5.3	6.7	8.0	8.0
AC-FT	624	651	688	629	443	301	437	495	556	561	681	674

CAL YR 1980 TOTAL 7752.4 MEAN 21.2 MAX 107 MIN 4.7 AC-FT 15380
WTR YR 1981 TOTAL 3397.7 MEAN 9.31 MAX 60 MIN 3.9 AC-FT 6740

09217000 GREEN RIVER NEAR GREEN RIVER, WY

LOCATION.--Lat 41°30'59", long 109°26'54", in NW¼NE¼NE¼ sec.26, T.18 N., R.107 W., Sweetwater County, Hydrologic Unit 14040106, on right bank 0.1 mi (0.2 km) downstream from Bitter Creek, 1.0 mi (1.6 km) southeast of town of Green River, and 4.0 mi (6.4 km) upstream from high-water line of Flaming Gorge Reservoir.

DRAINAGE AREA.--About 14,000 mi^2 (36,300 km^2), of which 4,260 mi^2 (11,030 km^2), including 3,959 mi^2 (10,254 km^2) in Great Divide Basin in southern Wyoming, is probably noncontributing.

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Altitude of gage is 6,060 ft (1,847 m) 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 (092 km^2) above station.

AVERAGE DISCHARGE.--30 years, 1,687 ft^3/s (47.8 m^3/s), 1,222,000 acre-ft/yr (1,507 hm^3/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft^3/s (476 m^3/s) Sept. 7, 1965, gage height, 8.53 ft (2.600 m), caused by emergency release from Fontenelle Reservoir; minimum daily discharge, 170 ft^3/s (4.81 m^3/s) Nov. 16, 1955.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed, 22,200 ft^3/s (629 m^3/s) June 19, 1918, at site 1.5 mi (2.4 km) upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,760 ft^3/s (49.8 m^3/s) July 27, gage height, 2.82 ft (0.860 m); maximum gage height, 5.48 ft (1.670 m) Jan. 11 (backwater from ice); minimum daily, 386 ft^3/s (10.9 m^3/s) Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	773	796	1170	1240	700	750	678	1070	916	1590	1570	1680
2	742	791	1170	1250	680	754	686	1080	926	1610	1590	1680
3	720	794	1150	1250	650	754	1030	1140	926	1640	1600	1660
4	739	800	1150	1370	670	728	1330	1120	926	1600	1590	1660
5	732	808	1170	1370	700	711	1330	1130	907	1630	1600	1590
6	736	804	1170	1300	740	711	1330	1160	954	1600	1600	1470
7	740	795	1150	1250	750	703	1330	1150	1120	1600	1630	1260
8	756	812	1100	1200	770	694	1310	1130	1110	1590	1630	1090
9	754	801	1050	1200	750	694	1310	1070	1100	1590	1630	870
10	754	812	1000	1250	720	703	1310	907	1200	1590	1650	677
11	753	808	1050	1300	690	686	1330	935	1480	1590	1650	414
12	758	810	1130	1200	730	661	1330	907	1700	1600	1640	386
13	765	810	1230	1000	750	652	1300	916	1700	1580	1650	450
14	808	810	1250	920	770	661	1300	843	1680	1560	1650	644
15	850	942	1250	920	800	652	1330	644	1650	1560	1650	644
16	913	1180	1300	920	830	661	1310	644	1640	1560	1650	653
17	850	1170	1220	910	820	669	1190	728	1640	1570	1650	653
18	842	1170	1200	910	770	669	1100	754	1610	1580	1680	653
19	827	1150	1200	900	750	661	1120	686	1630	1590	1650	653
20	811	1140	1200	910	730	669	1110	661	1630	1580	1660	653
21	795	766	1200	950	700	694	1100	737	1610	1580	1640	661
22	784	494	1190	1000	670	686	1100	789	1590	1570	1650	653
23	787	709	1220	970	700	678	1090	703	1590	1580	1650	636
24	796	1190	1200	930	730	686	1100	677	1580	1600	1650	628
25	791	1190	1220	900	740	678	1090	694	1580	1630	1660	628
26	792	1190	1230	830	750	678	1080	763	1590	1690	1650	636
27	810	1200	1220	770	720	703	1060	789	1580	1680	1660	644
28	814	1190	1240	710	730	694	1060	703	1600	1610	1660	644
29	812	1160	1240	700	---	694	1070	772	1580	1570	1650	604
30	809	1170	1240	720	---	737	1070	926	1590	1580	1650	628
31	795	---	1240	730	---	694	---	944	---	1570	1660	---
TOTAL	24408	28262	36750	31780	20510	21465	34884	27172	42335	49470	50800	25802
MEAN	787	942	1185	1025	733	692	1163	877	1411	1596	1639	860
MAX	913	1200	1300	1370	830	754	1330	1160	1700	1690	1680	1680
MIN	720	494	1000	700	650	652	678	644	907	1560	1570	386
AC-FT	48410	56060	72890	63040	40680	42580	69190	53900	83970	98120	100800	51180

CAL YR 1980 TOTAL 684906 MEAN 1871 MAX 7200 MIN 494 AC-FT 1359000
WTR YR 1981 TOTAL 393638 MEAN 1078 MAX 1700 MIN 386 AC-FT 780800

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Wyoming, 1981."

09217900 BLACKS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 40°57'53", long 110°34'38", in NW¼SW¼ sec.27, T.3 N., R.12 E., Summit County, UT, Hydrologic Unit 14140107, on left bank 1 mi (2 km) downstream from East Fork, 2.5 mi (4.0 km) south of Utah-Wyoming State Line, and 17 mi (27 km) south of Robertson.

DRAINAGE AREA.--130 mi2 (337 km^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 (2,683.70 m), 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 (26 m) upstream at different datum.

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

AVERAGE DISCHARGE.--16 years (water years 1938, 1967-81), 155 ft^3/s (4.390 m^3/s), 112,300 acre-ft/yr (138 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,420 ft^3/s (68.5 m^3/s) June 9, 1981; maximum gage height, 4.91 ft (1.500 m) June 6, 1968; minimum daily discharge, 5.5 ft^3/s (0.16 m^3/s) Jan. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 1,000 ft^3/s (28.3 m^3/s), 2,420 ft^3/s (68.5 m^3/s) June 9, gage height, 3.87 ft (1.180 m); minimum daily, 12 ft^3/s (0.34 m^3/s) Feb. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	46	39	24	18	22	26	495	1000	307	74	45
2	36	45	37	23	17	22	28	600	974	297	71	43
3	36	39	39	22	17	24	25	545	911	265	67	45
4	34	39	37	22	16	23	23	395	895	235	67	42
5	33	37	36	21	15	22	21	365	1070	213	60	67
6	33	41	35	20	14	21	19	323	1300	207	57	84
7	33	41	33	19	15	22	21	263	1550	203	55	76
8	33	43	31	18	16	20	23	231	1660	183	54	74
9	32	37	29	17	14	20	22	220	1840	186	54	60
10	32	38	27	18	13	22	22	225	1570	227	65	64
11	31	38	28	19	12	19	25	245	1480	206	67	62
12	32	38	29	20	13	21	30	198	1410	196	62	57
13	43	36	30	20	14	21	37	192	1110	180	74	54
14	48	34	32	19	15	21	45	243	883	161	82	52
15	45	32	34	18	16	20	57	277	728	152	65	51
16	43	30	36	17	17	21	64	240	615	144	60	49
17	40	26	37	18	19	22	70	214	588	147	55	48
18	37	27	35	19	22	23	82	230	544	138	54	46
19	40	28	32	20	24	23	90	293	558	130	55	46
20	45	29	29	19	24	23	94	308	619	115	59	45
21	45	30	27	20	22	23	87	260	642	106	59	46
22	43	31	28	20	21	24	84	234	592	101	69	45
23	38	32	28	19	22	24	104	242	558	99	55	43
24	49	34	29	17	24	25	140	268	516	99	54	48
25	52	36	30	17	25	27	188	329	476	104	54	49
26	45	35	29	16	25	27	262	452	452	104	55	49
27	38	34	28	17	24	30	264	551	442	101	52	45
28	41	36	27	18	21	28	254	613	407	88	51	41
29	42	38	25	19	---	30	308	724	362	84	49	39
30	45	40	25	19	---	27	396	841	331	80	48	38
31	46	---	24	18	---	25	---	988	---	78	48	---
TOTAL	1227	1070	965	593	515	722	2911	11604	26083	4936	1851	1553
MEAN	39.6	35.7	31.1	19.1	18.4	23.3	97.0	374	869	159	59.7	51.8
MAX	52	46	39	24	25	30	396	988	1840	307	82	84
MIN	31	26	24	16	12	19	19	192	331	78	48	38
AC-FT	2430	2120	1910	1180	1020	1430	5770	23020	51740	9790	3670	3080

CAL YR 1980 TOTAL 55317 MEAN 151 MAX 1210 MIN 15 AC-FT 109700
WTR YR 1981 TOTAL 54030 MEAN 148 MAX 1840 MIN 12 AC-FT 107200

09218500 BLACKS FORK NEAR MILLBURNE, WY

LOCATION.--Lat 41°01'54", long 110°34'43", in NW¼NE¼SW¼ sec.11, T.12 N., R.117 W., Uinta County, Hydrologic Unit 14040107, on left bank 0.4 mi (0.6 km) downstream from Meeks Cabin Dam, 2.7 mi (4.3 km) north of Utah-Wyoming State line, and 17 mi (27.4 km) southwest of Millburne.

DRAINAGE AREA.--152 mi^2 (394 km^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 (2,594.540 m), NGVD of 1929, Bureau of Reclamation datum. Prior to Oct. 1, 1971, at several sites about 2.0 mi (3.2 km) downstream at various datums.

REMARKS.--Records good. Flow completely regulated by Meeks Cabin Reservoir, capacity, 32,470 acre-ft (40.0 hm^3), since June 1971. No diversion above station.

AVERAGE DISCHARGE.--42 years, 158 ft^3/s (4.475 m^3/s), 114,500 acre-ft/yr (141 hm^3/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,530 ft^3/s (71.6 m^3/s) June 7, 1957, from rating curve extended above 1,500 ft^3/s (42.5 m^3/s); maximum gage height, 6.46 ft (1.969 m) in gage well, 6.76 ft (2.060 m) from floodmarks, June 12, 1965, site and datum then in use; minimum daily discharge, 3.7 ft^3/s (0.10 m^3/s) Nov.12, 1970, due to regulation by Meeks Cabin Dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,850 ft^3/s (52.4 m^3/s) June 9, gage height, 4.88 ft (1.487 m); minimum daily, 7.0 ft^3/s (0.20 m^3/s) Apr. 21, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	38	12	7.8	8.6	9.4	9.8	8.0	683	530	191	115
2	83	38	12	7.8	8.6	9.8	9.8	8.4	755	530	188	128
3	83	20	12	7.8	8.6	9.8	9.8	8.6	806	530	188	128
4	83	9.4	12	7.8	8.6	9.8	9.8	8.6	804	536	148	129
5	83	9.4	12	7.8	8.6	9.8	9.8	13	812	534	123	128
6	83	9.4	12	7.8	8.6	9.8	9.8	24	958	530	124	128
7	55	9.8	12	7.8	8.6	9.8	9.8	24	1340	507	122	126
8	37	9.8	12	7.8	8.6	9.8	9.8	24	1480	489	120	108
9	37	9.8	12	7.8	9.0	9.8	9.8	49	1670	487	120	83
10	37	9.8	12	7.8	9.0	9.6	10	56	1500	426	120	25
11	37	9.8	12	7.8	9.0	9.4	10	56	1390	374	135	19
12	37	10	12	7.8	9.0	9.4	10	57	1310	372	163	81
13	37	10	12	7.8	9.0	9.4	10	57	1100	371	162	81
14	37	10	12	7.8	9.0	9.4	10	59	910	402	160	81
15	37	10	10	7.8	9.0	9.4	10	124	834	417	159	76
16	37	11	8.2	7.8	9.0	9.4	10	183	829	415	160	70
17	37	11	7.8	7.8	9.0	9.4	9.9	184	822	413	160	70
18	37	11	7.8	7.8	9.0	9.4	9.8	187	817	410	122	70
19	37	11	7.8	7.8	9.0	9.4	9.8	187	815	408	98	70
20	37	11	7.8	7.8	9.4	9.4	8.3	197	810	404	97	70
21	37	11	7.8	7.8	9.4	9.4	7.0	200	804	289	98	70
22	37	12	7.8	7.8	9.4	9.4	7.0	202	799	272	98	80
23	37	12	7.8	7.8	9.4	9.4	7.2	202	562	271	98	89
24	37	12	7.8	8.0	9.4	9.4	7.5	206	389	267	98	89
25	37	12	7.4	8.2	9.4	9.4	7.8	205	390	267	98	89
26	37	12	7.4	8.2	9.4	9.4	7.5	554	392	264	97	89
27	37	12	7.4	8.2	9.4	9.4	7.4	671	391	263	97	89
28	37	12	7.4	8.2	9.4	9.4	7.4	671	391	220	97	89
29	37	12	7.4	8.2	---	9.4	7.5	670	390	194	96	74
30	37	12	7.6	8.6	---	9.8	7.8	679	469	194	96	63
31	38	---	7.8	8.6	---	9.8	---	680	---	187	94	---
TOTAL	1442	387.2	301.0	245.6	252.4	295.6	270.1	6454.6	25422	11773	3927	2607
MEAN	46.5	12.9	9.71	7.92	9.01	9.54	9.00	208	847	380	127	86.9
MAX	83	38	12	8.6	9.4	9.8	10	680	1670	536	191	129
MIN	37	9.4	7.4	7.8	8.6	9.4	7.0	8.0	389	187	94	19
AC-FT	2860	768	597	487	501	586	536	12800	50420	23350	7790	5170

CAL YR 1980 TOTAL 55558.2 MEAN 152 MAX 920 MIN 7.4 AC-FT 110200
WTR YR 1981 TOTAL 53377.5 MEAN 146 MAX 1670 MIN 7.0 AC-FT 105900

09220000 EAST FORK OF SMITHS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 41°03'15", long 110°23'52", in NE¼NW¼NE¼ sec.5, T.12 N., R.115 W., Uinta County, Hydrologic Unit 14040107, Wasatch National Forest, on left bank 60 ft (18 m) downstream from bridge, 1.0 mi (1.6 km) upstream from Gilbert Creek, 6.1 mi (9.8 km) downstream from State Line Reservoir, and 9.0 mi (14.5 km) south of Robertson.

DRAINAGE AREA.--53.0 mi^2 (137.3 km^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 (2,582 m) from topographic map. Prior to July 12, 1957, at datum 3.96 ft (1.207 m) higher.

REMARKS,--Records fair. Flow completely regulated by State Line Reservoir, 6.1 mi (9.8 km) upstream, total capacity, 14,000 acre-ft (17.3 hm^3), dead storage is about 2,000 acre-ft (2.5 hm^3), 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. 2 . . . 6.6

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

AVERAGE DISCHARGE.--32 years (water years 1940-71), 47.1 ft^3/s (1.334 m^3/s), 34,120 acre-ft/yr (42.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,450 ft^3/s (41.1 m^3/s) June 10, 1965, gage height, 6.75 ft (2.057 m); no flow part of each day Apr. 17-22, 24, 25, 1950; minimum gage height, 3.26 ft (0.994 m), present datum, Apr. 22, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 806 ft^3/s (22.8 m^3/s) June 9, gage height, 6.12 ft (1.865 m); minimum daily during period of operation, 5.6 ft^3/s (0.16 m^3/s) Apr. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							6.7	21	273	97	32	26
2							6.5	22	195	97	32	26
3							6.0	24	302	102	34	26
4							5.6	22	284	108	35	26
5							8.5	22	306	108	35	28
6							11	21	375	108	35	26
7							11	21	533	108	44	26
8							10	21	620	108	59	26
9							9.4	19	661	108	59	26
10							9.0	16	504	157	60	29
11							8.4	16	435	206	64	27
12							9.1	12	405	206	65	27
13							11	12	333	202	62	27
14							10	12	242	202	56	26
15							9.4	12	183	202	49	27
16							8.7	13	141	198	54	27
17							8.0	14	122	195	54	26
18							7.3	14	106	192	54	26
19							7.1	14	100	189	52	26
20							6.7	14	110	189	52	26
21							6.0	13	130	153	52	26
22							8.4	13	125	110	52	26
23							11	13	115	112	52	25
24							16	13	110	93	44	26
25							31	13	106	66	33	26
26							30	13	97	66	33	26
27							22	39	97	66	32	24
28							9.8	84	97	65	32	21
29							7.3	110	97	65	32	24
30							11	135	97	65	32	31
31							---	179	---	52	29	---
TOTAL							321.9	967	7301	3995	1410	785
MEAN							10.7	31.2	243	129	45.5	26.2
MAX							31	179	661	206	65	31
MIN							5.6	12	97	52	29	21
AC-FT							638	1920	14480	7920	2800	1560

09220500 WEST FORK OF SMITHS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 41°01'20", long 110°28'43", in SE¼NE¼NW¼ sec.15, T.12 N., R.116 W., Uinta County, Hydrologic Unit 14040107, Wasatch National Forest, on left bank 0.8 mi (1.3 km) downstream from Archie Creek and 11.6 mi (18.7 km) southwest of Robertson.

DRAINAGE AREA.--37.2 mi^2 (96.3 km^2).

PERIOD OF RECORD.--July 1939 to September 1981 (discontinued). No winter records since 1971. Monthly discharge only for some periods, published in WSP 1313. Prior to Oct. 1, 1978, published as West Fork of Smith Fork near Robertson.

REVISED RECORDS.--WSP 929: 1940. WSP 1343, 1733: 1943.

GAGE.--Water-stage recorder. Datum of gage is 8,615.0 ft (2,625.85 m), NGVD of 1929. July 13, 1939, to Aug. 16, 1949, at site 75 ft (23 m) upstream at datum 2.00 ft (0.610 m) higher; Aug. 17, 1949, to June 13, 1965, at present site at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records poor. No diversion above station. Results of discharge measurements, in cubic feet per second, made during period when station was not in operation, are given below:

Oct. 2 . . . 2.32

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

AVERAGE DISCHARGE.--32 years (water years 1940-71), 21.5 ft^3/s (0.609 m^3/s), 15,580 acre-ft/yr (19.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,100 ft^3/s (59.5 m^3/s), June 10, 1965, gage height, 5.20 ft (1.585 m), in gage well, 5.60 ft (1.707 m), from floodmarks, present datum; minimum observed, 0.2 ft^3/s (0.006 m^3/s) Aug. 13, 1940, Feb. 25, 1942 (discharge measurement).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 280 ft^3/s (7.93 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 14	0915	--	--	a*3.71	1.131
May 2	1800	314	8.89	2.72	0.829
May 31	1900	*480	13.6	3.11	.948

(a) Backwater from ice.

Minimum daily, 0.45 ft^3/s (0.013 m^3/s) Aug. 30, Sept. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							2.4	132	200	13	2.2	.45
2							2.6	188	148	14	2.1	.45
3							2.8	145	120	14	2.0	.75
4							2.5	91	112	12	2.0	.95
5							2.6	88	126	9.8	1.9	1.5
6							3.2	83	148	8.7	1.7	3.4
7							3.6	56	142	8.7	1.9	2.7
8							3.1	41	132	8.1	1.9	2.6
9							3.3	41	120	7.9	1.4	2.4
10							4.0	44	86	14	3.0	2.4
11							4.7	56	74	12	3.1	2.5
12							6.0	39	64	10	2.6	1.8
13							7.4	35	50	9.1	2.8	1.7
14							9.0	67	40	7.3	3.0	1.3
15							11	96	35	6.2	3.0	1.1
16							15	67	38	5.5	2.4	1.1
17							20	48	27	5.7	1.9	1.0
18							30	65	23	6.7	1.7	1.0
19							40	97	20	5.9	1.4	1.0
20							50	106	23	4.6	1.3	.95
21							40	77	23	3.7	1.0	1.0
22							35	58	21	3.4	1.1	1.0
23							33	70	20	3.0	.80	1.0
24							36	106	19	3.2	.65	.95
25							44	145	18	4.4	.65	1.0
26							50	175	17	4.8	.80	1.0
27							47	180	17	4.8	.80	1.0
28							45	173	16	3.7	.65	1.0
29							59	193	14	3.0	.52	1.0
30							95	226	13	2.6	.45	.95
31							---	266	---	2.4	.48	---
TOTAL							707.2	3254	1906	222.2	51.20	40.95
MEAN							23.6	105	63.5	7.17	1.65	1.37
MAX							95	266	200	14	3.1	3.4
MIN							2.4	35	13	2.4	.45	.45
AC-FT							1400	6450	3780	441	102	81

09228500 BURNT FORK NEAR BURNTFORK, WY

LOCATION.--Lat 40°56'47", long 110°03'56", in NE¼SE¼SE¼ sec.36, T.3 N., R.16 E., Summit County, UT, Hydrologic Unit 14040106, Wasatch National Forest, on left bank 0.6 mi (1.0 km) upstream from forest boundary and 6.5 mi (10.5 km) southwest of Burntfork.

DRAINAGE AREA.--52.8 mi^2 (136.8 km^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 (2,569 m), from topographic map. Prior to June 10, 1965, water-stage recorder at site 0.5 mi (0.8 km) downstream at different datum. June 10 to Oct. 5, 1965, water-stage recorder at site 400 ft (122 m) downstream at different datum.

REMARKS.--Records fair. Flow is partially regulated by Island Lake, capacity, 797 acre-ft (0.983 hm^3), and Beaver Meadows Reservoir, capacity, 1,722 acre-ft (2.12 hm^3). Diversion out of basin above station into Hoop Lake, capacity, 3,920 acre-ft (4.83 hm^3).

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

AVERAGE DISCHARGE.--28 years (water years 1944-71), 31.1 ft^3/s (0.881 m^3/s), 22,530 acre-ft/yr (27.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,200 ft^3/s (90.6 m^3/s), June 10, 1965 (gage height, not determined), from slope-area measurement of peak flow; minimum daily, 0.65 ft^3/s (0.018 m^3/s) Mar. 31, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 209 ft^3/s (5.92 m^3/s) June 9, gage height, 2.83 ft (0.863 m); minimum daily during period of operation, 2.1 ft^3/s (0.059 m^3/s) Apr. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							2.1	28	132	77	15	12
2							2.3	38	132	80	14	12
3							2.6	33	124	84	13	13
4							2.5	22	110	75	13	12
5							2.4	21	119	69	11	20
6							2.6	20	155	66	11	21
7							2.8	16	179	63	11	20
8							2.6	15	182	57	11	20
9							2.8	13	185	59	11	18
10							3.0	13	173	60	11	18
11							3.3	13	158	56	12	17
12							3.5	13	149	57	12	16
13							3.7	12	130	56	15	15
14							3.9	14	110	51	16	14
15							4.1	18	99	45	14	14
16							4.4	20	106	33	13	14
17							4.8	18	130	30	15	14
18							5.2	19	108	30	14	13
19							5.6	29	99	27	15	13
20							5.2	33	99	24	14	13
21							5.5	26	95	22	14	13
22							6.0	23	112	21	17	12
23							7.8	24	112	19	14	12
24							11	27	106	21	13	12
25							16	39	97	20	13	12
26							18	56	95	24	13	12
27							18	89	95	21	12	11
28							16	110	91	18	12	11
29							21	110	84	16	13	10
30							26	122	80	16	13	10
31							---	127	---	16	13	---
TOTAL							214.7	1161	3646	1313	408	424
MEAN							7.16	37.5	122	42.4	13.2	14.1
MAX							26	127	185	84	17	21
MIN							2.1	12	80	16	11	10
AC-FT							426	2300	7230	2600	809	841

09229500 HENRYS FORK NEAR MANILA, UTAH

LOCATION.--Lat 41°00'45", long 109°40'20", in NW¼NW¼ sec.23, T.12 N., R.109 W., Sweetwater County, WY, Hydrologic Unit 14040106, on right bank 0.8 mi (1.3 km) north of Wyoming-Utah State line, 1.3 mi (2.1 km) upstream from normal high-water line of Flaming Gorge Reservoir at elevation 6,045 ft (1,843 m), and 3.0 mi (4.8 km) northeast of Manila.

DRAINAGE AREA.--520 mi^2 (1,350 km^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 (1,847 m) from topographic map. Prior to Oct. 1, 1957, nonrecording gages or water-stage recorder at several sites about 2.0 mi (3.2 km) downstream at various datums. Oct. 1, 1957, to Dec. 2, 1965, water-stage recorders at sites about 1.0 mi (1.6 km) upstream at different datums.

REMARKS.--Records good except those for winter period, which are poor. Peoples Irrigation Canal diverts 5.9 mi (9.5 km) upstream. Natural flow of stream affected by transbasin diversions, small storage reservoirs, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--53 years, 80.4 ft^3/s (2.277 m^3/s), 58,250 acre-ft/yr (71.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge determined, 6,750 ft^3/s (191 m^3/s) Aug. 3, 1936, gage height, 7.19 ft (2.192 m), site and datum then in use, from floodmarks, from rating curve extended above 570 ft^3/s (16.1 m^3/s) on basis of slope-area measurement of peak flow; higher discharge occurred July 15, 1959, gage height, 9.42 ft (2.871 m), 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, 678 ft^3/s (19.2 m^3/s) June 9, gage height, 4.45 ft (1.356 m); minimum daily, 1.5 ft^3/s (0.042 m^3/s) Sept. 4, 7-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	57	70	57	52	46	50	11	253	12	4.1	1.7
2	5.2	54	68	57	48	46	62	32	277	16	4.1	1.7
3	5.1	53	73	55	46	48	69	100	291	34	3.9	1.7
4	6.3	52	68	53	44	46	52	99	273	32	3.5	1.5
5	6.7	53	60	50	41	42	39	61	214	23	3.2	2.2
6	6.7	55	58	47	39	50	60	53	237	15	3.0	3.9
7	7.1	53	53	44	37	51	66	46	371	11	3.0	1.5
8	7.1	53	47	42	35	47	59	30	523	9.1	2.9	1.5
9	7.7	56	42	42	32	46	49	34	518	7.9	2.8	1.5
10	6.9	57	41	43	30	51	59	23	528	8.7	2.9	1.5
11	9.6	57	43	46	28	44	64	17	379	9.1	2.9	1.5
12	10	56	48	44	30	47	61	9.5	337	12	2.9	1.5
13	11	54	55	43	35	42	56	6.6	271	13	35	1.5
14	16	50	60	42	45	39	53	6.1	216	14	5.6	1.5
15	38	46	70	41	60	40	53	5.9	181	11	3.2	1.5
16	58	42	80	42	70	42	65	9.3	141	9.1	2.7	1.5
17	56	43	87	44	76	38	58	23	100	6.8	2.2	7.6
18	54	45	83	47	73	36	57	25	64	7.6	2.2	8.9
19	55	48	65	49	70	41	57	14	54	8.1	2.3	9.4
20	56	52	62	53	66	40	56	11	46	7.0	2.1	8.4
21	55	56	57	55	64	36	53	12	38	6.3	2.8	11
22	53	58	60	55	62	34	52	15	36	6.1	1.8	12
23	50	60	64	53	66	36	50	11	25	4.8	1.8	12
24	45	61	66	51	70	38	48	7.7	16	5.2	1.7	11
25	44	60	64	49	70	38	51	6.4	14	6.2	1.8	3.6
26	46	62	62	47	54	38	50	45	16	7.1	1.7	11
27	50	65	60	45	53	44	40	34	15	7.2	1.7	11
28	52	68	57	48	44	48	22	78	44	6.1	1.7	12
29	51	71	51	50	---	43	23	114	39	4.8	1.7	15
30	57	77	52	54	---	56	9.6	153	17	4.5	1.7	16
31	59	---	57	54	---	45	---	220	---	4.4	1.7	---
TOTAL	989.8	1674	1883	1502	1440	1338	1543.6	1312.5	5534	329.1	114.6	176.6
MEAN	31.9	55.8	60.7	48.5	51.4	43.2	51.5	42.3	184	10.6	3.70	5.89
MAX	59	77	87	57	76	56	69	220	528	34	35	16
MIN	5.1	42	41	41	28	34	9.6	5.9	14	4.4	1.7	1.5
AC-FT	1960	3320	3730	2980	2860	2650	3060	2600	10980	653	227	350

CAL YR 1980 TOTAL 29860.3 MEAN 81.6 MAX 734 MIN 5.1 AC-FT 59230
WTR YR 1981 TOTAL 17837.2 MEAN 48.9 MAX 528 MIN 1.5 AC-FT 35380

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Wyoming, 1981."

09234400 FLAMING GORGE RESERVOIR AT FLAMING GORGE DAM, UTAH

LOCATION.--Lat 40°54'23", long 109°25'15", in NW¼NE¼ sec.15, T.2 N., R.22 E., Daggett County, Hydrologic Unit 14040106, at Flaming Gorge Dam on Green River, 1.8 mi (2.9 km) southwest of Dutch John, and 4.9 mi (7.9 km) northeast of Greendale.

DRAINAGE AREA.--19,350 mi^2 (50,100 km^2), of which about 4,260 mi^2 (11,000 km^2), including 3,959 mi^2 (10,254 km^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 (180 m) 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 (4,670 hm^3), consisting of the following: Dead storage, 39,700 acre-ft (49.0 hm^3) below elevation 5,740 ft (1,750 m); inactive usable storage, 233,500 acre-ft (288 hm^3) between elevations 5,740 ft (1,750 m) and 5,871 ft (1,789 m); active usable storage, 3,516,000 acre-ft (4,340 hm^3) between elevations 5,871 ft (1,789 m) and 6,040 ft (1,841 m) (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, 3,753,000 acre-ft (4,630 hm^3) July 31, 1975, elevation, 6,040.09 ft (1,841.019 m); minimum, 582,900 acre-ft (719 hm^3) Apr. 26, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 3,077,000 acre-ft (3,794 hm^3) Oct. 1, elevation, 6,022.80 ft (1,835.749 m); minimum observed, 2,917,000 acre-ft (3,597 hm^3) Sept. 30, elevation, 6,018.29 ft (1,834.375 m).

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

6,015	2,804,000	6,020	2,977,000	6,025	3,257,000	

RESERVOIR STORAGE, IN THOUSANDS OF ACRE FEET, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3077	3025	3001	3015	3007	2970	2945	2955	2972	3022	3017	3005
2	3076	3024	2999	3016	3004	2970	2946	2956	2973	3023	3017	3004
3	3073	3022	2998	3016	3002	2969	2946	2960	2975	3022	3018	3003
4	3070	3020	2998	3017	3000	2968	2947	2962	2975	3025	3017	3001
5	3070	3019	2998	3018	2998	2966	2948	2963	2976	3025	3016	3006
6	3068	3016	2999	3018	2996	2965	2947	2965	2976	3024	3017	3006
7	3066	3014	2998	3018	2992	2963	2945	2966	2978	3025	3015	3005
8	3062	3012	2998	3018	2990	2962	2943	2966	2980	3025	3020	3003
9	3058	3014	2997	3018	2988	2962	2940	2966	2981	3025	3018	3002
10	3053	3013	2996	3020	2987	2959	2938	2966	2984	3027	3015	2998
11	3052	3012	2995	3019	2985	2962	2940	2966	2986	3027	3014	2994
12	3050	3012	2996	3019	2984	2960	2940	2966	2992	3025	3015	2991
13	3050	3012	2996	3020	2981	2959	2942	2966	2996	3025	3015	2988
14	3050	3010	2998	3020	2980	2960	2943	2965	2997	3024	3016	2984
15	3052	3008	2998	3019	2978	2960	2944	2966	2997	3024	3016	2981
16	3052	3007	2998	3019	2977	2959	2945	2965	3000	3022	3016	2975
17	3051	3005	3000	3019	2976	2959	2947	2966	3004	3020	3015	2970
18	3050	3004	3001	3019	2976	2957	2946	2966	3005	3020	3015	2963
19	3050	3004	3002	3019	2974	2955	2948	2966	3007	3021	3015	2958
20	3050	3004	3002	3019	2975	2956	2948	2965	3009	3019	3013	2951
21	3049	3002	3003	3020	2974	2956	2949	2965	3011	3019	3013	2948
22	3048	3001	3004	3020	2974	2954	2950	2964	3012	3018	3012	2943
23	3045	3000	3005	3020	2971	2952	2950	2965	3013	3016	3014	2940
24	3041	3000	3005	3019	2971	2949	2951	2966	3014	3017	3013	2935
25	3040	2999	3009	3020	2971	2946	2951	2966	3016	3019	3014	2931
26	3040	2999	3009	3019	2971	2943	2952	2966	3016	3020	3013	2928
27	3038	2999	3009	3018	2970	2942	2953	2967	3016	3019	3012	2926
28	3034	3000	3012	3016	2969	2941	2953	2968	3020	3019	3012	2922
29	3031	2999	3012	3014	---	2940	2954	2969	3021	3019	3009	2920
30	3028	3004	3012	3012	---	2941	2955	2971	3021	3018	3006	2917
31	3025	---	3013	3009	---	2943	---	2972	---	3018	3007	---
MAX	3077	3025	3013	3020	3007	2970	2955	2972	3021	3027	3020	3006
MIN	3025	2999	2995	3009	2969	2940	2938	2955	2972	3016	3006	2917
(†)	6021.36	6020.76	6021.03	6020.92	6019.79	6019.05	6019.38	6019.87	6021.25	6021.15	6020.86	6018.29
(‡)	-53	-21	+9	-4	-40	-26	+12	+17	+49	-3	-11	-90

CAL YR 1980 . . . . . (‡) +617
WTR YR 1981 . . . . . (‡) -161

(†) ELEVATION, IN FEET, AT END OF MONTH
(‡) CHANGE IN CONTENTS, IN THOUSANDS OF ACRE-FEET

09234500 GREEN RIVER NEAR GREENDALE, UTAH

LOCATION.--Lat 40°54'30", long 109°25'20", in NW¼SE¼ sec.15, T.2 N., R.22 E., Daggett County, Hydrologic Unit 14040106, Ashley National Forrest on right bank 0.5 mi (0.8 km) downstream from Flaming Gorge Dam, 2 mi (3 km) south of Dutch John, 4 mi (6 km) northeast of Greendale, and 407.0 mi (654.9 km) from mouth.

DRAINAGE AREA.--19,350 mi^2 (50,100 km^2), approximately, of which about 4,260 mi^2 (11,000 km^2) is probably noncontributing. This noncontributing area includes 3,959 mi^2 (10,254 km^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 (1,705.30 m) NGVD of 1929. Prior to Sept. 2, 1959, water-stage recorder at site 2.2 mi (3.5 km) upstream at different datum.

REMARKS.--Water-discharge records good. Flow completely regulated by Flaming Gorge Reservoir 0.5 mi (0.8 km) upstream, beginning Nov. 1, 1962 (see station 09234400).

AVERAGE DISCHARGE.--31 years, 2,029 ft^3/s (57.5 m^3/s), 1,470,000 acre-ft/yr (1.81 km^3/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,600 ft^3/s (555 m^3/s) June 12, 1957; gage height, 10.60 ft (3.231 m) site and datum then in use; minimum, 2.3 ft^3/s (0.065 m^3/s) Mar. 20, 22, 27, 28, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,260 ft^3/s (121 m^3/s) Apr. 6; gage height, 6.05 ft (1.844 m); minimum daily, 869 ft^3/s (24.6 m^3/s) June 13, 14, Sept. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	890	933	1880	884	1160	1120	874	903	1410	1450	1780	2050
2	1200	884	1890	975	1880	917	991	1060	1150	1790	1330	2370
3	2270	1980	1480	887	1990	1890	1770	1150	1060	1410	1400	1980
4	2080	2090	1140	923	1460	1650	1190	1150	1620	1400	1660	1870
5	898	1800	1990	1130	2040	1730	1090	1170	1070	1410	1670	1120
6	1720	1930	1900	1260	2050	1680	2340	1230	932	1450	1290	1440
7	1730	2160	1020	1150	2060	1530	2360	1010	875	1480	1490	1110
8	1950	1240	952	1210	1560	1640	2500	1090	875	1480	1240	1660
9	3110	894	1870	1010	1460	1050	1810	1070	1600	1500	1370	1970
10	3340	1540	1720	883	1450	1090	2350	958	1110	1100	1370	2070
11	879	1480	1080	917	1710	992	1040	1060	1330	1880	1790	2510
12	878	1120	879	1150	1070	1440	893	1020	870	1870	1680	1860
13	877	1490	883	899	1900	997	1060	951	869	2410	1680	1470
14	1900	1870	883	884	2090	881	944	1660	869	1730	1030	2610
15	1060	1720	875	885	1510	883	980	1840	993	1710	1230	2820
16	1690	1780	918	883	1110	1050	881	904	909	1690	1560	3350
17	1230	2060	885	883	1370	899	1430	903	1570	2030	1640	3240
18	1180	1450	1110	884	886	1760	1550	901	1400	1740	1600	3400
19	916	1490	1090	882	1460	1590	897	1200	1110	987	1780	3550
20	1100	1400	1040	885	1430	1100	1000	983	957	2190	2040	3480
21	1100	1830	932	884	1050	1220	987	1060	886	2060	1730	3400
22	1090	1280	962	1030	879	914	894	1620	1110	1740	1480	2480
23	2580	1210	999	899	1620	1860	965	915	1040	1980	912	2250
24	2900	883	882	1390	1410	2300	1270	914	885	1730	1480	2830
25	1430	1390	881	926	1310	2500	1020	913	1010	876	1310	2530
26	1280	1920	881	1200	1120	2320	897	1180	1000	954	2020	1770
27	2260	980	881	1370	1930	2280	911	887	1090	1200	1750	869
28	2080	882	916	1750	910	1210	1020	886	887	1320	1850	2590
29	2800	882	884	1870	---	910	996	1010	1450	2150	2330	1860
30	2270	882	884	2090	---	1040	927	880	1210	1490	2210	2140
31	2730	---	883	2090	---	873	---	904	---	1770	2090	---
TOTAL	53418	43450	35470	34963	41875	43316	37837	33382	33147	49977	49792	68649
MEAN	1723	1448	1144	1128	1496	1397	1261	1077	1105	1612	1606	2288
MAX	3340	2160	1990	2090	2090	2500	2500	1840	1620	2410	2330	3550
MIN	877	882	875	882	879	873	874	880	869	876	912	869
AC-FT	106000	86180	70350	69350	83060	85920	75050	66210	65750	99130	98760	136200

CAL YR 1980 TOTAL 574071 MEAN 1569 MAX 3710 MIN 824 AC-FT 1139000
WTR YR 1981 TOTAL 525276 MEAN 1439 MAX 3550 MIN 869 AC-FT 1042000

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, monthly.

REMARKS.--Storage in Flaming Gorge Reservoir began on Nov. 1, 1962. 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.

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 daily, 810 micromhos Nov. 10; minimum daily, 670 micromhos Nov. 18.
WATER TEMPERATURES: Maximum, 15.0°C July 22, Aug. 25; minimum, 4.0°C several days during Feb. and Mar.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	NITRO-GEN DIS-SOLVED (MG/L AS N)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT										
16...	1430	2320	730	7.8	3.5	11.5	.40	6.6	.68	<1
NOV										
18...	1400	1390	670	8.0	6.5	8.5	.50	7.7	.61	<1
DEC										
18...	1530	1390	740	7.6	4.0	4.5	.20	7.5	.74	<1
JAN										
23...	1430	882	740	8.1	9.5	4.5	.20	8.4	.57	<1
FEB										
19...	1330	2650	730	7.8	13.5	4.0	1.0	5.4	.70	<1
MAR										
25...	1400	4120	790	7.8	12.5	4.5	1.8	9.3	.81	<1
APR										
30...	1300	902	760	8.3	21.5	9.0	1.3	10.1	.69	<1
JUN										
01...	1230	2410	760	8.2	23.5	10.0	1.7	10.3	.87	K5000
23...	1230	1400	740	7.9	24.0	13.5	.00	8.9	.87	K2
JUL										
22...	1200	2690	750	7.9	30.0	15.0	.90	8.5	.91	<1
AUG										
25...	1230	1250	760	7.9	31.0	15.0	.90	8.1	.92	<1
SEP										
22...	1200	3580	790	7.9	26.0	14.5	.50	7.4	.89	<1

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L 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										
16...	<1	240	100	--	59	23	59	34	1.7	2.8
NOV										
18...	<1	240	92	--	59	23	55	33	1.5	3.2
DEC										
18...	<1	260	120	--	64	25	58	32	1.6	2.6
JAN										
23...	<1	270	120	--	65	26	62	33	1.6	2.2
FEB										
19...	<1	270	120	--	67	26	59	32	1.6	2.5
MAR										
25...	K280	260	--	120	63	24	59	33	1.6	2.5
APR										
30...	K3	260	--	96	63	24	57	32	1.6	2.7
JUN										
01...	K3000	260	--	120	63	24	58	33	1.6	2.6
23...	<1	260	--	130	64	25	58	32	1.6	2.6
JUL										
22...	<1	250	--	110	59	25	59	34	1.6	2.4
AUG										
25...	<1	250	--	100	60	25	62	35	1.9	2.7
SEP										
22...	<1	260	--	120	63	26	62	34	1.8	2.2

K Results based on colony count outside the acceptable range (non-ideal colony count).

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 16...	--	210	16	.2	3.3	469	458	.64	2940
NOV 18...	150	190	18	.3	3.3	476	443	.65	1790
DEC 18...	140	210	15	.2	4.4	485	465	.66	1820
JAN 23...	150	230	16	.4	4.5	491	497	.67	1170
FEB 19...	150	230	14	.2	4.2	491	495	.67	3510
MAR 25...	140	240	13	.3	4.3	506	491	.69	5630
APR 30...	160	210	14	.2	3.7	491	472	.67	1200
JUN 01...	140	210	16	.2	3.0	482	462	.66	3140
23...	130	210	16	.2	2.7	468	457	.64	1770
JUL 22...	140	210	18	.2	2.4	475	461	.65	3450
AUG 25...	150	220	18	.2	2.7	478	481	.65	1610
SEP 22...	140	220	17	.3	2.6	485	478	.66	4690

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	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)
OCT 16...	.000	.000	.00	.00	.53	.54	.53	.00	.54
NOV 18...	.040	.040	.05	.05	1.3	.39	1.30	.87	.43
DEC 18...	.040	.030	.05	.04	.35	.35	.39	.01	.38
JAN 23...	.060	.050	--	.06	.64	.35	.70	.30	.40
FEB 19...	.000	.040	--	.05	.37	.34	.37	.00	.38
MAR 25...	.000	.040	--	.05	.51	.56	.51	.00	.60
APR 30...	.080	.100	--	.13	.41	.28	.49	.11	.38
JUN 01...	.120	.300	--	.39	.73	.44	.85	.11	.74
23...	.070	.040	--	.05	.83	.72	.90	.14	.76
JUL 22...	.110	.080	--	.10	1.1	.71	1.20	.41	.79
AUG 25...	.080	.090	--	.12	.65	.78	.73	.00	.87
SEP 22...	.130	.110	--	.14	1.3	.60	1.40	.69	.71

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO-GEN, 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, 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)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT 16...	.68	.15	.14	3.0	.030	.09	.020	--
NOV 18...	1.5	.18	.18	6.6	.020	.06	.000	--
DEC 18...	.79	.40	.36	3.5	.040	.12	.040	--
JAN 23...	.98	.28	.17	4.3	.040	.12	.020	1.6
FEB 19...	.69	.32	.32	3.1	.000	.00	.000	1.9
MAR 25...	.73	.22	.21	3.2	.020	.06	.010	1.9
APR 30...	.71	.22	.31	3.1	.020	.06	.010	2.0
JUN 01...	.96	.11	.13	4.3	.020	.06	.020	1.9
23...	1.0	.10	.11	4.4	.010	.03	.010	1.9
JUL 22...	1.3	.09	.12	5.7	.020	.06	<.010	1.8
AUG 25...	.81	.08	.05	3.6	.030	.09	.060	--
SEP 22...	1.6	.18	.18	7.0	<.010	--	.010	--

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)	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, SUS-PENDED RECOV. (UG/L AS CR)
NOV 18...	1400	3	1	2	100	20	80	0	<1	0	0
FEB 19...	1330	3	1	2	100	20	80	0	<1	10	10
JUN 01...	1230	3	1	2	100	30	70	1	<1	10	0
AUG 25...	1230	2	0	2	0	0	73	1	<1	10	0

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	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)
NOV 18...	0	0	<3	2	0	3	70	--	<10	2
FEB 19...	0	0	<3	4	1	3	40	--	<10	7
JUN 01...	10	0	<3	8	2	6	80	60	20	5
AUG 25...	10	0	<3	9	2	7	70	--	<10	7

DATE	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	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)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)
NOV 18...	0	2	10	--	<1	.0	.0	.0	4	1
FEB 19...	7	0	0	0	2	.2	.2	.0	2	0
JUN 01...	2	3	10	3	7	.3	.3	.0	1	0
AUG 25...	3	4	0	0	3	.1	.1	.0	2	0

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	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)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV 18...	3	1	0	1	0	0	0	10	4	6
FEB 19...	3	1	0	1	0	0	0	10	0	20
JUN 01...	3	1	0	1	0	0	0	30	0	30
AUG 25...	3	1	0	1	0	0	0	30	20	14

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
NOV 18...	1400	--	7.8	.3
DEC 18...	1530	11	--	--
JAN 23...	1430	9.6	--	--
FEB 19...	1330	--	5.3	.2
MAR 25...	1400	4.6	--	--
APR 30...	1300	5.4	--	--
JUN 01...	1230	--	6.6	--
23...	1230	5.7	--	--
JUL 22...	1200	4.2	--	--
AUG 25...	1230	--	4.4	<.1
SEP 22...	1200	5.0	--	--

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	NOV 18,80		MAR 25,81		JUN 1,81		JUN 23,81	
TIME	1400		1400		1230		1230	
TOTAL CELLS/ML	360		260		600		77	
DIVERSITY: DIVISION	0.4		0.9		1.0		1.0	
.CLASS	0.4		0.9		1.7		1.0	
..ORDER	0.4		1.4		2.1		1.5	
...FAMILY	0.4		1.4		2.5		1.8	
....GENUS	0.4		1.4		2.5		1.8	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...OOCYSTACEAE								
....GLOEOACTINIUM	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	--	-	--	-	150a	26	13a	17
....STEPHANODISCUS	--	-	39	15	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	70	12	--	-
....COCCONEIS	--	-	--	-	--	-	13a	17
...DIATOMACEAE								
....DIATOMA	--	-	--	-	28	5	--	-
...FRAGILARIACEAE								
....FRAGILARIA	--	-	170a	65	--	-	--	-
...NAVICULACEAE								
....NAVICULA	--	-	--	-	--	-	13a	17
...NITZSCHIACEAE								
....NITZSCHIA	--	-	--	-	--	-	--	-
.CHRYSOPHYCEAE								
..CHRYSOMONADALES								
...OCHROMONADACEAE								
....DINOBRYON	--	-	--	-	180a	30	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	13	4	39	15	110a	19	39a	50
...CRYPTOMONADACEAE								
....CRYPTOMONAS	13	4	--	-	28	5	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	28	5	--	-
....GOMPHOSPHAERIA	340a	93	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	13	5	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..PERIDINIALES								
...CERATIACEAE								
....CERATIUM	--	-	--	-	--	-	--	-

See footnote at end of table.

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	JUL 22,81		AUG 25,81		SEP 22,81	
TIME	1200		1230		1200	
TOTAL CELLS/ML	490		2000		6900	
DIVERSITY: DIVISION	1.6		0.3		0.1	
.CLASS	1.9		0.3		0.1	
..ORDER	2.2		0.3		0.1	
...FAMILY	2.4		0.3		0.1	
....GENUS	2.4		0.3		0.1	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...OOCYSTACEAE						
....GLOEOACTINIUM	--	-	--	-	6800 a	99
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	14	3	--	-	--	-
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	--	-	--	-	41	1
....STEPHANODISCUS	56	11	--	-	--	-
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	84 a	17	--	-	--	-
....COCCONEIS	--	-	--	-	--	-
...DIATOMACEAE						
....DIATOMA	--	-	--	-	--	-
...FRAGILARIACEAE						
....FRAGILARIA	--	-	--	-	--	-
...NAVICULACEAE						
....NAVICULA	--	-	130	6	41	1
...NITZSCHIACEAE						
....NITZSCHIA	14	3	--	-	--	-
.CHRYSOPHYCEAE						
..CHRYSOMONADALES						
...OCHROMONADACEAE						
....DINOBRYON	56	11	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
.CRYPTOPHYCEAE						
..CRYPTOMONADALES						
...CRYPTOCHRYSIDACEAE						
....CHROOMONAS	42	9	--	-	--	-
...CRYPTOMONADACEAE						
....CRYPTOMONAS	14	3	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	210 a	43	1900 a	94	--	-
....GOMPHOSPHAERIA	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....EUGLENA	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)						
.DINOPHYCEAE						
..PERIDINIALES						
...CERATIACEAE						
....CERATIUM	--	-	--	-	b	0

NOTE.--(a) Dominant organisn: Equal to or greater than 15 percent.
(b) Observed organism, may not have been counted: less than 1/2 percent.

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	760	---	720	---	---	---	750	740	750	760	---	740
2	760	---	720	760	750	750	760	---	770	770	---	740
3	760	720	740	---	750	760	760	---	770	---	750	740
4	---	720	740	---	750	760	---	---	740	---	740	750
5	---	710	730	760	750	760	---	---	770	---	770	---
6	760	720	---	770	760	750	760	770	---	770	760	---
7	750	720	---	760	---	---	760	---	---	770	770	---
8	760	---	730	760	---	---	760	770	770	730	---	740
9	700	---	720	760	750	750	760	---	770	770	---	760
10	700	810	720	---	750	760	760	---	770	760	---	760
11	---	---	750	---	750	760	---	---	770	---	770	---
12	---	760	740	760	750	---	---	770	740	---	770	---
13	---	720	---	770	750	760	760	750	---	760	770	---
14	750	720	---	760	---	---	760	770	---	750	760	760
15	760	---	750	770	---	---	760	770	770	750	---	740
16	750	---	750	760	---	---	760	---	770	760	---	740
17	750	720	---	---	750	760	760	---	770	770	740	750
18	---	670	760	---	750	750	---	770	730	---	760	740
19	---	760	740	760	750	750	---	770	730	---	750	---
20	740	760	---	770	750	750	760	770	---	740	750	---
21	750	740	---	770	---	---	760	770	---	760	750	750
22	750	---	750	770	---	---	760	770	750	760	---	750
23	700	---	740	770	750	760	760	---	730	730	---	750
24	700	---	740	---	750	760	760	---	770	760	760	750
25	---	---	---	---	750	750	---	---	730	---	770	750
26	---	740	---	760	750	760	---	750	730	---	750	---
27	700	---	---	770	750	760	---	770	---	750	750	---
28	710	740	---	760	---	---	760	770	---	760	750	750
29	710	---	740	760	---	---	740	770	730	730	---	770
30	710	---	750	770	---	750	740	---	730	740	---	760
31	700	---	760	---	---	750	---	---	---	750	770	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.0	---	7.5	---	---	---	4.5	7.5	9.0	10.0	---	12.0
2	13.0	---	7.5	5.0	4.5	4.0	4.5	---	10.0	10.0	---	12.0
3	12.0	10.0	7.5	---	4.5	4.0	5.0	---	9.0	---	12.0	13.5
4	---	10.0	7.5	---	4.5	4.0	---	---	10.0	---	12.0	12.0
5	---	10.0	7.0	5.0	4.5	4.0	---	---	10.0	---	12.0	---
6	12.0	10.0	---	5.0	4.5	4.0	4.5	7.0	---	10.0	12.0	---
7	12.0	10.0	---	5.0	---	---	4.5	---	---	10.0	13.0	---
8	12.0	---	6.5	5.0	---	---	4.5	8.0	10.0	10.0	---	13.5
9	12.0	---	6.0	5.0	4.0	4.0	4.5	---	10.0	10.0	---	13.5
10	12.0	10.0	6.0	---	4.5	4.0	5.0	---	10.0	10.0	---	13.5
11	---	---	6.0	---	4.5	4.0	---	---	10.0	---	12.0	---
12	---	10.0	6.0	5.0	4.0	---	---	9.0	10.0	---	12.0	---
13	---	10.0	---	5.0	4.0	4.0	5.0	9.0	---	10.0	12.0	---
14	12.0	9.5	---	5.0	---	---	4.5	9.0	---	10.0	12.0	12.0
15	12.0	---	6.0	5.0	---	---	4.5	9.0	10.0	10.0	---	13.5
16	12.0	---	6.0	5.0	---	---	4.5	---	10.0	10.0	---	13.5
17	12.0	9.0	---	---	4.0	4.0	4.5	---	10.0	10.0	12.0	13.5
18	---	8.5	5.0	---	4.0	4.0	---	9.0	10.0	---	12.0	14.0
19	---	8.5	5.0	4.5	4.0	4.0	---	8.0	10.0	---	12.0	---
20	12.0	8.5	---	4.5	4.0	4.5	4.5	8.0	---	10.0	12.0	---
21	12.0	8.5	---	4.5	---	---	6.0	8.0	---	10.0	12.0	13.5
22	12.0	---	5.0	4.5	---	---	6.0	9.0	10.0	15.0	---	13.5
23	12.0	---	5.0	4.5	4.0	4.5	6.5	---	10.0	12.0	---	12.0
24	12.0	---	5.0	---	4.0	4.5	6.5	---	10.0	13.0	12.0	13.5
25	---	---	---	---	4.0	4.5	---	---	10.0	---	15.0	13.5
26	---	8.0	---	4.5	4.0	4.5	---	9.0	10.0	---	12.0	---
27	12.0	---	---	4.5	4.0	4.5	---	9.0	---	13.0	12.0	---
28	11.0	8.0	---	4.5	---	---	7.0	9.0	---	12.0	12.0	12.5
29	11.0	---	5.0	4.5	---	---	7.0	10.0	10.0	12.0	---	13.0
30	11.0	---	5.0	4.5	---	4.5	7.5	---	10.0	12.0	---	13.0
31	11.0	---	5.0	---	---	4.5	---	---	---	12.0	12.0	---

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT						
16...	1430	2320	11.5	3	73	19
NOV						
18...	1400	1390	8.5	3	20	11
DEC						
18...	1530	1390	4.5	3	27	11
JAN						
23...	1430	882	4.5	1	75	2.4
FEB						
19...	1330	2650	4.0	4	47	29
MAR						
25...	1400	4120	4.5	9	17	100
APR						
30...	1300	902	9.0	6	56	15
JUN						
01...	1230	2410	10.0	23	82	150
23...	1230	1400	13.5	10	69	38
JUL						
22...	1200	2690	15.0	5	57	36
AUG						
25...	1230	1250	15.0	1	67	3.4
SEP						
22...	1200	3580	14.5	5	74	48

09235600 POT CREEK ABOVE DIVERSIONS, NEAR VERNAL, UTAH

LOCATION.--Lat 40°46'05", long 109°19'06", in NE¼ sec.3, T.1 S., R.23 E., Uintah County, Hydrologic Unit 14040106, on left bank 0.3 mi (0.5 km) upstream from Matt Warner Reservoir, and 27 mi (43 km) northeast of Vernal.

DRAINAGE AREA.--24.6 mi^2 (63.7 km^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 (2,301 m) from topographic map. Prior to Aug. 26, 1965, at site 0.2 mi (0.3 km) downstream at different datum. Prior to July 28, 1978 datum of gage 1.20 ft (0.366 m) higher at same site.

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

AVERAGE DISCHARGE.--24 years, 3.46 ft^3/s (0.098 m^3/s), 2,510 acre-ft/yr (3.09 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 286 ft^3/s (8.10 m^3/s) May 10, 1973, gage height, 3.55 ft (1.082 m); maximum gage height recorded, 4.57 ft (1.393 m) Apr. 11, 1969 (backwater from ice); no flow for part of each year.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 30 ft^3/s (0.85 m^3/s) and maximum, 111 ft^3/s (3.14 m^3/s) Apr. 11, gage height, 3.96 ft (1.207 m); no flow July 8 to Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.30	.28	.27	.26	.45	.95	5.0	6.5	.22	.00	.00
2	.04	.29	.28	.27	.26	.45	1.4	5.5	5.6	.52	.00	.00
3	.04	.29	.28	.27	.26	.45	2.1	11	5.6	.75	.00	.00
4	.05	.28	.28	.27	.26	.45	2.1	9.4	5.5	.65	.00	.00
5	.05	.30	.28	.27	.26	.45	2.0	7.1	4.4	.27	.00	.00
6	.05	.33	.28	.26	.26	.50	2.1	6.4	3.9	.11	.00	.00
7	.06	.31	.27	.25	.26	.50	2.2	6.1	3.8	.04	.00	.00
8	.06	.30	.27	.25	.26	.50	2.4	5.5	2.9	.00	.00	.00
9	.07	.28	.27	.25	.26	.50	3.0	5.0	2.2	.00	.00	.00
10	.06	.26	.27	.25	.23	.50	30	4.4	2.0	.00	.00	.00
11	.07	.25	.27	.25	.28	.57	59	4.4	1.5	.00	.00	.00
12	.08	.25	.27	.25	.32	.60	58	4.2	1.2	.00	.00	.00
13	.18	.24	.27	.25	.32	.60	39	3.9	1.1	.00	.00	.00
14	.31	.22	.27	.25	.32	.75	26	3.0	1.1	.00	.00	.00
15	.72	.22	.27	.25	.32	.92	26	2.6	1.1	.00	.00	.00
16	.70	.22	.27	.26	.32	1.1	18	3.0	.91	.00	.00	.00
17	.61	.23	.27	.27	.32	1.1	12	3.3	.70	.00	.00	.00
18	.59	.24	.27	.27	.32	1.1	9.2	3.4	.52	.00	.00	.00
19	.59	.25	.27	.27	.32	1.1	8.7	2.6	.48	.00	.00	.00
20	.50	.26	.26	.27	.28	1.0	7.1	2.0	.37	.00	.00	.00
21	.46	.27	.27	.27	.35	1.0	6.1	3.4	.33	.00	.00	.00
22	.42	.27	.28	.27	.40	1.0	5.7	8.4	.27	.00	.00	.00
23	.31	.27	.28	.27	.40	1.1	5.6	5.9	.22	.00	.00	.00
24	.26	.26	.28	.27	.40	1.2	5.5	4.5	.33	.00	.00	.00
25	.24	.25	.28	.26	.40	1.2	5.4	4.8	.18	.00	.00	.00
26	.25	.25	.28	.25	.40	1.1	5.3	7.8	.17	.00	.00	.00
27	.29	.25	.28	.24	.40	1.1	5.3	6.4	.15	.00	.00	.00
28	.27	.26	.28	.28	.40	1.1	5.3	8.7	.27	.00	.00	.00
29	.29	.27	.27	.29	---	.84	5.1	8.2	.40	.00	.00	.00
30	.30	.28	.25	.27	---	.71	5.0	7.2	.27	.00	.00	.00
31	.30	---	.27	.26	---	.66	---	7.7	---	.00	.00	---
TOTAL	8.26	7.95	8.47	8.13	8.84	24.60	365.55	170.8	53.97	2.56	.00	.00
MEAN	.27	.27	.27	.26	.32	.79	12.2	5.51	1.80	.083	.000	.000
MAX	.72	.33	.28	.29	.40	1.2	59	11	6.5	.75	.00	.00
MIN	.04	.22	.25	.24	.23	.45	.95	2.0	.15	.00	.00	.00
AC-FT	16	16	17	16	18	49	725	339	107	5.1	.00	.00

CAL YR 1980 TOTAL 2206.05 MEAN 6.03 MAX 111 MIN .00 AC-FT 4380
WTR YR 1981 TOTAL 659.13 MEAN 1.81 MAX 59 MIN .00 AC-FT 1310

09235800 POT CREEK NEAR VERNAL, UTAH

LOCATION.--Lat 40°40'25", long 109°03'03", in SW¼NE¼SE¼ sec.1, T.2 S., R.25 E., Daggett County, Hydrologic Unit 14040106, on left bank 0.2 mi (0.3 km) upstream from Utah-Colorado State line, 7 mi (11 km) upstream from mouth, and 29 mi (47 km) northeast of Vernal.

DRAINAGE AREA.--107 mi^2 (277 km^2).

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

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,900 ft (2,103 m) from topographic map.

REMARKS.--Records good except those for winter months, and no gage-height record, Jan. 1 to Mar. 20, which are fair. Flow regulated by Matt Warner and Crouse Reservoirs, 14 mi (23 km) and 7 mi (11 km) upstream, respectively, combined capacity, about 4,000 acre-ft (4.93 hm^3). Several diversions for irrigation above station, including one to Crouse Creek basin for irrigation of about 100 acres (405,000 m^2) in Browns Park.

AVERAGE DISCHARGE.--24 years, 1.84 ft^3/s (0.0521 m^3/s), 1,330 acre-ft/yr (1.64 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 286 ft^3/s (8.10 m^3/s) Apr. 7, 1962, gage height, 3.85 ft (1.173 m) from rating curve extended above 170 ft^3/s (4.81 m^3/s); maximum gage height, 3.99 ft (1.216 m) Mar. 15, 1966 (backwater from ice); no flow for part of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5.5 ft^3/s (0.16 m^3/s) July 5, gage height, 1.10 ft (0.335 m); no flow most of the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.04	.01	.04	.04	.04	.08	.00	.00	.00	.00	.00
2	.00	.04	.01	.04	.04	.04	.07	.01	.00	.00	.00	.00
3	.00	.04	.01	.04	.04	.04	.14	.23	.00	.00	.00	.00
4	.00	.02	.01	.04	.04	.04	.12	.12	.00	.00	.00	.00
5	.00	.02	.01	.04	.04	.04	.08	.04	.00	5.1	.00	.00
6	.00	.02	.01	.04	.04	.04	.07	.03	.00	2.1	.00	.00
7	.00	.03	.01	.04	.04	.04	.15	.02	.00	.22	.00	.00
8	.00	.01	.01	.04	.04	.04	.18	.01	.00	.00	.00	.00
9	.00	.01	.01	.04	.04	.04	.11	.00	.00	.00	.00	.00
10	.00	.01	.01	.04	.04	.04	.08	.00	.00	.00	.00	.00
11	.00	.01	.01	.04	.04	.04	.06	.05	.00	.00	.00	.00
12	.00	.04	.01	.04	.04	.04	.05	.05	.00	.00	.00	.00
13	.12	.09	.02	.04	.04	.04	.05	.02	.00	.00	.00	.00
14	.16	.06	.02	.04	.04	.04	.04	.01	.00	.00	.00	.00
15	.34	.04	.02	.04	.04	.04	.10	.01	.00	.00	.00	.00
16	.18	.03	.02	.04	.04	.04	.08	.15	.00	.00	.00	.00
17	.09	.02	.02	.04	.04	.05	.05	.06	.00	.00	.00	.00
18	.05	.03	.02	.04	.04	.06	.05	.04	.00	.00	.00	.00
19	.03	.01	.02	.04	.04	.08	.04	.04	.00	.00	.00	.00
20	.01	.01	.03	.04	.04	.10	.03	.04	.00	.00	.00	.00
21	.01	.01	.03	.04	.04	.12	.03	.12	.00	.00	.00	.00
22	.07	.01	.03	.04	.04	.11	.04	.10	.00	.00	.00	.00
23	3.7	.01	.03	.04	.04	.09	.02	.06	.00	.00	.00	.00
24	1.2	.01	.03	.04	.04	.09	.02	.04	.00	.00	.00	.00
25	.23	.01	.03	.04	.04	.08	.01	.04	.00	.00	.00	.00
26	.09	.01	.03	.04	.04	.08	.01	.06	.00	.00	.00	.00
27	.08	.01	.04	.04	.04	.17	.01	.11	.00	.00	.00	.00
28	.07	.01	.04	.04	.04	.22	.00	.11	.00	.00	.00	.00
29	.06	.01	.04	.04	---	.15	.00	.08	.00	.00	.00	.00
30	.04	.01	.04	.04	---	.12	.00	.02	.00	.00	.00	.00
31	.04	---	.04	.04	---	.10	---	.00	---	.00	.00	---
TOTAL	6.57	.68	.67	1.24	1.12	2.26	1.77	1.67	.00	7.42	.00	.00
MEAN	.21	.023	.022	.040	.040	.073	.059	.054	.000	.24	.000	.000
MAX	3.7	.09	.04	.04	.04	.22	.18	.23	.00	5.1	.00	.00
MIN	.00	.01	.01	.04	.04	.04	.00	.00	.00	.00	.00	.00
AC-FT	13	1.3	1.3	2.5	2.2	4.5	3.5	3.3	.00	15	.00	.00

CAL YR 1980 TOTAL 1703.38 MEAN 4.65 MAX 121 MIN .00 AC-FT 3380
WTR YR 1981 TOTAL 23.40 MEAN .064 MAX 5.1 MIN .00 AC-FT 46

09261000 GREEN RIVER NEAR JENSEN, UTAH

LOCATION.--Lat 40°24'34", long 109°14'05", in NE¼SW¼SE¼ sec.5, T.5 S., R.24 E., Uintah County, Hydrologic Unit 14060001, Dinosaur National Monument, on right bank 300 ft (91 m) upstream from highway bridge, 1 mi (2 km) downstream from Cub Creek and Chew Ranch, 4 mi (6 km) southeast of Dinosaur National Monument headquarters, 6.5 mi (10.5 km) northeast of Jensen, 12 mi (19 km) upstream from Brush Creek, and 313.9 mi (505.1 km) from mouth.

DRAINAGE AREA.--29,660 mi^2 (76,820 km^2), approximately, of which about 4,260 mi^2 (11,000 km^2) is probably noncontributing. This noncontributing area includes 3,959 mi^2 (10,254 km^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). WDR UT-73: 1972. WDR UT-76-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,758 ft (1,450 m) from river-profile map. Prior to Oct. 1, 1946, nonrecording gages at site 15 mi (24 km) downstream at different datums. Dec. 13, 1946 to Sept. 30, 1948, water-stage recorder at present site at datum 1.50 ft (0.457 m) higher.

REMARKS.--Records good. Transbasin diversions and diversions for irrigation above station. Flow regulated by Flaming Gorge Reservoir (see station 09234400) 93.1 mi (149.8 km) upstream beginning Nov. 1, 1962.

AVERAGE DISCHARGE.--36 years (1903-04, 1946-81), 4,307 ft^3/s (122.0 m^3/s), 3,120,000 acre-ft/yr (3.85 km^3/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,500 ft^3/s (1,030 m^3/s) June 16, 1957; gage height, 13.22 ft (4.029 m); minimum observed, 102 ft^3/s (2.89 m^3/s) Dec. 6, 1904.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,610 ft^3/s (272 m^3/s) June 10, gage height, 6.73 ft (2.051 m); minimum daily, 1,190 ft^3/s (33.7 m^3/s) Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2020	3050	1420	1330	2630	2280	1890	4320	8380	2580	2120	2050
2	1390	2480	1830	1330	1870	1670	1700	4360	8600	2700	2010	2320
3	1190	1500	2290	1350	1770	1790	1720	4800	8550	2590	2110	2310
4	1900	1910	2360	1430	2330	1900	2040	5380	8120	2730	1630	2350
5	2450	2470	1770	1380	2120	2550	2270	8070	8380	2510	1740	2160
6	1830	2560	2190	1480	1830	2270	1950	7490	8740	2820	1930	1900
7	1360	2430	2640	1700	2320	2390	2670	6150	7840	2870	1890	1560
8	2100	2410	2000	1610	2630	2240	3180	5460	7460	2720	1510	1540
9	1940	2280	1490	1380	1990	2160	3150	5150	8260	2310	1630	1530
10	2850	1820	1770	1510	1900	1940	2940	4560	8850	2310	1450	2020
11	4100	1700	2070	1330	1360	1770	3240	4140	8630	1950	1560	2040
12	1820	1880	1650	1220	2440	1640	2290	3810	7650	1940	1710	2640
13	1260	2040	1370	1230	1560	1770	1990	3530	6720	2350	1870	2240
14	1270	1710	1220	1500	2010	1840	2430	3600	5770	2720	1890	1740
15	1720	2390	1250	1260	2430	1520	2580	3610	5080	2660	1870	2390
16	2010	2270	1270	1220	2040	1500	2660	4100	4520	2360	1310	2910
17	1870	2290	1310	1250	1780	1560	2600	3830	4000	2440	1450	3550
18	2050	2370	1360	1260	1640	1640	2780	3480	3530	2490	2180	3420
19	1840	2100	1370	1250	1670	1700	3490	3610	3680	2670	1870	3560
20	1820	1720	1680	1260	1810	2490	3650	4140	3210	2070	1930	3700
21	1760	1790	1500	1270	1930	2070	3670	4060	2870	1960	1990	3650
22	1840	1940	1490	1270	1700	1830	4140	3790	2600	2700	2210	3680
23	1780	2010	1490	1260	1480	1750	3910	4380	2510	2430	1850	2690
24	2400	1760	1500	1380	1750	2160	3440	5770	2560	2410	1560	2470
25	3340	1690	1450	1360	2180	2600	3260	8600	2430	2360	1210	2780
26	2660	1330	1440	1640	1780	3050	3080	7600	2140	1890	1590	2780
27	1890	1940	1440	1340	2000	2990	3020	7070	2150	1330	1710	2290
28	2400	2070	1440	1540	1960	3010	3810	7430	2100	1410	2180	1620
29	2600	1310	1410	2190	---	2280	4440	8600	2000	1610	1870	1910
30	3230	1330	1380	2070	---	1890	4480	9160	1910	2240	1950	2140
31	2870	---	1340	2350	---	1880	---	8740	---	2320	2720	---
TOTAL	65560	60550	50190	44950	54910	64130	88470	168790	159240	72450	56500	73940
MEAN	2115	2018	1619	1450	1961	2069	2949	5445	5308	2337	1823	2465
MAX	4100	3050	2640	2350	2630	3050	4480	9160	8850	2870	2720	3700
MIN	1190	1310	1220	1220	1360	1500	1700	3480	1910	1330	1210	1530
AC-FT	130000	120100	99550	89160	108900	127200	175500	334800	315900	143700	112100	146700

CAL YR 1980 TOTAL 1555440 MEAN 4250 MAX 18000 MIN 1190 AC-FT 3085000
WTR YR 1981 TOTAL 959680 MEAN 2629 MAX 9160 MIN 1190 AC-FT 1904000

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 (13 km) 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.

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 1948-52, 1963-76): 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 (2,268,000 tonnes) Mar. 29, 1962; minimum daily, 10 tons (9.1 tonnes) on many days in 1962 and 1963.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 950 micromhos Aug. 31; minimum daily, 250 micromhos June 3.
WATER TEMPERATURES: Maximum, 26.0°C July 11, 18, Aug. 4; minimum, 0.0°C Feb. 3.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT												
22...	1400	1730	760	8.1	10.0	9.0	9.9	230	68	--	55	22
DEC												
02...	1100	1310	740	8.2	5.5	2.0	12.6	260	94	--	63	26
FEB												
20...	1100	1370	730	8.1	8.5	4.0	11.1	240	--	--	58	24
MAR												
27...	1000	2120	700	7.9	4.0	7.0	9.5	260	--	120	61	26
MAY												
06...	1045	7400	410	8.0	18.0	13.5	8.7	110	--	13	30	9.2
JUN												
03...	1030	8330	250	7.5	20.0	17.5	8.1	94	--	34	25	7.7
24...	1130	2460	500	7.9	31.0	22.5	8.3	180	--	76	44	16
JUL												
21...	1230	1570	710	7.8	33.5	22.0	7.4	240	--	110	61	22
AUG												
26...	1315	1320	760	7.9	35.5	21.5	9.6	--	--	--	--	--
SEP												
21...	1000	3470	770	7.9	15.5	16.0	8.6	260	--	120	61	25

DATE	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)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT												
22...	74	41	2.1	3.4	160	170	30	.4	13	465	.63	2170
DEC												
02...	64	34	1.7	2.8	170	190	28	.3	4.9	482	.66	1700
FEB												
20...	60	35	1.7	2.8	150	190	26	.2	4.5	456	.62	1690
MAR												
27...	63	34	1.7	2.6	140	220	20	.3	4.5	483	.66	2770
MAY												
06...	43	45	1.8	2.2	100	90	19	.2	11	266	.36	5320
JUN												
03...	17	28	.8	1.2	60	53	5.5	.1	8.9	155	.21	3490
24...	41	33	1.3	2.4	100	130	19	.2	6.0	319	.43	2120
JUL												
21...	56	33	1.6	3.0	130	200	24	.2	5.0	450	.61	1910
AUG												
26...	--	--	--	--	150	220	23	.2	--	90	.12	321
SEP												
21...	58	33	1.7	3.0	140	210	19	.9	2.8	465	.63	4360

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT 22...	.18	.030	--
DEC 02...	.12	.040	--
FEB 20...	.13	.000	2.1
MAR 27...	.23	.030	1.9
MAY 06...	.28	.040	1.6
JUN 03...	.03	.040	.90
24...	.01	.010	1.8
JUL 21...	.08	<.010	2.2
AUG 26...	.02	.010	--
SEP 21...	.19	<.010	--

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT 22...	1400	140
DEC 02...	1100	110
FEB 20...	1100	60
MAR 27...	1000	80
MAY 06...	1045	40
JUN 03...	1030	20
24...	1130	50
JUL 21...	1230	80
AUG 26...	1315	80
SEP 21...	1000	90

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	760	730	800	870	---	---	780	410	375	870	800	930
2	780	---	800	870	900	810	790	435	410	710	---	810
3	760	730	800	870	880	810	790	---	250	720	790	780
4	750	740	790	---	880	810	780	450	375	700	820	790
5	---	730	800	870	880	810	---	450	270	---	810	---
6	750	740	800	870	870	810	790	450	280	760	770	---
7	760	740	---	870	890	810	790	450	---	860	820	---
8	780	740	880	870	---	---	790	460	275	---	780	---
9	790	---	880	870	880	810	790	445	325	790	---	---
10	750	740	880	870	880	810	810	---	360	---	770	---
11	760	780	810	---	880	820	810	420	350	870	790	---
12	---	800	880	910	900	820	---	480	350	---	790	790
13	760	800	880	900	900	820	860	475	315	---	900	---
14	760	790	---	900	900	810	770	455	---	---	820	810
15	740	800	810	910	---	---	770	520	590	740	890	840
16	740	---	810	900	750	880	610	510	590	800	---	790
17	760	800	870	900	750	880	600	---	600	730	880	800
18	740	800	810	---	750	870	620	560	610	780	---	870
19	---	750	810	900	750	870	---	500	630	---	810	850
20	740	730	810	910	750	880	460	500	620	770	800	---
21	740	800	---	910	750	880	455	500	---	780	900	770
22	730	790	840	910	---	---	460	400	---	770	880	---
23	720	---	840	890	840	---	510	390	---	760	---	---
24	740	800	840	890	850	---	510	---	500	780	---	---
25	730	800	840	---	840	---	540	400	---	800	---	---
26	---	800	840	880	850	---	---	395	---	---	830	---
27	720	790	840	900	850	700	510	400	---	780	800	---
28	730	790	---	870	850	---	490	405	---	810	820	790
29	740	790	830	880	---	---	480	380	790	770	860	800
30	730	---	840	870	---	---	470	390	800	810	---	770
31	720	---	840	870	---	---	---	---	---	780	950	---
MEAN	747	772	832	886	843	---	655	447	---	---	---	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	9.0	6.0	6.0	---	---	10.0	15.0	20.0	24.0	24.0	17.5
2	14.0	---	7.0	6.5	1.0	5.0	11.0	17.0	19.5	23.0	---	18.0
3	13.0	8.0	6.0	6.0	.0	4.5	10.0	---	19.0	25.0	22.0	19.0
4	14.0	7.5	5.0	---	.5	4.0	9.0	16.0	18.0	24.0	26.0	18.0
5	---	7.0	6.0	7.0	1.0	5.0	---	15.0	19.0	---	25.0	17.0
6	14.0	7.5	6.0	6.5	2.0	5.5	10.0	14.5	20.0	23.0	24.5	---
7	15.0	8.0	---	6.0	.5	6.0	10.5	13.5	---	24.0	25.0	19.0
8	14.0	8.5	5.0	5.0	---	---	10.0	13.0	19.5	25.0	24.0	20.0
9	14.0	---	6.0	5.5	.5	8.0	11.0	14.0	20.0	24.5	---	21.0
10	13.0	7.0	4.0	5.0	1.0	8.5	11.5	---	19.0	25.0	18.0	20.5
11	13.0	6.0	5.0	---	2.0	8.0	11.5	14.0	20.5	26.0	17.5	---
12	---	6.5	5.5	4.0	3.0	7.0	---	13.0	20.0	---	22.0	21.0
13	12.0	7.0	4.5	3.0	3.5	7.5	15.0	13.5	19.0	25.0	19.0	---
14	12.0	7.5	---	3.5	4.0	8.0	15.5	14.0	---	24.0	17.0	20.0
15	11.0	8.0	5.0	3.0	---	---	14.5	14.5	22.5	23.0	20.0	21.0
16	12.0	---	6.0	2.5	4.0	8.0	15.0	14.0	21.0	24.0	---	20.0
17	12.0	5.5	5.5	2.0	4.5	7.5	15.5	---	22.0	25.0	19.0	20.5
18	11.0	5.0	6.0	---	5.0	8.0	15.0	15.0	23.0	26.0	19.5	21.0
19	---	5.5	7.0	2.5	4.5	9.0	---	14.0	22.0	---	21.0	20.0
20	11.0	6.0	6.5	2.0	5.0	8.5	16.0	16.0	21.5	25.0	20.0	---
21	11.0	5.5	---	1.5	5.5	8.0	15.0	15.0	---	24.0	19.0	19.0
22	10.0	5.0	5.0	1.0	---	---	14.0	16.0	22.0	23.0	18.5	18.5
23	---	---	5.5	2.0	4.0	7.0	13.5	16.5	23.0	22.0	---	18.0
24	10.0	4.5	5.0	2.5	3.0	8.0	14.5	---	22.0	20.0	18.5	17.5
25	9.0	5.0	4.5	---	3.5	7.0	15.0	15.0	21.0	22.0	19.0	17.0
26	---	4.5	5.0	3.0	2.0	9.0	---	14.0	---	---	20.0	17.5
27	9.0	4.0	4.0	3.5	3.0	8.5	17.0	14.5	21.0	23.0	19.5	---
28	9.0	4.5	---	4.0	4.0	9.0	16.0	15.5	---	22.0	21.0	18.0
29	10.0	5.0	4.5	3.0	---	---	16.5	19.0	21.0	21.0	20.0	17.5
30	10.0	---	4.0	2.0	---	9.0	17.5	19.5	22.0	24.0	---	18.0
31	10.0	---	3.5	3.0	---	9.5	---	---	---	25.0	17.0	---
MEAN	12.0	6.5	5.5	4.0	3.0	7.5	13.5	15.0	20.5	24.0	20.5	19.0

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

LOCATION.--Lat 40°35'20", long 109°27'53", in NW¼SE¼NE¼ sec.5, T.3 S., R.22 E., Uintah County, Hydrologic Unit 14060002, on right bank 950 ft (290 m) below State Highway 44, 5.5 mi (8.8 km) upstream from Little Brush Creek, and 10.5 mi (16.8 km) northeast of Vernal.

DRAINAGE AREA.--77.2 mi^2 (200 km^2).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,625 ft (1,714 m) from topographic map. Prior to Sept. 1980 water-stage recorder at site 250 ft (76.2 m) upstream at different datum.

REMARKS.--Records good. Water from Oaks Park Reservoir on headwaters, capacity, 6,250 acre-ft (7.70 hm^3) diverted through Oaks Park Canal to Ashley Creek basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 314 ft^3/s (8.89 m^3/s) May 23, 1980, gage height, 3.06 ft (0.933 m) at different datum; minimum daily, 11.0 ft^3/s (0.31 m^3/s) several days 1979-1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 145 ft^3/s (4.11 m^3/s) May 3, gage height, 1.54 ft (0.469 m); minimum daily, 11.0 ft^3/s (0.31 m^3/s) many days Jan.-Apr.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	16	15	13	11	11	11	107	86	35	34	21
2	17	16	15	13	11	12	11	118	85	40	34	20
3	17	16	15	13	11	12	12	137	82	45	33	20
4	17	16	14	13	11	12	12	104	84	47	32	20
5	18	16	15	12	11	12	12	86	78	43	29	21
6	18	16	15	12	11	12	12	76	73	38	27	23
7	18	16	14	12	12	12	12	67	70	38	25	23
8	17	16	15	12	12	12	12	60	63	38	24	22
9	17	16	15	12	12	12	14	54	57	38	24	21
10	17	16	15	12	12	12	23	51	53	39	26	20
11	17	16	14	12	11	12	25	50	50	39	28	20
12	17	17	14	12	12	12	27	47	47	38	29	19
13	18	17	14	12	11	12	25	44	45	39	28	18
14	20	16	14	11	12	12	26	43	63	39	27	18
15	24	15	14	11	11	12	33	47	65	39	27	18
16	21	15	14	11	12	11	34	58	63	40	26	17
17	21	15	14	11	11	11	42	59	60	39	24	17
18	19	15	14	11	11	11	49	55	57	39	24	16
19	19	14	14	11	11	11	61	54	55	39	23	16
20	18	15	14	11	12	12	53	59	53	38	23	16
21	18	15	14	11	12	12	46	60	52	37	22	16
22	18	15	14	11	12	12	38	62	51	36	22	16
23	17	15	13	11	11	11	44	61	50	37	22	15
24	16	14	14	11	12	11	60	59	38	36	22	15
25	16	15	13	11	12	11	70	63	34	37	22	15
26	16	15	13	11	12	11	81	84	33	36	21	15
27	17	14	13	11	12	12	83	81	34	36	21	15
28	17	15	14	11	11	12	71	102	36	36	21	15
29	16	15	13	11	---	12	75	89	44	36	21	15
30	16	15	13	11	---	12	92	84	38	35	21	14
31	16	---	13	11	---	11	---	86	---	35	21	---
TOTAL	549	463	435	358	322	362	1166	2207	1699	1187	783	537
MEAN	17.7	15.4	14.0	11.5	11.5	11.7	38.9	71.2	56.6	38.3	25.3	17.9
MAX	24	17	15	13	12	12	92	137	86	47	34	23
MIN	16	14	13	11	11	11	11	43	33	35	21	14
AC-FT	1090	918	863	710	639	718	2310	4380	3370	2350	1550	1070

CAL YR 1980 TOTAL 16800 MEAN 45.9 MAX 295 MIN 11 AC-FT 33320
WTR YR 1981 TOTAL 10068 MEAN 27.6 MAX 137 MIN 11 AC-FT 19970

09266500 ASHLEY CREEK NEAR VERNAL, UTAH

LOCATION.--Lat 40°34'39", long 109°37'17", in NE¼NW¼NE¼ sec.12, T.3 S., R.20 E., Uintah County, Hydrologic Unit 14060002, on right bank 0.8 mi (1.3 km) upstream from head of Utah Power & Light Co.'s canal, 4.5 mi (7.2 km) upstream from Dry Fork, and 10 mi (16 km) northwest of Vernal.

DRAINAGE AREA.--101 mi^2 (262 km^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 (1,899.090 m) NGVD of 1929. Prior to Nov. 13, 1917, nonrecording and water-stage recorder at several sites within 1.5 mi (2.4 km) of present site at various datums. Nov. 14, 1917 to July 15, 1965, water-stage recorder at site 75 ft (23 m) downstream at various datums. July 15, 1965 to July 30, 1968, water-stage recorder at site 75 ft (23 m) downstream at datum 0.09 ft (0.027 m) higher.

REMARKS.--Records good. Flow increased since July 1940 by water released from Oaks Park Reservoir, capacity, 6,250 acre-ft (7.71 hm^3) on Big Brush Creek and diverted to Ashley Creek basin for irrigation. City of Vernal pipeline, capacity, approximately 11 ft^3/s (0.31 m^3/s), diverts water from tributary spring about 1,000 ft (305 m) above station (diversion began Aug. 1, 1941); at times, part of this flow is returned to Ashley Creek 2.5 mi (4.0 km) below station. Prior to September 1961, pipeline capacity was approximately 5 ft^3/s (0.14 m^3/s) and the return flow entered Ashley Creek 0.5 mi (0.8 km) below station.

AVERAGE DISCHARGE.--68 years (1913-81), 98.5 ft^3/s (2.790 m^3/s), 71,360 acre-ft/yr (88.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 3,500 ft^3/s (99.1 m^3/s) June 11, 1965, from rating table extended above 1,060 ft^3/s (30.1 m^3/s); maximum gage height, 6.09 ft (1.856 m) June 16, 1929, present datum; minimum discharge, 3.2 ft^3/s (0.091 m^3/s) Mar. 16, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 600 ft^3/s (17.0 m^3/s); maximum, 706 ft^3/s (20.0 m^3/s) May 1, gage height, 2.68 ft (0.817 m); minimum, 8.2 ft^3/s (0.23 m^3/s) April 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	23	15	13	13	11	9.7	470	241	104	69	22
2	25	23	13	13	13	11	9.9	500	223	137	68	22
3	24	22	14	13	12	12	11	416	238	171	64	23
4	34	22	15	13	13	12	9.4	286	220	175	62	22
5	40	22	15	13	13	11	8.7	265	211	140	58	24
6	40	22	16	12	13	12	9.2	250	217	126	56	45
7	41	23	16	12	13	11	9.7	208	218	120	53	38
8	41	23	15	13	12	11	9.3	190	207	113	53	33
9	41	22	15	13	12	11	8.8	178	197	120	50	31
10	41	21	15	13	12	11	14	178	183	128	45	29
11	42	21	15	13	12	11	18	187	171	124	37	28
12	43	22	15	13	12	11	25	178	157	124	47	27
13	45	23	15	12	12	11	24	162	146	129	55	25
14	47	21	15	12	12	11	21	172	145	104	54	25
15	52	18	15	12	12	11	29	211	136	128	49	23
16	51	17	14	11	12	11	25	208	124	119	41	22
17	52	18	14	12	11	11	23	190	113	116	30	21
18	51	17	14	12	12	11	40	172	105	117	26	21
19	49	17	14	12	12	10	59	187	98	128	25	20
20	36	17	12	12	11	11	56	205	94	111	24	21
21	32	17	12	12	11	11	52	193	91	103	42	21
22	32	16	13	12	11	10	44	178	88	99	58	21
23	29	16	13	12	11	10	52	170	82	95	58	19
24	25	16	13	12	11	10	81	184	83	95	53	20
25	26	16	13	12	12	10	142	193	76	95	50	22
26	26	16	13	12	12	10	214	211	72	95	46	25
27	26	16	13	12	12	11	250	268	86	93	42	23
28	24	16	13	12	11	9.8	259	286	117	86	35	21
29	24	16	13	12	---	10	328	279	138	81	30	20
30	25	16	13	13	---	11	424	265	108	77	28	20
31	24	---	13	13	---	10	---	253	---	74	25	---
TOTAL	1113	575	434	383	335	334.8	2265.7	7293	4385	3527	1433	734
MEAN	35.9	19.2	14.0	12.4	12.0	10.8	75.5	235	146	114	46.2	24.5
MAX	52	23	16	13	13	12	424	500	241	175	69	45
MIN	24	16	12	11	11	9.8	8.7	162	72	74	24	19
AC-FT	2210	1140	861	760	664	664	4490	14470	8700	7000	2840	1460

CAL YR 1980 TOTAL 38237.3 MEAN 104 MAX 961 MIN 9.3 AC-FT 75840
WTR YR 1981 TOTAL 22812.5 MEAN 62.5 MAX 500 MIN 8.7 AC-FT 45250

09267500 MOSBY CANAL NEAR LAPOINT, UTAH

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 (7.2 km) southeast of Paradise Park Reservoir, 8 mi (13 km) downstream from diversion from Dry Fork, and 16 mi (26 km) 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 (2,895 m) from topographic map.

REMARKS.--Records good except those for winter periods and no gage-height record, Dec. 1 to May 12, which are poor. 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 (247 hm^3).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 37 ft^3/s (1.05 m^3/s) June 16, 17, 1969; no flow for extended periods each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	3.2	3.0	.00	.00	.00	.00	3.8	25	18	12	6.4
2	3.1	3.2	2.8	.00	.00	.00	.00	3.5	27	18	8.9	6.0
3	3.1	3.2	2.6	.00	.00	.00	.00	3.3	30	21	7.2	5.8
4	3.1	3.2	2.5	.00	.00	.00	.00	3.2	29	21	6.8	5.6
5	3.1	3.1	2.5	.00	.00	.00	.00	3.0	28	20	6.4	6.0
6	3.1	3.1	2.4	.00	.00	.00	.01	2.5	28	18	6.2	7.4
7	3.1	3.1	2.2	.00	.00	.00	.02	2.1	29	17	6.4	7.6
8	3.1	3.1	1.9	.00	.00	.00	.03	1.9	29	16	6.4	7.4
9	3.1	3.1	.85	.00	.00	.00	.04	1.7	28	16	6.6	7.3
10	3.1	3.1	.09	.00	.00	.00	.05	1.6	28	15	9.2	6.3
11	3.1	3.1	.00	.00	.00	.00	.06	1.7	26	15	7.9	5.9
12	3.1	3.1	.00	.00	.00	.00	.09	1.9	25	15	8.2	5.9
13	3.1	3.0	.00	.00	.00	.00	.14	1.8	24	15	9.5	5.3
14	3.2	3.0	.00	.00	.00	.00	.14	1.9	23	16	8.5	6.4
15	3.3	2.8	.00	.00	.00	.00	.21	2.1	21	16	6.2	7.8
16	3.1	2.8	.00	.00	.00	.00	.35	2.3	21	15	4.6	7.5
17	3.1	2.7	.00	.00	.00	.00	.51	2.2	21	16	4.1	7.3
18	3.1	2.7	.00	.00	.00	.00	.47	2.1	21	15	5.2	7.0
19	3.1	2.8	.00	.00	.00	.00	.40	2.2	20	15	7.6	6.7
20	3.1	2.9	.00	.00	.00	.00	.35	7.9	20	15	7.3	6.5
21	3.2	3.0	.00	.00	.00	.00	.36	13	19	15	7.0	6.2
22	3.2	3.0	.00	.00	.00	.00	.48	13	18	15	6.2	6.3
23	3.9	3.0	.00	.00	.00	.00	.70	13	18	20	6.2	6.9
24	3.0	3.0	.00	.00	.00	.00	1.2	13	18	22	5.9	6.5
25	3.0	3.0	.00	.00	.00	.00	1.8	12	17	21	5.4	6.6
26	3.2	3.1	.00	.00	.00	.00	2.1	13	17	21	6.2	6.8
27	3.2	3.1	.00	.00	.00	.00	2.5	14	17	20	8.3	6.7
28	3.2	3.0	.00	.00	.00	.00	3.2	16	17	18	8.0	6.5
29	3.2	3.0	.00	.00	---	.00	4.0	17	19	17	7.5	3.5
30	3.2	3.0	.00	.00	---	.00	4.2	21	19	16	7.2	.63
31	3.2	---	.00	.00	---	.00	---	26	---	15	6.8	---
TOTAL	97.9	90.5	20.84	.00	.00	.00	23.41	223.7	682	533	219.9	188.73
MEAN	3.16	3.02	.67	.000	.000	.000	.78	7.22	22.7	17.2	7.09	6.29
MAX	3.9	3.2	3.0	.00	.00	.00	4.2	26	30	22	12	7.8
MIN	3.0	2.7	.00	.00	.00	.00	.00	1.6	17	15	4.1	.63
AC-FT	194	180	41	.00	.00	.00	46	444	1350	1060	436	374

CAL YR 1980 TOTAL 1908.01 MEAN 5.21 MAX 29 MIN .00 AC-FT 3780
WTR YR 1981 TOTAL 2079.98 MEAN 5.70 MAX 30 MIN .00 AC-FT 4130

09268500 NORTH FORK OF DRY FORK NEAR DRY FORK, UTAH

LOCATION.--Lat 40°38'34", long 109°48'37", in NE¼NW¼SE¼ sec.17, T.2 S., R.19 E., Uintah County, Hydrologic Unit 14060002, Ashley National Forest, on left bank 2 mi (3 km) upstream from mouth, and 9.5 mi (15.3 km) northwest of town of Dry Fork.

DRAINAGE AREA.--8.62 mi^2 (22.33 km^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 (2,525.048 m) NGVD of 1929 (levels by Utah Water and Power Board).

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

AVERAGE DISCHARGE.--35 years, 6.57 ft^3/s (0.186 m^3/s), 4,760 acre-ft/yr (5.87 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 169 ft^3/s (4.79 m^3/s) June 5, 1968, gage height, 3.34 ft (1.018 m); maximum gage height, 3.60 ft (1.097 m) May 7, 1947; no flow for part of Apr. 21, 1961, May 1, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 50 ft^3/s (1.42 m^3/s), 54 ft^3/s (1.53.m^3/s) May 2, gage height, 2.81 ft (0.856 m); minimum daily, 0.64 ft^3/s (0.018 m^3/s) Apr. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	3.0	1.8	1.4	1.2	.77	.74	39	27	10	3.9	3.0
2	3.4	2.9	1.8	1.4	1.1	.75	.73	43	27	12	3.9	3.1
3	3.4	2.7	1.9	1.3	1.1	.75	.73	40	29	11	3.7	3.1
4	3.4	2.7	1.8	1.3	1.1	.73	.70	33	27	9.2	3.7	3.0
5	3.4	2.7	1.8	1.3	1.1	.73	.68	30	28	8.4	3.5	4.4
6	3.2	2.7	1.7	1.2	1.0	.73	.66	29	30	8.1	3.5	3.6
7	3.2	2.8	1.7	1.2	1.0	.74	.65	24	31	7.3	3.7	3.5
8	3.2	2.7	1.5	1.2	1.0	.73	.64	22	30	7.6	3.7	3.3
9	3.2	2.7	1.6	1.2	1.0	.73	.69	19	27	7.3	3.9	3.1
10	3.2	2.6	1.6	1.2	1.0	.73	.73	18	25	7.3	4.1	3.0
11	3.2	2.5	1.6	1.2	.97	.80	.79	18	24	7.0	3.7	3.1
12	3.4	2.6	1.6	1.2	.97	.73	.85	17	23	7.6	4.3	3.0
13	3.7	2.5	1.6	1.2	.97	.73	.97	16	23	7.0	4.6	3.1
14	3.5	2.2	1.6	1.2	.96	.73	1.0	18	22	6.6	3.9	3.1
15	3.5	1.9	1.6	1.2	.91	.73	1.4	19	20	6.3	3.7	3.0
16	3.8	2.0	1.5	1.2	.87	.73	1.1	18	19	6.0	3.5	3.0
17	3.6	2.1	1.5	1.2	.85	.73	1.6	16	18	6.0	3.4	3.0
18	3.6	2.1	1.5	1.2	.83	.73	2.8	14	17	6.0	3.3	2.9
19	3.5	2.1	1.5	1.2	.79	.73	4.3	16	16	5.7	3.3	2.9
20	3.5	2.1	1.5	1.2	.79	.73	3.0	17	15	5.5	3.2	2.9
21	3.5	2.1	1.5	1.2	.77	.73	2.7	15	14	5.2	3.2	3.0
22	3.4	2.2	1.5	1.1	.78	.73	2.4	14	14	5.0	3.7	2.9
23	2.8	2.1	1.5	1.1	.79	.73	3.2	15	13	5.0	3.3	2.9
24	2.8	2.1	1.4	1.1	.79	.73	5.7	16	13	5.0	3.2	3.0
25	3.0	2.2	1.4	1.1	.79	.73	9.6	18	12	5.0	3.2	3.0
26	3.1	2.0	1.4	1.1	.80	.73	13	22	12	5.0	3.1	3.0
27	3.0	2.0	1.4	1.1	.79	.71	17	29	11	4.8	3.1	2.9
28	2.9	2.1	1.4	1.1	.79	.72	21	27	11	4.6	3.1	2.9
29	2.9	2.0	1.4	1.1	---	.73	26	26	11	4.6	3.0	2.9
30	3.0	1.9	1.4	1.2	---	.79	32	27	10	4.1	3.0	2.9
31	3.0	---	1.4	1.2	---	.77	---	27	---	4.1	3.0	---
TOTAL	101.8	70.3	48.4	37.1	25.81	22.86	157.36	702	599	204.3	109.4	92.5
MEAN	3.28	2.34	1.56	1.20	.92	.74	5.25	22.6	20.0	6.59	3.53	3.08
MAX	3.8	3.0	1.9	1.4	1.2	.80	32	43	31	12	4.6	4.4
MIN	2.8	1.9	1.4	1.1	.77	.71	.64	14	10	4.1	3.0	2.9
AC-FT	202	139	96	74	51	45	312	1390	1190	405	217	183

CAL YR 1980 TOTAL 3622.16 MEAN 9.90 MAX 125 MIN .30 AC-FT 7180
WTR YR 1981 TOTAL 2170.83 MEAN 5.95 MAX 43 MIN .64 AC-FT 4310

09268900 BROWNIE CANYON ABOVE SINKS, NEAR DRY FORK, UTAH

LOCATION.--Lat 40°39'34", long 109°45'01', in SW¼NE¼ sec.11, T.2 S., R.19 E. (unsurveyed), Uintah County, Hydrologic Unit 14060002, Ashley National Forest, on right bank 4.5 mi (7.2 km) upstream from mouth and 8.5 mi (13.7 km) northwest of town of Dry Fork.

DRAINAGE AREA.--8.24 mi^2 (21.34 km^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 (2,530 m) from topographic map. Prior to July 28, 1978 at 0.53 ft (0.162 m) higher datum.

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

AVERAGE DISCHARGE.--21 years, 12.7 ft^3/s (0.360 m^3/s), 9,200 acre-ft/yr (11.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 395 ft^3/s (11.2 m^3/s) June 10, 1965, gage height, 2.12 ft (0.646 m), from rating curve extended above 160 ft^3/s (4.53 m^3/s); no flow for part of Apr. 23, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 97 ft^3/s (2.75 m^3/s) May 1, gage height, 2.35 ft (0.716 m), no peak above base of 100 ft^3/s (2.83 m^3/s); minimum daily, 0.78 ft^3/s (0.022 m^3/s) Apr. 1, 2, 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	2.5	2.0	1.5	.98	.98	.78	72	44	12	6.0	4.3
2	5.3	3.6	2.0	1.5	.99	.97	.78	76	45	13	6.0	4.3
3	5.3	3.8	2.0	1.5	1.0	.96	.79	59	52	13	5.7	4.3
4	5.3	3.8	1.9	1.5	1.0	.96	.80	41	52	12	5.5	4.2
5	5.3	3.9	1.8	1.5	1.0	.96	.80	38	51	11	5.3	6.4
6	5.3	3.8	1.7	1.4	.99	.96	.78	35	57	11	5.3	5.1
7	5.3	3.8	1.7	1.3	.98	.97	.78	27	57	10	5.3	4.7
8	5.3	3.8	1.6	1.3	.98	.96	.80	23	56	10	5.3	4.5
9	5.5	3.7	1.7	1.4	.92	.94	.82	20	55	10	6.0	4.3
10	5.5	3.7	1.7	1.4	.84	.94	1.1	21	55	10	5.7	4.2
11	5.5	3.7	1.7	1.4	.90	.96	1.1	23	53	9.7	5.3	4.2
12	5.3	3.8	1.7	1.4	.93	.96	1.4	20	51	10	5.3	4.2
13	5.5	3.6	1.6	1.3	.97	.96	1.6	20	49	10	5.5	4.2
14	5.7	2.9	1.6	1.4	.98	.95	1.9	29	47	10	5.3	4.2
15	5.5	2.2	1.6	1.4	.99	.93	2.5	36	41	9.1	5.0	4.2
16	5.5	2.2	1.6	1.5	.99	.91	2.1	31	37	8.8	5.0	4.2
17	5.5	2.3	1.5	1.5	1.0	.91	3.0	23	32	8.6	4.7	4.2
18	5.3	2.3	1.5	1.5	1.0	.90	3.8	20	28	8.6	4.6	4.2
19	5.0	2.3	1.5	1.5	1.0	.92	4.8	28	26	8.3	4.6	4.2
20	4.8	2.3	1.5	1.5	1.0	.92	4.2	30	23	8.0	4.6	4.0
21	4.8	2.4	1.5	1.5	1.0	.92	3.4	22	20	7.7	4.6	4.0
22	4.4	2.4	1.5	1.5	1.0	.92	3.2	19	18	7.4	4.8	4.0
23	3.4	2.4	1.5	1.4	1.0	.92	3.4	20	18	7.4	4.6	4.0
24	2.8	2.3	1.5	1.4	1.0	.92	4.8	22	16	7.4	4.6	4.1
25	3.2	2.3	1.4	1.1	1.0	.92	7.1	27	16	7.4	4.6	4.2
26	3.4	2.3	1.4	.98	1.0	.92	18	36	15	7.4	4.4	4.1
27	3.4	2.2	1.4	1.1	1.0	.92	24	53	14	7.1	4.4	4.0
28	3.6	2.3	1.4	1.1	1.0	.90	28	51	14	6.6	4.4	4.0
29	3.1	2.3	1.4	1.1	---	.92	42	47	14	6.6	4.4	4.0
30	2.8	2.2	1.4	1.0	---	.92	61	45	13	6.4	4.4	4.0
31	2.0	---	1.5	.99	---	.80	---	45	---	6.2	4.4	---
TOTAL	143.9	87.1	49.8	41.87	27.44	28.90	229.53	1059	1069	280.7	155.6	128.5
MEAN	4.64	2.90	1.61	1.35	.98	.93	7.65	34.2	35.6	9.05	5.02	4.28
MAX	5.7	3.9	2.0	1.5	1.0	.98	61	76	57	13	6.0	6.4
MIN	2.0	2.2	1.4	.98	.84	.80	.78	19	13	6.2	4.4	4.0
AC-FT	285	173	99	83	54	57	455	2100	2120	557	309	255

CAL YR 1980	TOTAL	5476.45	MEAN 15.0	MAX 180	MIN .49	AC-FT	10860
WTR YR 1981	TOTAL	3301.34	MEAN 9.04	MAX 76	MIN .78	AC-FT	6550

09270500 DRY FORK AT MOUTH, NEAR DRY FORK, UTAH

LOCATION.--Lat 40°31'35", long 109°36'18", in SE¼NE¼SW¼ sec.30, T.3 S., R.21 E., Uintah County, Hydrologic Unit 14060002, on left bank 900 ft (274 m) upstream from mouth and 4 mi (6 km) southeast of town of Dry Fork.

DRAINAGE AREA.--115 mi^2 (298 km^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 (1,780.92 m) NGVD of 1929.

REMARKS.--Records good. 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.--27 years, 25.1 ft^3/s (0.711 m^3/s), 18,180 acre-ft/yr (22.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,210 ft^3/s (34.3 m^3/s) Aug. 25, 1955, from rating curve extended above 450 ft^3/s (12.7 m^3/s) on basis of comparison with Ashley Creek at Sign of the Maine; maximum gage height, 6.00 ft (1.829 m) June 12, 1965; no flow for several periods in 1956-61, 1963, 1966, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 250 ft^3/s (7.08 m^3/s), 333 ft^3/s (9.43 m^3/s) May 3, gage height, 4.34 ft (1.323 m); minimum daily, 0.51 ft^3/s (0.014 m^3/s) Apr. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	2.7	2.4	2.3	1.8	2.0	1.7	28	114	7.7	.73	.87
2	1.7	2.6	2.2	2.2	1.8	2.0	1.5	179	110	8.0	.73	.84
3	1.8	2.5	2.5	2.2	1.8	2.1	2.5	270	131	7.7	.62	.84
4	1.8	2.7	2.6	2.3	1.8	2.1	2.3	138	110	8.2	.67	.81
5	1.8	2.7	2.7	2.3	1.7	1.9	2.1	97	95	7.2	.57	1.3
6	1.8	2.6	2.8	2.3	1.8	1.8	1.8	79	118	5.0	.62	1.3
7	1.7	2.5	2.8	2.2	1.7	1.8	1.9	54	147	4.2	.57	1.4
8	1.8	2.5	2.6	2.1	1.7	1.7	1.7	42	139	2.9	.67	1.4
9	1.8	2.4	2.5	2.1	1.8	1.7	1.5	32	139	2.4	.79	1.3
10	1.7	2.5	2.6	2.2	1.7	1.6	1.4	26	108	2.4	1.0	1.3
11	1.6	2.5	2.7	2.2	1.7	1.6	1.3	23	90	2.1	1.0	1.4
12	1.7	2.4	2.5	2.3	1.7	1.6	1.2	34	77	2.1	1.0	1.3
13	2.4	2.3	2.5	2.3	1.9	1.5	1.1	31	66	1.8	1.0	1.4
14	2.7	2.3	2.3	2.2	2.0	1.5	1.1	26	61	1.2	1.0	1.4
15	4.5	2.4	2.4	2.2	2.0	1.5	1.5	31	60	1.2	1.0	1.2
16	3.5	2.4	2.5	2.2	2.1	1.5	1.9	33	51	1.4	1.1	1.2
17	2.7	2.4	2.6	2.2	2.1	2.2	1.4	27	46	1.6	.97	1.2
18	2.5	2.3	2.5	2.2	2.1	2.2	1.1	26	43	1.9	1.0	1.1
19	2.3	2.4	2.5	2.2	1.9	1.9	1.6	26	38	1.8	.86	1.1
20	2.2	2.3	2.4	2.2	1.8	1.9	1.4	29	33	1.4	.89	1.0
21	2.2	2.3	2.4	2.2	2.0	1.9	1.2	29	29	1.2	.88	1.0
22	2.1	2.5	2.3	2.2	2.2	1.8	1.1	28	24	1.1	.98	1.1
23	2.3	2.7	2.4	2.2	2.1	1.6	1.0	35	22	1.1	.89	.93
24	2.6	2.7	2.2	2.0	1.9	1.7	1.0	32	21	1.1	.82	1.1
25	2.6	2.5	2.3	1.8	1.7	1.6	.83	26	20	1.2	.86	1.2
26	2.7	2.5	2.4	1.7	1.8	1.5	.69	38	15	1.2	.79	1.2
27	2.7	2.5	2.4	1.7	2.1	2.1	.63	74	11	1.2	.79	1.1
28	2.7	2.5	2.4	1.7	2.0	2.3	.57	110	12	1.1	.75	1.1
29	2.7	2.5	2.3	1.7	---	2.1	.51	99	11	.85	.85	1.1
30	2.7	2.5	2.3	1.8	---	2.3	3.3	112	9.0	.85	.90	1.1
31	2.7	---	2.3	1.8	---	2.0	---	112	---	.79	.85	---
TOTAL	71.8	74.6	76.3	65.2	52.7	57.0	42.83	1926	1950.0	83.89	26.15	34.59
MEAN	2.32	2.49	2.46	2.10	1.88	1.84	1.43	62.1	65.0	2.71	.84	1.15
MAX	4.5	2.7	2.8	2.3	2.2	2.3	3.3	270	147	8.2	1.1	1.4
MIN	1.6	2.3	2.2	1.7	1.7	1.5	.51	23	9.0	.79	.57	.81
AC-FT	142	148	151	129	105	113	85	3820	3870	166	52	69

CAL YR 1980 TOTAL 14967.20 MEAN 40.9 MAX 751 MIN 1.0 AC-FT 29690
WTR YR 1981 TOTAL 4461.06 MEAN 12.2 MAX 270 MIN .51 AC-FT 8850

09271500 ASHLEY CREEK NEAR JENSEN, UTAH

LOCATION.--Lat 40°22'29", long 109°24'27", in NE¼NW¼NE¼ 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 (5 km) upstream from mouth, and 3 mi (5 km) west of Jensen.

DRAINAGE AREA.--383 mi^2 (992 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 4,795.36 ft (1,461.626 m) NGVD of 1929.

REMARKS.--Records good. Flow increased since July 1940 by water released from Oaks Park Reservoir, capacity, 6,250 acre-ft (7.71 hm^3) 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 (47.0 hm^3). Records of Steinaker Reservoir diversion are in the Bureau of Reclamation office at Provo, Utah.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,790 ft^3/s (79.0 m^3/s) June 6, 1968, gage height, 7.04 ft (2.146 m); maximum gage height, 7.16 ft (2.182 m) June 11, 1965; no flow part of Aug. 9, 1956, and several days in August and September 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 116 ft^3/s (3.29 m^3/s) May 3, gage height, 2.32 ft (0.707 m); minimum, 2.8 ft^3/s (0.079 m^3/s) Aug. 18, 20, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	47	24	25	21	22	16	7.8	24	9.5	8.0	4.5
2	23	41	24	24	21	22	16	9.8	24	9.5	6.6	4.2
3	24	39	26	24	20	26	27	47	18	10	6.7	4.1
4	25	38	26	26	20	24	31	43	18	10	6.8	3.9
5	25	38	27	27	20	22	25	26	13	8.9	6.8	6.0
6	24	34	29	25	21	21	21	21	17	8.9	6.6	9.5
7	24	34	28	24	21	24	20	21	20	8.4	5.4	8.1
8	25	34	25	24	20	22	23	17	15	8.5	4.6	8.6
9	25	33	24	24	19	21	18	24	13	8.4	5.0	8.0
10	21	33	25	25	18	21	18	22	10	8.9	6.3	8.8
11	22	32	26	24	19	18	17	20	9.5	8.5	8.1	9.5
12	28	31	27	24	21	18	15	22	9.8	10	8.7	8.3
13	39	31	27	24	22	18	14	22	8.4	17	8.4	8.3
14	47	31	27	24	22	19	12	20	10	11	7.7	7.4
15	94	33	27	24	22	18	12	18	14	12	6.7	8.0
16	90	33	26	24	22	18	16	24	14	11	6.4	7.9
17	75	31	26	24	23	23	14	26	10	11	5.2	7.8
18	71	31	25	24	23	24	11	24	12	10	3.7	7.9
19	68	32	26	24	21	20	11	20	11	10	3.2	7.9
20	64	31	25	23	21	22	10	22	10	9.7	3.1	7.9
21	55	31	26	23	20	24	10	36	10	8.5	3.6	7.4
22	48	32	27	22	20	22	8.9	33	10	7.3	4.5	7.9
23	43	32	29	22	21	21	7.8	28	8.7	6.3	4.5	6.8
24	48	34	28	22	21	23	8.4	31	7.5	7.2	4.6	6.5
25	51	30	27	20	20	23	10	36	5.8	8.2	4.9	6.9
26	50	28	26	20	21	22	9.3	33	7.0	9.1	5.6	7.6
27	50	26	26	21	26	23	9.3	28	6.7	8.5	5.2	7.6
28	50	27	26	21	24	28	9.3	29	8.2	11	5.9	6.6
29	47	26	26	21	---	22	10	33	9.8	9.0	4.3	7.0
30	45	26	25	21	---	18	8.5	24	9.1	8.1	4.0	7.2
31	50	---	25	21	---	18	---	22	---	8.3	3.5	---
TOTAL	1376	979	811	721	590	667	438.5	789.6	363.5	292.7	174.6	218.1
MEAN	44.4	32.6	26.2	23.3	21.1	21.5	14.6	25.5	12.1	9.44	5.63	7.27
MAX	94	47	29	27	26	28	31	47	24	17	8.7	9.5
MIN	21	26	24	20	18	18	7.8	7.8	5.8	6.3	3.1	3.9
AC-FT	2730	1940	1610	1430	1170	1320	870	1570	721	581	346	433

CAL YR 1980 TOTAL 24640.0 MEAN 67.3 MAX 1140 MIN 3.6 AC-FT 48870
WTR YR 1981 TOTAL 7421.0 MEAN 20.3 MAX 94 MIN 3.1 AC-FT 14720

09275000 WEST FORK DUCHESNE RIVER BELOW DRY HOLLOW, NEAR HANNA, UTAH

LOCATION.--Lat 40°26'55", long 110°58'30", in SW¼SW¼ sec.25, T.1 N., R.10 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060003, on right bank 300 ft (90 m) downstream from Dry Hollow, 5 mi (8 km) upstream from Wolf Creek, and 12 mi (19 km) northwest of Hanna.

DRAINAGE AREA.--43.8 mi^2 (113 km^2).

PERIOD OF RECORD.--August 1949 to September 1968, August 1974 to September 30, 1981 (discontinued).

REVISED RECORDS.--WDR UT-75-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,656 ft (233.4 m) from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--26 years (1950-68, 1975-81), 36.7 ft^3/s (1.039 m^3/s), 26,590 acre-ft/yr (32.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 740 ft^3/s (21.0 m^3/s) June 14, 1975, gage height, 4.65 ft (1.417 m); minimum, 2.6 ft^3/s (0.07 m^3/s) sometime between Dec. 20, 1956 and Mar. 7, 1957, from recorded range in stage, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 256 ft3/s (7.25 m^3/s) May 31, gage height, 3.24 ft (0.99 m), no peak above base of 300 ft^3/s (8.50 m^3/s); minimum, 5.5 ft^3/s (0.156 m^3/s) Apr. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	11	9.6	8.9	8.0	8.3	9.7	109	183	24	11	8.7
2	12	11	10	8.9	7.6	8.3	9.0	128	161	25	11	8.0
3	12	11	9.9	8.6	7.3	8.3	9.2	130	149	24	10	8.7
4	11	11	9.9	8.6	7.4	8.2	8.9	90	134	22	11	7.9
5	11	11	9.9	8.8	7.6	8.0	12	88	132	21	12	11
6	12	11	9.6	8.8	7.8	7.6	10	83	128	20	11	13
7	11	11	9.2	8.6	8.2	8.5	11	69	122	21	9.6	11
8	11	11	9.0	8.4	8.5	8.5	9.7	65	113	20	9.5	11
9	11	11	8.8	8.3	8.5	8.5	11	59	98	19	9.7	11
10	12	10	8.6	8.3	8.3	8.0	14	62	84	20	9.9	12
11	13	11	8.8	8.3	7.4	8.0	16	71	77	24	10	16
12	12	13	8.6	8.3	7.7	8.3	18	61	69	20	10	11
13	13	12	9.0	8.2	7.7	8.2	19	56	64	20	12	10
14	12	9.8	9.4	7.8	7.8	8.2	21	64	60	19	10	9.3
15	14	8.2	9.8	8.0	7.8	8.3	23	76	60	19	9.9	9.1
16	13	8.4	9.8	8.2	8.0	8.3	25	67	55	20	9.8	9.4
17	13	8.8	9.6	8.4	8.3	8.2	30	60	50	25	9.5	9.2
18	13	9.0	9.8	8.4	8.2	8.2	34	57	46	18	8.7	8.6
19	13	9.5	9.5	8.5	8.0	8.2	43	74	43	17	8.8	8.6
20	13	9.2	9.4	8.4	8.0	8.3	31	82	42	16	8.8	8.6
21	13	9.8	9.4	8.4	7.5	8.3	27	71	39	15	8.3	8.6
22	12	11	9.3	8.4	7.1	10	24	68	38	15	9.0	8.6
23	11	11	9.2	8.4	7.6	9.8	29	67	34	14	9.0	8.3
24	12	10	9.0	8.3	8.0	9.1	41	76	32	14	8.9	8.3
25	12	9.6	9.2	7.8	8.8	8.8	54	96	30	13	9.1	8.5
26	12	9.2	9.2	7.6	8.3	9.5	62	124	30	13	8.4	8.8
27	11	9.0	9.2	8.1	8.3	9.1	60	142	29	14	9.8	8.6
28	11	9.6	8.7	8.1	8.3	9.1	55	151	28	13	8.9	8.3
29	12	10	8.6	8.0	---	9.1	67	157	25	13	8.6	8.5
30	11	10	8.6	8.3	---	9.8	94	170	25	12	8.3	9.1
31	11	---	8.7	8.4	---	11	---	194	---	11	8.1	---
TOTAL	372	307.1	287.3	258.5	222.0	268.0	877.5	2867	2180	561	298.6	287.7
MEAN	12.0	10.2	9.27	8.34	7.93	8.65	29.3	92.5	72.7	18.1	9.63	9.59
MAX	14	13	10	8.9	8.8	11	94	194	183	25	12	16
MIN	11	8.2	8.6	7.6	7.1	7.6	8.9	56	25	11	8.1	7.9
AC-FT	738	609	570	513	440	532	1740	5690	4320	1110	592	571

CAL YR 1980 TOTAL 20453.7 MEAN 55.9 MAX 440 MIN 7.2 AC-FT 40570
WTR YR 1981 TOTAL 8786.7 MEAN 24.1 MAX 194 MIN 7.1 AC-FT 17430

09275500 WEST FORK DUCHESNE RIVER NEAR HANNA, UTAH

LOCATION.--Lat 40°27'01", long 110°53'01", in SE¼NE¼SE¼ sec.27, T.1 N., R.9 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank 1,500 ft (457 m) upstream from Wolf Creek, and 7.1 mi (11.4 km) northwest of Hanna.

DRAINAGE AREA.--61.6 mi^2 (159.6 km^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 (2,200 m) from topographic map. Prior to Oct. 1, 1923, nonrecording gages at approximately same site at different datums.

REMARKS.--Records good. One small diversion for irrigation of about 100 acres (405,000 hm^2) above station.

AVERAGE DISCHARGE.--37 years (1922-23, 1945-81), 47.7 ft^3/s (1.35 m^3/s), 34,560 acre-ft/yr (42.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 758 ft^3/s (21.5 m^3/s) June 5, 1967, maximum gage height, 4.40 ft (1.341 m) June 4, 1952; minimum discharge recorded, 0.19 ft^3/s (0.005 m^3/s) Mar. 29, 1975, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 242 ft^3/s (6.85 m^3/s) May 31, gage height, 2.66 ft (0.81 m), no peak above base of 300 ft^3/s (8.5 m^3/s); minimum, 10.4 ft^3/s (0.29 m^3/s) April 5, gage height, 1.12 (0.34 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	21	18	19	19	18	19	118	183	35	17	18
2	26	22	19	19	18	18	20	137	170	35	17	17
3	26	21	19	19	17	18	20	152	167	35	17	18
4	25	22	19	19	17	18	18	94	142	32	17	17
5	25	21	19	19	18	17	20	102	144	32	19	23
6	25	21	19	19	18	16	20	100	137	31	18	29
7	24	22	18	19	19	17	21	84	135	32	17	28
8	25	22	18	19	20	19	19	81	123	29	17	26
9	24	21	17	18	21	19	22	72	109	28	16	25
10	23	20	17	18	19	19	26	74	96	28	17	25
11	25	21	18	18	18	18	28	84	90	34	19	32
12	24	24	17	18	19	18	29	74	80	30	19	25
13	25	24	18	18	19	19	31	66	77	29	21	24
14	26	19	19	17	19	19	33	72	75	29	20	23
15	28	16	19	18	18	19	37	88	71	29	21	20
16	27	17	19	19	19	19	37	79	67	30	21	19
17	27	18	20	19	20	19	42	74	64	36	20	20
18	26	19	20	19	20	19	45	69	61	30	18	19
19	25	18	20	20	19	19	60	82	55	29	18	19
20	25	18	20	20	18	19	48	94	51	28	18	18
21	24	19	20	20	17	20	42	86	51	27	17	19
22	23	20	19	20	16	22	38	81	48	25	18	19
23	21	20	18	20	17	22	40	77	44	22	18	18
24	21	19	17	19	18	21	53	82	41	20	18	19
25	21	18	18	19	19	19	67	98	40	21	17	19
26	23	18	19	18	19	20	77	132	40	20	15	19
27	23	17	20	18	19	21	75	147	38	20	18	18
28	20	18	19	19	18	19	67	162	38	19	18	18
29	21	19	19	19	---	19	79	160	35	19	17	18
30	22	19	18	19	---	20	102	170	35	18	17	19
31	22	---	18	19	---	22	---	189	---	17	17	---
TOTAL	748	594	578	584	518	592	1235	3180	2507	849	557	631
MEAN	24.1	19.8	18.6	18.8	18.5	19.1	41.2	103	83.6	27.4	18.0	21.0
MAX	28	24	20	20	21	22	102	189	183	36	21	32
MIN	20	16	17	17	16	16	18	66	35	17	15	17
AC-FT	1480	1180	1150	1160	1030	1170	2450	6310	4970	1680	1100	1250

CAL YR 1980 TOTAL 24759 MEAN 67.6 MAX 449 MIN 10 AC-FT 49110
WTR YR 1981 TOTAL 12573 MEAN 34.4 MAX 189 MIN 15 AC-FT 24940

09276000 WOLF CREEK ABOVE RHOADES CANYON, NEAR HANNA, UTAH

LOCATION.--Lat 40°28'16", long 110°55'05", in NE¼SW¼NW¼ sec.21, T.1 N., R.9 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060003, Wasatch National Forest, on left bank 1.5 mi (2.4 km) upstream from Rhoades Canyon, 2.8 mi (4.5 km) upstream from mouth, and 9 mi (14 km) northwest of Hanna.

DRAINAGE AREA.--10.6 mi^2 (27.5 km^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 (2,359 m) from topographic map.

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

AVERAGE DISCHARGE.--36 years, 7.40 ft^3/s (0.210 m^3/s) 5,360 acre-ft/yr (6.61 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 82 ft^3/s (2.32 m^3/s) June 8, 1952, gage height, 2.64 ft (0.805 m); minimum, 0.2 ft^3/s (0.01 m^3/s) sometime during Jan. 2-31, 1962, probably result of temporary obstruction upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 25 ft^3/s (0.71 m^3/s), 41 ft^3/s (1.16 m^3/s) June 5, gage height, 2.33 ft (0.710 m); minimum, 2.2 ft^3/s (0.062 m^3/s) Mar. 27, Apr. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	5.0	4.8	3.9	3.4	4.1	3.0	12	26	8.4	5.5	4.6
2	5.6	5.0	4.7	3.9	3.4	4.1	3.1	17	25	8.6	5.5	4.7
3	5.6	5.0	4.7	3.9	3.4	3.9	3.0	17	25	8.4	5.5	4.7
4	5.6	5.0	4.7	3.9	3.4	3.8	3.0	13	23	8.4	5.5	4.7
5	5.6	5.0	4.7	3.6	3.4	3.5	3.0	12	25	8.1	5.5	4.8
6	5.6	5.0	4.7	3.5	3.4	3.2	3.0	11	27	8.1	5.4	5.4
7	5.6	5.0	4.7	3.5	3.4	3.2	3.0	9.0	25	8.0	5.4	5.1
8	5.6	5.0	4.6	3.4	3.4	3.2	2.8	8.4	25	7.9	5.3	5.0
9	5.6	4.9	4.6	3.4	3.4	3.2	3.2	7.3	25	7.9	5.4	5.0
10	5.6	4.9	4.4	3.4	3.4	3.2	3.2	6.7	22	7.8	5.3	5.1
11	5.6	4.8	4.3	3.4	3.4	3.2	3.2	7.4	20	8.0	5.6	5.5
12	5.6	5.0	4.3	3.4	3.4	3.2	3.5	7.0	20	7.9	5.5	4.9
13	5.6	4.8	4.3	3.4	3.4	3.2	3.9	6.5	18	7.8	5.4	4.8
14	5.9	4.7	4.3	3.4	3.5	3.2	3.8	6.7	17	7.7	5.3	4.8
15	6.0	4.7	4.3	3.4	3.6	3.2	3.9	8.1	16	7.7	5.2	4.9
16	5.9	4.9	4.3	3.4	3.7	3.2	3.8	7.8	14	7.6	4.7	5.0
17	5.9	4.9	4.3	3.4	3.7	3.2	3.7	7.3	14	7.4	4.9	4.8
18	5.9	4.9	4.3	3.4	3.9	3.2	3.8	7.0	15	7.3	5.1	4.8
19	5.6	4.9	4.1	3.4	3.9	3.2	4.7	8.3	17	7.0	5.1	4.8
20	5.6	4.9	4.1	3.4	3.9	3.1	4.7	10	16	6.7	5.0	4.8
21	5.6	4.8	4.1	3.4	3.9	3.1	4.3	9.3	16	6.5	5.0	4.8
22	5.5	4.8	4.1	3.4	3.9	2.9	4.0	8.5	15	6.9	5.1	4.7
23	5.3	5.0	4.1	3.3	3.9	3.1	3.9	8.1	15	6.5	5.0	4.7
24	5.3	5.0	4.1	3.4	4.1	3.2	4.0	9.0	15	6.0	5.0	4.8
25	5.3	4.8	4.1	3.2	4.1	3.2	4.7	12	14	5.9	4.8	4.9
26	5.3	4.7	3.9	3.2	4.1	3.2	5.1	15	14	5.9	4.6	4.9
27	5.3	4.7	3.9	3.2	4.1	3.0	6.2	18	14	5.9	4.4	4.7
28	5.3	4.7	3.9	3.3	4.1	3.1	6.2	21	12	5.8	4.4	4.7
29	5.3	4.7	3.9	3.4	---	3.2	6.2	22	11	5.7	4.6	4.8
30	5.2	4.7	3.9	3.6	---	3.0	5.8	24	8.4	5.7	4.6	5.0
31	5.0	---	3.9	3.4	---	3.0	---	27	---	5.4	4.6	---
TOTAL	172.0	146.2	133.1	107.2	102.6	101.3	119.7	363.4	549.4	222.9	158.2	146.2
MEAN	5.55	4.87	4.29	3.46	3.66	3.27	3.99	11.7	18.3	7.19	5.10	4.87
MAX	6.0	5.0	4.8	3.9	4.1	4.1	6.2	27	27	8.6	5.6	5.5
MIN	5.0	4.7	3.9	3.2	3.4	2.9	2.8	6.5	8.4	5.4	4.4	4.6
AC-FT	341	290	264	213	204	201	237	721	1090	442	314	290

CAL YR 1980 TOTAL 2809.1 MEAN 7.68 MAX 52 MIN 2.4 AC-FT 5570
WTR YR 1981 TOTAL 2322.2 MEAN 6.36 MAX 27 MIN 2.8 AC-FT 4610

09277500 DUCHESNE RIVER NEAR TABIONA, UTAH

LOCATION.--Lat 40°18'01", long 110°36'06", in SE¼SW¼SE¼ 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 (10 km) upstream from Rock Creek, and 7 mi (11 km) southeast of Tabiona.

DRAINAGE AREA.--356 mi^2 (922 km^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 (1,887 m) 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 (0.8 km) upstream at various datums. Nov. 7, 1953 to Nov. 7, 1972, at site 1 mi (2 km) upstream at different datum.

REMARKS.--Records fair. Several diversions above station for irrigation, including a transmountain diversion through Duchesne Tunnel 20 mi (32 km) upstream.

AVERAGE DISCHARGE.--63 years, 197 ft^3/s (5.578 m^3/s), 142,700 acre-ft/yr (176 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,260 ft^3/s (149 m^3/s) June 16, 1963, gage height, 7.97 ft (2.429 m) from floodmarks, caused by failure of Little Deer Creek Dam 20 mi (32 km) upstream from rating curve extended above 400 ft^3/s (11.3 m^3/s) on basis of slope-area measurement and area-velocity study of peak flow; minimum recorded, 27 ft^3/s (0.76 m^3/s) Oct. 17, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge and peak above base of 900 ft^3/s (25.5 m^3/s), 980 ft^3/s (27.8 m^3/s) June 7; minimum daily, 52 ft^3/s (1.47 m^3/s) Aug. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	125	114	102	98	90	92	275	970	157	67	74
2	106	123	114	108	98	94	94	335	940	160	66	64
3	106	123	117	104	98	96	90	360	890	155	61	64
4	104	123	114	110	94	90	83	255	840	137	58	66
5	96	121	117	98	96	92	79	240	900	128	59	79
6	94	123	117	94	94	94	90	163	960	130	56	90
7	81	121	110	96	92	94	90	130	980	132	53	104
8	74	123	98	98	96	94	86	110	970	137	53	104
9	66	123	104	98	96	92	85	85	920	168	52	102
10	64	121	110	102	88	90	94	76	795	171	55	96
11	62	119	112	94	92	86	98	81	720	182	55	125
12	66	123	112	94	104	92	100	74	590	163	59	110
13	74	130	106	94	88	92	104	64	290	157	64	104
14	79	119	108	92	94	90	106	74	260	142	64	104
15	128	108	112	96	92	85	121	147	235	134	70	100
16	130	117	112	94	92	90	125	160	215	123	77	96
17	125	114	114	100	96	88	125	144	200	132	76	104
18	121	117	114	98	94	79	134	123	190	125	74	102
19	134	117	117	96	96	88	174	134	168	117	72	102
20	132	119	106	102	90	90	168	171	160	110	70	98
21	132	119	114	94	86	86	144	200	147	106	72	100
22	130	125	114	96	88	81	132	174	142	102	85	85
23	128	123	112	96	92	86	125	147	147	90	77	88
24	125	125	104	102	94	86	137	145	179	88	83	114
25	130	114	114	92	94	86	160	165	171	88	77	110
26	130	117	112	90	98	85	177	250	155	83	72	112
27	130	114	108	100	94	96	182	330	150	83	74	108
28	128	121	106	100	88	94	149	400	144	79	76	104
29	125	119	102	98	---	92	132	470	137	79	79	102
30	128	119	100	102	---	104	157	810	137	74	79	98
31	125	---	106	94	---	90	---	910	---	70	79	---
TOTAL	3359	3605	3420	3034	2622	2792	3633	7202	13702	3802	2114	2909
MEAN	108	120	110	97.9	93.6	90.1	121	232	457	123	68.2	97.0
MAX	134	130	117	110	104	104	182	910	980	182	85	125
MIN	62	108	98	90	86	79	79	64	137	70	52	64
AC-FT	6660	7150	6780	6020	5200	5540	7210	14290	27180	7540	4190	5770

CAL YR 1980 TOTAL 88076 MEAN 241 MAX 1680 MIN 62 AC-FT 174700
WTR YR 1981 TOTAL 52194 MEAN 143 MAX 980 MIN 52 AC-FT 103500

09277800 ROCK CREEK ABOVE SOUTH FORK, NEAR HANNA, UTAH

LOCATION.--Lat 40°33'27", long 110°41'50", in NE¼ sec.20, T.2 N., R.7 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 1,000 ft (305 m) downstream from Upper Stillwater campground horse-trail bridge, 0.9 mi (1.4 km) upstream from South Fork, and 11.2 mi (18.0 km) north of Hanna.

DRAINAGE AREA.--98.9 mi^2 (256.2 km^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 (2,429 m) (levels by Bureau of Reclamation).

REMARKS.--Records good.

AVERAGE DISCHARGE.--16 years, 133 ft^3/s (3.766 m^3/s), 96,400 acre-ft/yr (119 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,760 ft^3/s (78.2 m^3/s) June 17, 1971, gage height, 4.95 ft (1.509 m); minimum measured, 6.9 ft^3/s (0.20 m^3/s) Dec. 23, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 1,000 ft^3/s (28.3 m^3/s), 1,470 ft^3/s (41.6 m^3/s) June 8, gage height, 4.45 ft (1.36 m); minimum, 13 ft^3/s (0.37 m^3/s) Mar. 15 and 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	35	27	22	18	18	21	261	851	136	49	34
2	35	35	25	22	18	17	21	354	820	163	48	33
3	35	34	27	22	17	17	21	397	731	146	46	33
4	34	35	27	21	17	17	20	335	754	127	44	33
5	34	36	28	20	18	18	24	293	883	115	43	52
6	34	37	28	19	18	18	21	249	1080	110	41	63
7	33	38	29	20	18	19	21	208	1180	108	40	55
8	33	39	29	20	18	20	21	187	1140	101	40	56
9	32	36	29	20	18	19	22	165	1060	112	39	49
10	32	35	28	20	18	17	26	152	864	134	40	50
11	32	35	29	20	17	17	28	165	766	128	47	51
12	32	39	29	19	18	17	31	146	670	121	44	45
13	40	38	29	19	18	17	35	132	539	110	59	42
14	44	28	29	19	18	17	40	142	434	96	60	40
15	50	26	27	20	18	17	46	169	365	89	49	39
16	52	27	26	19	18	17	44	156	324	85	46	38
17	47	27	25	20	20	17	54	142	314	92	43	37
18	46	29	24	18	19	17	66	132	283	85	43	36
19	44	30	24	18	18	18	82	148	277	79	42	35
20	45	32	23	19	18	18	64	169	283	73	43	34
21	44	29	23	17	17	18	56	156	274	69	47	35
22	44	28	23	17	17	18	54	146	249	66	51	34
23	35	27	24	17	18	18	63	138	230	64	42	34
24	37	30	22	18	18	18	85	150	210	65	40	34
25	37	28	24	16	17	18	107	185	194	65	39	38
26	39	27	24	17	17	17	130	261	183	63	39	40
27	37	26	24	18	18	19	130	357	178	63	38	36
28	34	28	23	20	18	19	121	442	169	58	38	34
29	37	28	22	18	---	20	144	494	154	55	37	33
30	37	27	22	18	---	21	189	618	142	53	35	32
31	36	---	22	18	---	23	---	754	---	51	35	---
TOTAL	1187	949	795	591	500	561	1787	7803	15601	2882	1347	1205
MEAN	38.3	31.6	25.6	19.1	17.9	18.1	59.6	252	520	93.0	43.5	40.2
MAX	52	39	29	22	20	23	189	754	1180	163	60	63
MIN	32	26	22	16	17	17	20	132	142	51	35	32
AC-FT	2350	1880	1580	1170	992	1110	3540	15480	30940	5720	2670	2390

CAL YR 1980 TOTAL 58449 MEAN 160 MAX 1670 MIN 14 AC-FT 115900
WTR YR 1981 TOTAL 35208 MEAN 96.5 MAX 1180 MIN 16 AC-FT 69840

09278000 SOUTH FORK ROCK CREEK NEAR HANNA, UTAH

LOCATION.--Lat 40°32'54", long 110°41'37", in SW¼SW¼SW¼ sec.21, T.2 N., R.7 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 175 ft (53 m) upstream from road bridge, 0.5 mi (0.8 km) upstream from mouth, and 10.6 mi (17.1 km) northeast of Hanna.

DRAINAGE AREA.--15.7 mi^2 (40.7 km^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 (2,396 m) from river-profile map. Prior to July 23 at site 75 ft (23 m) downstream at different gage datum.

REMARKS.--Records good except those of no gage-height record, Dec. 10 to Jan. 27, which are poor. Pipeline capacity approximately 1.5 ft^3/s (0.042 m^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.--28 years, 12.9 ft^3/s (0.365 m^3/s), 9,350 acre-ft/yr (11.5 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 189 ft^3/s (5.35 m^3/s) June 16, 1975, gage height, 2.43 ft (0.741 m); maximum gage height, 2.91 ft (0.887 m) Nov. 20, 1959 (backwater from ice); 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 (1.70 m^3/s), 80 ft^3/s (2.27 m^3/s) June 9, gage height, 2.36 ft (0.719 m); minimum daily, 2.6 ft^3/s (0.074 m^3/s) several days during Feb. and Mar.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	5.6	4.4	3.7	2.8	2.7	2.7	32	61	24	6.9	4.5
2	6.7	5.5	4.2	3.6	2.8	2.7	2.7	38	58	24	6.8	4.5
3	6.7	5.5	4.2	3.6	2.8	2.7	2.7	38	54	24	6.6	4.5
4	6.7	5.5	4.3	3.5	2.8	2.7	2.7	32	53	22	6.4	4.4
5	6.7	5.5	4.4	3.5	2.7	2.7	3.1	27	58	21	6.1	7.6
6	6.7	5.6	4.2	3.3	2.7	2.7	2.7	24	60	20	6.0	6.6
7	6.7	5.6	4.2	3.3	2.7	2.7	2.7	21	64	20	5.9	6.3
8	6.4	5.5	4.2	3.3	2.7	2.7	2.7	20	66	20	5.7	6.9
9	6.2	5.4	4.2	3.3	2.7	2.6	2.9	18	73	21	5.6	6.1
10	6.2	5.2	4.2	3.2	2.7	2.6	3.2	17	66	22	5.8	6.5
11	6.2	5.2	4.0	3.2	2.6	2.6	3.3	18	61	20	5.8	5.7
12	6.4	5.9	3.9	3.1	2.7	2.6	3.7	16	59	20	6.1	5.3
13	7.4	5.4	4.0	3.1	2.7	2.6	4.2	15	56	18	6.4	5.1
14	7.6	5.0	4.1	3.1	2.7	2.6	4.9	16	49	17	5.7	4.9
15	7.9	4.4	4.0	3.1	2.7	2.6	5.2	17	47	16	5.4	4.8
16	7.6	4.4	4.0	3.0	2.7	2.6	5.5	16	45	16	5.3	4.7
17	7.1	4.5	3.9	3.0	2.7	2.6	7.0	15	43	16	5.1	4.6
18	7.0	4.6	3.8	3.0	2.7	2.6	8.3	15	40	15	5.2	4.5
19	7.2	4.8	3.8	3.0	2.7	2.6	9.8	16	39	15	5.4	4.5
20	7.2	4.9	3.7	3.0	2.7	2.6	6.2	16	38	14	5.1	4.5
21	6.7	5.0	3.7	3.0	2.7	2.6	5.5	15	36	14	6.6	4.5
22	6.7	4.8	3.6	2.9	2.7	2.6	6.2	14	35	12	7.2	4.5
23	6.2	4.7	3.7	2.9	2.7	2.7	9.0	13	35	9.8	5.6	4.4
24	5.6	4.6	3.8	2.9	2.7	2.7	13	14	35	9.6	5.3	4.7
25	5.8	4.4	3.8	2.9	2.7	2.7	18	18	32	9.3	5.1	5.1
26	6.0	4.3	3.8	2.9	2.7	2.6	20	26	32	8.9	5.1	4.7
27	6.1	4.2	3.8	2.9	2.7	2.7	20	36	30	8.6	5.1	4.5
28	6.0	4.3	3.8	2.8	2.7	2.6	20	42	29	8.1	4.9	4.4
29	5.6	4.5	3.8	2.8	---	2.7	24	43	27	7.6	4.7	4.4
30	5.8	4.5	3.8	2.8	---	2.7	30	46	26	7.3	4.7	4.2
31	5.8	---	3.8	2.9	---	2.7	---	59	---	7.0	4.6	---
TOTAL	203.6	149.3	123.1	96.6	75.9	82.1	251.9	753	1407	487.2	176.2	151.9
MEAN	6.57	4.98	3.97	3.12	2.71	2.65	8.40	24.3	46.9	15.7	5.68	5.06
MAX	7.9	5.9	4.4	3.7	2.8	2.7	30	59	73	24	7.2	7.6
MIN	5.6	4.2	3.6	2.8	2.6	2.6	2.7	13	26	7.0	4.6	4.2
AC-FT	404	296	244	192	151	163	500	1490	2790	966	349	301

CAL YR 1980 TOTAL 6236.9 MEAN 17.0 MAX 138 MIN 2.2 AC-FT 12370
WTR YR 1981 TOTAL 3957.8 MEAN 10.8 MAX 73 MIN 2.6 AC-FT 7850

09278500 ROCK CREEK NEAR HANNA, UTAH

LOCATION.--Lat 40°32'44", long 110°39'20", in NE¼NE¼NE¼ sec.26, T.2 N., R.7 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 1.2 mi (1.9 km) downstream from South Fork and 11.5 mi (18.5 km) northeast of Hanna.

DRAINAGE AREA.--122 mi^2 (316 km^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 (2,323 m) from river-profile map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--27 years (1950-69, 1975-81), 149 ft^3/s (4.220 m^3/s), 108,000 acre-ft/yr (133 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,540 ft^3/s (71.9 m^3/s) June 13, 1953, gage height, 8.60 ft (2.621 m); minimum recorded, 4.4 ft^3/s (0.12 m^3/s) Feb. 7, 1977, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,280 ft^3/s (36.2 m^3/s) June 7. Base discharge, 1,000 ft^3/s (28.3 m^3/s); minimum, 12 ft^3/s (1.0 m^3/s) Mar. 11, 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	45	34	28	24	23	29	260	880	164	64	44
2	46	46	34	28	23	23	28	365	900	188	62	43
3	46	45	34	27	23	23	27	420	810	178	61	43
4	45	45	34	27	23	24	25	345	789	154	60	42
5	45	45	34	26	24	24	28	300	930	142	58	63
6	43	47	33	26	24	23	29	274	1130	133	58	78
7	43	48	31	26	23	24	29	232	1280	133	56	69
8	43	49	29	26	23	25	28	209	1250	126	54	72
9	43	46	30	26	23	23	30	188	1180	132	53	64
10	42	45	31	27	22	23	35	176	968	161	53	65
11	41	46	31	24	22	23	39	188	846	154	61	64
12	42	51	31	24	22	23	41	166	720	145	60	58
13	53	45	32	24	24	22	47	157	611	135	75	54
14	57	30	33	24	24	22	53	164	484	120	77	52
15	64	26	35	26	24	23	62	190	411	110	62	49
16	65	33	32	23	24	22	59	178	360	105	59	48
17	60	33	32	25	24	22	70	164	340	114	55	47
18	58	36	31	25	24	24	82	155	310	107	55	46
19	58	38	31	24	24	24	103	168	300	99	55	45
20	62	36	31	24	23	24	78	190	300	93	56	44
21	57	34	30	24	23	24	69	176	300	89	58	44
22	58	36	30	24	24	25	65	166	280	84	68	44
23	42	34	30	23	24	24	76	157	260	81	55	42
24	47	38	33	23	24	25	102	174	246	81	53	44
25	48	35	30	21	23	24	124	190	227	81	50	48
26	50	36	30	23	22	24	154	260	216	79	50	50
27	48	36	30	23	23	24	152	340	211	80	50	45
28	43	36	30	23	23	25	138	450	201	74	50	42
29	47	35	28	24	---	28	166	510	184	71	48	41
30	47	35	28	24	---	29	300	630	172	68	47	40
31	46	---	28	24	---	29	---	785	---	66	46	---
TOTAL	1536	1190	970	766	653	745	2268	8327	17096	3547	1769	1530
MEAN	49.5	39.7	31.3	24.7	23.3	24.0	75.6	269	570	114	57.1	51.0
MAX	65	51	35	28	24	29	300	785	1280	188	77	78
MIN	41	26	28	21	22	22	25	155	172	66	46	40
AC-FT	3050	2360	1920	1520	1300	1480	4500	16520	33910	7040	3510	3030

CAL YR 1980 TOTAL 60925 MEAN 166 MAX 1640 MIN 18 AC-FT 120800
WTR YR 1981 TOTAL 40397 MEAN 111 MAX 1280 MIN 21 AC-FT 80130

09278700 ROCK CREEK BELOW MINERS GULCH, NEAR HANNA, UTAH

LOCATION.--Lat 40°31'57", long 110°37'22", in NW¼NE¼NE¼ sec.36, T.2 N., R.7 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank 500 ft (152 m) below Miners Gulch, 2.5 mi (4.0 km) upstream from Peterson Gulch and 11.0 mi (17.7 km) northeast of Hanna, Utah.

DRAINAGE AREA.--133 mi^2 (344 km^2).

PERIOD OF RECORD.--August 1974 to September 1981 (discontinued).

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

GAGE.--Water-stage recorder. Datum of gage is 7,470 ft (2,277 m) from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--7 years, 121 ft^3/s (3.427 m^3/s), 87,660 acre-ft/yr (108 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,090 ft^3/s (59.2 m^3/s) June 15, 1975, gage height, 5.45 ft (1.661 m) result of discharge measurement; minimum observed, 5.3 ft^3/s (0.15 m^3/s) Dec. 23, 1976, result of discharge measurement.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,270 ft^3/s (36.0 m^3/s) June 7. Base discharge, 1,000 ft^3/s (28.3 m^3/s); minimum daily, 18 ft^3/s (0.51 m^3/s) Feb. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	43	32	24	20	20	25	250	860	160	62	42
2	44	45	32	24	20	20	21	352	880	185	60	40
3	44	42	30	24	19	20	22	397	780	175	59	40
4	43	44	30	23	19	20	22	340	770	150	58	40
5	42	42	31	23	19	20	25	295	910	140	56	58
6	41	43	31	22	19	21	22	270	1120	130	56	75
7	41	45	30	23	19	21	23	225	1270	130	54	67
8	40	45	29	23	20	21	22	200	1240	123	52	70
9	39	43	29	23	20	20	24	180	1170	129	50	62
10	39	42	30	23	20	19	31	170	957	158	50	63
11	39	43	31	23	19	19	34	180	845	150	58	62
12	39	48	33	23	18	19	37	160	715	140	57	56
13	52	46	32	22	20	19	43	150	605	130	72	52
14	57	33	32	22	21	20	49	160	480	115	74	50
15	63	36	32	22	21	20	61	185	405	105	59	47
16	66	36	30	21	21	20	56	170	355	100	56	46
17	59	37	29	21	21	20	68	160	335	110	52	45
18	58	38	28	21	21	20	84	150	305	102	52	44
19	54	43	27	21	21	20	100	160	295	94	52	43
20	57	34	26	21	20	19	75	185	295	90	53	42
21	57	33	25	20	20	20	65	170	295	85	55	42
22	57	32	26	20	21	20	60	160	275	80	65	42
23	42	32	26	20	21	20	72	150	255	78	52	40
24	46	31	26	20	20	19	100	170	240	78	50	42
25	47	32	27	20	20	19	120	185	220	78	47	46
26	50	31	27	19	20	19	150	255	210	75	47	48
27	47	31	26	19	20	20	148	335	205	75	47	43
28	40	34	25	19	20	21	134	445	195	70	47	40
29	46	34	24	19	---	21	162	505	180	66	45	39
30	46	33	24	20	---	23	195	625	165	64	44	38
31	45	---	25	20	---	24	---	780	---	62	43	---
TOTAL	1485	1151	885	665	560	624	2050	8119	16832	3427	1684	1464
MEAN	47.9	38.4	28.5	21.5	20.0	20.1	68.3	262	561	111	54.3	48.8
MAX	66	48	33	24	21	24	195	780	1270	185	74	75
MIN	39	31	24	19	18	19	21	150	165	62	43	38
AC-FT	2950	2280	1760	1320	1110	1240	4070	16100	33390	6800	3340	2900

CAL YR 1980 TOTAL 58487 MEAN 160 MAX 1650 MIN 14 AC-FT 116000
WTR YR 1981 TOTAL 38946 MEAN 107 MAX 1270 MIN 18 AC-FT 77250

09279000 ROCK CREEK NEAR MOUNTAIN HOME, UTAH

LOCATION.--Lat 40°29'36", long 110°34'39", in SE¼NW¼SW¼ 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 (0.2 km) upstream from Corral Creek, 6.8 mi (10.9 km) downstream from South Fork, and 11.9 mi (19.1 km) northwest of Mountain Home.

DRAINAGE AREA.--147 mi^2 (381 km^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 (2,210 m) from river-profile map. Prior to Apr. 12, 1939, nonrecording gage at site 300 ft (91 m) upstream at different datum.

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

AVERAGE DISCHARGE.--44 years, 128 ft^3/s (3.625 m^3/s), 121,700 acre-ft/yr (150 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,920 ft^3/s (82.7 m^3/s) June 18, 1971, gage height, 5.98 ft (1.823 m); maximum gage height, 6.02 ft (1.835 m) June 14, 1953; minimum recorded, 7 ft^3/s (0.2 m^3/s) Mar. 13, 1940, Mar. 20, 1942 (probably caused by ice jams above station).

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 1,200 ft^3/s (34 m^3/s), 1,570 ft^3/s (44.5 m^3/s) June 7, gage height, 4.76 ft (1.451 m); minimum, 27 ft^3/s (0.765 m^3/s) Mar. 18 and 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	62	51	44	44	40	45	272	908	175	83	61
2	67	64	52	44	44	40	44	360	936	193	81	60
3	66	60	52	44	42	40	43	416	810	195	79	59
4	65	62	52	43	42	41	42	344	804	173	76	59
5	64	62	52	42	43	41	42	307	943	163	75	71
6	63	63	50	42	43	40	44	277	1260	156	73	100
7	63	64	46	41	41	42	44	237	1390	152	72	86
8	62	65	44	42	42	41	43	220	1360	144	72	90
9	61	63	43	42	42	40	44	198	1270	142	72	84
10	60	61	44	42	40	40	49	182	998	184	71	83
11	60	62	47	42	43	39	52	195	859	171	78	85
12	61	69	47	41	44	39	54	180	738	163	80	78
13	70	67	48	40	43	39	60	165	613	158	88	74
14	78	54	50	40	43	39	64	167	496	140	94	71
15	87	43	53	41	43	40	78	193	417	129	88	68
16	85	49	52	39	43	40	72	191	362	124	78	67
17	80	49	51	42	43	40	80	178	346	131	72	66
18	78	51	50	43	42	40	92	167	315	126	72	64
19	75	54	49	41	42	41	116	171	306	117	72	62
20	76	53	48	43	41	40	99	200	309	110	74	62
21	74	51	47	41	40	41	88	191	306	107	79	62
22	75	54	47	41	42	41	80	182	303	102	85	62
23	61	52	46	41	41	41	86	173	280	99	78	60
24	64	55	48	40	41	40	108	182	261	97	69	61
25	67	52	47	39	41	40	133	210	242	98	67	65
26	69	54	47	41	40	40	159	283	230	99	66	69
27	67	53	47	41	41	43	165	346	220	98	67	64
28	59	54	47	42	40	42	155	457	207	92	67	60
29	64	54	45	43	---	44	169	519	198	90	66	59
30	66	53	46	43	---	48	208	635	186	88	64	57
31	64	---	45	43	---	45	---	792	---	85	63	---
TOTAL	2118	1709	1493	1293	1176	1267	2558	8590	17873	4101	2321	2069
MEAN	68.3	57.0	48.2	41.7	42.0	40.9	85.3	277	596	132	74.9	69.0
MAX	87	69	53	44	44	48	208	792	1390	195	94	100
MIN	59	43	43	39	40	39	42	165	186	85	63	57
AC-FT	4200	3390	2960	2560	2330	2510	5070	17040	35450	8130	4600	4100

CAL YR 1980 TOTAL 64380 MEAN 176 MAX 1550 MIN 35 AC-FT 127700
WTR YR 1981 TOTAL 46568 MEAN 128 MAX 1390 MIN 39 AC-FT 92370

09279100 ROCK CREEK NEAR TALMAGE, UTAH

LOCATION.--Lat 40°18'40", long 110°29'36", in SE¼NE¼NW¼ 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 (2.4 km) upstream from mouth, 4.1 mi (6.6 km) southwest of Talmage and 11.1 mi (17.9 km) northwest of Duchesne.

DRAINAGE AREA.--238 mi^2 (616 km^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 (1,865.16 m) NGVD of 1929.

REMARKS.--Records good except those of ice-affected period, Jan. 6 to Feb. 19, which are poor.

AVERAGE DISCHARGE.--18 years, 177 ft^3/s (5.013 m^3/s), 128,200 acre-ft/yr (158 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,320 ft^3/s (65.7 m^3/s) July 29, 1968, gage height, 4.37 ft (1.332 m); minimum recorded, 6.0 ft^3/s (0.17 m^3/s) Nov. 28, 1976, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 1,200 ft^3/s (34.0 m^3/s), 1,540 ft^3/s (43.6 m^3/s) June 9, gage height, 3.47 ft (1.058 m), minimum daily, 44 ft^3/s (1.25 m^3/s) Mar. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	75	70	58	57	46	55	288	978	213	101	77
2	70	73	67	56	56	50	53	373	1010	220	99	76
3	70	73	66	53	55	48	53	450	888	239	95	75
4	70	73	63	56	55	46	50	388	867	206	91	73
5	68	73	64	50	56	50	46	354	970	192	88	93
6	68	75	63	50	54	48	55	318	1160	182	87	128
7	68	75	61	51	53	48	53	275	1330	182	86	111
8	66	75	58	51	55	48	51	259	1310	171	86	116
9	66	75	59	51	54	50	50	235	1320	165	86	106
10	66	75	60	51	54	50	56	217	1100	217	93	99
11	66	73	62	52	54	50	60	228	962	206	103	105
12	66	77	64	51	55	48	63	213	874	199	101	94
13	76	85	66	50	54	46	66	195	741	195	117	89
14	90	73	70	50	54	46	73	199	578	168	126	84
15	117	55	72	52	54	46	92	220	507	159	109	78
16	107	64	71	51	54	50	90	224	445	156	104	76
17	97	62	70	51	54	46	92	209	423	159	97	75
18	92	63	69	53	54	44	104	195	388	156	96	73
19	90	66	67	52	52	51	137	199	373	144	95	71
20	90	69	65	53	51	48	129	228	368	133	96	69
21	87	66	64	52	51	48	109	224	363	126	95	70
22	85	67	61	52	49	46	97	213	340	123	115	70
23	82	68	59	52	51	50	99	199	318	121	101	68
24	72	68	58	52	48	48	120	202	300	120	96	98
25	75	67	58	51	48	46	149	228	279	123	91	75
26	77	70	58	52	48	48	178	294	267	121	89	78
27	78	67	58	52	46	56	199	403	263	122	87	72
28	73	68	58	53	46	51	185	495	255	115	88	68
29	73	69	55	54	---	53	195	548	239	110	85	66
30	79	70	56	56	---	61	232	678	224	107	83	66
31	75	---	56	56	---	53	---	832	---	104	81	---
TOTAL	2429	2109	1948	1624	1472	1519	2991	9583	19440	4954	2967	2499
MEAN	78.4	70.3	62.8	52.4	52.6	49.0	99.7	309	648	160	95.7	83.3
MAX	117	85	72	58	57	61	232	832	1330	239	126	128
MIN	66	55	55	50	46	44	46	195	224	104	81	66
AC-FT	4820	4180	3860	3220	2920	3010	5930	19010	38560	9830	5890	4960

CAL YR 1980 TOTAL 70398 MEAN 192 MAX 1460 MIN 47 AC-FT 139600
WTR YR 1981 TOTAL 53535 MEAN 147 MAX 1330 MIN 44 AC-FT 106200

09279150 DUCHESNE RIVER ABOVE KNIGHT DIVERSION, NEAR DUCHESNE, UTAH

LOCATION.--Lat 40°16'14", long 110°26'31", in NE¼NW¼NW¼ sec.34, T.2 S., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank 50 ft (15 m) downstream from bridge on State Highway 35, 1.7 mi (2.7 km) upstream from Knight diversion dam, 3.9 mi (6.3 km) downstream from Rock Creek, and 7.7 mi (12.4 km) north-northwest of Duchesne.

DRAINAGE AREA.--623 mi^2 (1,614 km^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 (1,780 m) from topographic map. Prior to Apr. 25, 1973, at site 150 ft (46 m) 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.--11 years, 331 ft^3/s (9.373 m^3/s), 239,810 acre-ft/yr (296 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,150 ft^3/s (118 m^3/s) June 16, 1975, gage height, 6.99 ft (2.131 m); minimum, 37 ft^3/s (1.05 m^3/s) Jan. 31, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,400 ft^3/s (39.6 m^3/s), and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
June 2	0930	1930	54.7	5.95	1.814
June 8	0830	*2090	59.2	6.07	1.850

Minimum discharge, 81 ft^3/s (2.29 m^3/s) Feb. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168	226	196	176	158	147	147	376	1530	310	129	104
2	165	226	184	180	147	147	147	472	1640	316	126	92
3	168	222	209	176	154	150	147	542	1490	322	120	95
4	165	218	201	176	154	143	143	521	1400	300	104	98
5	158	218	205	165	154	150	120	479	1560	286	98	130
6	154	222	201	161	168	150	147	426	1710	281	98	172
7	147	222	192	165	150	147	143	364	1670	286	92	188
8	126	222	180	165	158	150	143	339	1620	267	92	205
9	123	222	172	168	158	150	126	310	1460	281	89	197
10	113	222	180	172	150	150	136	276	1290	327	92	180
11	116	214	192	161	110	140	143	267	1140	333	110	209
12	120	218	196	161	176	143	154	267	996	316	113	188
13	133	248	184	165	176	133	161	244	707	305	130	172
14	150	222	192	158	161	133	161	218	602	286	140	172
15	262	188	201	161	158	133	180	295	521	267	133	165
16	253	188	209	158	161	140	205	327	458	267	140	161
17	258	192	201	161	161	140	201	316	419	262	130	165
18	244	196	196	161	165	126	218	290	426	258	130	165
19	253	205	201	154	165	140	244	295	407	240	130	143
20	248	205	192	165	161	147	271	333	394	218	130	143
21	253	192	196	158	143	147	248	358	370	196	123	147
22	244	209	196	158	147	136	231	339	358	192	154	140
23	240	196	192	158	158	140	222	310	351	184	147	137
24	226	209	180	168	161	140	226	310	364	184	147	158
25	235	184	192	147	154	140	262	333	345	184	136	176
26	235	192	196	133	161	140	276	413	333	184	126	172
27	240	192	188	147	158	161	300	472	327	172	123	161
28	235	209	188	168	147	158	276	587	327	165	110	158
29	226	209	180	165	---	154	267	674	310	147	113	154
30	235	205	168	168	---	168	305	1110	305	150	113	154
31	226	---	184	154	---	158	---	1330	---	143	113	---
TOTAL	6119	6293	5944	5033	4374	4501	5950	13193	24830	7629	3731	4701
MEAN	197	210	192	162	156	145	198	426	828	246	120	157
MAX	262	248	209	180	176	168	305	1330	1710	333	154	209
MIN	113	184	168	133	110	126	120	218	305	143	89	92
AC-FT	12140	12480	11790	9980	8680	8930	11800	26170	49250	15130	7400	9320

CAL YR 1980 TOTAL 147051 MEAN 402 MAX 3070 MIN 109 AC-FT 291700
WTR YR 1981 TOTAL 92298 MEAN 253 MAX 1710 MIN 89 AC-FT 183100

09280400 HOBBLE CREEK AT DANIELS SUMMIT, NEAR WALLSBURG, UTAH

LOCATION.--Lat 40°17'54", long 111°15'52", in NW¼NW¼NE¼ sec.20, T.2 S., R.12 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on left bank about 1,000 ft (305 m) upstream from crossing of Hobble Creek ditch, 0.5 mi (0.8 km) west of Daniels Summit on U.S. Highway 40, and 10.5 mi (16.9 km) southeast of Wallsburg.

DRAINAGE AREA.--2.89 mi^2 (7.49 km^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 (2,499 m) from topographic map.

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

AVERAGE DISCHARGE.--18 years, 2.75 ft^3/s (0.078 m^3/s), 1,990 acre-ft/yr (2.45 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 145 ft^3/s (4.11 m^3/s) June 7, 1975, gage height, 2.89 ft (0.881 m); no flow at times during February to April 1964, January to March 1966, Sept. 4, 1967, Aug. 10-17, 1970, on several days in Aug. 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20 ft^3/s (0.57 m^3/s) May 2, gage height, 2.18 ft (0.664 m), no peak above base of 30 ft^3/s (0.850 m^3/s); minimum, 0.08 ft^3/s (0.002 m^3/s) Aug. 7-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	.24	.28	.31	.23	.29	.34	11	8.6	.83	.11	.12
2	.10	.22	.29	.29	.23	.28	.34	15	8.5	.81	.11	.11
3	.11	.21	.31	.28	.23	.27	.34	13	7.5	.74	.11	.11
4	.12	.22	.31	.28	.23	.26	.34	8.4	5.9	.69	.11	.11
5	.12	.22	.32	.28	.23	.26	.36	8.0	5.2	.72	.10	.29
6	.12	.23	.32	.27	.23	.25	.35	7.2	4.7	.47	.10	.29
7	.12	.23	.32	.28	.23	.25	.35	6.1	4.3	.44	.10	.22
8	.13	.25	.31	.28	.23	.25	.35	5.7	4.0	.43	.09	.27
9	.15	.23	.31	.28	.23	.25	.38	5.3	3.7	.47	.09	.23
10	.15	.23	.30	.28	.23	.25	.81	5.4	3.5	.58	.11	.28
11	.15	.26	.29	.27	.23	.25	1.6	6.5	3.3	.61	.15	.35
12	.17	.36	.27	.27	.23	.25	1.5	5.6	3.0	.51	.16	.24
13	.33	.33	.23	.27	.23	.25	1.8	5.2	2.9	.45	.17	.21
14	.42	.31	.22	.27	.23	.25	2.9	5.3	3.0	.34	.15	.20
15	.47	.28	.23	.27	.24	.25	2.1	6.0	2.8	.29	.14	.18
16	.47	.26	.26	.26	.25	.25	2.4	5.8	2.5	.29	.14	.18
17	.47	.26	.29	.26	.26	.25	3.4	5.4	2.3	.32	.13	.18
18	.37	.27	.29	.26	.27	.25	3.7	5.4	2.1	.25	.12	.16
19	.37	.27	.29	.26	.28	.25	4.4	5.6	2.0	.22	.12	.15
20	.33	.28	.28	.26	.29	.25	3.2	6.1	1.8	.20	.11	.16
21	.30	.28	.29	.25	.29	.25	3.0	6.5	1.7	.18	.12	.16
22	.28	.27	.30	.25	.29	.25	3.2	6.5	1.5	.16	.13	.16
23	.23	.27	.33	.25	.29	.25	4.7	6.1	1.4	.16	.11	.15
24	.23	.27	.33	.25	.29	.25	6.6	6.0	1.3	.15	.20	.23
25	.24	.26	.33	.25	.29	.24	8.0	6.3	1.2	.15	.15	.26
26	.23	.26	.33	.25	.29	.23	7.7	8.3	1.1	.16	.15	.25
27	.25	.25	.31	.25	.29	.23	7.1	11	1.0	.16	.13	.22
28	.26	.25	.22	.24	.29	.23	7.0	12	.94	.16	.13	.22
29	.27	.26	.29	.24	---	.23	8.5	11	.88	.13	.12	.20
30	.25	.27	.31	.24	---	.24	9.9	11	.87	.11	.11	.20
31	.24	---	.33	.23	---	.26	---	11	---	.11	.11	---
TOTAL	7.57	7.80	9.09	8.18	7.13	7.77	96.66	237.7	93.49	11.29	3.88	6.09
MEAN	.24	.26	.29	.26	.25	.25	3.22	7.67	3.12	.36	.13	.20
MAX	.47	.36	.33	.31	.29	.29	9.9	15	8.6	.83	.20	.35
MIN	.10	.21	.22	.23	.23	.23	.34	5.2	.87	.11	.09	.11
AC-FT	15	15	18	16	14	15	192	471	185	22	7.7	12

CAL YR 1980 TOTAL 1685.41 MEAN 4.60 MAX 58 MIN .10 AC-FT 3340
WTR YR 1981 TOTAL 496.65 MEAN 1.36 MAX 15 MIN .09 AC-FT 985

09285000 STRAWBERRY RIVER NEAR SOLDIER SPRINGS, UTAH

LOCATION.--Lat 40°08'00", long 111°01'27", in SE¼SW¼NW¼ sec.16, T.2 S., R.10 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on left bank 300 ft (91.4 m) below Soldier Creek Dam, 1.5 mi (2.4 km) upstream from Willow Creek, and 3.4 mi (5.5 km) south of Soldier Springs.

DRAINAGE AREA.--213 mi^2 (552 km^2) includes approximately 170 mi^2 (440 km^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 (2,243 m) from topographic map. Prior to June 1, 1971, water-stage recorder at site about 0.2 mi (0.3 km) upstream at different datum. From June 1, 1971 to Aug. 8, 1974, at site about 0.8 mi (1.3 km) downstream at different datum.

REMARKS.--Records good. Flow regulated by Strawberry Reservoir since July 14, 1912. Capacity, 1,106,500 acre-ft (1,364 hm^3) since June 30, 1973; 283,000 acre-ft (349 hm^3) prior to June 30, 1973. New earthfilled dam located 7 mi (11 km) 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 (17.0 m^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 (0.878 m^3/s), 22,500 acre-ft/yr (27.7 hm^3/yr) prior to completion of Soldier Creek Dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,020 ft^3/s (28.9 m^3/s) May 4, 1952, gage height, 3.84 ft (1.170 m), from rating curve extended above 550 ft^3/s (15.6 m^3/s); minimum daily, 0.23 ft^3/s (0.007 m^3/s) July and August 1973.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 25 ft^3/s (0.71 m^3/s) Oct. 1-5; minimum daily, 12 ft^3/s (0.34 m^3/s) many days during year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	12	12	19	19	19	15	18	18	21	24	23
2	25	12	12	19	19	19	19	18	18	21	24	23
3	25	12	12	19	19	19	19	18	18	21	24	23
4	25	12	12	19	19	14	19	18	18	21	22	23
5	25	12	12	19	19	12	19	18	18	21	23	23
6	18	12	12	19	19	12	19	18	18	21	23	23
7	12	12	12	19	19	12	18	18	18	21	23	23
8	12	12	12	19	19	12	18	18	18	21	23	23
9	12	12	12	19	19	12	19	18	18	21	23	23
10	12	12	12	19	19	12	19	18	18	21	23	23
11	12	12	12	19	19	12	19	18	18	21	23	23
12	12	12	12	19	19	12	19	18	18	21	23	23
13	12	12	12	19	19	12	19	18	18	21	23	23
14	12	12	12	19	19	12	19	18	18	21	23	23
15	12	12	12	19	19	12	19	18	18	23	23	23
16	12	12	15	19	19	12	19	18	18	23	23	23
17	12	12	19	19	19	12	19	18	20	23	23	23
18	12	12	19	19	19	12	19	18	21	23	23	23
19	12	12	19	19	19	12	19	17	21	23	23	23
20	12	12	19	19	19	12	19	17	21	23	23	23
21	12	12	19	19	19	12	19	17	21	23	23	23
22	12	12	19	19	19	12	19	17	21	23	23	23
23	12	12	19	19	19	12	19	17	21	23	23	23
24	12	12	19	19	19	12	19	17	21	24	23	23
25	12	12	19	19	19	12	18	17	21	24	23	23
26	12	12	19	19	19	12	19	18	21	24	23	23
27	12	12	19	19	19	12	18	18	21	24	23	22
28	12	12	19	19	19	12	18	18	21	24	23	22
29	12	12	19	19	---	12	18	18	21	24	23	22
30	12	12	19	19	---	12	18	18	21	24	23	18
31	12	---	19	19	---	12	---	18	---	24	23	---
TOTAL	443	360	480	589	532	395	559	551	581	693	715	682
MEAN	14.3	12.0	15.5	19.0	19.0	12.7	18.6	17.8	19.4	22.4	23.1	22.7
MAX	25	12	19	19	19	19	19	18	21	24	24	23
MIN	12	12	12	19	19	12	15	17	18	21	22	18
AC-FT	879	714	952	1170	1060	783	1110	1090	1150	1370	1420	1350

CAL YR 1980 TOTAL 4067.9 MEAN 11.1 MAX 26 MIN 3.3 AC-FT 8070
WTR YR 1981 TOTAL 6580.0 MEAN 18.0 MAX 25 MIN 12 AC-FT 13050

09285700 STRAWBERRY RIVER ABOVE RED CREEK, NEAR FRUITLAND, UTAH

LOCATION.--Lat 40°07'01, long 110°48'27", in NE¼NW¼SE¼ sec.20, T.4 S., R.8 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060004, on left bank 0.25 mi (0.40 km) downstream from Timber Canyon, 3.6 mi (5.8 km) upstream from Avintaquin Canyon, 3.8 mi (6.1 km) upstream from Red Creek, and 7 mi (11 km) southeast of Fruitland.

DRAINAGE AREA.--363 mi^2 (940 km2) (includes approximately 170 mi^2 (440 km2) tributary to Strawberry Reservoir).

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

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

GAGE.--Water-stage recorder. Altitude of gage is 6,360 ft (1,939 m) from topographic map. Prior to Apr. 7, 1971, at site 0.3 mi (0.5 km) downstream at different datum.

REMARKS.--Records good. Flow regulated by Strawberry Reservoir since July 14, 1912. Capacity, 1,106,500 acre-ft (1,364 hm^3) since June 30, 1973; 283,000 acre-ft (349 hm^3) prior to June 30, 1973. New earthfilled dam located 7 mi (11 km) 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 (17.0 m^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.--18 years, 51.1 ft^3/s (1.447 m^3/s) 37,020 acre-ft/yr (45.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 610 ft^3/s (17.3 m^3/s) May 14, 1964, gage height, 3.80 ft (1.16 m) from floodmarks from rating curve extended above 330 ft^3/s (9.35 m^3/s), maximum gage height, 5.10 ft (1.55 m) July 9, 1970 (backwater from debris, 0.2 mi (0.3 km) below station); minimum recorded, 9.7 ft^3/s (0.28 m^3/s) Dec. 8, 1963, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 64 ft^3/s (1.81 m^3/s) May 3, gage height, 2.46 ft (0.750 m); minimum, 29 ft^3/s (0.82 m^3/s) Dec. 9, 10, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	42	39	45	43	42	35	56	55	43	37	43
2	51	41	38	45	42	42	38	58	56	43	38	43
3	51	41	38	45	42	42	39	63	58	42	39	43
4	51	41	38	45	42	41	39	62	56	44	39	43
5	51	41	38	45	42	36	40	58	54	42	39	47
6	51	40	39	45	45	37	40	58	53	42	40	46
7	45	40	38	44	44	37	40	56	52	41	40	46
8	43	40	35	44	44	36	40	56	48	40	40	46
9	43	40	35	45	43	36	40	55	48	41	40	45
10	42	40	35	44	43	36	39	53	46	42	48	45
11	42	40	37	44	42	36	39	53	45	41	47	44
12	42	40	36	44	43	36	39	52	45	43	47	43
13	44	40	34	45	43	36	39	51	45	44	47	43
14	43	40	35	43	43	36	39	50	46	42	47	43
15	46	39	35	45	43	36	39	51	47	43	47	43
16	43	39	37	43	43	36	40	52	45	43	46	43
17	42	39	43	43	43	36	40	51	43	44	45	42
18	41	38	45	43	43	35	39	51	36	43	45	42
19	41	39	45	43	43	35	40	49	36	43	45	42
20	41	39	45	43	43	35	40	49	37	42	45	42
21	41	39	45	42	43	35	40	50	37	42	45	42
22	41	39	45	42	43	35	40	50	36	41	45	42
23	41	39	45	43	43	35	39	48	37	36	45	42
24	41	39	45	43	43	35	39	47	39	37	45	42
25	41	38	45	43	43	35	39	44	40	39	45	42
26	41	38	45	42	42	35	39	45	42	41	45	42
27	44	38	45	44	42	36	40	51	41	42	45	42
28	45	39	45	43	42	35	45	51	43	42	45	42
29	44	39	45	43	---	35	48	53	44	41	44	42
30	43	39	45	43	---	36	53	53	43	40	43	43
31	42	---	45	43	---	34	---	55	---	36	43	---
TOTAL	1368	1186	1260	1354	1200	1128	1206	1631	1353	1285	1351	1295
MEAN	44.1	39.5	40.6	43.7	42.9	36.4	40.2	52.6	45.1	41.5	43.6	43.2
MAX	51	42	45	45	45	42	53	63	58	44	48	47
MIN	41	38	34	42	42	34	35	44	36	36	37	42
AC-FT	2710	2350	2500	2690	2380	2240	2390	3240	2680	2550	2680	2570

CAL YR 1980 TOTAL 23524 MEAN 64.3 MAX 303 MIN 18 AC-FT 46660
WTR YR 1981 TOTAL 15617 MEAN 42.8 MAX 63 MIN 34 AC-FT 30980

09287000 CURRANT CREEK BELOW RED LODGE HOLLOW, NEAR FRUITLAND, UTAH

LOCATION.--Lat 40°19'27", long 111°02'43", in NW¼SW¼NW¼ sec.8. T.2 S., R.10 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on right bank 0.3 mi (0.48 km) below Red Ledge Hollow, 13.5 mi (21.7 km) northwest of Fruitland.

DRAINAGE AREA.--50.1 mi^2 (129.8 km^2).

PERIOD OF RECORD.--October 1945 to September 1968 at site 0.2 mi (0.32 km) upstream at different datum; August 1974 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,520 ft (2,290 m), from topographic map.

REMARKS.--Records good except for winter period, which are poor. 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.

AVERAGE DISCHARGE.--30 years (1945-68, 1975-81), 25.5 ft^3/s (0.722 m^3/s), 18,470 acre-ft/yr (22.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 946 ft^3/s (26.8 m^3/s) May 21, 1975, gage height, 5.58 ft (1.701 m); minimum, 0.7 ft^3/s (0.020 m^3/s) Sept. 8, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 79 ft^3/s (2.24 m^3/s) Apr. 25, gage height, 3.18 ft (0.969 m), no peak above base of 150 ft^3/s (4.25 m^3/s); minimum, 3.0 ft^3/s (0.085 m^3/s) Aug. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	12	12	13	9.0	11	12	58	40	15	6.3	5.9
2	13	12	12	13	10	11	14	56	37	16	6.1	5.6
3	13	12	11	13	10	10	14	61	43	16	5.2	5.6
4	13	11	11	13	10	11	12	44	35	14	5.6	6.2
5	13	12	12	13	10	12	13	42	33	13	5.2	12
6	13	11	12	12	9.2	11	16	42	32	12	5.2	15
7	13	12	11	11	10	11	16	36	30	12	4.9	14
8	13	12	9.5	10	10	11	14	36	28	10	5.8	13
9	13	11	11	10	10	11	18	36	26	9.5	5.2	10
10	13	11	12	10	9.0	10	23	37	26	11	4.8	10
11	14	11	12	10	10	10	22	40	25	12	6.5	13
12	14	15	12	9.5	11	10	22	36	25	10	7.8	10
13	15	15	13	9.0	9.5	10	23	34	24	11	10	9.8
14	16	11	12	9.0	8.6	12	24	32	26	9.5	9.5	8.3
15	18	10	11	9.0	9.2	13	29	33	26	8.3	7.9	7.5
16	16	9.5	12	9.5	9.2	12	29	33	26	6.9	7.8	7.1
17	15	9.5	12	9.6	10	11	34	32	24	13	7.1	7.0
18	14	10	12	10	12	12	38	31	24	10	5.8	7.0
19	14	11	13	11	12	12	56	33	23	9.2	7.4	7.6
20	14	10	12	10	11	11	37	36	23	7.8	6.0	7.3
21	14	10	12	11	10	11	32	40	22	6.6	6.9	6.9
22	13	10	13	10	10	12	29	40	21	7.5	11	7.6
23	11	11	13	10	11	13	34	37	20	7.0	8.5	7.1
24	11	12	12	11	12	13	46	35	18	7.3	8.2	10
25	12	10	13	9.5	12	13	58	35	18	7.5	7.6	11
26	12	9.5	13	9.5	11	13	62	36	17	7.5	7.3	9.8
27	12	11	13	11	11	12	53	40	17	7.8	6.5	9.2
28	12	12	13	11	11	12	45	44	16	7.8	6.6	7.9
29	11	12	12	11	---	14	54	44	15	6.3	6.9	6.5
30	12	11	13	11	---	15	60	42	14	6.6	7.0	7.4
31	12	---	13	9.5	---	12	---	46	---	6.1	5.6	---
TOTAL	412	336.5	374.5	329.1	287.7	362	939	1227	754	304.2	212.2	265.3
MEAN	13.3	11.2	12.1	10.6	10.3	11.7	31.3	39.6	25.1	9.81	6.85	8.84
MAX	18	15	13	13	12	15	62	61	43	16	11	15
MIN	11	9.5	9.5	9.0	8.6	10	12	31	14	6.1	4.8	5.6
AC-FT	817	667	743	653	571	718	1860	2430	1500	603	421	526

CAL YR 1980 TOTAL 19292.5 MEAN 52.7 MAX 414 MIN 5.8 AC-FT 38270
WTR YR 1981 TOTAL 5803.5 MEAN 15.9 MAX 62 MIN 4.8 AC-FT 11510

09287500 WATER HOLLOW NEAR FRUITLAND, UTAH

LOCATION.--Lat 40°14'30", long 110°58'48", in SW¼SW¼SE¼ sec.2, T.3 S., R.10 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on left bank 1.5 mi (2.4 km) upstream from mouth and 7.7 mi (12.4 km) northwest of Fruitland.

DRAINAGE AREA.--13.8 mi^2 (35.7 km^2).

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

GAGE.--Water-stage recorder. Altitude of gage is 7,110 ft (2,167 m) from topographic map.

REMARKS.--Records good. Diversion into Water Hollow Tunnel for storage in Strawberry Reservoir began Dec. 9, 1971. Diversion 3.5 mi (5.6 km) upstream from gage; all flows up to 20 ft^3/s (0.57 m^3/s) diverted at this point except for 0.5 ft^3/s (0.014 m^3/s), which is usually bypassed.

AVERAGE DISCHARGE.--25 years (1946-71), 5.71 ft^3/s (0.162 m^3/s), 4,140 acre-ft/yr (5.1 hm^3/yr) prior to diversion to Water Hollow Tunnel. 9 years (1973-81), 1.36 ft^3/s (0.039 m^3/s), 985 acre-ft/yr (1.21 hm^3/yr) since completion of Water Hollow Tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 133 ft^3/s (3.77 m^3/s) July 18, 1954, gage height, 3.24 ft (0.988 m), from rating curve extended above 56 ft^3/s (1.59 m^3/s) on basis of slope-area measurement of peak flow; maximum gage height, 3.59 ft (1.094 m) Nov. 25, 1969 (backwater from ice); minimum recorded, no flow Jan. 6, 1973, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.1 ft^3/s (0.116 m^3/s) June 14, gage height, 1.65 ft (0.503 m); minimum, 0.14 ft^3/s (0.004 m^3/s) Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.94	.99	.93	.70	.85	.70	.81	1.2	.44	.92	1.3	.34
2	.98	1.0	.91	.70	.80	.70	.89	.88	.42	1.5	.91	1.1
3	1.0	.96	.92	.70	.77	.69	.96	.80	.51	1.4	.68	.49
4	1.0	.95	.95	.70	.75	.73	.80	.69	.49	1.2	.92	.34
5	.97	.96	1.0	.65	.73	.71	.78	.66	.43	.79	.50	.95
6	1.0	.95	.94	.60	.75	.71	.90	.67	.39	.42	.46	1.0
7	1.1	.96	.91	.65	.73	.82	1.1	.65	.36	.37	.59	1.0
8	1.0	.96	.87	.65	.73	.73	1.0	.63	.32	1.0	.76	.55
9	1.0	.95	.86	.70	.76	.75	.98	.68	.33	.69	.50	.34
10	1.0	.95	.84	.70	.78	.76	1.1	.62	.29	.47	.47	.67
11	1.0	.96	.87	.70	.73	.70	1.1	.83	.26	1.4	.57	1.0
12	1.1	1.2	.86	.70	.73	.73	1.1	.69	1.3	2.4	.84	.49
13	1.4	1.3	.81	.74	.73	.72	.97	.61	2.8	1.7	1.0	.49
14	1.5	.96	.82	.60	.75	.77	.91	.55	3.2	1.5	.92	.34
15	1.7	.80	.90	.67	.73	.97	.98	.57	3.0	1.6	.70	.26
16	1.4	.70	.93	.65	.77	.84	.94	.59	3.0	1.2	.69	.24
17	1.2	.65	.91	.70	.84	.73	.97	.60	2.9	1.0	.58	.25
18	1.2	.60	.89	.63	.83	.69	.96	.52	2.6	.88	.53	.23
19	1.2	.65	.87	.72	.80	.69	1.4	.49	1.3	.69	.52	.24
20	1.1	.70	.86	.70	.74	.70	1.1	.60	.84	.55	.48	.22
21	1.0	.66	.85	.70	.71	.73	.88	.84	.59	.51	.50	.26
22	1.0	1.0	.87	.70	.72	.82	.82	.69	.47	.43	.72	.19
23	1.0	.98	.85	.70	.77	.85	.76	.60	.98	.44	.55	.22
24	1.0	1.1	.81	.71	.78	.83	.69	.51	.83	.42	.47	.26
25	1.0	.98	.83	.59	.77	.81	.72	.50	.58	.43	.40	.34
26	1.0	.92	.80	.57	.75	.79	.71	.51	.45	.53	.40	.95
27	1.0	.91	.79	.56	.71	.80	.69	.69	.39	.50	.36	1.5
28	1.0	.91	.78	.66	.70	.80	.67	.87	.35	.43	.32	1.4
29	.98	.91	.74	.91	---	.90	.63	.70	.30	.48	.34	1.4
30	.98	.95	.75	1.0	---	1.1	.64	.58	.35	1.5	.36	1.1
31	.98	---	.72	.93	---	.82	---	.49	---	1.6	.31	---
TOTAL	33.73	27.47	26.64	21.59	21.21	24.09	26.96	20.51	30.47	28.95	18.65	18.16
MEAN	1.09	.92	.86	.70	.76	.78	.90	.66	1.02	.93	.60	.61
MAX	1.7	1.3	1.0	1.0	.85	1.1	1.4	1.2	3.2	2.4	1.3	1.5
MIN	.94	.60	.72	.56	.70	.69	.63	.49	.26	.37	.31	.19
AC-FT	67	54	53	43	42	48	53	41	60	57	37	36

CAL YR 1980 TOTAL 618.21 MEAN 1.69 MAX 11 MIN .33 AC-FT 1230
WTR YR 1981 TOTAL 298.43 MEAN .82 MAX 3.2 MIN .19 AC-FT 592

09288000 CURRANT CREEK NEAR FRUITLAND, UTAH

LOCATION.--Lat 40°12'01", long 110°54'25", in NE¼SE¼SW¼ sec.21, T.3 S., R.9 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on left bank 150 ft (46 m) downstream from Deep Creek, 150 ft (46 m) upstream from bridge on U.S. Highway 40 and 3.5 mi (5.6 km) southwest of Fruitland.

DRAINAGE AREA.--140 mi^2 (363 km^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 (2,033 m) from topographic map. Aug. 6, 1952 to Nov. 8, 1966, water-stage recorder at site 150 ft (46 m) downstream at datum 1.30 ft (0.396 m) 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 (122 m) below gage. Construction of Currant Creek dam began August 1974.

AVERAGE DISCHARGE.--47 years, 45.4 ft^3/s (1.286 m^3/s), 31,890 acre-ft/yr (40.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,260 ft^3/s (35.7 m^3/s) May 4, 1952, gage height, 2.72 ft (0.829 m) site and datum then in use; maximum gage height, 5.92 ft (1.804 m), Jan. 27, 1974, backwater from ice; minimum recorded, 3.6 ft^3/s (0.10 m^3/s) Aug. 9, 10, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 200 ft^3/s (5.66 m^3/s), 151 ft^3/s (4.28 m^3/s) June 20, gage height, 2.33 ft (0.710 m); minimum, 11 ft^3/s (0.312 m^3/s) Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	37	40	36	33	35	36	80	59	26	19	20
2	37	38	38	37	35	35	37	75	54	26	18	20
3	38	38	39	36	35	36	40	81	60	28	18	20
4	38	39	39	37	34	33	37	68	54	26	18	19
5	38	38	38	34	36	37	36	62	51	25	18	24
6	38	38	38	30	38	37	39	60	50	24	18	26
7	37	38	34	34	33	37	42	57	48	24	17	29
8	38	39	28	35	35	35	39	54	47	23	17	31
9	38	38	34	35	40	35	38	54	45	23	17	26
10	37	38	34	37	31	35	45	53	46	23	18	25
11	38	38	39	33	35	32	48	57	44	23	19	26
12	39	40	37	34	42	33	46	56	42	28	21	26
13	43	45	35	35	38	34	48	52	42	27	26	25
14	48	41	39	33	41	34	48	50	42	26	27	24
15	55	33	43	38	40	34	53	51	43	25	24	23
16	50	33	42	35	40	34	53	51	42	24	23	22
17	46	33	42	38	40	34	56	51	42	26	23	21
18	44	36	40	36	40	32	58	50	38	25	22	21
19	44	39	39	35	39	35	72	50	34	24	22	21
20	43	40	37	38	37	35	66	52	35	23	22	21
21	43	36	38	35	33	34	57	59	32	22	22	21
22	42	40	38	34	35	34	53	58	30	22	23	21
23	39	39	38	33	37	35	53	54	29	21	23	21
24	40	41	36	36	37	36	62	52	28	21	23	21
25	39	36	38	30	37	36	75	52	28	21	23	23
26	38	38	38	29	38	36	84	52	27	21	22	23
27	38	38	38	38	37	36	77	56	28	22	22	23
28	39	42	38	38	36	36	68	60	28	21	22	22
29	38	41	36	38	---	36	68	60	28	20	21	22
30	39	41	34	37	---	42	75	58	27	20	21	21
31	39	---	37	33	---	37	---	57	---	20	21	---
TOTAL	1260	1151	1164	1087	1032	1090	1609	1782	1203	730	650	688
MEAN	40.6	38.4	37.5	35.1	36.9	35.2	53.6	57.5	40.1	23.5	21.0	22.9
MAX	55	45	43	38	42	42	84	81	60	28	27	31
MIN	37	33	28	29	31	32	36	50	27	20	17	19
AC-FT	2500	2280	2310	2160	2050	2160	3190	3530	2390	1450	1290	1360

CAL YR 1980 TOTAL 27915 MEAN 76.3 MAX 467 MIN 16 AC-FT 55370
WTR YR 1981 TOTAL 13446 MEAN 36.8 MAX 84 MIN 17 AC-FT 26670

09288100 RED CREEK BELOW CURRANT CREEK, NEAR FRUITLAND, UTAH

LOCATION.--Lat 40°08'47", long 110°45'09", in NE¼SW¼SE¼ sec.11, T.4 S., R.8 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060004, on right bank 700 ft (213 m) upstream from bridge, 1.6 mi (2.6 km) upstream from mouth, 3.2 mi (5.1 km) downstream from Currant Creek, and 6.5 mi (10.5 km) southeast of Fruitland.

DRAINAGE AREA.--297 mi^2 (769 km^2).

PERIOD OF RECORD.--October 1963 to September 30, 1981 (discontinued).

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

GAGE.--Water-stage recorder. Altitude of gage is 6,130 ft (1.868 m) from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Several diversions above station for irrigation, including transmountain diversion to the Great Basin through Strawberry tunnel. Flow slightly regulated by Red Creek Reservoir, 13 mi (21 km) upstream, beginning July 1960, capacity 5,700 acre-ft (7.03 hm^3).

AVERAGE DISCHARGE.--18 years, 54.1 ft^3/s (1.532 m^3/s), 39,200 acre-ft/yr (48.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,460 ft^3/s (41.3 m^3/s) July 16, 1975, gage height, 4.45 ft (1.356 m) in gage well, 4.50 ft (1.372 m) from floodmarks, from rating curve extended above 540 ft^3/s (15.3 m^3/s) on basis of slope-area measurement of peak flow; minimum, 3.9 ft^3/s (0.11 m^3/s) Dec. 9, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 135 ft^3/s (3.82 m^3/s) Sept. 8, gage height, 2.40 ft (0.732 m); minimum, 8.8 ft^3/s (0.25 m^3/s) Jan. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	42	43	44	39	37	40	73	64	34	22	22
2	38	42	43	41	35	39	40	71	59	33	20	22
3	39	42	42	40	37	38	43	76	65	33	14	21
4	39	41	42	41	36	35	40	69	55	30	14	21
5	39	41	44	37	39	39	37	62	51	26	14	31
6	39	41	44	32	40	38	39	61	47	24	15	38
7	39	42	38	37	39	38	47	57	47	25	15	46
8	40	41	29	37	41	38	42	54	45	21	12	60
9	40	42	38	40	43	38	40	57	37	21	13	36
10	38	41	38	41	37	38	44	56	37	23	16	30
11	39	41	43	40	35	37	48	59	38	25	15	29
12	40	43	45	41	44	37	47	58	34	32	17	28
13	47	48	42	40	43	38	48	55	37	35	20	27
14	50	43	44	39	42	38	48	54	43	30	30	26
15	79	36	48	42	42	37	54	56	47	30	26	24
16	57	35	47	42	42	40	57	59	46	29	25	24
17	50	34	46	44	43	39	59	57	52	30	23	24
18	46	39	45	42	41	35	62	56	43	23	20	23
19	46	46	43	42	41	38	76	57	35	21	21	21
20	44	46	41	46	40	39	77	62	41	20	22	22
21	44	44	43	46	34	38	65	72	32	21	24	22
22	44	47	42	46	37	36	59	69	36	24	32	22
23	43	45	42	44	40	38	58	62	36	25	28	22
24	42	46	39	42	40	39	65	59	32	24	27	23
25	42	40	42	35	40	39	75	56	30	24	27	25
26	43	42	42	28	40	39	80	57	29	22	29	26
27	43	40	42	41	38	42	77	66	27	21	27	25
28	43	46	42	42	37	40	71	70	28	20	26	23
29	42	47	40	42	---	39	70	70	30	19	24	22
30	42	43	38	40	---	46	74	64	31	20	25	25
31	42	---	45	36	---	41	---	61	---	22	26	---
TOTAL	1357	1266	1302	1250	1105	1193	1682	1915	1234	787	669	810
MEAN	43.8	42.2	42.0	40.3	39.5	38.5	56.1	61.8	41.1	25.4	21.6	27.0
MAX	79	48	48	46	44	46	80	76	65	35	32	60
MIN	38	34	29	28	34	35	37	54	27	19	12	21
AC-FT	2690	2510	2580	2480	2190	2370	3340	3800	2450	1560	1330	1610

CAL YR 1980 TOTAL 31426 MEAN 85.9 MAX 517 MIN 20 AC-FT 62330
WTR YR 1981 TOTAL 14570 MEAN 39.9 MAX 80 MIN 12 AC-FT 28900

09288150 WEST FORK AVINTAQUIN CREEK NEAR FRUITLAND, UTAH
(Formerly published as Cottonwood Creek near Fruitland)

LOCATION.--Lat 39°59'35", long 110°48'51", in SE¼NW¼NW¼ sec.5, T.6 S., R.8 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060004, 0.2 mi (0.3 km) upstream from mouth and 15.2 mi (24.5 km) south of Fruitland.

DRAINAGE AREA.--56.1 mi^2 (145.3 km^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 (2,070 m) from topographic map.

REMARKS.--Records good. One small diversion above station, constructed in 1976 for irrigation, may divert small amounts of water intermittently during the summer months.

AVERAGE DISCHARGE.--17 years, 14.4 ft^3/s (0.41 m^3/s), 10,430 acre-ft/yr (12.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,830 ft^3/s (51.8 m^3/s) Aug. 22, 1971, gage height, 5.40 ft (1.646 m), from rating curve extended above 320 ft^3/s (9.06 m^3/s); minimum recorded, 0.2 ft^3/s (0.006 m^3/s) Jan. 24, 1965, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 80 ft^3/s (2.27 m^3/s), and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Aug. 10	1730	*487	13.8	2.75	0.838
Sept. 5	1200	372	10.5	2.50	.762

Minimum, 0.84 ft^3/s (0.024 m^3/s), Sept. 28, 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	2.9	1.5	2.0	2.0	1.7	1.9	23	38	11	3.6	2.3
2	3.8	3.1	1.6	2.0	1.7	1.7	1.9	26	35	10	3.5	2.2
3	3.8	3.1	1.7	2.2	1.6	1.7	2.0	30	35	9.3	3.4	2.0
4	3.8	3.1	1.7	2.4	1.7	1.7	1.9	27	33	8.7	3.3	1.9
5	3.8	3.1	1.7	2.1	1.8	1.7	1.9	25	31	7.7	3.2	12
6	3.8	3.1	1.7	2.2	1.8	1.7	2.0	24	29	7.3	3.1	4.5
7	3.8	3.1	1.7	2.2	1.8	1.7	2.0	23	29	6.9	3.1	4.0
8	3.7	3.1	1.8	2.2	1.7	1.7	2.0	22	27	6.7	3.1	5.2
9	3.7	3.1	1.7	2.2	1.7	1.7	2.1	20	24	6.7	3.0	3.8
10	3.6	3.1	1.7	2.2	1.7	1.7	2.1	18	22	6.8	21	3.7
11	3.7	3.1	1.7	2.2	1.7	1.6	2.2	17	20	6.5	6.0	3.5
12	3.9	3.2	1.7	2.2	1.8	1.6	2.2	15	19	7.0	5.1	3.2
13	4.3	3.3	1.7	2.2	1.8	1.6	2.2	14	18	7.1	5.6	3.1
14	4.0	2.4	1.7	2.2	1.8	1.6	2.2	13	18	6.3	5.3	2.9
15	5.3	2.0	1.7	2.2	1.8	1.6	2.3	14	18	6.1	5.0	3.0
16	4.8	1.9	1.8	2.2	1.8	1.7	2.4	13	18	6.1	4.4	2.7
17	4.5	1.7	2.0	2.2	1.8	1.7	2.6	12	17	6.1	4.0	2.3
18	4.3	1.6	2.0	2.2	1.8	1.7	3.0	12	17	5.5	3.8	2.3
19	4.2	1.7	2.0	2.2	1.8	1.7	4.0	11	16	5.4	3.5	2.2
20	4.1	1.7	2.0	2.1	1.8	1.7	4.7	12	15	5.2	3.3	1.4
21	3.9	1.7	2.0	2.0	1.8	1.7	5.3	13	15	5.0	3.0	1.3
22	3.8	1.7	2.0	2.0	1.7	1.7	5.2	12	14	4.8	3.3	1.3
23	3.0	1.7	2.0	2.0	1.7	1.6	5.6	12	14	4.8	2.9	1.3
24	2.6	1.7	2.0	2.0	1.7	1.7	6.5	12	14	5.1	2.9	1.3
25	2.6	1.4	2.0	2.0	1.7	1.5	7.1	13	13	4.7	2.6	1.3
26	2.9	1.5	2.0	1.9	1.7	1.6	9.3	15	13	4.4	2.4	1.3
27	2.9	1.5	2.0	2.0	1.7	1.8	12	19	12	4.2	2.6	1.2
28	2.8	1.5	2.0	2.0	1.7	1.8	15	23	12	4.0	2.6	1.1
29	2.6	1.5	2.0	2.0	---	1.9	18	27	11	4.0	2.5	1.0
30	2.8	1.5	2.0	2.0	---	2.0	20	34	11	3.8	2.4	.97
31	3.0	---	2.0	2.0	---	1.9	---	34	---	3.7	2.5	---
TOTAL	113.6	69.1	57.1	65.5	49.1	52.7	151.6	585	608	190.9	126.0	80.27
MEAN	3.66	2.30	1.84	2.11	1.75	1.70	5.05	18.9	20.3	6.16	4.06	2.68
MAX	5.3	3.3	2.0	2.4	2.0	2.0	20	34	38	11	21	12
MIN	2.6	1.4	1.5	1.9	1.6	1.5	1.9	11	11	3.7	2.4	.97
AC-FT	225	137	113	130	97	105	301	1160	1210	379	250	159

CAL YR 1980 TOTAL 8866.80 MEAN 24.2 MAX 314 MIN 1.4 AC-FT 17590
WTR YR 1981 TOTAL 2148.87 MEAN 5.89 MAX 38 MIN .97 AC-FT 4260

09288180 STRAWBERRY RIVER NEAR DUCHESNE, UTAH

LOCATION.--Lat 40°09'17", long 110°33'15", in SE¼SW¼SW¼ sec.3, T.4 S., R.6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on right bank 150 ft (46 m) downstream from County Road bridge, 2,000 ft (610 m) upstream from maximum high-water line of Starvation Reservoir, and 7.9 mi (12.7 km) west of Duchesne.

DRAINAGE AREA.--917 mi^2 (2,375 km^2) (includes approximately 170 mi^2 (440 km^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 (1,744 m) (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 (1,364 hm^3) since June 30, 1973; 283,000 acre-ft (349 hm^3) prior to June 30, 1973. New earthfilled dam located 7 mi (11 km) 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 (17.0 m^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.--13 years, 125 ft^3/s (3.54 m^3/s), 90,560 acre-ft/yr (112 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,310 ft^3/s (37.1 m^3/s) May 18, 1973, gage height, 6.30 ft (1.920 m); minimum recorded, 17 ft^3/s (0.481 m^3/s) June 20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 350 ft^3/s (9.91 m^3/s) Sept. 8, gage height, 4.28 ft (1.305 m); no peak above base of 700 ft^3/s (19.8 m^3/s); minimum, 41 ft^3/s (1.16 m^3/s) Aug. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	97	94	108	83	89	87	163	189	79	59	77
2	96	96	96	100	81	91	90	167	178	84	55	75
3	97	96	96	97	89	89	94	190	195	85	50	74
4	96	94	94	97	84	89	93	186	174	78	46	72
5	99	94	95	93	86	87	89	175	158	70	45	101
6	100	95	94	91	99	86	90	166	149	69	46	109
7	95	96	89	80	93	86	96	160	141	66	48	100
8	89	95	70	85	90	88	97	152	128	61	47	138
9	86	96	70	90	99	84	91	152	115	65	46	93
10	86	96	80	90	80	85	94	148	108	69	51	86
11	86	95	85	90	75	84	100	147	104	64	77	82
12	87	98	90	90	80	85	100	138	96	85	65	82
13	97	104	85	85	85	86	99	127	88	101	71	80
14	102	98	90	85	85	87	101	120	88	77	85	78
15	157	89	95	90	85	87	104	122	99	73	75	76
16	126	85	100	90	85	87	112	133	95	70	77	75
17	111	82	100	90	88	87	111	129	96	79	77	74
18	105	89	95	90	88	83	117	126	91	71	71	74
19	101	101	95	95	88	86	130	127	84	66	69	73
20	102	104	90	95	88	86	142	126	80	68	67	72
21	100	97	95	97	81	85	125	145	79	65	66	73
22	98	109	97	92	84	83	119	141	71	67	75	71
23	95	105	97	89	87	84	118	132	76	66	79	69
24	95	98	92	101	89	86	125	120	74	66	78	70
25	94	92	102	85	90	85	141	118	72	64	77	71
26	95	85	98	80	92	86	149	122	73	67	79	74
27	97	90	97	103	89	92	159	144	71	68	78	73
28	98	95	96	110	87	90	163	162	71	67	80	73
29	96	101	94	98	---	88	166	174	76	65	78	71
30	95	97	94	87	---	94	167	174	75	66	81	72
31	96	---	104	85	---	91	---	183	---	61	82	---
TOTAL	3075	2869	2869	2858	2430	2696	3469	4569	3194	2202	2080	2408
MEAN	99.2	95.6	92.5	92.2	86.8	87.0	116	147	106	71.0	67.1	80.3
MAX	157	109	104	110	99	94	167	190	195	101	85	138
MIN	86	82	70	80	75	83	87	118	71	61	45	69
AC-FT	6100	5690	5690	5670	4820	5350	6880	9060	6340	4370	4130	4780

CAL YR 1980	TOTAL	72236	MEAN	197	MAX	1160	MIN 54	AC-FT 143300
WTR YR 1981	TOTAL	34719	MEAN	95.1	MAX	195	MIN 45	AC-FT 68870

09288900 SOWERS CREEK NEAR DUCHESNE, UTAH

LOCATION.--Lat 39°59'22", long 110°27'33", in SW¼SW¼NW¼ sec.4, T.6 S., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on left bank 0.5 mi (0.8 km) upstream from Ashley National Forest boundary, 5.7 mi (9.2 km) upstream from mouth of Tabby Canyon, and 12.4 mi (20.0 km) south of Duchesne.

DRAINAGE AREA.--40.6 mi^2 (105 km^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 (2,073 m) from topographic map.

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

AVERAGE DISCHARGE.--17 years, 3.80 ft^3/s (0.108 m^3/s), 2,750 acre-ft/yr (3.39 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 350 ft^3/s (9.91 m^3/s) July 24, 1974, gage height, 6.59 ft (2.009 m), from rating curve extended above 42 ft^3/s (1.19 m^3/s) on basis of slope-area measurement of peak flow; no flow for part of winter period 1964, 1965, Feb. 18-21, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, and peak above base of 35 ft^3/s (0.99 m^3/s), 59 ft^3/s (1.67 m^3/s), Aug. 12, gage height, 3.41 ft (1.039 m); minimum, 0.67 ft^3/s (0.019 m^3/s) Aug. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	5.5	4.8	4.0	2.0	2.8	2.8	2.4	2.4	1.9	.98	1.1
2	6.2	5.4	5.6	3.8	1.8	2.9	3.0	2.6	2.5	2.1	.97	1.1
3	6.2	5.2	4.8	3.7	1.6	2.5	3.1	2.9	2.5	1.6	.94	1.1
4	6.2	5.2	4.4	3.8	1.8	2.8	2.7	2.7	2.3	1.4	.92	1.1
5	6.1	5.2	4.1	3.7	2.0	2.7	2.9	2.6	2.3	1.3	.91	2.3
6	6.0	5.2	4.3	3.0	2.2	2.6	3.3	2.6	2.3	1.3	.89	1.6
7	6.0	5.1	4.0	2.4	2.2	2.8	3.3	2.5	2.2	1.3	.89	1.4
8	5.9	5.1	3.4	2.0	2.4	2.8	3.0	2.6	2.1	1.2	.89	1.5
9	5.9	5.1	3.4	1.9	2.4	2.7	3.4	2.6	2.1	1.3	.89	1.3
10	5.9	4.9	3.0	1.8	2.4	2.9	3.4	2.5	2.1	1.3	1.2	1.2
11	5.9	4.9	3.4	1.8	1.6	2.6	3.1	2.5	2.1	1.2	1.2	1.2
12	6.7	5.1	3.4	1.8	2.0	2.9	3.0	2.5	2.1	1.4	2.7	1.2
13	6.8	5.1	3.4	1.8	2.4	2.9	2.9	2.5	2.0	1.3	1.5	1.1
14	6.6	4.9	3.8	1.6	2.6	2.9	2.9	2.5	2.1	1.3	1.3	1.1
15	8.0	4.0	4.0	1.8	2.9	3.0	3.0	2.6	2.1	1.2	1.6	1.1
16	7.0	3.6	4.0	1.8	2.9	3.1	3.0	2.6	2.0	1.2	1.4	1.1
17	6.5	3.2	4.0	2.0	2.9	2.8	2.8	2.5	2.0	1.3	1.2	1.1
18	6.4	3.0	4.0	1.8	2.8	2.8	2.7	2.6	2.0	1.2	1.2	1.0
19	6.2	3.4	3.9	1.8	2.8	2.7	3.1	2.5	1.9	1.2	1.1	1.0
20	6.1	3.6	3.9	1.8	2.8	2.8	2.9	2.8	1.9	1.1	1.0	1.1
21	6.0	3.8	3.9	1.8	2.7	2.6	2.8	2.7	1.9	1.1	1.2	1.1
22	5.9	4.0	3.9	1.8	2.9	2.7	2.7	2.6	1.8	1.1	1.8	1.0
23	5.9	4.0	3.9	1.8	2.9	2.9	2.6	2.5	1.8	1.1	1.2	1.0
24	5.9	4.0	4.1	2.0	3.0	2.9	2.6	2.5	1.8	1.1	1.2	1.1
25	5.8	4.0	3.9	2.2	2.8	2.8	2.5	2.5	1.8	1.1	1.2	1.0
26	5.9	3.8	3.9	2.0	2.9	2.9	2.5	2.5	1.7	1.3	1.1	1.0
27	5.7	4.0	3.9	1.8	2.7	3.0	2.5	2.5	1.8	1.2	1.7	1.0
28	5.6	5.0	3.9	2.2	2.7	3.0	2.5	2.6	1.7	1.1	1.5	1.0
29	5.5	5.0	3.8	2.0	---	3.0	2.4	2.5	1.7	1.1	1.2	.98
30	5.5	5.0	4.5	2.8	---	3.1	2.4	2.5	1.8	1.0	1.2	.97
31	5.5	---	4.1	2.6	---	2.6	---	2.4	---	1.0	1.2	---
TOTAL	190.1	135.3	123.4	71.1	69.1	87.5	85.8	79.4	60.8	39.3	38.18	34.85
MEAN	6.13	4.51	3.98	2.29	2.47	2.82	2.86	2.56	2.03	1.27	1.23	1.16
MAX	8.0	5.5	5.6	4.0	3.0	3.1	3.4	2.9	2.5	2.1	2.7	2.3
MIN	5.5	3.0	3.0	1.6	1.6	2.5	2.4	2.4	1.7	1.0	.89	.97
AC-FT	377	268	245	141	137	174	170	157	121	78	76	69

CAL YR 1980 TOTAL 3005.30 MEAN 8.21 MAX 38 MIN 1.5 AC-FT 5960
WTR YR 1981 TOTAL 1014.83 MEAN 2.78 MAX 8.0 MIN .89 AC-FT 2010

09289500 LAKE FORK RIVER ABOVE MOON LAKE, NEAR MOUNTAIN HOME, UTAH

LOCATION.--Lat 40°36'24", long 110°31'35", in SW¼SE¼SE¼ sec.35, T.3 N., R.6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 2,000 ft (610 m) upstream from head of Moon Lake at maximum stage, 2 mi (3 km) upstream from Brown Duck Creek, 16 mi (26 km) northeast of Mountain Home.

DRAINAGE AREA.--77.9 mi^2 (202 km^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 (2,493 m) from topographic map. April 1933 to September 1934, at site 2.5 mi (4.0 km) upstream at different datum. July 13, 1942 to July 26, 1949, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good except those for winter period and those for period of no gage-height record, which are fair.

AVERAGE DISCHARGE.--31 years (water years 1943-55, 1964-81), 110 ft^3/s (3.115 m^3/s), 79,700 acre-ft/yr (98.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,700 ft^3/s (76.5 m^3/s) June 26, 1944, gage height, 5.27 ft (1.606 m), present datum, from rating curve extended above 700 ft^3/s (19.8 m^3/s); minimum daily recorded, 13 ft^3/s (0.37 m^3/s) Apr. 14, 1933.

EXTREMES FOR CURRENT YEAR.-- Maximum discharge, 1,560 ft^3/s (44.2 m^3/s) June 8, gage height, 4.14 ft (1.262 m) and peak above base of 1,000 ft^3/s (28.3 m^3/s); minimum daily, 24 ft^3/s (0.68 m^3/s) Mar. 12, 13, 16-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	33	39	32	28	26	26	208	689	137	60	52
2	37	32	38	33	29	25	26	279	659	139	91	51
3	37	32	38	33	29	25	26	285	564	128	87	51
4	37	32	38	33	28	26	26	223	586	117	84	51
5	36	32	38	33	28	26	26	198	719	110	80	60
6	36	33	39	32	29	26	26	185	875	109	76	66
7	35	32	40	31	29	26	26	158	961	115	73	65
8	35	33	40	29	30	26	26	145	1030	103	68	66
9	34	32	39	31	30	26	26	129	882	101	65	58
10	34	31	38	31	29	26	26	120	710	127	65	61
11	34	32	37	31	25	26	26	122	665	113	63	60
12	35	34	36	30	28	24	28	111	608	143	61	57
13	40	32	34	30	29	24	33	107	411	118	80	54
14	42	29	34	31	29	25	38	113	293	101	82	52
15	41	29	35	30	29	25	42	127	241	93	66	51
16	40	29	35	30	29	24	41	120	235	87	63	50
17	39	30	35	31	29	24	47	109	235	89	61	48
18	39	33	34	31	28	24	55	103	220	82	61	48
19	38	36	33	31	28	24	69	107	235	78	61	47
20	38	38	32	30	27	24	54	116	250	71	60	46
21	38	39	32	29	27	24	48	109	241	68	66	47
22	38	39	31	31	27	24	47	105	214	65	75	47
23	33	39	31	31	28	24	55	105	202	63	62	45
24	35	39	31	30	28	25	71	109	190	65	59	47
25	34	38	31	29	27	25	87	143	178	66	58	48
26	35	38	31	28	26	25	101	200	172	66	58	48
27	35	38	32	29	26	25	107	290	170	63	57	46
28	34	38	32	30	27	25	105	321	160	58	56	45
29	34	39	32	30	---	26	122	371	148	56	56	43
30	34	39	31	29	---	26	160	503	138	55	54	42
31	33	---	31	28	---	26	---	623	---	53	55	---
TOTAL	1129	1030	1077	947	786	777	1596	5944	12881	2839	2063	1552
MEAN	36.4	34.3	34.7	30.5	28.1	25.1	53.2	192	429	91.6	66.5	51.7
MAX	42	39	40	33	30	26	160	623	1030	143	91	66
MIN	33	29	31	28	25	24	26	103	138	53	54	42
AC-FT	2240	2040	2140	1880	1560	1540	3170	11790	25550	5630	4090	3080

CAL YR 1980 TOTAL 44088 MEAN 120 MAX 1320 MIN 16 AC-FT 87450
WTR YR 1981 TOTAL 32621 MEAN 89.4 MAX 1030 MIN 24 AC-FT 64700

09290500 MOON LAKE RESERVOIR NEAR MOUNTAIN HOME, UTAH

LOCATION.--Lat 40°33'43", long 110°29'21", in NW¼NE¼NE¼ 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 (2.3 km) downstream from Brown Duck Creek, 10.5 mi (16.9 km) upstream from Yellowstone River, and 12.5 mi (20.1 km) northwest of Mountain Home.

DRAINAGE AREA.--108 mi^2 (280 km^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 (44.1 hm^3) between elevations 8,072.00 ft (2,460.346 m), crest of original outlet of lake, about 2,000 ft (610 m) upstream from dam, and 8,137.00 ft (2,480.158 m) top of spillway gates. Elevation of spillway crest is 8,121.00 ft (2,475.281 m) and elevation of sill of outlet works in 8,064.16 ft (2,457.956 m). Dead storage between sill of outlet and crest of original outlet of lake, 2,050 acre-ft (2.53 hm^3). Total dead storage, 13,740 acre-ft (16.9 hm^3). 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 (46.3 hm^3) July 10, 11, 1950; elevation, 8,139.30 ft (2,480.859 m); minimum observed, 226 acre-ft (279,000 m^3) Sept. 30, 1946.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 27,750 acre-ft (34.2 hm^3) June 22-29; elevation, 8,126.2 ft (2,476.866 m); minimum contents observed, 4,400 acre-ft (5.42 hm^3) Sept. 8, elevation, 8,085.2 ft (2.464.369 m).

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

8,085	4,320	8,110	17,130
8,090	6,490	8,120	23,470
8,100	11,470	8,130	30,490

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10260	---	---	---	---	---	---	---	12000	27530	14160	4740
2	---	---	---	---	---	16770	---	---	---	---	---	4650
3	---	---	---	---	---	---	---	17730	---	---	---	---
4	---	---	11900	---	---	---	---	17860	---	27180	---	---
5	---	---	---	---	---	---	---	---	---	27040	---	---
6	9950	---	---	---	---	---	---	---	17130	---	---	---
7	---	---	---	---	---	---	---	17490	18710	26550	---	---
8	---	---	---	---	---	---	---	---	20470	---	9800	4400
9	---	---	---	---	---	---	---	17070	23200	---	---	---
10	8890	10310	---	---	---	---	---	---	24420	25370	---	---
11	---	---	---	---	---	---	---	---	25100	---	8490	---
12	---	---	---	---	---	---	---	15020	26270	24690	---	---
13	---	---	---	---	---	---	---	---	---	24420	---	---
14	---	---	---	---	---	---	---	---	27040	23880	---	---
15	---	---	---	---	---	---	---	---	---	23470	---	---
16	8100	---	---	---	---	---	---	---	27180	---	6530	---
17	---	10780	---	---	---	---	---	---	27250	---	6260	---
18	---	---	---	---	---	---	---	11680	27320	21760	---	5850
19	---	---	---	---	---	---	---	11040	27460	21110	---	---
20	---	---	---	---	---	---	---	---	27600	20720	---	---
21	---	---	---	---	---	---	---	---	27600	---	---	---
22	---	---	---	---	---	---	19780	---	27750	19960	---	5940
23	---	---	---	---	16420	---	---	---	27750	---	---	---
24	---	---	---	---	---	17860	19780	---	27750	19020	---	---
25	---	---	---	---	---	---	---	8150	27750	---	5070	---
26	---	---	---	---	---	---	19020	---	27750	---	---	---
27	---	---	13430	---	---	---	---	7910	27750	17430	4990	---
28	---	---	---	---	a16680	---	---	7670	27750	---	---	---
29	---	---	---	---	---	---	---	8840	27750	16300	---	---
30	---	a11640	---	---	---	---	17730	---	a27640	---	---	6580
31	a9430	---	a13650	a15350	---	a18240	---	a10950	---	a14870	a4790	---
(‡)	-830	+2210	+2010	+1700	+1330	+1560	-510	-6780	+16690	-12770	-10080	+1790

CAL YR 1980 . . . . . (‡) +7890
WTR YR 1981 . . . . . (‡) -3680

(‡) CHANGE IN CONTENTS, IN ACRE-FEET
(a) NO GAGE-HEIGHT RECORD, CONTENTS INTERPOLATED

09291000 LAKE FORK RIVER BELOW MOON LAKE, NEAR MOUNTAIN HOME, UTAH

LOCATION.--Lat 40°33'23", long 110°29'02", in SW¼SW¼NW¼ sec.20, T.2 N., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 2,000 ft (610 m) downstream from Moon Lake Dam, 2 mi (3 km) downstream from Brown Duck Creek, and 12 mi (19 km) northwest of Mountain Home.

DRAINAGE AREA.--112 mi^2 (290 km^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 (2,429 m) by barometer. Prior to April 1942, at dam-site 2,000 ft (610 m) upstream at different datum.

REMARKS.--Records good. Flow regulated by Moon Lake Reservoir (see station 09290500). No diversion above station.

AVERAGE DISCHARGE.--39 years (1942-1981), 125 ft^3/s (3.540 m^3/s) 90,560 acre-ft/yr (112 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 2,180 ft^3/s (61.7 m^3/s) June 19, 1949, from rating curve extended above 860 ft^3/s (24.4 m^3/s); maximum gage height, 5.46 ft (1.664 m) June 26, 1944; no flow at times when reservoir gates are closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 455 ft^3/s (12.9 m^3/s) May 13, gage height, 2.77 ft (0.844 m); no flow most of the year when reservoir gates were closed.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	.00	.00	.00	.00	.00	.00	309	131	234	399	93
2	77	.00	.00	.00	.00	.00	.00	308	151	235	396	90
3	78	.00	.00	.00	.00	.00	.00	263	153	235	392	90
4	78	.00	.00	.00	.00	.00	.00	249	155	236	386	90
5	77	.00	.00	.00	.00	.00	.00	310	156	244	384	90
6	84	.00	.00	.00	.00	.00	.00	310	159	334	381	90
7	176	.00	.00	.00	.00	.00	.00	367	161	337	377	90
8	176	.00	.00	.00	.00	.00	.00	388	164	341	326	41
9	175	.00	.00	.00	.00	.00	.00	361	166	333	266	.00
10	174	.00	.00	.00	.00	.00	.00	352	170	329	263	.00
11	142	.00	.00	.00	.00	.00	.00	349	158	331	262	.00
12	139	.00	.00	.00	.00	.00	.00	355	159	339	260	.00
13	138	.00	.00	.00	.00	.00	.00	446	158	373	259	.00
14	137	.00	.00	.00	.00	.00	.00	441	187	369	257	.00
15	97	.00	.00	.00	.00	.00	.00	436	249	379	253	.00
16	67	.00	.00	.00	.00	.00	.00	434	250	390	251	.00
17	.00	.00	.00	.00	.00	.00	.00	429	248	384	205	.00
18	.00	.00	.00	.00	.00	.00	.00	426	249	380	150	.00
19	.00	.00	.00	.00	.00	.00	.00	389	249	369	151	.00
20	.00	.00	.00	.00	.00	.00	.00	360	249	313	150	.00
21	.00	.00	.00	.00	.00	.00	.00	359	249	314	149	.00
22	.00	.00	.00	.00	.00	.00	8.1	357	250	310	149	.00
23	.00	.00	.00	.00	.00	.00	74	355	250	311	148	.00
24	.00	.00	.00	.00	.00	.00	196	351	250	308	148	.00
25	.00	.00	.00	.00	.00	.00	245	350	214	309	130	.00
26	.00	.00	.00	.00	.00	.00	259	373	211	309	52	.00
27	.00	.00	.00	.00	.00	.00	312	252	227	316	66	.00
28	.00	.00	.00	.00	.00	.00	310	159	228	378	92	.00
29	.00	.00	.00	.00	---	.00	311	110	240	376	91	.00
30	.00	.00	.00	.00	---	.00	309	126	234	406	91	.00
31	.00	---	.00	.00	---	.00	---	128	---	402	93	---
TOTAL	1883.00	.00	.00	.00	.00	.00	2024.10	10202	6075	10224	6977	674.00
MEAN	60.7	.000	.000	.000	.000	.000	67.5	329	203	330	225	22.5
MAX	176	.00	.00	.00	.00	.00	312	446	250	406	399	93
MIN	.00	.00	.00	.00	.00	.00	.00	110	131	234	52	.00
AC-FT	3730	.00	.00	.00	.00	.00	4010	20240	12050	20280	13840	1340

CAL YR 1980 TOTAL 46804.00 MEAN 128 MAX 1120 MIN .00 AC-FT 92840
WTR YR 1981 TOTAL 38059.10 MEAN 104 MAX 446 MIN .00 AC-FT 75490

09291200 LAKE FORK RIVER BELOW TASKEECH DAMSITE, NEAR MOUNTAIN HOME, UTAH

LOCATION.--Lat 40°30'05", long 110°24'17", in NE¼NE¼NW¼ sec.12, T.1 N., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank 4.5 mi (7.2 km) north of Mountain Home, and 4.9 mi (7.9 km) upstream from Yellowstone River, and 6.8 mi (10.9 km) below Moon Lake Reservoir.

DRAINAGE AREA.--138 mi^2 (357 km^2).

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,375 ft (2,248 m) from topographic map.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated by Moon Lake Reservoir (see station 09290500).

AVERAGE DISCHARGE.--5 years, 78.2 ft^3/s (2.21 m^3/s), 56,700 acre-ft/yr (69.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,220 ft^3/s (34.6 m^3/s) June 22, 1980, gage height, 5.02 ft (1.530 m); minimum daily, 3.1 ft^3/s (0.088 m^3/s) Jan. 1, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 584 ft^3/s (16.5 m^3/s) Aug. 8, gage height, 4.28 ft (1.305 m); minimum daily, 4.5 ft^3/s (0.13 m^3/s) Feb. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	14	10	9.3	6.2	5.5	7.8	128	24	202	329	86
2	67	14	10	9.3	5.5	5.8	8.1	128	20	203	329	88
3	68	13	10	9.2	5.3	6.0	8.1	102	18	210	323	88
4	68	13	10	9.0	5.2	6.2	7.4	76	17	208	322	88
5	69	13	10	8.2	5.2	6.6	7.6	129	16	206	350	96
6	70	13	9.5	7.8	5.2	6.7	7.4	132	15	295	387	94
7	86	13	8.6	9.0	5.2	7.2	7.4	182	15	309	402	94
8	85	13	8.2	9.8	5.2	7.6	7.4	222	14	308	432	70
9	85	13	9.0	10	5.0	7.3	7.6	201	14	306	390	20
10	84	13	10	9.6	4.5	7.3	7.8	190	13	303	370	18
11	60	12	11	9.5	4.8	8.1	7.6	190	13	299	375	16
12	53	11	12	9.4	5.2	7.0	7.6	186	13	299	365	15
13	55	10	11	9.3	5.1	7.2	7.6	279	13	337	370	14
14	58	9.7	11	9.2	5.1	7.3	7.4	281	14	329	365	14
15	43	9.0	11	9.2	5.1	7.5	8.5	278	128	330	345	13
16	31	9.6	11	9.0	4.9	7.4	8.1	274	177	347	322	12
17	25	10	10	8.9	4.7	8.1	7.6	269	188	352	280	12
18	22	11	10	8.3	4.8	7.8	7.6	267	200	342	180	11
19	22	11	9.9	8.3	4.8	7.2	8.7	267	207	327	177	11
20	20	11	9.9	8.2	4.8	7.4	8.7	265	208	249	171	11
21	19	10	9.9	8.4	4.8	7.4	7.9	261	208	238	171	10
22	17	10	9.8	8.4	4.8	7.4	7.5	260	208	233	174	10
23	17	10	9.8	8.0	4.9	7.4	7.4	256	207	231	177	10
24	16	10	10	7.5	4.9	7.4	16	254	206	231	177	11
25	16	8.5	9.8	7.8	4.9	7.2	50	251	176	224	169	11
26	15	8.0	9.7	7.8	5.0	7.4	65	278	156	220	64	10
27	15	10	9.5	7.8	5.2	8.3	115	173	179	220	62	10
28	15	11	9.5	7.7	5.3	7.6	126	81	178	302	89	10
29	14	10	9.5	7.8	---	7.8	128	26	189	304	91	10
30	14	10	9.5	7.8	---	8.5	126	26	204	333	91	10
31	14	---	9.3	7.0	---	7.8	---	28	---	333	89	---
TOTAL	1302	333.8	308.4	266.5	141.6	225.4	804.8	5940	3238	8630	7938	973
MEAN	42.0	11.1	9.95	8.60	5.06	7.27	26.8	192	108	278	256	32.4
MAX	86	14	12	10	6.2	8.5	128	281	208	352	432	96
MIN	14	8.0	8.2	7.0	4.5	5.5	7.4	26	13	202	62	10
AC-FT	2580	662	612	529	281	447	1600	11780	6420	17120	15750	1930

CAL YR 1980 TOTAL 34685.6 MEAN 94.8 MAX 948 MIN 7.0 AC-FT 68800
WTR YR 1981 TOTAL 30101.5 MEAN 82.5 MAX 432 MIN 4.5 AC-FT 59710

09292500 YELLOWSTONE RIVER NEAR ALTONAH, UTAH

LOCATION.--Lat 40°30'43", long 110°20'27", in SW¼SW¼NE¼ 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 (2.4 km) downstream from powerplant of Moon Lake Electric Association, Inc., 2 mi (3 km) downstream from Hell Canyon, 8.2 mi (13.2 km) northwest of Altonah.

DRAINAGE AREA.--132 mi^2 (342 km^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 (2,265 m) from river-profile map.

REMARKS.--Records good except those for winter period, which are fair. Some diurnal fluctuation caused by powerplant 1.5 mi (2.4 km) upstream.

AVERAGE DISCHARGE.--37 years, 136 ft^3/s (3.852 m^3/s), 98,530 acre-ft/yr (121 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,880 ft^3/s (53.2 m^3/s) June 19, 1949, gage height, 4.55 ft (1.387 m); minimum daily, 25 ft^3/s (0.71 m^3/s) Nov. 28, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft^3/s (19.8 m^3/s); and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
June 1	2400	795	22.5	2.54	0.774
June 8	2400	*1,260	35.7	3.08	.939

Minimum daily, 37 ft^3/s (1.05 m^3/s) Jan. 24, Feb. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	67	59	43	45	44	43	100	646	161	101	92
2	80	67	60	43	46	43	44	140	632	172	109	89
3	79	65	61	42	46	44	43	205	505	164	105	87
4	78	65	63	42	47	47	42	215	492	146	102	89
5	76	64	58	43	47	44	42	181	597	136	99	128
6	77	64	51	42	48	44	43	164	765	131	96	110
7	75	64	47	41	48	45	43	138	892	154	96	138
8	71	64	42	41	48	45	42	128	926	134	96	124
9	71	63	42	43	47	44	43	117	925	128	95	116
10	70	62	42	45	44	44	46	110	739	174	98	118
11	70	62	42	43	42	44	47	112	668	143	104	108
12	70	60	42	42	40	43	47	105	575	160	101	103
13	77	60	42	43	42	43	50	100	452	153	123	98
14	86	60	45	44	46	43	52	101	323	132	127	94
15	90	56	47	47	46	44	58	113	266	122	110	91
16	86	52	46	44	44	43	57	117	245	116	104	87
17	82	52	45	42	45	43	58	111	250	122	96	84
18	80	52	45	43	44	44	63	104	223	120	93	81
19	78	52	44	44	43	43	78	103	227	111	92	79
20	78	54	44	45	43	40	82	112	239	108	96	76
21	76	55	44	43	37	44	82	113	239	102	107	75
22	76	57	44	42	40	42	79	108	227	99	138	75
23	68	59	44	41	45	42	70	105	212	97	122	73
24	68	57	43	37	44	42	56	107	201	98	111	79
25	70	56	43	39	43	42	49	129	188	102	106	80
26	71	54	43	40	43	42	45	185	182	102	109	78
27	70	52	43	42	45	44	42	270	191	105	104	74
28	66	52	43	44	46	44	41	315	195	114	106	72
29	68	52	43	47	---	44	45	367	174	111	102	66
30	69	56	43	43	---	45	52	507	169	107	97	67
31	69	---	43	44	---	45	---	552	---	105	98	---
TOTAL	2326	1755	1443	1324	1244	1350	1584	5334	12565	3929	3243	2731
MEAN	75.0	58.5	46.5	42.7	44.4	43.5	52.8	172	419	127	105	91.0
MAX	90	67	63	47	48	47	82	552	926	174	138	138
MIN	66	52	42	37	37	40	41	100	169	97	92	66
AC-FT	4610	3480	2860	2630	2470	2680	3140	10580	24920	7790	6430	5420

CAL YR 1980 TOTAL 53273 MEAN 146 MAX 1280 MIN 34 AC-FT 105700
WTR YR 1981 TOTAL 38828 MEAN 106 MAX 926 MIN 37 AC-FT 77020

09293000 YELLOWSTONE RIVER AT MOUTH, NEAR MT. HOME, UTAH

LOCATION.--Lat 40°26'39", long 110°21'48", in SE¼NE¼NW¼ sec.32, T.1 N., R.4 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank on downstream side of county road bridge, 0.1 mi (0.2 km) upstream from mouth and 3.4 mi (5.5 km) northeast of Mt. Home.

DRAINAGE AREA.--142 mi^2 (368 km^2).

PERIOD OF RECORD.--October 1976 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Prior to July 18, 1980, at datum 1.02 ft (0.311 m) lower. Altitude of gage is 6,915 ft (2,108 m) from topographic map.

REMARKS.--Records good. Slight regulation caused by powerplant 6.7 mi (11 km) upstream and one diversion above station for irrigation below.

AVERAGE DISCHARGE.--5 years, 77.2 ft^3/s (2.186 m^3/s), 55,930 acre-ft/yr (69.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,560 ft^3/s (44.2 m^3/s) June 11, 1980, gage height, 3.81 ft (1.161 m); minimum daily, 2.9 ft^3/s (0.082 m^3/s) May 11, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 989 ft^3/s (28.0 m^3/s) June 9, gage height, 3.31 ft (1.009 m); minimum, 3.0 ft^3/s (0.085 m^3/s) Mar. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	74	54	52	46	41	6.1	46	488	69	24	85
2	9.4	74	55	51	47	42	6.1	112	458	75	32	80
3	9.4	74	56	51	46	42	6.5	155	350	67	46	79
4	9.2	71	56	51	41	43	5.7	121	332	55	53	78
5	8.9	72	56	51	34	41	5.5	103	422	51	51	97
6	8.8	72	54	51	44	40	5.9	84	514	43	50	117
7	9.0	72	54	57	53	41	5.9	53	641	56	50	105
8	9.0	72	53	57	47	41	5.9	68	662	40	49	127
9	8.8	72	54	54	47	41	5.9	98	683	26	47	111
10	29	71	54	52	47	41	6.1	91	514	39	69	110
11	44	70	55	50	41	21	6.3	91	458	24	89	106
12	45	72	55	54	33	6.8	6.3	88	402	32	90	99
13	51	78	56	53	42	6.5	22	36	332	39	102	95
14	61	68	56	56	52	6.3	45	9.6	226	26	116	93
15	69	26	56	54	48	5.9	51	12	163	21	83	87
16	65	7.5	54	54	47	6.3	52	13	117	19	68	86
17	59	8.5	55	52	46	6.1	52	11	119	17	62	86
18	56	13	57	48	44	5.9	55	9.7	100	16	59	81
19	54	47	56	50	42	6.1	68	8.1	104	12	57	79
20	54	72	55	49	41	6.1	63	9.7	113	16	60	77
21	52	51	54	49	43	5.9	58	11	115	15	69	75
22	51	52	54	49	46	6.3	54	9.1	126	13	114	73
23	44	53	54	47	43	6.1	54	8.6	140	12	112	73
24	60	51	53	46	41	6.1	62	8.9	121	12	102	76
25	76	50	54	46	41	6.1	31	19	100	15	96	81
26	76	52	54	38	42	6.1	21	63	93	14	96	82
27	74	54	53	37	42	6.8	16	160	93	8.0	95	79
28	74	55	53	40	41	6.5	12	211	102	5.0	94	75
29	74	54	52	45	---	6.5	14	267	80	5.7	92	73
30	78	54	52	52	---	6.8	19	421	73	29	88	70
31	74	---	53	48	---	5.9	---	496	---	28	91	---
TOTAL	1402.4	1712.0	1687	1544	1227	559.1	821.2	2893.7	8241	899.7	2306	2635
MEAN	45.2	57.1	54.4	49.8	43.8	18.0	27.4	93.3	275	29.0	74.4	87.8
MAX	78	78	57	57	53	43	68	496	683	75	116	127
MIN	8.8	7.5	52	37	33	5.9	5.5	8.1	73	5.0	24	70
AC-FT	2780	3400	3350	3060	2430	1110	1630	5740	16350	1780	4570	5230

CAL YR 1980 TOTAL 39128.9 MEAN 107 MAX 1130 MIN 7.5 AC-FT 77610
WTR YR 1981 TOTAL 25928.1 MEAN 71.0 MAX 683 MIN 5.0 AC-FT 51430

09293500 LAKE FORK RIVER NEAR ALTONAH, UTAH

LOCATION.--Lat 40°26'13", long 110°21'49", in SE¼NE¼SW¼ sec.32, T.1 N., R.4 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060002, Uintah and Ouray Indian Reservation, on right bank 0.1 mi (0.2 km) downstream from U.S. Lake Fork Canal, 0.5 mi (0.8 km) downstream from Yellowstone River, and 4.4 mi (7.1 km) northwest of Altonah.

DRAINAGE AREA.--304 mi^2 (787 km^2).

PERIOD OF RECORD.--October 1976 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,855 ft (2,089 m) from topographic map.

REMARKS.--Records good except those for winter period and no gage-height record, Jan. 6 to Mar. 8, which are poor. Several major diversions above gage for irrigation.

AVERAGE DISCHARGE.--5 years, 115 ft^3/s (3.257 m^3/s), 83,320 acre-ft/yr (103 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,870 ft^3/s (81.3 m^3/s) June 21, 1980, gage height, 5.01 ft (1.527 m); minimum daily, 1.8 ft^3/s (0.051 m^3/s) April 19-21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,330 ft^3/s (37.7 m^3/s) June 9, gage height, 4.04 ft (1.231 m); minimum daily, 11 ft^3/s (0.31 m^3/s) Mar. 18, 19, 25, Apr. 1-6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	81	80	53	45	40	11	107	439	148	239	125
2	34	81	84	51	43	43	11	179	412	156	241	119
3	35	81	80	52	44	46	11	209	274	162	270	119
4	35	81	76	52	45	47	11	170	256	150	279	115
5	36	81	77	52	45	47	11	165	372	143	270	140
6	36	81	76	52	45	47	11	155	538	208	261	161
7	47	81	73	51	44	47	12	154	644	244	256	151
8	49	81	76	50	43	48	12	212	749	234	267	159
9	48	81	77	48	42	52	12	235	772	218	243	105
10	62	81	78	48	42	51	12	211	463	224	272	97
11	58	81	77	49	39	30	12	179	374	210	302	87
12	49	81	78	50	41	12	12	160	337	218	292	80
13	55	83	78	52	46	12	12	178	270	255	307	76
14	66	82	77	53	42	12	12	163	134	239	305	75
15	86	78	75	53	41	12	25	163	141	235	264	72
16	76	76	71	51	41	13	23	162	169	261	242	68
17	65	74	67	50	41	12	22	158	169	267	213	65
18	61	78	67	50	40	11	26	153	146	261	145	63
19	58	80	66	50	40	11	39	151	153	247	138	60
20	57	82	65	50	38	12	32	152	161	197	138	58
21	54	80	65	51	38	12	27	148	162	174	145	56
22	52	82	64	50	37	12	24	145	168	154	195	55
23	48	82	62	50	37	12	25	141	189	152	192	53
24	63	80	60	49	38	12	35	141	184	150	193	56
25	79	79	56	48	42	11	46	145	152	147	177	62
26	77	78	60	48	41	12	50	180	127	143	118	60
27	78	79	62	45	40	12	77	223	150	141	105	57
28	78	80	60	42	40	13	75	177	157	195	128	54
29	79	82	58	44	---	12	78	158	141	206	126	53
30	81	80	56	47	---	12	85	300	152	251	117	50
31	81	---	54	46	---	12	---	393	---	244	129	---
TOTAL	1813	2407	2155	1537	1160	737	851	5567	8555	6234	6569	2551
MEAN	58.5	80.2	69.5	49.6	41.4	23.8	28.4	180	285	201	212	85.0
MAX	86	83	84	53	46	52	85	393	772	267	307	161
MIN	30	74	54	42	37	11	11	107	127	141	105	50
AC-FT	3600	4770	4270	3050	2300	1460	1690	11040	16970	12370	13030	5060

CAL YR 1980 TOTAL 60405 MEAN 165 MAX 2110 MIN 22 AC-FT 119800
WTR YR 1981 TOTAL 40136 MEAN 110 MAX 772 MIN 11 AC-FT 79610

09293600 LAKE FORK RIVER NEAR ALTAMONT, UTAH

LOCATION.--Lat 40°21'28", long 110°18'46", in NE¼NE¼NE¼ sec.34, T.1 S., R.4 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, 1.7 mi (2.7 km) west of Altamont.

DRAINAGE AREA.--318 mi^2 (824 km^2).

PERIOD OF RECORD.--September 1976 to September 1981 (discontinued).

REVISED RECORDS.--WDR UT-80-1: 1978[M].

GAGE.--Water-stage recorder. Altitude of gage is 6,270 ft (1,911 m) from topographic map.

REMARKS.--Records good except those for winter period and no gage-height record, June 23 to Aug. 20, which are fair. Many diversions for irrigation above station.

AVERAGE DISCHARGE.--5 years, 31.3 ft^3/s (0.886 m^3/s), 22,680 acre-ft/yr (28.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,580 ft^3/s (44.7 m^3/s) June 20, 21, 22, 1980, gage height, 5.96 ft (1.817 m); minimum daily, 1.0 ft^3/s (0.028 m^3/s) Dec. 11-19, 1976, Dec. 12, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 567 ft^3/s (16.1 m^3/s) June 9, gage height, 4.81 ft (1.466 m); minimum daily, 1.6 ft^3/s (0.045 m^3/s) Oct. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	4.2	8.1	57	48	3.6	4.0	20	67	29	37	13
2	17	4.2	12	55	45	3.9	4.1	19	45	30	37	12
3	17	4.2	7.2	56	48	4.1	4.0	20	34	35	37	12
4	17	4.2	6.6	56	49	4.0	3.5	16	37	33	43	12
5	18	4.0	6.6	56	49	3.9	3.4	21	45	30	41	15
6	17	4.1	5.2	56	48	4.0	3.5	24	111	35	39	13
7	16	4.1	4.3	53	48	4.3	3.6	22	165	43	37	13
8	14	4.0	5.0	53	47	4.1	3.4	25	206	40	40	13
9	13	4.0	5.7	52	47	4.1	3.2	26	234	37	36	11
10	11	4.2	63	50	46	4.4	3.1	26	57	38	40	11
11	12	4.2	97	52	42	5.3	3.1	36	32	35	43	11
12	13	4.6	96	56	48	4.7	3.0	34	35	37	45	10
13	14	4.0	94	57	50	4.6	3.0	32	34	42	43	10
14	13	3.7	87	58	46	5.0	3.7	29	26	40	46	10
15	12	3.4	84	58	42	4.5	9.5	29	26	39	43	9.7
16	12	3.0	85	57	39	3.8	10	29	26	41	38	9.6
17	5.4	3.0	87	56	34	3.8	9.2	29	27	47	31	9.6
18	3.1	3.5	81	54	32	3.7	8.8	31	26	49	26	9.3
19	2.9	3.4	73	54	27	3.7	13	32	30	48	20	9.4
20	2.8	7.9	70	54	23	4.0	15	32	31	40	17	9.3
21	2.8	4.8	68	52	4.8	3.7	13	32	30	36	16	9.7
22	2.9	9.4	65	52	5.2	3.9	11	32	32	32	18	9.3
23	1.8	7.2	63	51	4.2	3.9	11	32	32	29	16	9.2
24	2.3	5.6	61	50	6.9	4.0	10	33	32	27	15	9.5
25	1.6	5.0	57	50	7.0	3.6	9.8	41	31	26	14	9.8
26	3.0	4.5	60	49	5.3	4.1	10	45	26	24	15	9.3
27	3.1	5.3	63	48	4.1	5.5	14	47	30	23	16	8.6
28	3.2	6.1	63	45	3.7	5.7	17	39	32	31	16	8.5
29	3.2	9.3	64	47	---	4.0	19	39	29	33	16	8.2
30	3.8	8.1	62	51	---	4.8	20	45	31	42	17	8.6
31	4.0	---	59	51	---	4.7	---	40	---	39	15	---
TOTAL	269.8	147.2	1662.7	1646	899.2	131.4	248.9	957	1599	1110	913	313.6
MEAN	8.70	4.91	53.6	53.1	32.1	4.24	8.30	30.9	53.3	35.8	29.5	10.5
MAX	18	9.4	97	58	50	5.7	20	47	234	49	46	15
MIN	1.6	3.0	4.3	45	3.7	3.6	3.0	16	26	23	14	8.2
AC-FT	535	292	3300	3260	1780	261	494	1900	3170	2200	1810	622

CAL YR 1980 TOTAL 19888.6 MEAN 54.3 MAX 1280 MIN 1.6 AC-FT 39450
WTR YR 1981 TOTAL 9897.8 MEAN 27.1 MAX 234 MIN 1.6 AC-FT 19630

09294000 LAKE FORK RIVER NEAR UPALCO, UTAH

LOCATION.--Lat 40°15'30", long 110°13'18", in SW¼SE¼SE¼ sec.33, T.2 S., R.3 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on right bank 100 ft (30.5 m) upstream from bridge on State Highway 86, 1.5 mi (2.4 km) south of Upalco, 9 mi (14.5 km) northwest of Myton, and 10 mi (16.1 km) upstream from mouth.

DRAINAGE AREA.--427 mi^2 (1,106 km^2).

PERIOD OF RECORD.--October 1942 to September 1955, September 1976 to September 1981 (discontinued). 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 5,480 ft (1,670 m) from topographic map. Prior to Sept. 30, 1955, at site 0.2 mi (0.3 km) upstream.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--18 years (1942-55, 1976-81), 48.0 ft^3/s (1.359 m^3/s), 34,780 acre-ft/yr (42.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,520 ft^3/s (128 m^3/s) June 26, 1944, gage height, 6.05 ft (1.844 m) site and datum then in use, from rating curve extended above 1,400 ft^3/s (39.6 m^3/s); no flow for several days during each year 1955, 1977-1980, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 381 ft^3/s (10.8 m^3/s) June 9, gage height, 5.17 ft (1.576 m); no flow July 23, 24, Aug. 1-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.47	.49	16	69	58	1.4	.40	.15	17	.13	.00	.08
2	.71	.49	18	67	58	2.6	.44	.15	3.6	.15	.00	.07
3	.80	.51	14	67	59	3.4	.80	.27	.48	.16	.00	.08
4	.73	.51	12	67	58	2.5	.54	.17	.62	.15	.00	.07
5	.78	.52	12	65	57	2.8	.21	.15	3.4	.12	.00	1.3
6	.67	.50	12	62	56	2.7	.14	.18	54	.11	.06	.88
7	.70	.50	9.7	60	55	2.0	.15	.18	81	.13	.11	.30
8	.61	.49	11	59	54	1.9	.14	.19	114	.13	.12	.19
9	.65	.49	15	61	54	2.0	.13	.25	150	.13	.13	.12
10	.54	.51	28	62	53	2.5	.12	.21	13	.16	.11	.12
11	.56	.48	88	61	50	4.1	.11	.98	.12	.17	.15	.11
12	.54	.47	88	60	50	2.9	.11	.82	.12	.32	.10	.10
13	.70	.51	87	60	48	2.0	.11	.91	.26	.37	.05	.10
14	.79	.47	87	60	46	2.1	.12	.39	.13	.15	.06	.10
15	.85	.41	86	61	43	1.7	.78	.40	.12	.14	.06	.11
16	.97	.42	84	61	41	.22	1.3	.45	.12	.13	.07	.10
17	.71	.47	83	61	39	.30	.50	.46	.12	.21	.06	.10
18	.58	.78	80	62	37	.15	.31	.41	.13	.24	.06	.09
19	.44	1.4	74	63	35	.13	1.4	.50	.17	.20	.04	.09
20	.42	1.6	79	64	33	.18	1.6	.42	.16	.11	.06	.08
21	.45	2.7	74	63	16	.33	.14	.77	.13	.04	.07	.09
22	.46	.84	68	62	12	.15	.14	.60	.13	.01	.08	.11
23	.43	.53	66	61	13	.12	.14	.53	.18	.00	.09	.11
24	.43	8.1	65	61	9.0	.13	.14	.51	.14	.00	.08	.13
25	.43	15	72	60	3.6	.12	.13	1.7	.11	.07	.09	.14
26	.44	15	68	58	6.2	.13	.13	4.1	.09	.10	.07	.14
27	.47	18	66	56	4.6	2.3	.12	8.6	.12	.08	.08	.14
28	.47	21	63	56	2.4	3.8	.13	4.7	.16	.08	.08	.14
29	.48	19	61	57	---	1.3	.15	7.0	.12	.18	.08	.14
30	.47	17	69	58	---	1.1	.15	4.5	.13	.05	.12	.15
31	.48	---	71	58	---	.51	---	4.7	---	.04	.11	---
TOTAL	18.23	129.19	1726.7	1902	1050.8	47.57	10.78	45.35	439.86	4.06	2.19	5.48
MEAN	.59	4.31	55.7	61.4	37.5	1.53	.36	1.46	14.7	.13	.071	.18
MAX	.97	21	88	69	59	4.1	1.6	8.6	150	.37	.15	1.3
MIN	.42	.41	9.7	56	2.4	.12	.11	.15	.09	.00	.00	.07
AC-FT	36	256	3420	3770	2080	94	21	90	872	8.1	4.3	11

CAL YR 1980 TOTAL 14827.99 MEAN 40.5 MAX 803 MIN .30 AC-FT 29410
WTR YR 1981 TOTAL 5382.21 MEAN 14.7 MAX 150 MIN .00 AC-FT 10680

09294500 LAKE FORK RIVER NEAR MYTON, UTAH

LOCATION.--Lat 40°12'32", long 110°06'59", in SW¼SE¼NW¼ sec.21, T.3 S., R.2 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank at highway bridge on county road 3.0 mi (4.8 km) west of Myton.

DRAINAGE AREA.--484 mi^2 (1,254 km^2).

PERIOD OF RECORD.--July 1900 to December 1903, June 1907 to September 1936, October 1976 to September 1981 (discontinued).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,120 ft (1,561 m) from topographic map. July 1900 to December 1903, June 1907 to May 6, 1919, nonrecording gages, May 7, 1919 to Sept. 3, 1929, water-stage recorder at site 500 ft (152 m) downstream at different datum, Sept. 4, 1929 to Sept. 30, 1936, nonrecording gage at present site at different datum.

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

AVERAGE DISCHARGE.--34 years (1900-02, 1908-10, 1911-36, 1976-81) 143 ft^3/s (4.05 m^3/s), 103,600 acre-ft/yr (128 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,600 ft^3/s (159 m^3/s) Nov. 24, 1927, gage height, 11.5 ft 3.51 m) site and datum then in use, caused by failure of Farnsworth Reservoir. No flow during periods in 1916, 1931, and 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 354 ft^3/s (10.0 m^3/s) June 9, gage height, 4.07 ft (1.241 m); minimum daily, 6.3 ft^3/s (0.18 m^3/s) Nov. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	18	40	76	62	9.4	18	37	32	27	31	30
2	30	19	28	75	64	13	16	32	28	31	25	30
3	43	20	22	74	64	17	15	47	25	35	18	30
4	48	20	16	77	60	19	13	55	24	34	15	31
5	42	16	19	66	55	19	13	34	27	30	15	38
6	41	17	14	64	58	18	11	23	61	32	15	46
7	40	15	15	63	61	18	12	25	98	29	15	41
8	43	12	13	62	60	18	11	30	143	17	18	35
9	41	11	19	62	60	23	17	35	175	19	24	33
10	37	11	29	64	52	27	16	37	56	33	27	40
11	40	13	78	64	56	28	26	39	30	34	24	34
12	35	11	107	64	58	29	26	46	33	34	21	33
13	51	10	106	63	55	27	20	42	50	35	21	33
14	49	8.3	101	63	52	26	22	39	52	23	22	26
15	70	8.2	92	62	50	24	25	41	51	21	21	26
16	71	7.3	99	62	45	22	33	45	44	24	24	20
17	44	6.5	100	64	40	21	27	37	42	19	24	21
18	36	6.3	96	65	38	28	25	46	38	17	26	24
19	29	7.6	88	65	38	29	22	33	35	14	23	19
20	27	12	96	65	37	33	26	28	43	14	21	22
21	27	21	86	64	21	35	22	23	40	22	23	20
22	28	19	79	62	15	33	22	21	41	23	29	17
23	27	23	77	62	12	24	22	21	38	23	27	15
24	26	15	70	62	11	25	21	21	37	19	36	17
25	22	19	76	59	9.7	24	20	23	33	29	22	20
26	19	18	79	56	11	25	21	25	32	29	21	19
27	17	25	77	56	10	24	24	30	42	36	18	23
28	18	30	74	56	9.0	25	23	22	39	30	29	28
29	18	34	69	56	---	24	23	19	38	27	33	24
30	18	27	70	56	---	22	31	22	25	32	33	22
31	18	---	76	58	---	19	---	29	---	29	40	---
TOTAL	1085	480.2	2011	1967	1163.7	728.4	623	1007	1452	821	741	817
MEAN	35.0	16.0	64.9	63.5	41.6	23.5	20.8	32.5	48.4	26.5	23.9	27.2
MAX	71	34	107	77	64	35	33	55	175	36	40	46
MIN	17	6.3	13	56	9.0	9.4	11	19	24	14	15	15
AC-FT	2150	952	3990	3900	2310	1440	1240	2000	2880	1630	1470	1620

CAL YR 1980 TOTAL 21957.3 MEAN 60.0 MAX 914 MIN 5.0 AC-FT 43550
WTR YR 1981 TOTAL 12896.3 MEAN 35.3 MAX 175 MIN 6.3 AC-FT 25580

09295000 DUCHESNE RIVER AT MYTON, UTAH

LOCATION.--Lat 40°12'01", long 110°03'47", in NE¼NW¼NW¼ sec.25, T.3 S., R.2 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank at Myton, 3 mi (5 km) downstream from Lake Fork.

DRAINAGE AREA.--2,643 mi^2 (6,845 km^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 (1,542.715 m) NGVD of 1929. Prior to Oct. 14, 1933, nonrecording gages at several sites within 0.5 mi (0.8 km) of present site at various datums.

AVERAGE DISCHARGE.--73 years (1899-1902, 1911-1981), 503 ft^3/s (14.24 m^3/s), 364,400 acre-ft/yr (449 hm^3/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 (362 m^3/s) June 10, 1922, gage height, 7.94 ft (2.420 m) site and datum then in use, from rating curve extended above 8,000 ft^3/s (227 m^3/s); minimum, less than 1 ft^3/s (0.028 m^3/s) July 16, 1931, and for several days in August and September 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,290 ft^3/s (64.8 m^3/s) June 9, gage height, 5.36 ft (1,634 m); minimum daily, 23 ft^3/s (0.651 m^3/s) Feb. 24, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	192	313	265	263	26	126	60	1300	30	58	53
2	40	206	290	260	258	32	108	91	1410	46	56	51
3	74	196	301	260	255	38	120	238	1320	53	51	51
4	81	196	298	260	269	38	117	263	1180	47	41	51
5	84	206	298	260	256	40	100	196	1250	41	35	60
6	78	216	298	260	240	78	86	132	1480	36	35	135
7	62	223	294	261	240	103	91	97	1790	35	40	144
8	66	230	279	277	245	123	91	66	1900	30	40	138
9	62	227	328	294	238	141	38	53	1910	28	42	100
10	56	227	364	301	260	156	28	53	1610	55	46	84
11	53	227	376	286	220	172	29	55	1360	106	60	56
12	53	234	395	286	230	169	34	58	1210	108	62	55
13	86	279	393	179	225	172	34	58	864	97	55	53
14	126	275	391	176	234	156	24	55	543	58	49	44
15	223	256	390	182	141	156	24	56	368	42	41	42
16	388	227	388	163	103	153	126	71	271	44	40	36
17	317	234	395	176	81	163	108	55	196	42	38	35
18	279	238	400	156	62	160	47	66	135	36	34	38
19	263	260	410	150	51	150	47	55	94	35	34	34
20	252	305	395	160	46	166	88	44	49	30	32	35
21	256	313	390	156	40	176	53	46	41	34	34	35
22	213	320	395	153	31	163	46	60	31	30	41	31
23	199	320	395	150	28	153	46	47	35	36	60	29
24	179	317	385	160	23	156	41	36	31	41	76	29
25	192	301	390	132	23	144	38	36	31	56	62	46
26	166	305	390	126	29	117	38	41	26	60	44	51
27	192	309	390	126	29	138	41	129	34	64	36	64
28	166	298	385	163	26	163	52	160	41	62	41	66
29	156	320	380	147	---	144	42	141	47	58	47	46
30	160	320	300	144	---	141	42	360	35	60	56	31
31	163	---	275	238	---	141	---	779	---	62	64	---
TOTAL	4732	7777	11071	6307	4146	4028	1905	3657	20592	1562	1450	1723
MEAN	153	259	357	203	148	130	63.5	118	686	50.4	46.8	57.4
MAX	388	320	410	301	269	176	126	779	1910	108	76	144
MIN	40	192	275	126	23	26	24	36	26	28	32	29
AC-FT	9390	15430	21960	12510	8220	7990	3780	7250	40840	3100	2880	3420

CAL YR 1980 TOTAL 118866 MEAN 325 MAX 3240 MIN 28 AC-FT 235800
WTR YR 1981 TOTAL 68950 MEAN 189 MAX 1910 MIN 23 AC-FT 136800

09297000 UINTA RIVER NEAR NEOLA, UTAH

LOCATION.--Lat 40°32'08", long 110°03'46", in SE¼SW¼SW¼ 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 (305 m) downstream from Moon Lake Electric Association, Inc. hydroelectric plant 0.8 mi (1.3 km) upstream from Pole Creek, and 7 mi (11 km) north of Neola.

DRAINAGE AREA.--163 mi^2 (422 km^2).

PERIOD OF RECORD.--July 1921 to September 1927 (no winter records 1922-25, 1927), September 1929 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,910 ft (2,106 m) from river-profile map. Prior to Aug. 4, 1951, water-stage recorder or nonrecording gages at several sites within 2,000 ft (610 m) of present site at various datums. Aug. 4, 1951 to June 11, 1965, water-stage recorder at site 50 ft (15 m) upstream at various datums.

REMARKS.--Records good except those for winter months, which are fair. 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 (0.8 km) below station. Discharge measurements, in cubic feet per second, during the water year 1981 Pole Creek canal are as follows:

Oct. 23	6.9	May 13	1.7
Nov. 6	5.9	June 10	5.7
Jan. 9	8.9	July 7	8.9
Mar. 4	7.0	Aug. 17	5.3
Apr. 9	3.0		

AVERAGE DISCHARGE.--53 years (1925-26, 1929-81), 177 ft^3/s (5.013 m^3/s), 128,200 acre-ft/yr (158 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 5,000 ft^3/s (142 m^3/s) June 11, 1965, gage height, 7.00 ft (2.134 m) from floodmarks, site and datum then in use, from rating curve extended above 1,200 ft^3/s (34.0 m^3/s); minimum recorded, 14 ft^3/s (0.40 m^3/s) Jan. 14, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 700 ft^3/s (19.8 m^3/s), 1,260 ft^3/s (35.7 m^3/s) June 9, gage height, 4.42 ft (1.347 m); minimum daily, 45 ft^3/s (1.27 m^3/s) Feb. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	85	78	59	52	51	51	297	908	275	152	136
2	115	90	80	59	51	50	53	396	908	286	149	130
3	115	88	80	59	50	51	55	468	812	299	146	127
4	112	88	80	59	50	51	48	359	733	273	151	124
5	109	88	80	60	49	51	47	315	836	253	153	155
6	107	88	80	57	49	48	53	294	924	246	152	202
7	104	88	78	59	48	50	55	236	1010	254	147	191
8	101	88	78	57	48	49	54	216	991	243	148	218
9	98	85	80	58	47	49	52	191	1020	237	148	185
10	101	85	83	57	45	53	55	182	859	271	157	176
11	102	85	83	55	47	50	55	186	786	244	161	166
12	105	84	80	55	49	51	56	175	649	246	155	156
13	114	78	78	56	49	50	61	164	544	260	186	149
14	128	72	76	54	49	51	63	174	434	238	189	144
15	142	69	76	55	49	51	73	215	369	248	171	138
16	128	67	74	53	48	52	74	233	336	237	163	135
17	122	67	74	56	48	50	72	205	309	236	151	132
18	122	68	74	56	48	49	75	193	282	221	148	128
19	112	72	71	54	47	51	97	193	275	212	144	126
20	112	77	71	55	47	52	92	233	289	198	142	124
21	109	80	69	54	48	52	78	225	295	190	141	125
22	107	76	69	54	49	53	71	201	297	184	187	124
23	96	80	67	53	49	49	69	197	283	181	177	120
24	93	83	60	52	49	51	79	201	279	183	160	126
25	93	83	61	51	48	52	100	249	266	185	155	138
26	96	83	60	51	48	54	122	340	261	187	163	130
27	96	85	61	51	49	56	135	476	294	189	156	123
28	88	88	61	52	51	55	145	614	317	180	150	118
29	90	85	59	53	---	53	176	684	297	174	145	115
30	93	85	59	53	---	55	229	844	286	166	142	114
31	88	---	59	52	---	49	---	852	---	157	143	---
TOTAL	3317	2440	2239	1709	1361	1589	2445	9808	16149	6953	4832	4275
MEAN	107	81.3	72.2	55.1	48.6	51.3	81.5	316	538	224	156	143
MAX	142	90	83	60	52	56	229	852	1020	299	189	218
MIN	88	67	59	51	45	48	47	164	261	157	141	114
AC-FT	6580	4840	4440	3390	2700	3150	4850	19450	32030	13790	9580	8480

CAL YR 1980 TOTAL 70387 MEAN 192 MAX 1960 MIN 44 AC-FT 139600
WTR YR 1981 TOTAL 57117 MEAN 156 MAX 1020 MIN 45 AC-FT 113300

09297600 WEST CHANNEL UINTA RIVER BELOW DIVERSION WORKS, NEAR WHITEROCKS, UTAH

LOCATION.--Lat 40°27'39", long 109°57'00", in NE¼NW¼NW¼ sec.25, T.1 N., R.1 W., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank 300 ft (91 m) downstream from Uinta No. 1 canal diversion works, 1.2 mi (1.9 km) southwest of Whiterocks, 1.4 mi (2.3 km) downstream from East Channel diversion works.

DRAINAGE AREA.--216 mi^2 (559 km^2).

PERIOD OF RECORD.--October 1976 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,990 ft (1,826 m), from topographic map.

REMARKS.--Records good except those for winter months and those of no gage-height record, Oct. 25 to Dec. 1, which are fair. Flow regulated by several major diversions above gage for irrigation.

AVERAGE DISCHARGE.--5 years, 39.3 ft^3/s (1.113 m^3/s), 28,470 acre-ft/yr (35.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,810 ft^3/s (79.6 m^3/s) June 11, 1980, gage height, 4.73 ft (1.442 m); minimum daily, 1.2 ft^3/s (0.034 m^3/s) Mar. 29, 30, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 225 ft^3/s (6.37 m^3/s) June 7, gage height, 3.52 ft (1.073 m); minimum daily, 9.2 ft^3/s (0.26 m^3/s) Dec. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	14	12	18	11	11	16	90	123	90	49	37
2	35	14	9.2	17	11	12	16	97	132	94	53	36
3	34	14	12	17	10	12	17	98	122	101	47	30
4	33	13	12	17	10	12	16	87	98	73	46	31
5	32	13	12	17	10	12	15	77	111	75	47	66
6	32	15	12	18	9.7	12	16	63	163	81	46	79
7	30	14	13	18	9.5	12	16	53	169	92	45	42
8	30	14	13	18	9.4	12	16	53	163	80	42	64
9	29	14	13	16	9.5	12	15	43	145	72	42	36
10	26	14	13	17	9.7	12	16	44	115	103	46	31
11	25	14	14	16	10	12	17	75	118	87	51	31
12	26	15	14	16	9.8	12	17	74	134	75	43	35
13	31	14	14	17	9.5	12	22	61	131	87	54	30
14	38	13	14	18	9.5	12	23	66	91	72	75	31
15	45	12	13	17	9.6	12	24	84	103	75	58	38
16	22	12	13	16	9.8	12	26	77	103	72	48	40
17	19	12	13	16	9.9	12	28	63	120	67	45	39
18	18	12	12	16	9.9	12	30	62	123	63	47	37
19	17	12	17	16	9.6	12	30	63	126	61	46	36
20	17	13	18	16	9.6	12	27	72	132	61	43	36
21	18	14	18	16	10	12	24	61	123	64	42	35
22	18	13	18	16	10	12	25	60	120	59	74	35
23	16	14	18	16	9.7	12	27	59	111	54	71	34
24	13	14	18	15	10	13	32	58	105	56	45	34
25	14	14	19	14	10	13	37	76	103	61	43	44
26	14	14	18	12	10	13	41	113	101	64	58	36
27	14	14	18	12	10	15	50	120	111	66	52	37
28	13	15	18	12	11	15	57	132	111	54	41	48
29	14	14	17	12	---	14	64	102	94	52	39	40
30	15	14	18	12	---	14	81	154	96	51	36	40
31	14	---	18	12	---	14	---	130	---	46	36	---
TOTAL	738	408	461.2	486	277.7	386	841	2467	3597	2208	1510	1188
MEAN	23.8	13.6	14.9	15.7	9.92	12.5	28.0	79.6	120	71.2	48.7	39.6
MAX	45	15	19	18	11	15	81	154	169	103	75	79
MIN	13	12	9.2	12	9.4	11	15	43	91	46	36	30
AC-FT	1460	809	915	964	551	766	1670	4890	7130	4380	3000	2360

CAL YR 1980 TOTAL 17886.5 MEAN 48.9 MAX 744 MIN 4.8 AC-FT 35480
WTR YR 1981 TOTAL 14567.9 MEAN 39.9 MAX 169 MIN 9.2 AC-FT 28900

09297700 EAST CHANNEL UINTA RIVER BELOW DIVERSIONS WORKS, NEAR WHITEROCKS, UTAH

LOCATION.--Lat 40°28'19", long 109°57'18", in NE¼SE¼NE¼ sec.23, T.1 N., R.1 W., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on right bank 0.7 mi (1.1 km) downstream from diversion works and 1.3 mi (2.1 km) west of Whiterocks.

DRAINAGE AREA.--215 mi^2 (557 km^2).

PERIOD OF RECORD.--October 1976 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,075 ft (1,852 m) from topographic map.

REMARKS.--Records good except those for winter months and those of no gage-height record, Dec. 30 to Mar. 3, which are fair. Several major diversions above gage for irrigation.

AVERAGE DISCHARGE.--5 years, 23.3 ft^3/s (0.660 m^3/s), 16,880 acre-ft/yr (20.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,080 ft^3/s (30.6 m^3/s) June 11, 1980, gage height, 3.66 ft (1.116 m); minimum daily, 0.16 ft^3/s (0.005 m^3/s) Sept. 19, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 522 ft^3/s (14.7 m^3/s) June 7, gage height, 3.06 ft (0.933 m); minimum observed, 0.21 ft^3/s (0.006 m^3/s) Apr. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.69	28	31	29	22	12	.33	1.2	198	7.8	1.0	16
2	.73	27	32	29	22	13	.31	5.3	216	13	1.0	9.2
3	.69	27	32	28	21	13	.31	37	138	12	1.0	20
4	.69	27	32	27	21	14	.29	11	92	2.4	1.0	15
5	.69	27	32	27	20	15	.30	1.4	128	2.2	1.0	2.1
6	.69	26	32	27	20	14	.30	1.3	147	2.0	1.0	2.1
7	.65	27	32	28	19	15	.30	1.2	222	1.7	1.0	1.5
8	.65	26	30	28	19	14	.27	1.4	280	1.6	1.0	1.8
9	.65	26	31	28	18	14	.25	1.4	265	1.8	1.0	1.4
10	.61	26	33	27	18	14	.30	1.5	135	1.7	1.0	1.3
11	.57	26	34	27	18	13	.30	1.5	102	1.4	1.1	1.4
12	.57	28	32	26	18	14	.31	1.6	51	1.3	1.0	1.4
13	.57	38	32	26	18	14	.33	1.7	17	2.2	1.1	1.3
14	.62	31	32	26	17	13	.33	2.3	7.4	2.2	1.2	1.2
15	.71	28	31	26	17	13	.40	3.2	5.6	2.0	1.1	20
16	.59	30	30	25	16	13	.44	4.2	2.9	1.7	1.0	30
17	.53	31	30	25	16	13	.36	3.8	2.5	1.7	1.0	30
18	.52	32	30	25	16	11	.40	3.8	2.2	1.6	1.0	28
19	.47	32	30	24	16	12	.52	4.1	2.2	1.4	1.0	26
20	.44	32	30	23	16	13	.52	5.4	2.3	1.4	.94	26
21	.44	32	30	23	15	13	.40	5.9	2.4	1.4	.94	27
22	.44	32	30	24	14	11	.33	5.8	2.4	1.3	1.2	26
23	.44	32	30	23	13	5.9	.33	6.2	2.2	1.3	1.1	25
24	.40	32	30	23	14	.31	.36	6.5	18	1.3	1.0	26
25	.40	30	30	22	15	.29	.52	8.0	24	1.3	1.0	14
26	.40	31	31	20	15	.30	.65	12	14	1.2	8.1	1.7
27	.40	32	32	20	13	.35	.65	22	20	1.2	24	1.7
28	.40	32	32	20	12	.33	.65	50	29	1.1	29	12
29	.40	31	31	21	---	.31	.78	55	25	1.1	29	20
30	.40	30	30	21	---	.32	1.0	110	12	1.1	28	19
31	15	---	29	22	---	.30	---	187	---	1.0	28	---
TOTAL	31.45	889	963	770	479	299.41	12.54	562.7	2165.1	76.4	171.78	408.1
MEAN	1.01	29.6	31.1	24.8	17.1	9.66	.42	18.2	72.2	2.46	5.54	13.6
MAX	15	38	34	29	22	15	1.0	187	280	13	29	30
MIN	.40	26	29	20	12	.29	.25	1.2	2.2	1.0	.94	1.2
AC-FT	62	1760	1910	1530	950	594	25	1120	4290	152	341	809

CAL YR 1980 TOTAL 10932.35 MEAN 29.9 MAX 820 MIN .21 AC-FT 21680
WTR YR 1981 TOTAL 6828.48 MEAN 18.7 MAX 280 MIN .25 AC-FT 13540

09297800 EAST CHANNEL UINTAH RIVER AT COUNTY ROAD BRIDGE, NEAR WHITEROCKS, UTAH

LOCATION.--Lat 40°27'18", long 109°56'09", in SE¼SE¼NE¼ sec.2, T.1 N., R.1 W., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on right bank on downstream side of bridge on county road, 1.0 mi (1.6 km) south of Whiterocks.

DRAINAGE AREA.--253 mi^2 (655 km^2).

PERIOD OF RECORD.--October 1976 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,905 ft (1,780 m), from topographic map.

REMARKS.--Records good. Several major irrigation diversions above gage.

AVERAGE DISCHARGE.--5 years, 36.3 ft^3/s (1.028 m^3/s) 26,300 acre-ft/yr (32.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,290 ft^3/s (36.5 m^3/s) June 10, 1980, gage height, 3.92 ft (1.195 m); minimum daily, 3.2 ft^3/s (0.091 m^3/s) Apr. 8, 9, 11, 13, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 497 ft^3/s (14.1 m^3/s) June 9, gage height, 3.09 ft (0.942 m); minimum daily, 12 ft^3/s (0.34 m^3/s) Mar. 24-26, 31, Apr. 5, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	48	45	41	40	22	13	19	240	44	23	29
2	18	48	44	41	40	24	13	24	220	52	23	22
3	18	48	49	40	40	24	13	68	159	56	22	29
4	18	46	49	41	40	24	13	36	108	39	22	27
5	17	48	49	40	39	24	12	19	162	35	22	22
6	17	46	46	37	39	22	13	19	216	33	22	24
7	17	48	46	36	35	23	13	18	261	35	21	20
8	17	46	40	35	35	22	12	19	288	34	21	21
9	17	46	43	35	35	22	13	18	347	33	22	18
10	17	45	46	36	32	23	13	18	296	36	22	18
11	16	45	50	35	27	21	13	18	239	34	23	19
12	17	48	46	35	28	22	13	18	164	33	22	18
13	17	61	48	35	30	21	13	19	109	35	23	17
14	17	54	46	36	31	21	13	20	82	32	26	16
15	21	37	44	37	32	20	14	22	70	33	25	30
16	19	43	46	37	32	21	15	25	44	33	23	39
17	18	45	46	39	32	21	14	25	43	31	21	38
18	17	50	48	39	32	19	14	24	41	29	21	36
19	16	49	46	40	30	20	16	22	41	28	21	35
20	16	49	45	40	28	21	16	23	46	27	20	33
21	16	48	45	36	25	21	15	25	47	26	20	34
22	16	48	45	39	25	20	14	24	47	26	23	34
23	16	48	45	37	24	16	14	25	41	26	23	33
24	16	49	43	36	23	12	15	25	60	26	20	34
25	16	44	45	34	24	12	15	29	63	26	19	30
26	15	46	45	34	28	12	15	36	50	27	23	17
27	15	49	44	33	26	13	15	45	58	27	36	16
28	15	49	45	33	22	13	16	86	76	25	41	22
29	15	49	43	34	---	13	17	91	66	25	40	27
30	15	49	43	35	---	13	18	151	51	24	40	27
31	24	---	41	39	---	12	---	212	---	23	39	---
TOTAL	527	1429	1406	1145	874	594	423	1223	3735	993	769	785
MEAN	17.0	47.6	45.4	36.9	31.2	19.2	14.1	39.5	125	32.0	24.8	26.2
MAX	24	61	50	41	40	24	18	212	347	56	41	39
MIN	15	37	40	33	22	12	12	18	41	23	19	16
AC-FT	1050	2830	2790	2270	1730	1180	839	2430	7410	1970	1530	1560

CAL YR 1980 TOTAL 19201.0 MEAN 52.5 MAX 965 MIN 3.2 AC-FT 38090
WTR YR 1981 TOTAL 13903.0 MEAN 38.1 MAX 347 MIN 12 AC-FT 27580

09297900 EAST CHANNEL UINTAH RIVER AT LAPOINT ROAD, NEAR LAPOINT, UTAH

LOCATION.--Lat 40°24'13", long 109°52'31", in NE¼NW¼NW¼ sec.15, T.1 S., R.1 E., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on right bank on downstream side of bridge on State Highway 121, 4.1 mi (6.6 km) west of Lapoint.

DRAINAGE AREA.--382 mi^2 (989 km^2).

PERIOD OF RECORD.--October 1976 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,470 ft (1,667 m), from topographic map.

REMARKS.--Records good. Several major irrigation diversions above gage.

AVERAGE DISCHARGE.--5 years, 47.4 ft^3/s (1.342 m^3/s), 34,340 acre-ft/yr (42.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD---Maximum discharge, 1,320 ft^3/s (37.4 m^3/s) June 10, 1980, gage height, 4.51 ft (1.375 m); no flow Oct. 3-10, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 640 ft^3/s (18.1 m^3/s June 9, gage height, 3.81 ft (1.161 m); no flow Oct. 3-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.28	50	72	58	58	29	15	104	287	16	11	37
2	.10	50	66	59	56	30	16	158	263	24	29	25
3	.00	47	76	52	64	29	16	202	184	46	40	29
4	.00	47	69	59	62	23	16	87	81	26	38	30
5	.00	49	69	61	61	22	16	17	100	14	33	34
6	.00	50	71	53	62	22	15	39	190	17	31	61
7	.00	53	72	50	58	22	15	26	268	23	30	28
8	.00	55	62	50	59	22	15	35	342	18	30	36
9	.00	55	64	49	56	21	15	23	426	16	30	28
10	.00	55	64	52	49	22	15	26	318	23	33	31
11	1.4	55	78	52	44	22	15	58	202	22	34	32
12	3.3	55	82	52	44	22	15	34	84	19	27	29
13	3.5	69	78	51	46	22	10	20	56	22	26	28
14	5.2	53	76	54	48	21	3.5	36	33	13	39	26
15	10	47	69	55	49	21	3.2	80	37	7.2	35	29
16	10	46	69	55	50	20	3.0	53	21	3.5	36	42
17	9.9	49	71	55	50	20	2.7	35	21	7.2	27	38
18	10	58	71	55	49	20	2.6	31	21	15	34	35
19	10	61	69	54	46	19	2.6	36	24	13	27	32
20	13	50	66	56	44	19	2.6	111	33	8.6	22	31
21	18	47	69	55	34	20	2.5	45	32	10	20	31
22	19	52	52	50	37	20	2.3	17	30	15	32	32
23	18	55	56	50	34	18	2.2	27	22	24	32	29
24	17	55	49	52	32	15	2.1	34	31	27	21	33
25	17	49	66	44	32	15	2.6	55	32	20	19	39
26	18	52	67	40	36	15	3.8	73	22	11	16	29
27	18	58	64	42	36	16	3.8	65	21	9.4	22	22
28	19	62	64	45	30	17	5.2	144	34	10	27	23
29	19	74	62	48	---	17	15	113	35	15	25	28
30	20	74	55	50	---	16	56	139	22	17	25	26
31	30	---	67	52	---	15	---	236	---	14	30	---
TOTAL	289.68	1632	2085	1610	1326	632	309.7	2159	3272	525.9	881	953
MEAN	9.34	54.4	67.3	51.9	47.4	20.4	10.3	69.6	109	17.0	28.4	31.8
MAX	30	74	82	61	64	30	56	236	426	46	40	61
MIN	.00	46	49	40	30	15	2.1	17	21	3.5	11	22
AC-FT	575	3240	4140	3190	2630	1250	614	4280	6490	1040	1750	1890

CAL YR 1980 TOTAL 27824.80 MEAN 76.0 MAX 1140 MIN .00 AC-FT 55190
WTR YR 1981 TOTAL 15675.28 MEAN 42.9 MAX 426 MIN .00 AC-FT 31090

09298000 FARM CREEK NEAR WHITEROCKS, UTAH

LOCATION.--Lat 40°34'03", long 109°57'39", in SE¼NW¼SE¼ sec.14, T.2 N., R.1 W., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 0.7 mi (1.1 km) upstream from Hominy Creek and 7 mi (11 km) northwest of Whiterocks.

DRAINAGE AREA.--14.9 mi^2 (38.6 km^2).

PERIOD OF RECORD.--July 1949 to September 30, 1981 (discontinued).

REVISED RECORDS.--WSP 2125: Drainage area. WDR UT-76-1: 1975.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,040 ft (2,146 m) by barometer.

REMARKS.--Records good.

AVERAGE DISCHARGE.--32 years, 6.09 ft^3/s (0.172 m^3/s), 4,410 acre-ft/yr (5.44 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 350 ft^3/s (9.91 m^3/s) June 3, 1968; gage height, 3.95 ft (1.204 m), from rating curve extended above 140 ft^3/s (3.96 m^3/s); minimum, 1.2 ft^3/s (0.034 m^3/s) Apr. 2, 1965, Mar. 29, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 20 ft^3/s (0.57 m^3/s); and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 2	2200	43	1.22	2.62	0.799
May 27	2000	*54	1.53	2.73	.832

Minimum daily, 3.0 ft^3/s (0.085 m^3/s) Jan. 18-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	3.6	3.5	3.2	3.2	3.4	3.2	24	24	5.5	3.5	3.2
2	3.6	3.6	3.4	3.2	3.2	3.4	3.3	32	21	5.5	3.5	3.2
3	3.6	3.6	3.5	3.2	3.2	3.4	3.4	34	20	5.5	3.5	3.2
4	3.7	3.6	3.5	3.2	3.2	3.4	3.2	25	18	5.4	3.5	3.2
5	3.6	3.6	3.5	3.2	3.2	3.4	3.2	25	16	5.1	3.5	3.7
6	3.6	3.6	3.4	3.2	3.2	3.4	3.2	23	15	5.0	3.5	3.4
7	3.6	3.6	3.4	3.2	3.2	3.3	3.3	19	15	4.9	3.5	3.5
8	3.6	3.6	3.4	3.2	3.2	3.2	3.2	18	13	4.6	3.5	3.4
9	3.6	3.6	3.4	3.2	3.2	3.2	3.2	17	12	4.6	3.5	3.4
10	3.6	3.6	3.4	3.2	3.2	3.3	3.4	17	11	4.5	3.6	3.4
11	3.6	3.6	3.4	3.2	3.2	3.2	3.4	18	11	4.4	3.6	3.3
12	3.6	3.7	3.4	3.2	3.2	3.2	3.4	17	10	4.4	3.6	3.2
13	3.8	3.8	3.4	3.2	3.1	3.2	3.5	16	9.6	4.4	3.6	3.2
14	3.9	3.6	3.4	3.2	3.2	3.2	3.6	17	9.3	4.3	3.5	3.2
15	4.2	3.6	3.4	3.2	3.2	3.2	3.9	20	8.8	4.2	3.6	3.2
16	3.9	3.6	3.4	3.2	3.2	3.3	4.0	19	8.6	4.1	3.5	3.2
17	3.8	3.6	3.4	3.1	3.2	3.3	4.0	17	8.3	4.1	3.5	3.2
18	3.8	3.6	3.4	3.0	3.4	3.2	3.9	16	8.0	4.0	3.3	3.2
19	3.6	3.6	3.4	3.0	3.4	3.2	4.1	15	7.7	4.0	3.3	3.2
20	3.6	3.6	3.4	3.0	3.4	3.3	4.1	17	7.6	3.9	3.4	3.2
21	3.6	3.6	3.4	3.0	3.4	3.2	4.0	16	7.3	3.8	3.4	3.2
22	3.6	3.6	3.4	3.2	3.3	3.2	4.0	16	7.0	3.8	3.4	3.2
23	3.6	3.6	3.4	3.2	3.4	3.2	3.9	16	6.8	3.8	3.3	3.1
24	3.6	3.6	3.3	3.2	3.4	3.2	4.0	17	6.6	3.8	3.4	3.2
25	3.6	3.5	3.2	3.2	3.4	3.2	4.0	18	6.3	3.8	3.3	3.2
26	3.6	3.5	3.2	3.2	3.4	3.3	4.1	22	6.0	3.9	3.3	3.2
27	3.6	3.5	3.2	3.2	3.4	3.4	4.6	33	6.0	3.8	3.3	3.2
28	3.6	3.5	3.2	3.2	3.4	3.3	8.7	35	5.7	3.8	3.3	3.2
29	3.6	3.6	3.2	3.2	---	3.3	11	29	5.6	3.7	3.2	3.2
30	3.6	3.6	3.2	3.3	---	3.3	17	32	5.4	3.6	3.3	3.1
31	3.6	---	3.2	3.2	---	3.2	---	33	---	3.5	3.3	---
TOTAL	113.5	107.9	104.3	98.4	91.6	101.5	135.8	673	316.6	133.7	106.5	97.5
MEAN	3.66	3.60	3.36	3.17	3.27	3.27	4.53	21.7	10.6	4.31	3.44	3.25
MAX	4.2	3.8	3.5	3.3	3.4	3.4	17	35	24	5.5	3.6	3.7
MIN	3.6	3.5	3.2	3.0	3.1	3.2	3.2	15	5.4	3.5	3.2	3.1
AC-FT	225	214	207	195	182	201	269	1330	628	265	211	193

CAL YR 1980 TOTAL 3743.1 MEAN 10.2 MAX 117 MIN 2.1 AC-FT 7420
WTR YR 1981 TOTAL 2080.3 MEAN 5.70 MAX 35 MIN 3.0 AC-FT 4130

09299400 WHITEROCKS RIVER BELOW DAM SITE, NEAR WHITEROCKS, UTAH

LOCATION.--Lat 40°35'13", long 109°55'37, in SE¼NE¼NW¼ sec.7, T.2 N., R.1 E., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, Ashley National Forest on left bank, 3.2 mi (5.1 km) upstream from U.S. Forest Boundary, and 9.6 mi (15.4 km) northeast of Whiterocks.

DRAINAGE AREA.--110 mi^2 (285 km^2).

PERIOD OF RECORD.--October 1976 to September 30, 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 7,160 ft (2,182 m), from topographic map.

REMARKS.--Records good except those for winter periods, which are fair. Flow slightly regulated by small mountain lakes. One small diversion 0.5 mi (0.8 km) above station for irrigation of about 100 acres (0.40 km^2) below station.

AVERAGE DISCHARGE.--5 years, 90.6 ft^3/s (2.57 m^3/s), 65,640 acre-ft/yr (80.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,660 ft^3/s (47.0 m^3/s) June 10, 1980, gage height, 5.01 ft (1.527 m); minimum, 8.1 ft^3/s (0.23 m^3/s) Mar. 9, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 522 ft^3/s (14.8 m^3/s) May 27, gage height, 3.93 ft (1.198 m); minimum, 13 ft^3/s (0.37 m^3/s) Jan 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	52	33	29	27	23	25	364	435	149	93	88
2	69	51	33	28	28	23	26	424	406	150	138	85
3	68	49	33	28	28	23	25	404	385	171	137	82
4	68	49	33	28	28	24	23	287	338	159	139	70
5	61	47	33	28	28	24	24	246	348	142	137	97
6	59	47	34	27	28	23	25	222	377	136	136	117
7	59	47	34	27	28	24	24	182	384	136	136	105
8	80	45	31	26	28	24	24	162	368	130	134	95
9	82	43	31	26	27	23	26	142	368	125	138	83
10	82	43	33	26	26	23	27	140	323	129	143	78
11	87	42	33	26	26	23	28	150	287	121	141	74
12	91	46	34	26	26	23	29	137	264	129	138	72
13	98	48	33	27	27	23	31	128	239	143	148	70
14	96	38	33	27	26	23	32	158	213	131	152	65
15	105	32	33	26	25	23	42	209	197	124	141	61
16	96	37	31	26	24	23	38	188	180	103	135	59
17	88	39	31	28	24	23	38	161	168	100	122	57
18	84	40	31	29	24	23	44	147	158	101	116	56
19	81	41	31	30	23	23	68	178	148	96	111	54
20	79	41	31	29	23	23	55	216	145	89	108	54
21	77	38	30	28	23	22	46	173	137	85	110	55
22	74	39	30	28	23	23	40	152	140	82	130	55
23	66	36	30	28	24	24	40	148	147	80	115	55
24	63	37	30	26	23	24	53	165	142	83	107	57
25	63	36	30	25	23	24	76	213	138	93	105	68
26	63	35	30	25	22	24	114	290	137	90	103	64
27	58	37	29	25	23	24	134	387	138	88	101	59
28	56	36	29	25	23	25	146	403	140	91	97	56
29	54	35	29	25	---	25	196	398	144	89	95	53
30	55	34	29	25	---	26	270	424	145	87	94	51
31	54	---	29	26	---	25	---	435	---	92	93	---
TOTAL	2285	1240	974	833	708	730	1769	7433	7139	3524	3793	2095
MEAN	73.7	41.3	31.4	26.9	25.3	23.5	59.0	240	238	114	122	69.8
MAX	105	52	34	30	28	26	270	435	435	171	152	117
MIN	54	32	29	25	22	22	23	128	137	80	93	51
AC-FT	4530	2460	1930	1650	1400	1450	3510	14740	14160	6990	7520	4160

CAL YR 1980 TOTAL 46933 MEAN 128 MAX 1270 MIN 18 AC-FT 93090
WTR YR 1981 TOTAL 32523 MEAN 89.1 MAX 435 MIN 22 AC-FT 64510

09299500 WHITEROCKS RIVER NEAR WHITEROCKS, UTAH

LOCATION.--Lat 40°33'54", long 109°55'37", in SE¼SE¼SW¼ sec.18, T.2 N., R.1 E., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, on left bank 0.8 mi (1.3 km) upstream from heading of United States Whiterocks Canal, and 6.5 mi (10.5 km) north of Whiterocks.

DRAINAGE AREA.--113 mi^2 (293 km^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 (2,128 m) from river-profile map. Prior to Oct. 16, 1930, nonrecording gages at several sites within 1 mi (2 km) of present site at various datums, Oct. 16, 1930 to Nov. 7, 1979, water-stage recorder at site 60 ft (18 m) downstream at different datum. Nov. 8, 1949 to June 14, 1975, water-stage recorder at site 40 ft (12 m) upstream at different datum.

REMARKS.--Records fair. Flow slightly regulated by small mountain lakes. One small diversion 2 mi (3 km) above station for irrigation of about 100 acres (0.40 km^2) above and below station.

AVERAGE DISCHARGE.--74 years (1899-1903, 1908-10, 1913-81), 122 ft^3/s (3.455 m^3/s), 88,390 acre-ft/yr (109 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge determined, 2,750 ft^3/s (77.9 m^3/s) June 20, 21, 1922, gage height, 5.40 ft (1.646 m) site and datum then in use, from rating curve extended above 1,700 ft^3/s (48.1 m^3/s); minimum recorded, 9.2 ft^3/s (0.26 m^3/s) Apr. 3, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 580 ft^3/s (16.4 m^3/s) May 2, gage height, 3.71 ft (1.131 m), no peak above base of 600 ft^3/s (17.0 m^3/s); minimum, 14 ft^3/s (0.40 m^3/s) Apr. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	51	36	30	26	26	28	414	443	164	93	84
2	67	51	38	29	28	24	28	479	424	175	137	81
3	67	49	34	29	29	25	27	466	401	184	137	80
4	67	49	34	29	29	25	27	340	350	172	139	69
5	58	47	35	30	29	25	29	301	352	154	138	95
6	56	48	36	29	29	25	28	268	387	147	137	115
7	56	47	35	29	29	26	27	232	397	145	136	100
8	79	46	34	29	29	26	27	206	378	138	135	89
9	82	44	34	29	29	25	29	182	375	133	136	79
10	80	44	35	29	29	24	31	176	332	136	141	75
11	85	43	36	28	28	24	33	189	298	129	138	72
12	89	48	36	28	28	24	34	175	276	137	136	72
13	97	50	36	28	28	24	39	163	252	151	144	69
14	95	39	37	28	27	24	42	189	228	140	145	64
15	105	30	37	28	25	25	53	254	211	130	135	60
16	95	44	34	28	25	24	48	228	193	113	130	58
17	89	43	33	28	25	24	49	195	180	108	117	56
18	84	46	33	28	25	24	56	177	168	108	111	55
19	80	42	33	28	25	24	85	204	159	102	107	55
20	79	41	32	28	25	24	70	253	154	95	105	54
21	76	39	32	28	25	24	60	204	149	89	107	55
22	74	41	32	28	25	24	55	178	166	87	125	55
23	64	38	31	27	25	25	55	173	164	85	110	54
24	64	39	32	26	25	25	72	186	158	87	102	58
25	64	39	31	25	26	26	101	235	153	97	101	69
26	64	37	31	24	23	26	141	306	150	93	98	65
27	59	36	31	24	24	26	168	394	150	90	95	59
28	55	36	31	24	26	26	180	428	154	94	91	56
29	54	36	31	24	---	27	238	414	168	91	90	53
30	54	36	31	25	---	27	318	440	166	89	89	52
31	52	---	31	25	---	28	---	447	---	94	89	---
TOTAL	2258	1279	1042	852	746	776	2178	8496	7536	3757	3694	2058
MEAN	72.8	42.6	33.6	27.5	26.6	25.0	72.6	274	251	121	119	68.6
MAX	105	51	38	30	29	28	318	479	443	184	145	115
MIN	52	30	31	24	23	24	27	163	149	85	89	52
AC-FT	4480	2540	2070	1690	1480	1540	4320	16850	14950	7450	7330	4080

CAL YR 1980 TOTAL 47665 MEAN 130 MAX 1310 MIN 19 AC-FT 94540
WTR YR 1981 TOTAL 34672 MEAN 95.0 MAX 479 MIN 23 AC-FT 68770

09299600 WHITEROCKS RIVER BELOW FARM CREEK CANAL, NEAR WHITEROCKS, UTAH

LOCATION.--Lat 40°31'57", long 109°55'21", in SE¼NW¼NE¼ sec.31, T.2 N., R.1 E., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank on downstream side of county road, 1.2 mi (1.9 km) downstream from Ashley National Forest Boundary and 6.6 mi (10.6 km) northeast of Whiterocks.

DRAINAGE AREA.--120 mi^2 (311 km^2).

PERIOD OF RECORD.--October 1976 to September 30, 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,690 ft (2,040 m) from topographic map.

REMARKS.--Records good except those for winter periods, which are fair. Several major irrigation diversions upstream from station.

AVERAGE DISCHARGE.--5 years, 68.5 ft^3/s (1.940 m^3/s), 49,630 acre-ft/yr (61.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,260 ft^3/s (35.7 m^3/s) May 28, 1979, gage height, 4.65 ft (1.417 m) probably exceeded by peak flow of June 12, 1980; minimum, 5.8 ft^3/s (0.16 m^3/s) March 18, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 455 ft^3/s (12.9 m^3/s) May 27, 28, gage height, 2.63 ft (0.802 m); minimum, 5.8 ft^3/s (0.16 m^3/s) Mar. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	44	32	24	20	15	13	304	353	92	71	68
2	31	44	46	23	21	15	14	353	358	104	109	64
3	31	40	29	21	22	14	13	335	330	113	111	64
4	31	40	29	21	22	14	13	194	262	102	109	52
5	25	38	31	21	22	14	13	182	254	89	105	70
6	22	39	32	21	22	13	16	188	290	92	104	92
7	22	38	31	20	21	13	15	146	304	91	104	78
8	39	37	31	21	21	13	14	128	282	86	102	72
9	43	36	32	21	21	13	14	107	278	81	102	61
10	48	36	33	22	20	13	17	104	236	84	109	56
11	58	35	33	23	20	13	18	96	203	78	107	54
12	60	37	34	22	20	13	18	80	197	84	102	52
13	65	42	34	21	20	13	16	70	194	91	105	50
14	67	33	34	22	20	13	13	84	162	76	113	46
15	77	15	33	23	19	12	21	149	144	67	104	42
16	68	16	32	22	18	11	18	132	128	52	100	40
17	61	18	31	22	17	11	16	102	113	54	89	38
18	58	20	30	23	17	11	21	86	98	61	91	36
19	55	22	29	23	17	11	44	105	88	56	86	35
20	60	22	29	22	17	10	33	173	83	53	80	35
21	64	20	28	22	17	10	23	128	78	52	80	35
22	62	21	28	22	16	11	18	102	96	55	100	36
23	53	20	28	21	16	11	18	92	100	61	86	34
24	53	19	28	20	15	11	27	105	94	61	80	36
25	53	19	28	20	15	12	46	149	89	59	81	44
26	53	18	27	21	14	12	80	222	83	54	75	44
27	50	23	27	20	14	12	92	304	81	50	72	38
28	46	25	26	20	14	13	96	344	84	59	68	36
29	46	29	25	20	---	13	149	299	100	62	64	35
30	46	23	25	20	---	13	240	335	96	60	62	32
31	46	---	25	20	---	13	---	344	---	68	68	---
TOTAL	1525	869	940	664	518	386	1149	5542	5258	2247	2839	1475
MEAN	49.2	29.0	30.3	21.4	18.5	12.5	38.3	179	175	72.5	91.6	49.2
MAX	77	44	46	24	22	15	240	353	358	113	113	92
MIN	22	15	25	20	14	10	13	70	78	50	62	32
AC-FT	3020	1720	1860	1320	1030	766	2280	10990	10430	4460	5630	2930

CAL YR 1980 TOTAL 36854 MEAN 101 MAX 1260 MIN 15 AC-FT 73100
WTR YR 1981 TOTAL 23412 MEAN 64.1 MAX 358 MIN 10 AC-FT 46440

09299700 WHITEROCKS RIVER AT WHITEROCKS, UTAH

LOCATION.--40°28'02", long 109°54'48", in SW¼NW¼SW¼ sec.20, T.1 N., R.1 E., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on right bank on downstream side of county road 0.9 mi (1.4 km) east of Whiterocks.

DRAINAGE AREA.--124 mi^2 (321 km^2).

PERIOD OF RECORD.--October 1976 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,020 ft (1,835 m) from topographic map.

REMARKS.--Records good. Several major irrigation diversions above station.

AVERAGE DISCHARGE.--5 years, 35.3 ft^3/s (1.000 m^3/s), 25,570 acre-ft/yr (31.5 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,660 ft^3/s (47.0 m^3/s) June 11, 1980, gage height, 5.81 ft (1.771 m); no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 241 ft^3/s (6.83 m^3/s) May 28, gage height, 4.49 ft (1.369 m); no flow Mar. 4-29, Apr. 1-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.2	3.1	20	14	1.4	.00	120	171	38	22	33
2	2.8	2.8	4.3	17	9.7	.82	.00	155	171	45	44	29
3	2.8	2.8	6.6	16	14	.07	.00	150	159	60	45	28
4	2.6	2.4	15	16	15	.00	.00	95	120	50	43	25
5	3.0	2.2	18	16	14	.00	.00	53	115	35	38	44
6	3.0	1.9	20	12	17	.00	.00	44	140	34	37	67
7	2.2	1.9	21	16	14	.00	.00	40	152	37	37	34
8	2.1	1.9	12	16	15	.00	.00	36	133	30	36	38
9	2.0	1.8	16	17	17	.00	.00	26	133	27	34	36
10	3.0	1.8	12	18	12	.00	.00	38	102	36	41	39
11	7.2	1.8	22	14	6.4	.00	.00	78	73	31	41	38
12	8.4	1.9	21	11	17	.00	.00	60	48	36	34	36
13	9.7	2.0	17	14	20	.00	.52	51	43	44	37	35
14	8.4	1.6	20	14	17	.00	1.6	76	57	31	47	31
15	13	1.4	22	20	15	.00	1.5	102	67	23	43	25
16	12	1.5	20	11	14	.00	1.2	83	60	17	42	24
17	8.4	1.6	18	17	14	.00	3.5	60	64	20	34	23
18	6.8	1.8	20	15	14	.00	7.9	64	57	27	40	21
19	5.5	1.9	20	12	13	.00	8.6	78	70	23	37	19
20	4.3	2.0	17	17	7.2	.00	7.8	102	76	16	31	16
21	4.3	1.9	17	13	4.1	.00	5.7	45	70	16	29	17
22	4.3	1.8	18	14	2.6	.00	4.6	48	54	17	42	20
23	4.3	1.9	17	14	2.4	.00	4.0	70	48	23	34	19
24	4.3	1.8	15	16	2.2	.00	4.5	81	45	26	27	17
25	4.3	1.9	16	9.7	2.1	.00	12	93	41	26	26	28
26	4.3	2.0	18	4.7	2.1	.00	17	105	40	21	22	31
27	4.3	2.2	18	6.8	1.8	.00	26	122	38	19	18	25
28	4.1	2.9	20	22	1.6	.00	34	171	40	19	16	22
29	3.9	3.3	17	17	---	.00	47	136	43	21	14	21
30	3.5	3.0	17	15	---	.56	70	159	38	19	13	20
31	3.5	---	20	12	---	1.7	---	159	---	21	22	---
TOTAL	155.3	62.9	518.0	453.2	298.2	4.55	257.42	2700	2468	888	1026	861
MEAN	5.01	2.10	16.7	14.6	10.7	.15	8.58	87.1	82.3	28.6	33.1	28.7
MAX	13	3.3	22	22	20	1.7	70	171	171	60	47	67
MIN	2.0	1.4	3.1	4.7	1.6	.00	.00	26	38	16	13	16
AC-FT	308	125	1030	899	591	9.0	511	5360	4900	1760	2040	1710

CAL YR 1980	TOTAL	23908.98	MEAN 65.3	MAX 1190	MIN .00	AC-FT	47420
WTR YR 1981	TOTAL	9692.57	MEAN 26.6	MAX 171	MIN .00	AC-FT	19230

09300500 UINTA RIVER AT FORT DUCHESNE, UTAH

LOCATION.--Lat 40°18'07", long 109°51'09", in SW¼SE¼SW¼ sec.14, T.2 S., R.1 E., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank on upstream side of bridge on State Highway 40, 6.3 mi (10.1 km) above Dry Gulch, and 0.9 mi (1.4 km) north of Fort Duchesne.

DRAINAGE AREA.--557 mi^2 (1,443 km2).

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

PERIOD OF RECORD.--September 1899 to December 1904 (no winter records 1903-4), April to June 1906 (gage heights only), April to November 1907, April 1908 to November 1910, May to July and October to December 1917, March 1918 to September 1920 (no winter records 1918-19), October 1942 to September 1958, October 1976 to September 1981 (discontinued). Published as "near Fort Duchesne" 1917-20.

GAGE.--Water-stage recorder. Altitude of gage is 5,020 ft (1,530 m), from topographic map. Prior to Nov. 30, 1910, and June 27 to July 13, 1917, staff or chain gages at site 1 mi (1.6 km) downstream at different datums. May 11 to June 11, 1917, staff gage and Oct. 23, 1917, to Sept. 30, 1920, water-stage recorder at site 2.8 mi (4.5 km) downstream at different datums. October 1942 to September 1958, water-stage recorder at site 0.25 mi (0.40 km) downstream at different datum.

REMARKS.--Records good except those for winter months, which are fair. Several major irrigation diversions above station.

AVERAGE DISCHARGE.--26 years (1899-1902, 1908-10, 1942-58, 1976-81), 101 ft^3/s (2.860 m^3/s), 73,170 acre-ft/yr (90.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--1899-1904, 1906-10, 1917-20, 1942-58, 1976-81; maximum discharge, more than 7,500 ft^3/s (212 m^3/s) between June 16 and 23, 1917, gage height, 6.52 ft (1.987 m) from floodmarks, site and datum then in use; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 430 ft^3/s (12.2 m^3/s) June 9, gage height, 3.01 ft (0.92 m); minimum daily, 1.5 ft^3/s (0.042 m^3/s) Apr. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	12	30	42	91	15	4.8	34	222	5.4	5.7	15
2	4.8	14	37	43	98	15	4.5	70	240	8.3	8.8	7.5
3	3.2	12	23	42	89	19	5.1	127	172	22	17	6.1
4	2.9	13	23	43	95	17	7.9	70	84	12	11	9.7
5	3.8	18	25	45	100	14	5.7	13	54	5.7	6.1	8.8
6	4.8	21	37	42	102	14	5.1	10	126	5.7	4.8	33
7	4.5	21	40	39	106	14	4.5	12	201	15	4.8	10
8	4.2	23	32	44	119	14	4.8	11	257	13	5.7	11
9	4.2	23	31	50	94	12	4.8	13	324	8.3	5.1	8.3
10	4.5	23	29	68	86	12	4.5	9.7	282	12	5.1	7.5
11	4.8	22	26	64	94	12	4.2	10	187	18	8.3	9.7
12	5.1	17	25	58	109	11	4.5	13	90	16	6.6	7.0
13	7.5	15	27	56	127	7.0	4.2	9.7	39	18	5.1	5.4
14	8.8	15	28	70	108	5.7	3.2	7.9	21	17	7.9	4.8
15	13	16	30	92	84	5.4	2.6	29	23	5.7	9.7	4.5
16	22	19	33	98	78	5.1	5.1	17	15	3.8	12	6.6
17	17	21	37	98	79	5.7	5.7	15	13	3.8	3.5	8.3
18	14	23	38	92	77	6.1	7.0	14	12	4.5	2.4	7.0
19	14	26	37	105	70	5.7	6.1	9.7	11	7.9	3.5	5.7
20	14	27	33	110	64	6.1	7.5	32	15	5.1	9.7	6.6
21	14	25	35	112	45	8.8	7.0	17	17	3.5	12	6.6
22	15	17	33	120	44	8.3	6.6	9.2	15	3.5	12	13
23	14	17	32	114	43	6.1	5.7	8.8	8.3	8.3	16	8.3
24	13	18	31	97	37	5.4	2.9	12	12	17	12	7.0
25	13	17	34	86	33	4.5	1.9	17	19	17	5.7	11
26	14	15	34	90	34	4.5	1.9	25	14	8.8	4.8	10
27	14	15	33	100	32	4.2	2.1	32	6.6	5.7	4.5	6.6
28	15	16	35	110	24	4.5	1.5	81	16	4.8	15	4.5
29	17	24	36	88	---	5.1	2.4	148	21	3.8	12	5.4
30	17	23	36	81	---	4.8	24	122	8.3	4.8	11	6.6
31	17	---	38	85	---	4.5	---	197	---	7.0	7.9	---
TOTAL	323.9	568	998	2384	2162	276.5	157.8	1196.0	2525.2	291.4	255.7	261.5
MEAN	10.4	18.9	32.2	76.9	77.2	8.92	5.26	38.6	84.2	9.40	8.25	8.72
MAX	22	27	40	120	127	19	24	197	324	22	17	33
MIN	2.9	12	23	39	24	4.2	1.5	7.9	6.6	3.5	2.4	4.5
AC-FT	642	1130	1980	4730	4290	548	313	2370	5010	578	507	519

CAL YR 1980 TOTAL 29208.5 MEAN 79.8 MAX 2420 MIN 1.5 AC-FT 57940
WTR YR 1981 TOTAL 11400.0 MEAN 31.2 MAX 324 MIN 1.5 AC-FT 22610

09301200 DRY GULCH NEAR FORT DUCHESNE, UTAH

LOCATION.--Lat 40°14'20", long 109°51'06", in NW¼SE¼NW¼ sec.11, T.3 S., R.1 E., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank 0.4 mi (0.6 km) downstream from bridge on county road, 1.1 mi (1.8 km) from mouth, and 3.5 mi (5.6 km) south of Fort Duchesne.

DRAINAGE AREA.--469 mi^2 (1,215 km^2).

PERIOD OF RECORD.--October 1976 to September 1981 (discontinued).

REVISED RECORDS.--WDR UT-79-1: 1978.

GAGE.--Water-stage recorder. Altitude of gage is 4,850 ft (1,478 m) from topographic map.

REMARKS.--Records good except those for winter periods, which are fair. Flow slightly regulated by Montes Creek Reservoir, total capacity 1,000 acre-ft (1.23 hm^3) about 11 mi (18 km) above station and several major diversions for irrigation above and below station.

AVERAGE DISCHARGE.--5 years, 34.1 ft^3/s (0.966 m^3/s), 24,710 acre-ft/yr (30.5 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 602 ft^3/s (17.0 m^3/s) Mar. 30, 1979, gage height, 4.44 ft (1.353 m); minimum daily, 5.0 ft^3/s (0.14 m^3/s) July 19, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 259 ft^3/s (7.33 m^3/s) Oct. 16, gage height, 2.85 ft (0.869 m); minimum daily, 14 ft^3/s (0.40 m^3/s) Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	69	64	38	28	30	27	24	92	28	17	18
2	35	64	62	39	27	34	28	23	103	34	16	23
3	33	65	62	36	27	46	31	47	105	36	17	27
4	35	61	62	35	27	46	35	50	138	30	16	27
5	34	56	61	37	28	42	31	50	143	27	15	33
6	30	52	61	27	30	42	29	41	138	36	16	40
7	37	52	58	26	31	46	29	41	161	34	18	44
8	37	54	52	24	32	41	31	45	176	32	19	40
9	36	48	46	27	32	39	33	52	151	28	20	42
10	41	52	48	31	27	33	26	47	128	28	17	36
11	46	48	54	32	21	27	24	41	123	40	21	28
12	34	48	60	29	22	27	21	45	113	34	21	23
13	55	52	62	26	25	26	18	47	82	38	21	22
14	67	50	61	26	27	26	17	49	67	31	26	21
15	117	54	65	27	29	27	18	54	71	33	30	17
16	217	46	63	29	29	28	20	70	65	36	23	20
17	143	40	59	30	29	27	18	66	64	28	26	19
18	95	40	63	32	29	24	17	62	56	23	22	19
19	79	42	57	34	28	24	20	56	50	22	24	20
20	71	50	46	34	27	23	26	50	44	23	23	21
21	71	46	47	33	27	26	24	46	36	19	30	22
22	69	46	44	32	26	25	24	56	35	16	31	26
23	65	46	45	32	27	20	26	58	34	16	26	27
24	64	52	41	33	26	21	22	55	28	21	27	26
25	65	57	40	33	26	18	23	55	32	22	24	28
26	67	58	41	32	27	20	18	51	28	19	18	35
27	66	59	41	31	34	25	16	52	30	18	19	31
28	64	65	42	30	31	27	18	66	35	16	20	28
29	65	68	40	31	---	29	21	137	33	16	14	25
30	67	66	38	30	---	28	21	106	28	16	16	27
31	69	---	38	29	---	26	---	98	---	16	17	---
TOTAL	2012	1606	1623	965	779	923	712	1740	2389	816	650	815
MEAN	64.9	53.5	52.4	31.1	27.8	29.8	23.7	56.1	79.6	26.3	21.0	27.2
MAX	217	69	65	39	34	46	35	137	176	40	31	44
MIN	30	40	38	24	21	18	16	23	28	16	14	17
AC-FT	3990	3190	3220	1910	1550	1830	1410	3450	4740	1620	1290	1620

CAL YR 1980 TOTAL 22440 MEAN 61.3 MAX 360 MIN 12 AC-FT 44510
WTR YR 1981 TOTAL 15030 MEAN 41.2 MAX 217 MIN 14 AC-FT 29810

09301500 UINTA RIVER AT RANDLETT, UTAH

LOCATION.--Lat 40°14'01", long 109°48'11", in SE¼SE¼SE¼ sec.7, T.3 S., R.2 E., Uintah County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on right bank at Randlett, 0.1 mi (0.161 km) upstream from bridge on State Highway 88, and 2.8 mi (4.5 km) from mouth.

DRAINAGE AREA.--1,064 mi^2 (2,756 km^2).

PERIOD OF RECORD.--November 1899 to November 1904, October 1976 to September 1981 (discontinued). November 1899 to November 1904, published as "at Ouray School".

GAGE.--Water-stage recorder. Altitude of gage is 4,790 ft (1,460 m) from topographic map. Nov. 1899 to Nov. 1904, staff gage at different datum.

REMARKS.--Records good except those for winter months, which are fair. Several irrigation diversions above station.

AVERAGE DISCHARGE.--5 years, 66.0 ft^3/s (1.869 m^3/s), 47,820 acre-ft/yr (59.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 3,450 ft^3/s (97.7 m^3/s) May 19, 1901, gage height, 4.55 ft (1.387 m) at datum then in use; minimum daily discharge, 3.6 ft^3/s (0.102 m^3/s) July 15, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 638 ft^3/s (18.1 m^3/s) June 9, gage height, 3.08 ft (0.939 m); minimum daily, 16 ft^3/s (0.45 m^3/s) Apr. 14, 27, Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	82	82	54	48	48	28	38	310	29	17	19
2	32	78	80	55	47	46	29	63	358	33	18	21
3	29	79	82	54	45	60	33	140	295	35	19	26
4	29	78	84	52	46	60	40	117	244	35	19	26
5	28	77	85	53	47	55	36	60	199	29	17	29
6	25	76	93	48	48	54	32	45	254	36	17	37
7	30	75	93	40	50	56	30	48	384	30	19	41
8	31	75	76	39	51	52	30	44	480	31	19	36
9	31	70	70	42	49	49	35	47	515	29	22	39
10	34	72	78	47	43	45	27	42	455	29	18	32
11	42	73	80	52	38	39	24	36	316	40	22	28
12	30	71	83	50	41	38	21	38	198	35	24	24
13	49	71	85	46	47	36	18	40	117	40	23	23
14	62	77	84	47	53	33	16	40	82	33	27	24
15	119	80	88	49	58	33	18	49	82	33	30	19
16	246	67	90	53	60	34	19	69	76	36	25	21
17	166	38	91	55	62	33	20	63	65	31	24	19
18	115	48	89	56	61	31	20	62	57	27	22	19
19	100	58	78	56	59	30	21	53	48	24	24	20
20	94	70	80	56	59	29	26	47	46	25	23	21
21	92	62	72	54	60	33	25	48	36	21	27	23
22	87	66	60	53	61	34	24	46	36	20	31	28
23	80	63	55	53	61	29	25	48	37	19	25	28
24	78	71	51	54	60	30	22	44	29	24	26	26
25	76	73	53	54	61	27	22	47	31	26	23	29
26	80	62	54	51	62	26	20	49	31	24	18	37
27	81	69	54	50	64	29	16	62	29	24	17	34
28	77	82	55	49	58	31	18	103	35	20	18	29
29	76	86	54	50	---	33	21	267	36	19	16	25
30	79	85	52	51	---	32	23	203	29	20	17	30
31	83	---	53	50	---	27	---	284	---	18	18	---
TOTAL	2216	2134	2284	1573	1499	1192	739	2342	4910	875	665	813
MEAN	71.5	71.1	73.7	50.7	53.5	38.5	24.6	75.5	164	28.2	21.5	27.1
MAX	246	86	93	56	64	60	40	284	515	40	31	41
MIN	25	38	51	39	38	26	16	36	29	18	16	19
AC-FT	4400	4230	4530	3120	2970	2360	1470	4650	9740	1740	1320	1610

CAL YR 1980 TOTAL 53163 MEAN 145 MAX 2640 MIN 20 AC-FT 105400
WTR YR 1981 TOTAL 21242 MEAN 58.2 MAX 515 MIN 16 AC-FT 42130

09302000 DUCHESNE RIVER NEAR RANDLETT, UTAH

LOCATION (REVISED).--Lat 40°12'56", long 109°46'58", in SW¼SW¼SW¼ 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 (0.40 km) downstream from Uintah River, 1.2 mi (1.9 km) southeast of Randlett, and 6.5 mi (10.5 km) southeast of Fort Duchesne.

DRAINAGE AREA.--4,247 mi^2 (11,000 km^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 (1,449.66 m) NGVD of 1929. Prior to Aug. 23, 1944 at site 300 ft (91.4 m) downstream at different datum. Aug. 23, 1944 to Sept. 4, 1964 at site 200 ft (61.0 m) upstream at datum 1.87 ft (0.57 m) higher. Sept. 5, 1964 to June 6, 1968 at site 700 ft (213 m) upstream at datum 1.68 ft (0.51 m) higher. June 7, 1968 to Aug. 31, 1970 at site 200 ft (61.0 m) upstream at datum 1.87 ft (0.57 m) higher. Sept. 1, 1970 to June 7, 1975 at site 300 ft (91.4 m) upstream at datum 2.23 ft (0.68 m) higher. June 7, 1975 to May 5, 1977 at site 200 ft (61.0 m) upstream at datum 1.87 ft (0.57 m) higher.

REMARKS.--Water-discharge records good except those for period of no gage-height record, June 24 to Sept. 28, 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.--39 years, 550 ft^3/s (15.58 m^3/s), 398,500 acre-ft/yr (491 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,300 ft^3/s (292 m^3/s) June 13, 1965, gage height, 8.33 ft (2.539 m) site and datum then in use; maximum gage height, 9.03 ft (2.752 m) Feb. 13, 1962 (backwater from ice); minimum discharge, 2.2 ft^3/s (0.062 m^3/s) Aug. 12, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,040 ft^3/s (86.1 m^3/s) June 9, gage height, 5.77 ft (1.759 m); minimum daily, 41 ft^3/s (1.16 m^3/s) Apr. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	317	427	420	376	88	165	54	1550	65	86	86
2	130	334	407	420	372	89	151	91	1870	56	85	75
3	116	337	419	416	364	107	156	257	1770	75	81	72
4	178	334	428	420	396	111	168	379	1560	84	75	72
5	179	330	424	425	380	106	154	306	1490	76	68	76
6	171	336	439	425	392	110	140	243	1780	70	55	84
7	157	338	433	420	400	170	133	208	2240	64	54	160
8	154	348	412	435	372	172	136	160	2550	59	56	190
9	166	339	439	435	404	185	126	153	2560	54	58	192
10	167	339	504	460	384	196	84	125	2320	52	60	140
11	189	338	534	420	293	209	76	118	1820	92	66	100
12	176	336	589	412	300	211	83	118	1560	134	75	78
13	229	374	582	333	404	209	81	114	1130	158	83	69
14	284	395	578	279	392	196	67	107	733	142	75	67
15	417	388	597	296	272	191	62	105	515	88	66	60
16	765	343	596	293	234	188	107	143	402	73	62	55
17	598	325	594	310	226	193	150	160	293	67	56	51
18	482	327	611	289	207	196	118	168	229	67	53	48
19	440	344	609	279	189	183	84	155	196	61	51	49
20	419	403	589	289	170	190	116	116	148	56	49	49
21	398	407	587	289	143	206	128	124	113	51	48	49
22	370	408	590	279	124	202	98	160	86	52	49	48
23	337	412	595	276	121	183	89	151	58	51	58	45
24	327	420	575	300	110	182	76	124	60	55	80	43
25	323	420	560	260	106	178	69	112	57	62	93	60
26	328	400	595	226	105	156	54	126	54	77	82	72
27	335	401	585	209	110	155	48	190	51	87	64	95
28	311	408	585	283	101	186	41	302	60	94	53	111
29	297	434	575	303	---	186	47	433	70	93	57	110
30	294	434	450	289	---	177	43	411	77	85	70	108
31	306	---	416	293	---	174	---	955	---	84	78	---
TOTAL	9179	11069	16324	10483	7447	5285	3050	6368	27402	2384	2046	2514
MEAN	296	369	527	338	266	170	102	205	913	76.9	66.0	83.8
MAX	765	434	611	460	404	211	168	955	2560	158	93	192
MIN	116	317	407	209	101	88	41	54	51	51	48	43
AC-FT	18210	21960	32380	20790	14770	10480	6050	12630	54350	4730	4060	4990

CAL YR 1980 TOTAL 183800 MEAN 502 MAX 5620 MIN 42 AC-FT 364600
WTR YR 1981 TOTAL 103551 MEAN 284 MAX 2560 MIN 41 AC-FT 205400

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 current year, once-daily.
WATER TEMPERATURES: December 1950 to September 1951, November 1956 to September 1978, October 1979 to September 1980, once-daily.
SEDIMENT DATA: October 1976 to current year, monthly.

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 1951, 1956-60, 1962-76): Maximum daily, 4,490 micromhos Aug. 24, 1960; minimum daily, 270 micromhos June 26-28, 30, 1975.
WATER TEMPERATURES: Maximum, 28.0°C July 22, 1974; minimum, 0.0°C on many days during winter period each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 3,000 micromhos May 1; minimum, 450 micromhos June 9.
WATER TEMPERATURES: Maximum daily, 26.0°C June 22, July 23; minimum, not determined.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	HARD-NESS (MG/L AS CACO3)
OCT 17...	1515	585	1650	8.1	10.5	9.5	9.4	550
NOV 19...	1500	352	1290	8.2	5.5	2.0	12.2	450
DEC 18...	1100	590	890	8.0	5.0	1.0	11.6	320
JAN 22...	1615	286	1160	8.2	11.0	1.0	11.9	380
FEB 20...	1100	161	1460	8.2	8.0	4.0	11.9	480
MAR 26...	1430	144	1600	8.1	17.5	12.5	9.3	480
MAY 01...	1000	52	3000	8.2	22.0	19.5	7.5	850
JUN 02...	1430	1820	540	7.7	25.5	17.0	7.6	190
24...	0900	58	2100	7.9	22.0	20.0	7.8	650
JUL 23...	1345	51	2570	8.0	34.5	26.0	8.3	710
AUG 26...	1030	80	2080	7.9	27.0	21.5	8.8	620
SEP 23...	1330	45	2440	8.1	29.5	24.0	11.0	710

DATE	HARD-NESS, NONCAR-BONATE (MG/L 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)
OCT 17...	280	--	110	67	190	43	3.5	6.9	--
NOV 19...	180	--	90	54	130	39	2.7	3.3	270
DEC 18...	110	--	68	37	73	33	1.8	2.0	210
JAN 22...	170	--	78	46	110	38	2.4	1.9	210
FEB 20...	260	--	95	58	150	41	3.0	2.0	220
MAR 26...	--	250	100	57	170	43	3.4	2.5	230
MAY 01...	--	530	160	110	380	49	5.7	5.6	320
JUN 02...	--	76	40	21	41	32	1.3	2.1	110
24...	--	400	130	78	240	45	4.1	4.2	250
JUL 23...	--	460	130	94	330	50	5.4	4.1	250
AUG 26...	--	340	120	78	260	47	4.5	4.4	280
SEP 23...	--	430	140	87	310	49	5.1	4.6	280

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	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)
OCT								
17...	580	68	.5	15	1210	1200	1.7	1910
NOV								
19...	350	52	.5	11	946	855	1.3	899
DEC								
18...	220	31	.4	9.4	594	568	.81	946
JAN								
22...	340	51	.6	9.7	779	765	1.1	602
FEB								
20...	480	73	.4	8.8	1030	1000	1.4	448
MAR								
26...	500	74	.5	7.4	1120	1050	1.5	435
MAY								
01...	1000	230	.7	12	2290	2090	3.1	322
JUN								
02...	130	21	.2	8.9	369	331	.50	1810
24...	720	130	.6	8.9	1500	1460	2.0	235
JUL								
23...	920	190	.6	11	1870	1830	2.5	257
AUG								
26...	670	120	.5	14	1480	1440	2.0	320
SEP								
23...	430	150	.9	10	1880	1300	2.6	228

DATE	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)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT						
17...	.010	.01	.15	.020	.06	--
NOV						
19...	.060	.08	.20	.000	.00	--
DEC						
18...	.040	.05	.23	.030	.09	--
JAN						
22...	.050	.06	.17	.000	.00	--
FEB						
20...	.030	.04	.20	.010	.03	1.5
MAR						
26...	.100	.13	.03	.000	.00	1.9
MAY						
01...	.100	.13	.14	.010	.03	4.2
JUN						
02...	.410	.53	.04	.630	1.9	1.6
24...	.010	.01	.01	.020	.06	3.1
JUL						
23...	.080	.10	.09	.070	.21	3.1
AUG						
26...	.020	.03	.01	.050	.15	--
SEP						
23...	.170	.22	.19	.010	.03	--

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
NOV		
19...	1500	710
DEC		
18...	1100	370
JAN		
22...	1615	440
FEB		
20...	1100	580
MAR		
26...	1430	650
MAY		
01...	1000	1100
JUN		
02...	1430	160
24...	0900	850
JUL		
23...	1345	1300
AUG		
26...	1030	1200
SEP		
23...	1330	1300

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	2240	2180	2330
2									540	2280	2120	2390
3									---	2200	2150	2200
4									680	2000	2130	2170
5									750	2130	2050	2260
6									710	2150	2230	2450
7									620	2050	2220	2270
8									480	---	2310	---
9									450	---	2470	1920
10									460	2270	2260	1890
11									550	2540	---	2040
12									610	1900	2120	---
13									610	1960	2130	2160
14									750	1830	2210	2200
15									1080	1910	2070	2170
16									1100	1930	2140	2370
17									1320	1880	2300	2370
18									1380	2160	2260	2430
19									1590	2330	2330	2500
20									---	2410	2310	2590
21									1800	2210	2420	2640
22									2020	2450	2200	2720
23									2200	2560	2230	2450
24									2090	2550	2410	---
25									2350	2280	2120	2390
26									2310	2190	2170	2230
27									2170	2250	2310	2150
28									2210	2290	2380	2130
29									2130	2230	---	2170
30									2190	2270	2220	2160
31									---	2260	2480	---
MEAN									1300	2200	2240	2290

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	24.0	---	22.5
2									17.0	23.0	---	20.5
3									---	25.0	---	22.5
4									18.5	---	---	22.5
5									20.5	---	---	17.5
6									20.0	---	---	19.0
7									18.0	---	---	19.5
8									19.5	---	---	---
9									20.0	---	---	23.0
10									20.5	---	---	20.0
11									21.5	---	---	22.0
12									21.0	---	---	---
13									15.5	---	21.5	21.0
14									12.0	---	25.0	22.0
15									17.0	---	23.5	23.0
16									18.0	---	24.0	23.5
17									20.5	---	23.0	21.5
18									---	---	23.5	18.5
19									22.5	---	25.5	17.0
20									---	---	25.5	22.0
21									23.5	---	21.5	20.5
22									26.0	---	---	21.0
23									---	26.0	20.5	21.0
24									20.0	---	22.5	---
25									---	---	23.5	17.5
26									---	---	22.5	23.0
27									---	---	25.0	18.0
28									---	---	25.0	18.5
29									---	---	---	18.0
30									---	---	24.0	17.5
31									---	---	22.0	---
MEAN									---	---	---	20.5

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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					
17...	1515	585	9.5	428	676
NOV					
19...	1500	352	2.0	48	46
DEC					
18...	1100	590	1.0	148	236
JAN					
22...	1615	286	1.0	19	15
FEB					
20...	1100	161	4.0	53	23
MAR					
26...	1430	144	12.5	43	17
MAY					
01...	1000	52	19.5	431	61
JUN					
02...	1430	1820	17.0	562	2760
24...	0900	58	20.0	238	37
JUL					
23...	1345	51	26.0	292	40
AUG					
26...	1030	80	21.5	300	65
SEP					
23...	1330	45	24.0	371	45

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 40°00'50", long 109°04'48", in NW¼NE¼NE¼ sec.27, T.9 S., R.25 E., Uintah County, Hydrologic Unit 14050007, on right bank 900 ft (270 m) upstream from small right bank tributary, 2.7 mi (4.3 km) downstream from Colorado-Utah State line, and 7.5 mi (12.1 km) upstream from Evacuation Creek.

DRAINAGE AREA.--3,680 mi^2 (9,530 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,030 ft (1,533 m) from topographic map.

REMARKS.--Records good. Diversions for irrigation of about 31,900 acres (129 km^2) above station.

AVERAGE DISCHARGE.--5 years, 602 ft^3/s (17.05 m^3/s), 436,100 acre-ft/yr (538 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,470 ft^3/s (127 m^3/s) May 30, 1979, gage height, 7.20 ft (2.195 m); minimum, 10 ft^3/s (0.28 m^3/s) July 2, 3, 4, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,920 ft^3/s (54.4 m^3/s) June 9, gage height, 4.87 ft (1.484 m); minimum, 137 ft^3/s (3.88 m^3/s) Aug. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	346	446	410	365	373	355	516	972	1530	385	282	244
2	339	440	462	370	350	352	512	993	1550	360	263	243
3	322	433	395	385	305	352	515	1010	1520	443	222	233
4	305	431	373	393	232	354	448	1390	1620	481	191	224
5	288	427	378	381	280	341	444	1260	1640	469	177	240
6	280	428	394	395	317	339	393	1060	1560	423	171	334
7	271	424	386	388	334	348	397	999	1560	381	158	294
8	271	419	360	320	360	366	406	922	1630	347	148	378
9	276	415	340	320	342	350	410	789	1740	318	146	324
10	269	411	310	320	411	345	385	736	1670	252	142	361
11	276	402	350	320	329	333	402	666	1570	306	153	364
12	285	402	353	320	230	333	486	623	1360	435	173	479
13	314	414	380	318	257	330	516	614	1140	481	263	377
14	388	456	414	333	472	336	516	569	954	527	318	396
15	606	455	366	323	451	325	520	503	819	477	301	360
16	605	388	392	343	488	324	570	460	743	387	340	351
17	499	351	410	391	502	333	583	481	641	347	321	344
18	522	390	420	442	485	357	626	551	558	348	307	326
19	522	364	420	452	462	391	663	569	492	390	279	319
20	498	376	420	436	457	350	714	477	470	399	259	340
21	487	370	400	461	441	340	822	486	411	344	244	337
22	479	390	410	445	456	350	717	538	370	313	260	336
23	459	403	380	411	425	350	694	560	343	262	265	341
24	457	409	390	411	423	350	653	628	321	278	243	309
25	444	401	410	414	426	398	671	605	293	334	201	291
26	431	370	393	444	429	412	757	662	265	368	204	300
27	447	380	397	388	410	417	882	774	278	467	208	291
28	461	370	397	332	371	414	951	899	267	374	186	287
29	450	350	389	413	---	388	929	1160	364	339	205	278
30	438	370	385	403	---	414	938	1380	460	297	341	288
31	440	---	368	432	---	488	---	1400	---	282	380	---
TOTAL	12475	12085	12052	11869	10818	11235	18036	24736	28139	11614	7351	9589
MEAN	402	403	389	383	386	362	601	798	938	375	237	320
MAX	606	456	462	461	502	488	951	1400	1740	527	380	479
MIN	269	350	310	318	230	324	385	460	265	252	142	224
AC-FT	24740	23970	23910	23540	21460	22280	35770	49060	55810	23040	14580	19020

CAL YR 1980 TOTAL 265943 MEAN 727 MAX 3110 MIN 234 AC-FT 527500
WTR YR 1981 TOTAL 169999 MEAN 466 MAX 1740 MIN 142 AC-FT 337200

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. All other days computed using sediment-rating curves.

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 50 mg/L Sept. 7, 1978.
SEDIMENT LOADS: Maximum daily, 412,000 tons (374,000 tonnes) Sept. 8, 1978; minimum daily, 1.0 ton (0.91 tonne) July 2, 3, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 950 micromhos Mar. 18; minimum recorded, 320 micromhos, June 6, 9.
WATER TEMPERATURES: Maximum recorded, 27.5°C June 26; minimum, 0.0°C several days during Feb.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 13,500 mg/L July 13; minimum daily mean, 62 mg/L Oct. 2.
SEDIMENT LOADS: Maximum daily, 23,100 tons (21,000 tonnes) May 4; minimum daily, 46 tons (42 tonnes) Aug. 10.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	NITRO-GEN DIS-SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)
OCT										
06...	1500	278	800	8.1	21.0	13.0	8.8	--	--	290
NOV										
21...	1400	406	880	7.8	6.5	.5	11.7	--	--	290
FEB										
19...	1300	554	770	7.5	9.0	.0	11.9	--	--	250
MAR										
18...	1200	364	950	7.4	9.5	8.5	--	--	--	300
APR										
16...	1530	569	760	7.7	18.0	16.0	--	--	--	260
JUN										
02...	1600	1530	460	7.6	18.0	16.5	7.5	--	24	170
JUL										
08...	1200	340	760	7.9	30.5	23.0	7.1	--	--	280
14...	1200	556	780	8.0	--	23.0	6.6	--	--	290
AUG										
25...	1015	200	850	8.6	--	20.5	7.6	.70	40	290
SEP										
03...	1030	227	--	7.7	22.0	--	7.1	--	--	350
24...	1330	305	710	8.1	25.5	12.5	7.6	--	43	--

DATE	HARD-NESS, NONCAR-BONATE (MG/L 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 FIELD (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)
OCT										
06...	120	--	69	28	69	34	1.8	1.9	170	--
NOV										
21...	83	--	71	28	73	35	1.9	2.3	--	210
FEB										
19...	--	--	61	23	65	36	1.8	1.6	--	160
MAR										
18...	--	110	71	30	78	36	2.0	1.7	--	190
APR										
16...	--	96	63	24	55	32	1.5	1.7	--	160
JUN										
02...	--	63	46	14	21	21	.7	1.6	--	110
JUL										
08...	--	120	66	27	54	30	1.4	1.8	--	160
14...	--	100	74	26	50	27	1.3	2.4	--	190
AUG										
25...	--	120	69	29	66	33	1.8	2.2	--	170
SEP										
03...	--	160	87	32	71	30	1.8	4.1	--	190
24...	--	--	--	--	--	--	--	--	--	--

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	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)
OCT									
06...	--	200	44	.3	--	11	525	.71	394
NOV									
21...	--	170	37	.5	--	15	523	.71	573
FEB									
19...	--	160	37	.3	--	12	457	.62	684
MAR									
18...	--	230	41	.3	--	11	577	.78	567
APR									
16...	--	170	27	.2	--	12	449	.61	690
JUN									
02...	--	70	9.2	.1	--	12	241	.33	996
JUL									
08...	--	180	37	.2	--	13	476	.65	437
14...	--	160	33	.2	--	15	475	.65	713
AUG									
25...	--	200	39	.3	--	13	521	.71	281
SEP									
03...	--	250	46	.3	--	15	620	.84	380
24...	.1	--	--	--	.30	--	--	--	--

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2)
OCT								
06...	--	--	--	--	--	--	--	--
NOV								
21...	--	--	--	--	--	--	--	--
FEB								
19...	--	--	--	--	--	--	--	--
MAR								
18...	--	--	--	--	--	--	--	--
APR								
16...	--	--	--	--	--	--	--	--
JUN								
02...	.130	.17	--	--	--	--	--	--
JUL								
08...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
AUG								
25...	.060	.08	.62	.68	.01	.00	.010	.03
SEP								
03...	--	--	--	--	--	--	--	--
24...	.030	.04	--	--	--	--	--	--

DATE	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)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT							
06...	.00	--	--	.010	.000	.00	--
NOV							
21...	.00	--	--	.000	--	--	--
FEB							
19...	.15	--	--	.010	--	--	1.2
MAR							
18...	.00	--	--	.010	--	--	1.3
APR							
16...	.04	--	--	.040	.010	.03	1.3
JUN							
02...	.15	.270	.83	.020	--	--	1.2
JUL							
08...	.09	--	--	--	.070	.21	1.3
14...	.12	--	--	.010	--	--	1.8
AUG							
25...	.02	--	--	.020	.000	.00	--
SEP							
03...	.00	--	--	.020	--	--	--
24...	--	.030	.09	--	--	--	--

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)
OCT 06...	1500	--	--	0	--	--	1	--	--	--	--	--
JUN 02...	1600	--	--	20	--	--	1	--	--	--	--	--
AUG 25...	1015	1600	1600	10	2	0	2	7	--	80	0	<1
SEP 24...	1330	--	--	0	--	--	1	--	59	--	--	--

DATE	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)
OCT 06...	--	50	--	<1	--	--	--	20	--	--	--	--
JUN 02...	--	20	--	1	--	--	--	0	--	--	--	--
AUG 25...	<1	60	0	<1	1	0	0	10	3	10	8	3
SEP 24...	--	--	--	<1	--	--	--	0	--	--	--	--

DATE	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)
OCT 06...	2	--	--	<10	--	--	--	0	--	--	--	--
JUN 02...	6	--	--	--	--	--	--	2	--	--	--	--
AUG 25...	5	15	2200	<10	3200	4	4	0	10	20	0	24
SEP 24...	4	--	--	--	--	--	--	7	--	--	--	17

DATE	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)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)
OCT 06...	--	--	2	--	--	--	.0	--	--	--	--	--
JUN 02...	--	--	--	--	--	--	.0	--	--	--	--	--
AUG 25...	60	60	4	200	.0	.0	.0	.02	4	<10	<1	4
SEP 24...	--	--	--	--	--	--	.0	--	--	<10	--	--

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
OCT 06...	--	--	--	--	--	1	--	--	--	--	<3	--
JUN 02...	--	--	--	--	--	1	--	--	--	--	30	--
AUG 25...	0	4	10	1	0	1	0	--	.0	20	<3	17
SEP 24...	--	--	--	--	--	1	--	810	1.0	--	9	--

DATE	TIME	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 06...	1500	50	<10	2
NOV 21...	1400	70	--	--
FEB 19...	1300	50	--	--
MAR 18...	1200	60	--	--
APR 16...	1530	40	100	9
JUN 02...	1600	20	--	--
JUL 08...	1200	50	40	4
14...	1200	50	--	--
AUG 25...	1015	60	<10	4
SEP 03...	1030	100	--	--

DATE	TIME	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
AUG 25...	1015	5.1	.00	0	.00
SEP 24...	1330	4.9	--	0	--

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	790	746	771	660	620	660	680	640	660	620	600	620
2	801	763	788	660	620	640	660	640	640	620	600	620
3	818	768	797	660	620	640	660	640	660	620	600	620
4	819	777	802	660	620	640	640	620	640	620	600	620
5	836	790	816	660	620	640	660	640	640	620	600	620
6	850	800	844	660	620	640	660	640	640	820	620	720
7	840	800	820	660	620	640	660	640	660	820	740	780
8	820	780	800	660	620	640	720	640	660	780	700	740
9	800	760	780	660	620	640	660	620	640	720	680	700
10	780	740	760	700	640	660	640	620	640	720	680	700
11	780	740	760	700	640	680	640	600	620	720	680	700
12	780	760	760	680	660	660	640	580	620	740	700	720
13	760	740	760	680	680	680	660	620	640	740	700	720
14	860	740	760	680	680	680	680	620	660	760	680	740
15	760	660	720	700	680	680	640	600	620	760	700	740
16	720	700	720	700	680	680	620	600	620	760	700	720
17	720	700	720	680	660	680	640	580	620	740	680	700
18	720	680	700	680	660	680	620	580	600	720	660	680
19	720	680	700	700	660	680	620	580	600	680	640	660
20	700	660	700	700	680	700	620	580	600	680	620	640
21	700	660	680	880	680	740	620	580	600	660	620	640
22	700	660	680	860	780	820	620	580	600	660	620	640
23	680	660	680	780	720	760	600	580	600	680	640	660
24	680	640	660	720	700	720	620	580	600	680	660	680
25	660	640	660	700	680	700	620	580	620	700	640	680
26	660	640	660	700	660	680	620	580	620	680	640	660
27	660	660	660	700	680	700	620	600	620	660	640	640
28	660	620	640	680	640	660	620	600	620	660	620	640
29	660	620	640	680	640	660	620	580	620	640	620	640
30	660	620	640	700	660	680	620	600	620	640	600	620
31	660	620	640	---	---	---	620	600	620	620	600	620
MONTH	860	620	726	880	620	679	720	580	626	820	600	674
		FEBRUARY			MARCH			APRIL			MAY	
1	620	600	620	620	600	620	840	820	820	460	400	420
2	640	600	620	640	600	620	840	800	820	420	380	420
3	660	620	640	660	620	640	840	820	820	520	420	460
4	660	620	640	660	640	660	860	820	840	560	480	520
5	680	640	660	680	640	660	860	820	840	520	440	480
6	680	640	660	680	660	680	840	820	840	460	420	440
7	680	640	660	660	660	660	860	820	840	440	420	420
8	680	640	660	680	640	660	860	840	860	460	440	440
9	660	620	640	680	640	660	860	820	840	460	420	440
10	640	640	640	680	640	660	840	800	820	500	440	460
11	660	640	660	700	680	680	840	800	820	480	440	460
12	660	620	640	720	680	700	820	760	800	480	460	480
13	680	620	660	720	700	700	760	660	720	500	460	480
14	660	620	640	720	680	700	720	660	680	500	460	480
15	660	620	640	720	660	680	700	680	680	500	460	480
16	640	580	620	700	660	680	760	640	680	500	480	500
17	620	560	600	700	680	700	640	560	600	500	500	500
18	600	560	580	950	680	700	580	540	560	500	480	500
19	770	580	640	880	660	780	560	520	540	520	500	500
20	700	640	680	900	860	880	540	500	520	520	500	500
21	660	620	640	900	860	880	560	500	540	520	520	520
22	620	600	620	880	840	860	540	460	500	520	500	520
23	620	580	600	880	840	860	540	500	520	520	480	500
24	600	560	580	860	820	840	600	520	560	500	460	480
25	600	560	580	880	820	860	600	520	560	500	460	480
26	600	580	600	880	820	840	640	520	560	520	500	500
27	620	580	600	880	840	860	560	440	500	520	500	500
28	620	580	600	880	860	880	520	460	500	520	500	500
29	---	---	---	860	840	840	500	450	460	520	440	480
30	---	---	---	840	820	840	500	440	460	500	400	440
31	---	---	---	840	800	820	---	---	---	420	340	380
MONTH	770	560	629	950	600	745	860	440	670	560	340	474

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	360	340	340	520	500	500	875	819	846	923	903	913
2	460	340	400	500	480	500	863	821	841	925	891	909
3	400	380	380	500	480	500	858	822	839	917	789	863
4	400	360	380	520	500	500	858	832	843	804	712	747
5	400	340	380	520	460	500	867	841	852	716	706	712
6	380	320	360	480	460	460	870	845	856	745	705	723
7	380	340	360	480	440	460	868	844	856	762	732	740
8	380	340	340	700	664	688	866	832	849	753	649	708
9	360	320	340	698	666	683	854	826	840	687	663	674
10	420	340	380	729	697	711	863	849	856	670	652	659
11	420	360	400	747	697	726	867	841	855	673	631	650
12	420	380	380	751	711	732	859	827	843	645	593	621
13	440	400	420	798	746	765	847	789	818	646	614	625
14	500	440	460	796	724	762	797	739	774	655	629	641
15	500	440	480	736	680	701	831	796	816	679	642	654
16	540	480	500	718	682	698	840	802	816	698	658	675
17	560	500	520	704	670	686	852	824	841	715	675	692
18	600	520	540	728	696	708	860	820	840	720	678	702
19	560	480	520	724	670	704	842	814	827	726	684	706
20	520	480	500	712	656	681	832	796	814	725	693	710
21	500	460	480	714	674	694	827	811	820	724	686	707
22	500	460	480	742	700	715	827	803	817	715	680	698
23	500	480	480	808	752	775	839	811	827	717	679	699
24	520	460	480	830	712	800	845	813	830	714	642	678
25	500	480	480	768	730	747	850	809	829	656	614	631
26	500	480	500	786	758	771	850	816	834	668	638	655
27	520	480	500	900	768	802	860	828	843	676	636	659
28	520	480	500	869	815	836	874	842	860	689	635	662
29	520	480	500	877	829	851	882	854	870	685	649	668
30	520	480	500	872	824	849	918	854	875	699	671	688
31	---	---	---	880	834	856	928	885	904	---	---	---
MONTH	600	320	443	900	440	689	928	739	840	925	593	702

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.5	13.5	16.0	7.5	4.0	6.0	.5	.5	.5	1.0	.5	.5
2	18.0	13.5	16.0	7.5	5.0	6.0	.5	.5	.5	.5	.5	.5
3	17.5	12.5	15.0	7.0	4.5	5.5	1.5	.5	1.0	1.0	.5	.5
4	17.0	12.5	15.0	7.0	4.0	5.5	3.5	1.5	2.5	2.0	.5	1.0
5	17.0	12.5	15.0	8.0	4.5	6.5	3.5	2.5	3.0	3.0	1.5	2.0
6	17.0	12.5	15.0	8.0	5.0	6.5	4.0	3.0	3.5	2.0	.5	1.5
7	17.0	12.5	15.0	9.0	5.5	7.5	3.5	2.5	3.0	1.0	.5	.5
8	17.0	12.5	15.0	9.0	6.0	7.5	2.5	1.0	1.5	.5	.5	.5
9	16.5	12.5	14.5	8.5	5.5	7.0	1.5	.5	.5	.5	.5	.5
10	16.0	12.0	14.0	8.0	5.0	6.5	.5	.5	.5	.5	.5	.5
11	15.5	11.0	13.5	7.0	5.0	6.0	.5	.5	.5	.5	.5	.5
12	13.0	11.5	12.0	7.5	6.0	7.0	.5	.5	.5	.5	.5	.5
13	15.0	11.0	13.0	7.0	5.5	6.5	.5	.5	.5	.5	.5	.5
14	13.5	11.5	12.5	5.5	4.0	4.5	.5	.5	.5	.5	.5	.5
15	12.0	9.5	10.5	4.0	2.0	3.0	.5	.5	.5	.5	.5	.5
16	9.5	7.5	8.5	2.0	.5	1.0	.5	.5	.5	.5	.5	.5
17	9.0	6.5	8.0	.5	.5	.5	.5	.5	.5	1.0	.5	.5
18	10.0	7.0	8.5	.5	.5	.5	.5	.5	.5	1.0	.5	.5
19	10.0	7.0	8.5	.5	.5	.5	.5	.5	.5	1.0	.5	.5
20	10.5	7.0	8.5	.5	.5	.5	.5	.5	.5	1.0	.5	.5
21	10.5	7.0	9.0	.5	.5	.5	.5	.5	.5	1.0	.5	.5
22	10.5	8.0	9.0	.5	.5	.5	1.0	.5	.5	1.0	.5	.5
23	9.0	6.0	7.5	.5	.5	.5	1.5	.5	.5	1.0	.5	.5
24	8.0	5.0	6.5	1.0	.5	.5	1.0	.5	.5	.5	.5	.5
25	7.5	4.5	6.0	.5	.5	.5	2.5	.5	1.5	1.0	.5	.5
26	6.0	5.0	5.5	.5	.5	.5	3.0	1.0	2.0	.5	.5	.5
27	6.5	5.0	5.5	.5	.5	.5	3.0	1.0	2.0	.5	.5	.5
28	6.0	3.5	5.0	.5	.5	.5	3.5	2.0	2.5	1.5	.5	.5
29	5.5	2.5	4.0	.5	.5	.5	3.0	1.0	2.0	1.5	.5	.5
30	6.0	3.0	4.5	.5	.5	.5	2.0	.5	1.5	1.0	.5	.5
31	6.5	3.5	5.0	---	---	---	1.5	.5	1.0	.5	.5	.5
MONTH	18.5	2.5	10.5	9.0	.5	3.5	4.0	.5	1.0	3.0	.5	.5

09306395 WHITE RIVER NEAR COLORADO UTAH STATE LINE, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.5	16.5	18.0	24.0	20.5	22.0	26.5	22.0	24.5	22.0	17.5	20.0
2	19.0	16.0	17.5	24.5	19.0	22.0	27.0	21.0	24.5	22.5	18.5	20.5
3	18.5	16.5	17.5	25.5	20.5	23.0	27.0	22.0	24.5	23.0	17.5	20.0
4	19.0	16.5	17.5	25.0	20.0	23.0	27.5	21.5	24.5	23.0	18.5	21.0
5	20.0	16.5	18.0	26.5	20.5	23.5	27.0	20.5	24.0	20.5	17.0	18.5
6	20.0	17.5	19.0	26.0	21.5	24.0	27.5	20.5	24.0	18.5	16.0	17.0
7	19.5	17.5	18.5	26.5	21.5	24.0	27.5	20.5	24.0	20.5	16.5	18.0
8	20.5	17.5	19.0	27.5	20.5	23.5	26.5	20.0	23.5	21.5	14.5	18.5
9	20.5	18.0	19.5	25.5	22.0	23.5	26.5	20.0	23.0	21.5	17.5	19.5
10	21.0	18.0	19.5	26.5	20.5	23.5	21.5	18.5	20.0	20.5	18.5	19.5
11	21.0	17.5	19.0	25.0	21.5	23.5	21.0	18.0	19.5	21.5	14.0	18.5
12	21.5	18.0	19.5	25.5	22.0	23.5	23.5	18.0	20.5	18.5	15.5	17.0
13	20.0	17.5	18.5	25.0	20.0	22.5	21.0	19.0	20.0	21.5	17.0	19.5
14	17.0	15.0	16.0	26.0	22.0	24.0	22.5	17.0	20.0	21.5	17.5	19.5
15	18.0	13.0	15.5	26.5	21.5	24.5	21.5	18.5	20.0	21.5	17.0	19.5
16	19.0	14.0	16.5	24.0	21.5	22.5	23.0	16.5	20.0	21.5	17.0	19.5
17	20.0	15.0	17.5	25.5	19.5	22.5	24.0	18.5	21.5	20.5	16.0	18.5
18	20.5	16.0	18.0	26.0	21.0	23.5	25.0	19.0	22.0	20.0	15.5	18.0
19	22.0	16.5	19.0	25.0	21.0	23.0	25.0	20.0	22.5	20.0	15.0	17.5
20	23.5	17.5	20.5	25.0	19.5	22.0	25.5	19.5	22.5	20.0	16.0	18.0
21	23.5	18.5	21.0	25.0	19.0	22.0	22.5	18.5	20.5	20.5	16.0	18.5
22	25.0	18.0	21.5	25.5	20.0	22.5	23.5	17.5	20.5	22.0	17.0	19.5
23	24.5	20.0	22.5	24.0	19.5	22.0	24.5	18.5	21.5	21.0	16.0	18.5
24	26.0	19.5	23.0	23.5	18.5	21.5	24.5	19.0	21.5	20.5	17.0	18.5
25	27.0	20.5	24.0	25.0	19.5	21.5	26.0	19.5	22.5	18.0	15.0	17.0
26	27.5	22.0	24.5	24.0	19.0	21.0	25.5	20.0	23.0	17.0	13.0	15.0
27	24.0	21.0	22.5	22.5	17.5	20.0	26.0	20.5	23.0	17.5	12.5	15.0
28	24.5	20.0	22.5	23.5	18.5	21.5	26.0	20.5	23.0	17.5	13.0	15.5
29	26.0	20.0	23.0	24.5	19.0	22.0	25.0	19.5	22.0	16.5	13.5	15.5
30	26.0	21.0	23.5	25.0	20.5	23.0	21.5	16.5	20.0	18.0	13.5	15.5
31	---	---	---	26.5	21.0	24.0	22.0	17.0	19.5	---	---	---
MONTH	27.5	13.0	19.5	27.5	17.5	22.5	27.5	16.5	22.0	23.0	12.5	18.0

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	91	85	203	244	224	248	120	118	390	393	326	312
2	62	57	182	216	202	252	128	128	400	378	302	287
3	79	69	182	213	199	212	129	134	419	345	285	271
4	66	54	163	190	198	199	102	108	386	242	285	272
5	64	50	176	203	198	202	107	110	410	310	270	249
6	92	70	173	200	205	218	109	116	418	358	250	229
7	119	87	166	190	192	200	104	109	415	374	239	225
8	130	95	166	188	189	184	105	91	410	399	243	240
9	127	95	185	207	196	180	113	98	425	392	229	216
10	126	92	186	206	202	169	121	105	470	522	222	207
11	132	98	144	156	208	197	125	108	443	394	215	193
12	146	112	142	154	175	167	145	125	435	270	209	188
13	121	103	180	201	139	143	172	148	447	310	205	183
14	428	448	406	500	108	121	195	175	480	612	205	186
15	1040	1700	198	243	107	106	195	170	491	598	207	182
16	870	1420	195	204	115	122	235	218	479	631	205	179
17	636	857	212	201	114	126	299	316	475	644	205	184
18	544	767	241	254	105	119	320	382	468	613	191	184
19	522	736	225	221	113	128	339	414	480	599	335	354
20	444	597	220	223	112	127	338	398	475	586	250	236
21	372	489	224	224	111	120	373	464	468	557	293	269
22	342	442	237	250	115	127	375	451	463	570	252	238
23	286	354	223	243	107	110	405	449	455	522	200	189
24	252	311	212	234	130	137	415	461	462	528	258	244
25	274	328	212	230	99	110	409	457	402	462	470	505
26	272	317	218	218	91	97	392	470	391	453	384	427
27	276	333	209	214	82	88	392	411	380	421	573	645
28	244	304	203	203	85	91	393	352	352	353	464	519
29	198	241	215	203	78	82	422	471	---	---	393	412
30	304	360	228	228	78	81	410	446	---	---	449	502
31	204	242	---	---	101	100	408	476	---	---	498	656
TOTAL	---	11313	---	6661	---	4563	---	8479	---	12836	---	9183

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	343	478	1040	2730	1760	7270	346	360	285	217	2410	1590
2	377	521	1100	2950	1690	7070	440	428	290	206	1570	1030
3	594	826	1550	4230	1660	6810	1820	2180	301	180	1700	1070
4	445	538	6150	23100	1820	7960	705	916	288	149	784	474
5	421	505	2970	10100	1680	7440	405	513	285	136	480	311
6	502	533	1350	3860	1530	6440	316	361	244	113	1100	992
7	410	439	936	2520	1660	6990	278	286	153	65	870	691
8	405	444	724	1800	2140	9420	236	221	138	55	1280	1310
9	264	292	580	1240	2560	12000	246	211	150	59	1010	884
10	221	230	502	998	2390	10800	202	137	120	46	1720	1680
11	218	237	460	827	1790	7590	292	241	130	54	1040	1020
12	341	447	353	594	1240	4550	7050	8280	193	90	5800	7500
13	439	612	318	527	1160	3570	13500	17500	2880	2050	3060	3110
14	396	552	299	459	903	2330	2400	3410	4380	3760	2540	2720
15	338	475	276	375	672	1490	351	452	1130	918	1690	1640
16	415	639	248	308	493	989	360	376	1500	1380	1080	1020
17	470	740	227	295	462	800	312	292	2450	2120	630	585
18	700	1180	260	387	488	735	324	304	990	821	580	511
19	785	1410	495	760	488	648	357	376	749	564	470	405
20	875	1690	355	457	408	518	350	377	640	448	510	468
21	1410	3130	260	341	357	396	345	320	536	353	470	428
22	765	1480	254	369	358	358	318	269	516	362	377	342
23	490	918	315	476	338	313	296	209	522	373	351	323
24	375	661	321	544	303	263	1120	841	445	292	244	204
25	430	779	308	503	284	225	4960	4470	386	209	109	86
26	740	1510	371	663	250	179	5070	5040	343	189	102	83
27	1360	3240	583	1220	4350	3270	4220	5320	350	197	122	96
28	1560	4010	1570	3810	4200	3030	920	929	400	201	108	84
29	1150	2880	2170	6800	837	823	432	395	579	320	112	84
30	978	2480	1360	5070	618	768	314	252	4910	4520	132	103
31	---	---	1890	7140	---	---	323	246	3560	3650	---	---
TOTAL	---	33876	---	85453	---	115045	---	55512	---	24097	---	30844

TOTAL LOAD FOR YEAR: 397862 TONS.

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
NOV												
21...	1415	451	.5	214	261	20	25	42	77	88	98	100
MAR												
31...	1410	410	7.5	362	401	62	70	82	96	97	100	--
APR												
29...	1115	993	14.5	1210	3240	19	27	42	75	91	100	--
JUN												
02...	1630	1340	16.5	1340	4850	24	28	38	72	91	100	--
AUG												
17...	1130	326	21.0	3460	3050	55	74	97	99	99	99	100
SEP												
03...	1100	227	17.5	1810	1110	50	65	94	97	98	100	--

09306405 HELLS HOLE CANYON CREEK AT MOUTH, NEAR WATSON, UTAH

LOCATION.--Lat 39°58'24", long 109°07'40", in NW¼SE¼SW¼, sec.5, T.10 S., R.25 E., Uintah County, Hydrologic Unit 14050007, on right bank 0.1 mi (0.2 km) upstream from mouth and 6.5 mi (10.5 km) north of Watson.

DRAINAGE AREA.--24.5 mi^2 (63.5 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to Jan. 6, 1976, and Feb. 24, 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,040 ft (1,536 m) from topographic map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--6 years (1975, 1977-81), 0.0618 ft^3/s (0.002 m^3/s), 45 acre-ft/yr (55,480 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 473 ft^3/s (13.4 m^3/s) Aug. 12, 1975, gage height, 3.75 ft (1.143 m), from rating curve extended above 88 ft^3/s (2.49 m^3/s) on basis of slope-area measurement of peak flow; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 122 ft^3/s (3.46 m^3/s) Sept. 11, gage height, 2.55 ft (0.777 m), from rating curve extended above 88 ft^3/s (2.49 m^3/s) on basis of slope-area measurement of peak flow; no flow most of time.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
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	.67
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25
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	2.0
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	.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	1.5	.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	1.3	.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	1.30	.00	1.50	.00	2.92
MEAN	.000	.000	.000	.000	.000	.000	.000	.042	.000	.048	.000	.097
MAX	.00	.00	.00	.00	.00	.00	.00	1.3	.00	1.5	.00	2.0
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	2.6	.00	3.0	.00	5.8

CAL YR 1980 TOTAL 18.00 MEAN .049 MAX 10 MIN .00 AC-FT 36
WTR YR 1981 TOTAL 5.72 MEAN .016 MAX 2.0 MIN .00 AC-FT 11

09306405 HELLS HOLE CANYON CREEK AT MOUTH, NEAR WATSON, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July to September 1975, March 1979, August 1980. Prior to 1979 water year, published in "Hydrologic and Climatologic Data" reports for Utah.
SEDIMENT DATA: July to September 1975, February 1976, March 1979.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	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)
AUG 25...	1400	12	200	1	1	4	10	15

DATE	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)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
AUG 25...	6000	10	350	.02	1	11	0	29

09306410 EVACUATION CREEK ABOVE MISSOURI CREEK, NEAR DRAGON, UTAH

LOCATION.--Lat 39°47'52", long 109°04'27", in SW¼SW¼SW¼ sec.1, T.12 S., R.25 E., Uintah County, Hydrologic Unit 14050007, on right bank 0.5 mi (0.8 km) upstream from Missouri Creek and 0.8 mi (1.3 km) north of Dragon.

DRAINAGE AREA.--100 mi2 (259 km2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,680 ft (1,731 m) from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--7 years, 134 ft3/s (0.038 m3/s), 971 acre-ft/yr (1.20 hm3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 835 ft3/s (23.6 m3/s) Aug. 13, 1978, gage height, 8.32 ft (2.536 m), from rating curve extended above 10 ft3/s (0.28 m3/s) on basis of slope-area measurements of peak flow; minimum, 0.04 ft3/s (0.001 m3/s) Feb. 23, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 562 ft3/s (15.9 m3/s) Aug. 15, gage height, 7.55 ft (2.301 m); minimum, 0.33 ft3/s (0.009 m3/s) June 24-26, but may have been less during periods of ice effect.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.69	.55	.75	.70	.80	1.9	4.3	.51	.51	.51	.44	1.4
2	.69	.60	.77	.70	.76	2.1	4.1	.53	.56	.47	.43	.62
3	.68	.61	.75	.70	.74	2.1	4.8	1.2	.89	.44	.38	.54
4	.68	.61	.75	.70	.70	2.3	4.4	1.7	.68	.42	.38	.54
5	.69	.62	.78	.70	.68	2.3	3.5	.85	.55	.41	.38	3.1
6	.64	.64	.76	.68	.68	2.7	3.6	.81	.50	.41	.35	1.2
7	.63	.65	.76	.68	.76	2.5	3.4	.77	.49	.40	.35	.82
8	.65	.66	.77	.68	.81	2.4	3.2	.85	.47	.38	.36	.67
9	.68	.69	.68	.68	.84	2.5	2.8	.82	.47	.42	.36	.60
10	.69	.68	.60	.70	.80	2.5	2.7	.78	.46	.49	.38	20
11	.71	.68	.60	.68	.78	2.5	2.7	.80	.44	.58	.75	6.5
12	.69	.72	.60	.68	.94	2.9	2.5	.78	.40	3.6	.65	4.6
13	.76	.74	.60	.68	1.0	2.7	2.4	.69	.41	2.5	5.8	1.3
14	.75	.65	.60	.66	1.2	2.7	2.2	.65	.42	2.0	2.4	.95
15	5.7	.60	.70	.66	1.2	2.9	2.4	.65	.43	1.4	18	.80
16	1.4	.52	.78	.66	1.3	2.9	2.5	.67	.41	.76	5.0	.85
17	1.1	.50	.80	.67	1.7	2.9	2.5	.64	.40	.81	1.6	.92
18	.90	.50	.81	.66	1.8	3.2	2.3	.56	.40	.79	1.3	.88
19	.82	.54	.80	.64	1.8	3.1	1.9	.56	.40	.69	1.1	.84
20	.76	.60	.80	.64	2.0	3.2	1.8	.59	.39	.66	.98	.80
21	.80	.61	.81	.64	1.9	3.4	1.4	.65	.38	.64	.90	.78
22	.72	.60	.80	.64	1.9	3.2	1.3	.62	.38	.59	.83	.78
23	.70	.59	.75	.68	1.9	3.2	1.1	.61	.38	.60	2.8	3.8
24	.76	.60	.74	.79	1.7	3.6	.93	.62	.35	.84	1.1	26
25	.66	.59	.73	.70	1.6	3.4	.84	.62	.35	.81	.74	.70
26	.76	.59	.68	.70	1.7	3.5	.75	.61	.35	.59	.64	2.0
27	.74	.59	.69	.72	1.8	3.9	.70	.67	.68	.57	.52	1.0
28	.69	.62	.68	.83	1.8	4.2	.62	.64	.54	.49	.72	.88
29	.61	.69	.70	.86	---	4.0	.55	.58	.49	.49	.76	.78
30	.60	.70	.70	.74	---	4.7	.52	.54	.44	.48	16	.70
31	.56	---	.68	.82	---	4.2	---	.55	---	.43	28	---
TOTAL	27.91	18.54	22.42	21.67	35.59	93.6	68.71	22.12	14.02	24.67	94.40	85.35
MEAN	.90	.62	.72	.70	1.27	3.02	2.29	.71	.47	.80	3.05	2.85
MAX	5.7	.74	.81	.86	2.0	4.7	4.8	1.7	.89	3.6	28	26
MIN	.56	.50	.60	.64	.68	1.9	.52	.51	.35	.38	.35	.54
AC-FT	55	37	44	43	71	186	136	44	28	49	187	169

CAL YR 1980 TOTAL 1050.54 MEAN 2.87 MAX 45 MIN .28 AC-FT 2080
WTR YR 1981 TOTAL 529.00 MEAN 1.45 MAX 28 MIN .35 AC-FT 1050

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, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	NITRO-GEN DIS-SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)
OCT									
03...	1200	.70	3500	8.2	11.0	9.5	8.9	--	--
JUL									
14...	1600	.91	3460	8.1	24.0	29.0	6.0	--	--
AUG									
25...	1430	.80	3250	8.5	--	28.0	6.7	.52	41
SEP									
09...	1030	.53	4340	8.0	18.0	16.5	7.2	--	--

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L 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									
03...	830	400	--	100	140	590	61	8.9	4.2
JUL									
14...	790	--	430	120	120	540	59	8.3	6.4
AUG									
25...	850	--	430	110	140	600	60	9.0	4.6
SEP									
09...	850	--	460	110	140	600	60	9.0	4.4

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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT								
03...	430	1600	24	.6	11	2730	3.7	5.2
JUL								
14...	360	1500	95	.4	10	2610	3.6	6.4
AUG								
25...	420	1700	26	.6	12	2850	3.9	6.2
SEP								
09...	390	1600	29	.7	11	2730	3.7	3.9

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)
OCT							
03...	--	--	--	--	--	--	--
JUL							
14...	--	--	--	--	--	--	--
AUG							
25...	.060	.08	.44	.50	.01	.00	.010
SEP							
09...	--	--	--	--	--	--	--

09306410 EVACUATION CREEK ABOVE MISSOURI CREEK, NEAR DRAGON, UTAH--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	POTASSIUM 40 DISSOLVED (PCI/L AS K40)
OCT 03...	--	.00	--	.000	.00	--
JUL 14...	--	.09	--	.060	.18	4.8
AUG 25...	.03	.02	.020	.000	.00	--
SEP 09...	--	.00	--	.010	.03	--

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)
AUG 25...	1430	1400	1400	20	2	1	1	18	300	10	10	0

DATE	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)
AUG 25...	<1	0	0	0	1	0	0	0	4	10	8	1

DATE	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)
AUG 25...	7	9	1400	1400	4900	4	3	1	10	40	0	40

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, SUSPENDED RECOV. (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)
AUG 25...	70	30	600	.0	.0	.1	.02	10	1	9	<1	2

DATE	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
AUG 25...	0	3	10	2	0	2	0	1.0	30	20	18

DATE	TIME	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 03...	1200	130	60	--
JUL 14...	1600	260	60	--
AUG 25...	1430	180	40	40
SEP 09...	1030	160	110	--

09306430 EVACUATION CREEK NEAR WATSON, UTAH

LOCATION.--Lat 39°57'08", long 109°09'31", in NE¼SW¼NE¼ sec.13, T.10 S., R.24 E., Uintah County, Hydrologic Unit 14050007, on right bank 2.2 mi (3.5 km) upstream from mouth and 4.8 mi (7.7 km) north of Watson.

DRAINAGE AREA.--284 mi^2 (736 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to September 1981 (discontinued).

GAGE.--Water-stage recorder and artificial control. Altitude of gage is 5,050 ft (1,539 m) from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--7 years, 1.55 ft^3/s (0.044 m^3/s), 1,120 acre-ft/yr (1.38 hm^3/yr).

COOPERATION.--Records furnished by White River Shale project.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,980 ft^3/s (56.1 m^3/s) Sept. 26, 1979, gage height, 7.48 ft (2.280 m), from rating curve extended above 50 ft^3/s (1.4 m^3/s) on basis of slope-area measurement of peak flow; no flow at times for some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 380 ft^3/s (10.8 m^3/s) July 24, gage height, 430 ft (1,311 m), from rating curve extended above 50 ft^3/s (1.40 m^3/s) on basis of slope-area measurement of peak flow; minimum daily, 0.10 ft^3/s (0.003 m^3/s) several days during Oct. and Nov.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	.10	.22	.16	.29	.35	1.1	1.1	.75	.21	.18	3.0
2	.22	.10	.22	.21	.29	.45	1.1	1.1	.65	.16	.18	.45
3	.22	.10	.22	.25	.35	.35	1.6	2.8	.65	.16	.18	.25
4	.22	.10	.22	.29	.35	.35	1.4	5.1	1.2	.16	.18	.21
5	.22	.10	.22	.29	.35	.45	1.6	2.5	.65	.16	.18	11
6	.22	.15	.22	.29	.35	.55	2.1	1.7	.55	.16	.18	2.5
7	.22	.17	.22	.29	.35	.55	2.3	1.6	.55	.16	.18	.65
8	.22	.17	.22	.29	.35	.55	2.3	1.9	.55	.16	.21	.95
9	.22	.17	.22	.29	.35	.65	1.9	1.1	.65	.16	.21	.75
10	.22	.18	.22	.29	.35	.65	1.6	1.0	.65	.16	.25	21
11	.22	.18	.22	.29	.29	.65	1.9	1.0	.65	3.1	.25	2.1
12	.22	.18	.22	.29	.29	.65	2.3	1.0	.65	2.2	.25	.50
13	.22	.21	.22	.25	.29	.75	2.1	1.0	.55	10	11	.40
14	1.2	.21	.22	.25	.95	.85	1.9	1.0	.55	.50	.55	.20
15	11	.21	.22	.25	1.2	.85	2.3	1.0	.55	.20	26	.20
16	.50	.25	.22	.25	.85	.85	2.5	1.2	.55	.20	5.0	.20
17	.50	.25	.22	.25	.55	.85	2.6	.95	.45	.20	.80	.20
18	.50	.25	.22	.25	.55	.75	2.8	1.0	.45	.20	.40	.20
19	.50	.25	.22	.21	.45	.85	2.6	.95	.45	.30	.14	.20
20	.50	.26	.18	.21	.45	.95	2.6	.95	.45	.20	.14	.20
21	.50	.26	.18	.21	.29	.85	2.5	.95	.35	.20	.14	.20
22	.18	.26	.29	.21	.25	.85	1.9	.95	.35	.20	.14	.20
23	.15	.26	.25	.25	.35	.95	1.6	.95	.35	.50	.14	.20
24	.10	.26	.14	.25	.35	.95	1.4	.85	.29	38	.55	52
25	.10	.25	.14	.25	.35	.95	1.4	.85	.25	8.5	.16	5.0
26	.10	.25	.14	.29	.45	.95	1.6	.75	.29	.60	.12	.50
27	.10	.22	.14	.29	.35	1.0	1.4	.75	4.8	.50	.12	.40
28	.10	.22	.14	.29	.35	1.0	1.4	.75	.50	.30	.12	.20
29	.10	.22	.14	.45	---	1.0	1.2	.75	.21	.16	.14	.20
30	.10	.22	.16	.34	---	1.1	1.2	.75	.21	.16	23	.20
31	.10	---	.16	.34	---	1.1	---	.75	---	.16	24	---
TOTAL	19.19	6.01	6.24	8.32	11.99	23.60	56.2	39.00	19.75	68.03	95.09	104.26
MEAN	.62	.20	.20	.27	.43	.76	1.87	1.26	.66	2.19	3.07	3.48
MAX	11	.26	.29	.45	1.2	1.1	2.8	5.1	4.8	38	26	52
MIN	.10	.10	.14	.16	.25	.35	1.1	.75	.21	.16	.12	.20
AC-FT	38	12	12	17	24	47	111	77	39	135	189	207

CAL YR 1980 TOTAL 1487.71 MEAN 4.06 MAX 258 MIN .00 AC-FT 2950
WTR YR 1981 TOTAL 457.68 MEAN 1.25 MAX 52 MIN .10 AC-FT 908

09306430 EVACUATION CREEK NEAR WATSON, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1974 to current year. Prior to 1979 water year, published in "Hydrologic and Climatologic Data" reports for Utah.
SPECIFIC CONDUCTANCE: October 1975 to September 1977, October 1978 to current year, daily.
WATER TEMPERATURES: October 1974 to current year, daily.
SUSPENDED-SEDIMENT DISCHARGE: December 1974 to April 1976, monthly, October 1976 to September 1979, daily (discontinued).

REMARKS.--Specific conductance and water temperature recorders are not generally operated during the winter period. Suspended-sediment loads were computed using sediment-rating curves and periodic samples.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded (considerable missing record), 7,320 micromhos Nov. 27, 1976; July 19, 1981: minimum recorded, 190 micromhos Feb. 18, 1980.
WATER TEMPERATURES: Maximum recorded, 33.5°C July 11, 1977, July 14, 1978; minimum, 0.0°C on many days during winter periods.
SEDIMENT LOADS: Maximum daily, 35,700 tons (32,400 tonnes) July 5, 1977; 0 tons on many days.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded (more than 20 percent missing record), 7,320 micromhos July 19; minimum recorded, 330 micromhos Sept. 24.
WATER TEMPERATURES: Maximum recorded, 32.5°C July 5, 8; minimum recorded, 1.5°C several days during Nov. and Dec.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)
APR 30...	0915	1.2	4100	7.6	13.0	--	--	--	1200
JUL 29...	1100	.18	4550	--	21.0	--	--	--	1200
AUG 25...	1010	.23	3750	8.2	29.0	6.8	1.5	66	1200
SEP 30...	0930	E.18	4700	8.0	14.0	--	--	58	1200

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)	SULFIDE TOTAL (MG/L AS S)
APR 30...	790	190	170	750	58	9.5	8.1	390	.5
JUL 29...	790	200	170	770	58	9.7	9.0	410	--
AUG 25...	770	180	170	750	58	9.6	9.0	380	--
SEP 30...	760	190	170	760	58	9.7	7.6	420	.2

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	IODIDE, DIS-SOLVED (MG/L AS I)	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)
APR 30...	2200	40	.9	.20	--	11	3620	4.9	11.7
JUL 29...	2300	51	.7	--	--	12	3760	5.1	1.8
AUG 25...	2300	50	.4	--	--	15	3710	5.1	2.3
SEP 30...	2300	55	.8	.20	.020	16	3760	5.1	--

(E) Estimated values.

09306430 EVACUATION CREEK NEAR MOUTH, NEAR WATSON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)
APR 30...	.120	.15	--	2.10	--	--	--	--
JUL 29...	--	--	--	--	--	--	--	--
AUG 25...	.140	.18	.49	--	.63	.79	3.5	.030
SEP 30...	.150	.19	--	.85	--	--	--	--

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	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)	POTASSIUM 40 DISSOLVED (PCI/L AS K40)
APR 30...	--	1.1	.020	.06	--	.010	.03	6.0
JUL 29...	--	.65	--	--	--	.060	.18	--
AUG 25...	.10	.82	--	--	.010	.010	.03	--
SEP 30...	--	.77	.040	.12	--	.030	.09	--

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM. TOTAL RECOVERABLE (UG/L AS BE)
APR 30...	0915	--	--	0	--	--	1	--	200	--	--
JUL 29...	1100	--	--	--	--	--	--	--	--	--	--
AUG 25...	1010	7800	7800	10	4	1	3	9	--	300	0
SEP 30...	0930	--	--	20	--	--	2	--	0	--	--

DATE	BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)
APR 30...	--	--	--	1600	--	--	0	--	--	--	10
JUL 29...	--	--	--	1700	--	--	--	--	--	--	--
AUG 25...	0	0	<1	1600	0	0	0	1	20	10	10
SEP 30...	--	--	--	1600	--	--	0	--	--	--	0

DATE	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	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)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
APR 30...	--	--	--	--	24	--	--	--	50	--	--
JUL 29...	--	--	--	--	--	--	--	--	50	--	--
AUG 25...	8	10	31	25	6	10	14000	14000	40	6500	11
SEP 30...	--	--	--	--	15	--	--	--	110	--	--

09306430 EVACUATION CREEK NEAR MOUTH, NEAR WATSON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	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)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
APR 30...	--	2	--	--	--	110	--	--	90	--	--
JUL 29...	--	--	--	--	--	--	--	--	180	--	--
AUG 25...	10	1	10	130	10	120	440	270	170	440	.1
SEP 30...	--	0	--	--	--	120	--	--	240	--	--

DATE	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, SUSPENDED RECOV. (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)
APR 30...	--	.0	--	--	--	42	--	--	--	--	--
JUL 29...	--	--	--	--	--	--	--	--	--	--	--
AUG 25...	.1	.0	.02	25	21	4	<1	14	13	1	11
SEP 30...	--	.0	--	--	--	38	--	--	--	--	--

DATE	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
APR 30...	--	--	0	--	4000	2.0	--	--	20	--
JUL 29...	--	--	--	--	--	--	--	--	--	--
AUG 25...	2	0	2	0	--	.0	60	50	10	20
SEP 30...	--	--	2	--	3800	1.0	--	--	30	--

DATE	TIME	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
APR 30...	0915	17	--	1	--
AUG 25...	1010	12	.00	0	.10
SEP 30...	0930	13	--	--	--

09306430 EVACUATION CREEK NEAR MOUTH, NEAR WATSON, UT--CONTINUED

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	4230	4020	4150	4320	4150	4230	4280	4180	4210	---	---	---
2	4220	4030	4160	4310	4100	4210	4270	4210	4230	---	---	---
3	4230	4000	4140	4310	4070	4180	4280	4100	4180	---	---	---
4	4210	3980	4120	4220	3980	4180	4260	4050	4180	---	---	---
5	4190	3990	4100	4280	4100	4190	4230	4040	4150	---	---	---
6	4110	4030	4080	4280	4120	4180	4220	4140	4160	4450	4370	4410
7	4230	4030	4120	4270	4070	4180	4230	4180	4200	4470	4330	4380
8	4250	3990	4130	4280	4110	4180	4260	4160	4190	---	---	---
9	4280	4030	4150	4300	4060	4200	4300	4190	4220	---	---	---
10	4260	4070	4170	4290	4100	4180	4330	4190	4250	---	---	---
11	4310	4120	4200	4270	4080	4160	4340	4180	4250	---	---	---
12	4590	4130	4240	4240	3980	4160	4350	4160	4250	---	---	---
13	4300	3850	4190	4260	4120	4190	4350	4160	4260	---	---	---
14	4440	2890	3310	4270	4100	4180	4360	4190	4260	---	---	---
15	3510	620	1520	4290	4100	4200	4340	4190	4250	---	---	---
16	---	---	---	4300	4010	4180	4350	4180	4250	---	---	---
17	---	---	---	4280	4020	4180	4340	4160	4240	---	---	---
18	---	---	---	4290	4000	4160	4360	4160	4300	---	---	---
19	---	---	---	4270	3990	4160	5030	4170	4290	---	---	---
20	---	---	---	4270	3980	4120	4900	4080	4200	4480	4320	---
21	4690	4530	4640	4240	4000	4120	4630	4020	4120	4490	4290	4420
22	4720	4290	4540	4210	4040	4100	---	---	---	4440	4190	4380
23	4270	4160	4200	4200	3990	4100	---	---	---	---	---	4280
24	4280	4180	4210	4250	4000	4100	---	---	---	---	---	---
25	4280	4120	4210	4260	4080	4150	---	---	---	---	---	---
26	4270	4190	4220	4270	4110	4180	---	---	---	---	---	---
27	4290	4230	4240	4270	4130	4180	---	---	---	---	---	---
28	4300	4230	4250	4280	4100	4170	---	---	---	---	---	---
29	4320	4190	4250	4280	4150	4180	---	---	---	---	---	---
30	4310	4180	4240	4260	4130	4170	---	---	---	---	---	---
31	4330	4170	4240	---	---	---	---	---	---	---	---	---
MONTH	4720	620	4080	4320	3980	4170	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	4450	---	---	4150	---	---	---
2	---	---	---	---	---	4510	---	---	4230	---	---	---
3	4480	4400	4450	---	---	4500	---	---	4300	---	---	---
4	4480	4270	4350	---	---	4490	---	---	4510	---	---	---
5	4390	4230	4270	4560	4080	4440	---	---	4530	---	---	---
6	4340	4250	4260	---	---	3990	4630	4590	4600	---	---	4710
7	4330	4170	4240	---	---	3970	4610	4480	4500	4730	4490	4610
8	4330	4170	4270	---	---	4040	4530	4430	4440	4500	4240	4390
9	---	---	---	---	---	4100	4480	4370	4380	4410	4290	4320
10	---	---	---	---	---	4170	4400	4230	4290	4320	4170	4210
11	---	---	---	---	---	4240	4350	4260	4270	4280	4200	4200
12	---	---	---	---	---	4280	4350	4220	4250	4280	4180	4210
13	---	2810	4470	---	---	4320	4270	4150	4170	4290	4170	4210
14	4540	4350	4000	---	---	4370	4240	4090	4120	4300	4150	4190
15	4560	---	---	---	---	4410	4210	3870	4060	4270	3990	4100
16	---	---	---	---	---	4440	4150	4020	4080	4300	3500	4030
17	---	---	---	4670	4150	4520	4120	4030	4050	4090	4020	4090
18	---	---	---	4570	4170	4480	4070	3940	3980	4180	3900	4030
19	---	---	---	4460	4220	4430	4060	3880	3950	4080	3810	3960
20	---	---	---	4280	4030	4360	4050	3950	3960	4480	3810	4010
21	---	---	---	4160	4010	4330	4040	3930	3950	4140	4030	4040
22	---	---	---	---	---	4340	---	---	---	---	---	---
23	4670	4470	4540	---	---	4330	---	---	---	---	---	---
24	4630	4480	4600	---	---	4490	---	---	---	---	---	---
25	4800	4240	4570	---	---	4480	---	---	---	---	---	---
26	4510	4000	4490	4600	3920	4560	---	---	---	---	---	4390
27	4300	4000	4460	4510	4240	4390	---	---	---	4740	4200	4230
28	4300	3990	4490	4320	4180	4320	---	---	---	4930	4190	4260
29	---	---	---	4240	4020	4290	---	---	---	4330	4120	4290
30	---	---	---	4190	4010	4330	---	---	---	4280	4070	4280
31	---	---	---	---	---	4270	---	---	---	---	---	---
MONTH	---	---	---	---	---	4340	---	---	---	---	---	---

09306430 EVACUATION CREEK NEAR MOUTH, NEAR WATSON, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	4360	4620	4370	4570	4630	4480	4500	---	---	---
2	---	---	4520	4640	4420	4530	4620	4320	4500	3750	3110	3470
3	---	---	4550	4610	4520	4480	4590	4200	4500	3900	3750	3810
4	4830	4120	4340	4540	4330	4470	4560	4250	4450	3900	3830	3830
5	4260	4000	4120	4610	4420	4520	4530	4010	4520	3860	1420	2930
6	4180	3970	4090	4640	4370	4510	4520	4220	4580	---	---	---
7	4230	4030	4100	4590	4420	4480	4390	3640	4480	---	---	---
8	4310	4050	4150	4600	4400	4480	4860	4220	4570	---	---	---
9	4310	4180	4200	4620	4700	4490	4930	4170	4560	---	---	---
10	4260	3930	4060	4610	4470	4490	5170	4090	4510	4420	450	3190
11	---	---	---	6620	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	4270	4140	4210	---	---	---	---	---	---
16	---	---	---	4210	4110	4130	---	---	---	---	---	---
17	---	---	---	4200	4120	4130	---	---	---	---	---	---
18	---	---	---	4670	4120	4170	---	---	---	---	---	---
19	---	---	---	7320	4150	4820	---	---	4550	---	---	---
20	---	---	---	4570	3080	4080	4620	4470	4510	---	---	---
21	---	---	---	4140	4070	4090	4570	4340	4480	---	---	---
22	---	---	---	4180	4030	4090	4580	4250	4560	---	---	---
23	---	---	---	5760	---	---	4560	4290	4470	4610	4410	4370
24	---	---	---	---	---	---	---	---	---	4760	330	2860
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	4630	4490	4540	---	---	---	---	---	---
30	---	---	---	4600	4500	4510	---	---	---	---	---	---
31	---	---	---	4630	4470	4520	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	25.0	8.0	14.0	17.5	4.0	8.0	11.0	2.5	4.5	9.5	3.5	5.5
2	23.0	8.0	13.0	16.5	5.0	8.0	9.5	2.5	5.5	---	---	---
3	24.5	7.0	12.5	16.0	4.5	8.5	12.5	4.0	6.0	---	---	---
4	24.0	7.0	12.5	18.0	5.0	10.0	11.5	4.0	5.5	---	---	---
5	24.0	7.5	13.0	18.0	4.5	8.5	10.5	4.0	6.0	---	---	---
6	24.5	7.5	14.0	16.0	5.0	8.5	11.5	4.0	6.5	---	---	---
7	24.5	6.5	12.5	18.0	6.0	9.0	8.0	3.5	5.5	9.5	3.5	5.0
8	23.5	7.0	12.5	16.5	6.0	9.0	11.5	2.5	5.0	9.5	3.5	5.0
9	24.0	6.5	12.0	17.0	5.0	8.5	10.0	2.0	4.5	9.5	3.5	5.5
10	22.5	7.0	12.0	16.5	4.5	8.0	10.5	1.5	4.0	9.5	4.0	5.5
11	22.0	6.0	11.5	14.5	4.5	8.0	10.5	2.0	4.0	9.0	3.5	5.0
12	14.0	7.5	10.5	12.0	7.0	9.0	10.5	1.5	4.0	---	---	---
13	22.0	9.5	13.5	9.5	6.0	7.0	10.0	1.5	3.5	---	---	---
14	13.0	7.0	10.0	12.0	3.5	6.5	10.0	1.5	4.0	---	---	---
15	10.0	6.5	8.0	12.5	2.5	5.0	10.5	2.0	4.0	---	---	---
16	11.0	6.0	7.5	11.5	2.0	4.0	11.5	2.0	4.5	---	---	---
17	11.5	3.5	7.0	11.0	1.5	4.0	11.5	2.0	4.5	---	---	---
18	14.0	4.5	7.5	11.0	1.5	4.0	11.5	2.0	5.0	---	---	---
19	14.5	4.5	8.0	11.5	2.0	4.5	12.0	2.0	4.0	---	---	---
20	15.5	5.5	8.0	12.0	2.0	4.5	10.5	2.0	4.0	---	---	---
21	17.5	5.0	8.5	12.0	2.0	4.5	11.5	2.5	5.5	12.5	2.5	5.0
22	17.0	3.5	8.0	11.5	3.0	6.0	---	---	---	11.5	2.5	5.0
23	17.0	3.5	7.0	10.5	3.5	6.0	---	---	---	10.5	2.5	5.5
24	17.5	3.0	7.5	10.0	2.0	4.5	---	---	---	---	---	---
25	17.0	3.0	7.5	10.5	1.5	4.5	9.5	3.5	5.5	---	---	---
26	11.5	5.5	8.0	10.5	1.5	4.0	10.0	4.0	5.5	---	---	---
27	12.0	3.5	6.5	7.5	1.5	3.5	9.0	4.0	6.0	---	---	---
28	16.5	3.5	7.0	11.5	1.5	4.5	9.5	4.0	6.0	---	---	---
29	16.5	3.0	7.0	9.0	2.0	4.5	10.0	3.5	5.5	---	---	---
30	17.0	3.5	7.5	12.0	2.5	5.0	9.5	3.5	5.5	---	---	---
31	16.5	4.5	8.0	---	---	---	9.5	3.5	5.5	---	---	---
MONTH	25.0	3.0	9.5	18.0	1.5	6.5	12.5	1.5	5.0	---	---	---

09306430 EVACUATION CREEK NEAR MOUTH, NEAR WATSON, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	16.5	7.5	10.0	22.0	10.5	15.0
2	---	---	---	---	---	---	16.0	8.0	11.0	19.5	11.5	14.0
3	---	---	---	---	---	---	12.5	5.0	8.0	14.5	6.5	10.5
4	10.0	3.0	5.0	---	---	---	14.5	6.0	9.0	23.5	7.5	14.5
5	9.5	3.0	5.0	---	---	---	17.0	6.0	10.0	23.5	8.0	14.5
6	9.5	3.5	5.0	11.0	5.0	8.0	---	---	---	---	---	---
7	10.0	3.5	5.0	13.5	7.5	9.0	15.0	8.5	10.0	---	---	---
8	9.5	3.5	5.5	16.5	6.0	9.0	18.0	6.5	10.5	18.0	7.0	11.0
9	---	---	---	17.0	6.0	9.0	18.5	7.0	11.5	20.5	8.5	13.0
10	---	---	---	16.5	6.5	9.0	18.5	8.5	11.5	21.5	10.0	13.5
11	---	---	---	15.0	6.5	8.5	17.5	9.0	11.5	20.0	9.5	12.5
12	---	---	---	17.0	7.0	8.5	18.5	7.5	11.5	20.5	8.5	12.5
13	---	---	---	15.0	6.5	8.5	19.5	9.0	12.0	20.5	9.0	13.0
14	---	---	---	16.5	6.5	9.0	19.5	8.5	12.5	22.0	10.0	13.5
15	---	---	---	17.5	7.0	10.0	16.5	9.0	11.5	20.0	11.0	13.0
16	---	---	---	13.0	5.0	9.0	21.5	8.0	12.5	18.0	10.0	13.0
17	---	---	---	16.5	6.5	9.5	21.0	9.0	14.0	21.0	11.0	13.5
18	---	---	---	16.5	7.0	9.5	21.0	8.5	13.5	22.0	10.5	14.0
19	---	---	---	16.5	7.0	10.0	17.5	7.5	12.0	18.0	11.0	13.0
20	---	---	---	13.0	8.5	9.0	20.5	7.5	12.0	18.5	10.0	11.5
21	---	---	---	15.5	7.5	9.5	17.0	7.5	11.5	18.0	11.0	13.0
22	---	---	---	17.0	7.0	10.5	20.5	8.5	12.5	21.0	11.0	13.5
23	---	---	---	17.5	7.5	11.0	20.5	8.5	13.0	22.0	10.5	14.5
24	16.0	4.5	7.5	17.5	7.5	10.0	20.5	9.5	13.5	22.5	11.5	15.0
25	13.5	5.0	7.5	17.5	7.0	10.5	20.5	10.0	13.5	22.0	13.0	15.5
26	8.5	6.0	7.0	17.0	7.5	10.0	19.5	10.0	13.0	23.5	13.0	16.0
27	15.5	5.5	8.5	13.5	7.0	9.5	19.5	10.0	13.5	23.5	12.5	15.5
28	15.0	5.5	8.5	13.0	7.5	9.0	20.5	10.0	13.5	24.5	12.5	16.0
29	---	---	---	15.5	7.5	10.5	21.0	10.0	14.0	24.5	12.0	16.0
30	---	---	---	13.0	6.5	8.5	21.5	10.5	14.0	24.0	13.5	16.5
31	---	---	---	16.5	6.5	10.0	---	---	---	24.5	11.5	16.0
MONTH	---	---	---	17.5	5.0	9.5	21.5	5.0	12.0	24.5	6.5	14.0
		JUNE			JULY			AUGUST			SEPTEMBER	
1	25.0	12.0	16.0	20.5	14.5	16.5	31.5	12.5	19.0	23.5	11.0	17.0
2	---	---	---	30.0	13.5	18.5	31.0	13.0	20.0	---	---	---
3	---	---	---	30.5	13.0	19.5	31.0	13.0	19.5	29.0	13.5	17.5
4	25.5	10.5	16.5	31.5	13.0	19.5	31.0	11.0	19.0	27.0	12.5	17.0
5	24.0	11.5	16.0	32.5	12.5	20.0	30.5	11.5	19.0	18.5	13.5	15.0
6	24.0	12.0	16.0	31.0	13.0	19.0	30.5	12.0	19.5	18.5	13.5	15.5
7	23.5	12.5	16.0	30.5	13.5	20.0	30.5	12.0	19.0	21.0	14.5	17.0
8	23.5	12.5	16.5	32.5	13.0	20.0	---	---	---	22.0	14.0	17.5
9	23.0	12.5	16.5	31.0	14.5	18.5	30.0	13.0	18.5	24.5	14.5	17.5
10	23.5	13.0	16.5	32.0	13.5	19.5	25.5	12.5	16.0	21.5	14.5	17.0
11	23.0	12.5	16.5	26.5	14.5	20.0	24.0	14.0	16.5	23.0	12.5	16.5
12	21.5	12.5	16.0	28.0	17.0	20.5	29.5	12.5	18.0	22.5	12.0	17.0
13	20.5	12.0	15.0	28.0	17.5	21.0	22.5	12.0	16.0	---	---	---
14	19.0	11.0	13.0	30.0	15.5	21.5	27.5	12.0	18.0	---	---	---
15	20.5	10.5	14.0	29.5	13.5	19.0	24.5	11.5	16.5	---	---	---
16	21.0	11.0	14.5	23.0	13.0	17.0	27.0	11.0	17.5	---	---	---
17	21.0	12.0	15.0	32.0	13.5	20.0	28.5	12.5	19.0	---	---	---
18	21.0	12.0	15.0	32.0	14.0	20.0	30.5	12.0	18.5	---	---	---
19	21.5	12.5	15.5	30.0	12.5	19.5	28.5	12.0	18.0	---	---	---
20	22.0	13.0	16.0	30.0	11.5	18.5	31.0	12.5	19.0	---	---	---
21	21.5	13.0	16.0	31.0	11.5	19.0	22.5	12.5	15.0	---	---	---
22	22.0	12.5	16.0	31.0	12.0	19.0	30.5	13.0	18.5	25.5	12.0	16.5
23	21.5	13.5	16.0	30.5	12.0	18.5	31.0	12.5	18.5	25.5	11.0	16.0
24	27.5	12.5	17.5	27.0	14.0	18.5	27.5	13.0	18.5	23.0	10.0	15.0
25	28.5	12.0	18.5	29.0	14.0	19.0	30.0	12.5	18.5	16.5	7.5	12.0
26	28.0	14.0	19.0	29.5	13.5	18.0	31.0	12.5	19.0	20.5	7.0	12.5
27	26.5	14.5	18.0	---	---	---	30.5	13.5	19.0	23.5	8.0	13.5
28	26.5	14.5	19.5	---	---	---	31.0	12.0	19.0	24.0	14.0	14.0
29	25.5	14.0	18.5	29.5	13.0	18.5	30.0	13.5	18.5	19.5	14.0	14.0
30	25.0	14.0	19.0	29.0	13.0	19.0	26.5	13.5	17.5	22.5	13.5	13.5
31	---	---	---	---	---	20.0	24.5	11.5	17.0	---	---	---
MONTH	28.5	10.5	16.5	32.5	11.5	19.0	31.5	11.0	18.0	---	---	---

09306625 ASPHALT WASH NEAR MOUTH, NEAR WATSON, UTAH

LOCATION.--Lat 39°56'05", long 109°16'00" in NE¼NE¼SE¼ sec.24, T.10 S., R.23 E., Uintah County, Hydrologic Unit 14050007, on right bank 1.3 mi (2.1 km) upstream from mouth, and 6.7 mi (10.8 km) northwest of Watson.

DRAINAGE AREA.--97.5 mi^2 (253 km^2).

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,950 ft (1,509 m) from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--7 years, 0.18 ft^3/s (0.0051 m^3/s), 130 acre-ft/yr (160,000 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,200 ft^3/s (90.6 m^3/s) Aug. 25, 1980, gage height, 9.21 ft (2.807 m), from rating curve extended above 2 ft^3/s (0.06 m^3/s) on basis of slope-area measurements of peak flow; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 458 ft^3/s (13.0 m3/s) Aug. 30, gage height, 3.39 ft (1.033 m), from rating curve extended above 2 ft^3/s (0.06 m^3/s) on basis of slope-area measurements of peak flow; no flow most of time.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
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	.11	.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	.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	.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	14	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	14.00	.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.004	.45	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	14	.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	.2	28	.00

CAL YR 1980 TOTAL 342.00 MEAN .93 MAX 124 MIN .00 AC-FT 678
WTR YR 1981 TOTAL 14.11 MEAN .039 MAX 14 MIN .00 AC-FT 28

09306625 ASPHALT WASH NEAR MOUTH, NEAR WATSON, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1975 to June 1976, March 1979, August 1981. Prior to 1979 water year, published in "Hydrologic and Climatologic Data" reports for Utah.
SEDIMENT DATA: February 1976, March 1979 (miscellaneous).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	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)
AUG 25...	1430	10	300	<1	<1	20	10	10

DATE	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)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
AUG 25...	8500	10	330	.01	<1	11	0	31

09306800 BITTER CREEK NEAR BONANZA, UTAH

LOCATION.--Lat 39°45'12", long 109°21'15", in SE¼SW¼SW¼ sec.21, T.12 S., R.23 E., Uintah County, Hydrologic Unit 14050007, on left bank 150 ft (46 m) upstream from road bridge, 3 mi (5 km) downstream from Sweetwater Canyon Creek, 17 mi (27 km) upstream from mouth, and 18 mi (29 km) south-southwest of Bonanza.

DRAINAGE AREA.--324 mi^2 (839 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 5,570 ft (1,698 m) from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Small reservoirs on tributaries above station.

AVERAGE DISCHARGE.--11 years, 1.57 ft^3/s (0.044 m^3/s), 1,140 acre-ft/yr (1.41 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,660 ft^3/s (47.0 m^3/s) July 17, 1974, gage height, 13.55 ft (4.130 m) from floodmarks; rating curve extended above 6 ft^3/s (0.170 m^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 (0.71 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Aug. 15	2300	81	2.29	6.57	2.003
Sept. 10	1900	*370	10.5	8.88	2.707

No flow, Aug. 1, 2-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	4.3	4.5	5.0	4.2	4.1	4.4	4.5	3.5	1.5	.00	.70
2	2.6	4.3	4.5	4.7	4.0	4.2	4.4	4.7	3.4	2.4	.01	.36
3	2.7	4.2	4.5	4.5	4.0	4.3	4.7	5.7	3.7	2.2	.00	.38
4	2.9	4.1	4.7	4.1	4.0	4.2	4.5	5.7	3.7	1.6	.00	.31
5	2.8	4.2	4.7	4.1	4.0	4.3	4.8	5.3	3.2	1.2	.00	.47
6	2.8	4.3	4.6	4.4	4.0	4.4	5.1	5.2	2.8	.86	.00	1.0
7	2.9	4.3	4.6	4.0	4.0	4.5	5.0	5.0	2.4	.62	.00	1.0
8	2.9	4.3	4.6	4.0	4.0	4.4	5.0	5.1	2.1	.39	.00	.93
9	3.0	4.3	4.5	4.0	4.0	4.4	5.0	5.0	1.8	.29	.00	1.6
10	2.9	4.3	4.5	4.0	3.4	4.5	5.1	5.0	1.7	.77	.00	24
11	3.0	4.3	4.0	4.0	3.3	4.5	5.1	5.0	1.6	.98	.00	8.7
12	3.3	4.4	4.0	3.7	3.6	4.6	5.0	4.9	1.5	1.1	.04	2.0
13	3.6	4.6	4.0	3.7	3.8	4.5	5.1	4.7	1.4	1.9	.21	1.4
14	3.8	4.5	4.0	3.7	4.0	4.4	5.2	4.7	1.4	1.8	4.0	1.3
15	4.6	4.5	4.0	4.0	4.1	4.3	5.4	4.7	1.5	1.8	3.7	1.0
16	4.9	4.0	4.3	4.2	4.1	4.3	5.2	4.9	1.6	1.1	6.6	.90
17	4.8	4.0	4.6	4.4	4.2	4.5	4.6	4.8	2.2	.95	.45	.82
18	4.3	4.0	4.6	4.4	4.1	4.4	4.7	4.8	2.0	1.1	.27	.75
19	4.1	4.0	4.6	4.4	4.0	4.4	4.7	4.7	1.7	.89	.21	.75
20	4.1	4.3	4.5	4.4	4.3	4.6	4.8	4.5	1.5	.58	.19	.75
21	4.2	4.3	4.4	4.4	4.1	4.4	4.9	4.3	1.3	.37	.25	.82
22	4.1	4.3	4.4	14	4.2	4.2	4.9	4.5	1.1	.23	.38	.82
23	4.0	4.3	4.4	12	4.3	4.3	4.8	4.3	.96	.21	.23	.75
24	4.1	3.6	4.6	4.4	4.5	4.4	4.8	4.2	.82	.23	4.7	.75
25	4.2	3.9	4.5	4.0	4.5	4.4	4.8	4.1	.77	.38	.29	1.1
26	4.5	4.0	4.2	3.4	4.5	4.5	4.7	4.1	.69	.45	.17	1.1
27	4.4	4.0	4.3	4.0	4.1	4.4	4.6	3.9	.99	.21	.17	1.0
28	4.2	4.2	4.3	3.7	4.1	4.4	4.5	3.1	1.7	.10	.16	1.0
29	4.2	4.2	4.4	3.6	---	4.4	4.5	4.3	1.5	.06	.14	.97
30	4.0	4.2	4.0	3.7	---	4.5	4.5	3.9	1.3	.04	.21	.97
31	4.2	---	5.0	4.5	---	4.5	---	3.8	---	.02	8.7	---
TOTAL	114.7	126.2	136.8	145.4	113.4	136.2	144.8	143.4	55.83	26.33	31.08	58.40
MEAN	3.70	4.21	4.41	4.69	4.05	4.39	4.83	4.63	1.86	.85	1.00	1.95
MAX	4.9	4.6	5.0	14	4.5	4.6	5.4	5.7	3.7	2.4	8.7	24
MIN	2.6	3.6	4.0	3.4	3.3	4.1	4.4	3.1	.69	.02	.00	.31
AC-FT	228	250	271	288	225	270	287	284	111	52	62	116

CAL YR 1980 TOTAL 1515.30 MEAN 4.14 MAX 20 MIN .05 AC-FT 3010
WTR YR 1981 TOTAL 1232.54 MEAN 3.38 MAX 24 MIN .00 AC-FT 2440

09306800 BITTER CREEK NEAR BONANZA, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1974 to current year. Prior to 1979 water year, published in "Hydrologic and Climatologic Data" reports for Utah.
SPECIFIC CONDUCTANCE: May 1977 to September 1978.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	NITRO-GEN DIS-SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)
OCT									
08...	1500	2.9	4440	8.0	28.0	10.5	11.0	--	--
MAY									
05...	1430	5.2	4000	8.2	23.0	20.0	10.4	--	--
JUL									
07...	1300	.80	5850	7.9	35.0	22.0	--	--	--
AUG									
25...	1620	.28	6200	8.6	--	25.0	10.0	2.0	98

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L 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									
08...	1900	1500	--	240	320	480	35	4.8	7.4
MAY									
05...	1800	--	1400	270	270	420	34	4.3	7.6
JUL									
07...	2600	--	2200	330	430	690	37	5.9	8.6
AUG									
25...	3200	--	2800	350	560	1000	41	7.7	11

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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT								
08...	390	2300	42	.6	12	3640	5.0	28.5
MAY								
05...	350	2200	39	.5	13	3430	4.7	48.0
JUL								
07...	380	3600	70	.8	6.4	5370	7.3	11.6
AUG								
25...	410	4500	100	1.1	11	6780	9.2	5.1

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)
OCT							
08...	--	--	--	--	--	--	--
MAY							
05...	--	--	--	--	--	--	--
JUL							
07...	--	--	--	--	--	--	--
AUG							
25...	.100	.13	1.6	1.7	.30	1.3	.030

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	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)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT						
08...	--	.20	--	.010	.03	--
MAY						
05...	--	.24	--	.000	.00	5.7
JUL						
07...	--	.19	--	.080	.25	6.4
AUG						
25...	.10	.33	.030	.000	.00	--

09306800 BITTER CREEK NEAR BONANZA, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)
AUG 25...	1620	350	330	20	11	0	12	12	400	0	0	0

DATE	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)
AUG 25...	<1	0	0	1	1	10	0	20	6	10	7	2

DATE	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)
AUG 25...	5	13	460	410	6000	14	14	0	20	240	10	230

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, SUSPENDED RECOV. (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)
AUG 25...	50	0	300	.0	.0	.0	.02	67	6	61	<1	10

DATE	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
AUG 25...	3	7	10	1	1	0	0	2.0	40	20	25

DATE	TIME	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 08...	1500	300	50	20
MAY 05...	1430	780	30	150
JUL 07...	1300	1600	60	20
AUG 25...	1620	2400	50	50

DATE	TIME	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	OIL AND GREASE, TOTAL RECOV. GRAVIMETRIC (MG/L)
AUG 25...	1620	24	.00	2	.20	0

09306850 BITTER CREEK AT MOUTH, NEAR BONANZA, UTAH

LOCATION.--Lat 39°57'56", long 109°24'59", in NE¼SE¼NE¼ sec.10, T.10 S., R.22 E., Uintah County, Hydrologic Unit 14050007, on left bank 0.6 mi (1.0 km) upstream from mouth and 13 mi (20.9 km) southwest of Bonanza.

DRAINAGE AREA.--398 mi^2 (1,031 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder and artificial control. Altitude of gage is 4,770 ft (1,454 m) from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--7 years, 1.08 ft^3/s (0.031 m^3/s) 782 acre-ft/yr (964,000 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 188 ft^3/s (5.32 m^3/s) Feb. 19, 1980, gage height, 3.26 ft (0.994 m), from rating curve extended above 3 ft^3/s (0.085 m^3/s) on basis of indirect measurements at 117 ft^3/s (3.31 m^3/s); minimum daily, 0.10 ft^3/s (0.003 m^3/s) July 2, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 168 ft^3/s (4.76 m^3/s) July 9, gage height, 3.13 ft (0.954 m); minimum daily, 0.30 ft^3/s (0.008 m^3/s) during several days in Sept.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	4.0	.58	.58	.53	2.3	3.7	3.5	4.7	.49	.46	3.9
2	1.6	4.3	.59	.58	.53	2.2	3.6	3.6	3.9	2.4	.46	.50
3	1.4	4.0	.58	.58	.53	2.3	4.0	4.2	4.4	2.5	.46	.32
4	1.7	4.0	.61	.58	.53	2.5	4.0	4.3	4.3	1.4	.46	.32
5	1.9	4.0	.59	.58	.53	2.2	3.8	4.1	4.1	.85	.45	.43
6	1.8	4.3	.58	.58	.53	2.1	3.7	4.0	3.3	.65	.39	.40
7	1.8	4.5	.58	.58	.53	2.5	3.8	4.1	2.9	.57	.41	.38
8	1.9	4.5	.58	.58	.53	2.0	3.8	4.1	2.0	.51	.42	.41
9	2.1	4.5	.58	.58	.53	1.8	3.7	4.1	1.2	4.8	.41	.38
10	2.2	4.8	.58	.58	.53	1.8	3.7	3.9	.78	.74	.42	.72
11	2.2	4.8	.58	.58	.53	2.0	3.7	3.9	.67	.63	.44	15
12	2.5	5.0	.58	.58	.48	2.2	3.7	4.0	.58	.61	.44	8.1
13	3.1	5.6	.58	.58	.48	2.4	3.7	4.0	.55	.58	.44	.55
14	3.8	5.3	.58	.58	.48	2.6	3.5	3.9	.58	1.4	.42	.37
15	4.3	5.0	.58	.58	.48	2.6	3.5	3.9	.58	.67	.42	.36
16	4.5	2.0	.58	.58	.48	2.7	3.6	4.3	.57	.77	.42	.34
17	4.8	1.0	.58	.58	1.2	3.0	3.6	4.4	.56	.58	2.6	.35
18	4.8	.64	.58	.58	2.4	3.1	3.8	4.2	.67	.54	.46	.34
19	4.3	.63	.58	.58	3.0	3.1	3.9	4.1	.67	.55	.40	.30
20	4.0	.63	.58	.58	2.5	3.2	3.9	4.1	.59	.53	.35	.30
21	4.0	.61	.58	.58	1.0	3.5	4.0	4.4	.53	.48	.36	.31
22	4.3	.60	.58	.62	1.8	3.3	4.2	4.5	.49	.47	.37	.30
23	4.0	.58	.57	.63	1.7	3.2	4.0	4.6	.46	.46	.37	.32
24	3.8	.61	.58	.63	2.8	3.3	4.0	4.5	.46	.54	.36	.30
25	3.8	.58	.58	.63	3.2	3.4	4.0	4.4	.45	.56	.61	.31
26	4.0	.58	.58	.63	3.2	3.5	4.1	4.2	.46	.49	.40	.31
27	4.5	.58	.58	.63	3.2	3.7	4.0	4.1	.47	.50	.34	.30
28	4.3	.58	.58	.63	3.0	3.8	4.0	4.3	.48	.50	.35	.30
29	3.8	.58	.58	.53	---	3.8	3.9	3.1	.46	.48	.34	.32
30	4.0	.58	.58	.53	---	3.8	3.6	4.2	.46	.46	.35	.32
31	4.0	---	.58	.53	---	3.7	---	4.7	---	.46	.36	---
TOTAL	100.8	79.38	18.02	18.17	37.23	87.6	114.5	127.7	42.32	27.17	14.94	36.86
MEAN	3.25	2.65	.58	.59	1.33	2.83	3.82	4.12	1.41	.88	.48	1.23
MAX	4.8	5.6	.61	.63	3.2	3.8	4.2	4.7	4.7	4.8	2.6	15
MIN	1.4	.58	.57	.53	.48	1.8	3.5	3.1	.45	.46	.34	.30
AC-FT	200	157	36	36	74	174	227	253	84	54	30	73

CAL YR 1980 TOTAL 755.80 MEAN 2.07 MAX 68 MIN .48 AC-FT 1500
WTR YR 1981 TOTAL 704.69 MEAN 1.93 MAX 15 MIN .30 AC-FT 1400

09306850 BITTER CREEK AT MOUTH, NEAR BONANZA, 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: April to September 1977.
SEDIMENT DATA: October 1976 to August 1978, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	NITRO-GEN DIS-SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)
OCT									
08...	1100	1.9	8800	8.0	10.0	8.0	9.0	--	--
MAY									
05...	1100	4.3	7000	8.2	19.0	15.0	9.4	--	--
JUL									
29...	1545	.43	14300	7.9	34.5	23.0	11.8	--	--
AUG									
25...	1430	.39	14000	8.1	--	24.5	12.2	3.7	120

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L 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									
08...	2600	2100	--	260	470	1500	56	13	10
MAY									
05...	2900	--	2500	340	500	1000	43	8.1	9.9
JUL									
29...	3000	--	2300	260	560	3400	71	27	10
AUG									
25...	2900	--	2200	270	540	3300	71	27	11

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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT								
08...	450	4800	110	.7	9.4	7440	10.1	37.2
MAY								
05...	430	4200	96	.6	8.6	6420	8.7	74.2
JUL								
29...	670	9300	270	.7	9.5	14200	19.3	16.5
AUG								
25...	690	8600	250	.8	11	13400	18.2	14.1

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)
OCT							
08...	--	--	--	--	--	--	--
MAY							
05...	--	--	--	--	--	--	--
JUL							
29...	--	--	--	--	--	--	--
AUG							
25...	.060	.08	1.7	1.8	1.80	8.0	.080

09306850 BITTER CREEK AT MOUTH, NEAR BONANZA, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	POTASSIUM 40 DISSOLVED (PCI/L AS K40)
OCT 08...	--	.90	--	.010	.03	--
MAY 05...	--	.47	--	.000	.00	7.4
JUL 29...	--	1.7	--	.000	.00	--
AUG 25...	.26	1.9	.140	.060	.18	--

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)
AUG 25...	1430	220	200	20	3	0	4	5	300	10	10	0

DATE	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)
AUG 25...	1	0	0	0	1	20	0	30	50	10	9	1

DATE	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)
AUG 25...	8	34	250	170	18000	5	4	1	30	230	30	200

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, SUSPENDED RECOV. (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)
AUG 25...	130	20	450	.0	.0	.0	.04	71	2	69	<1	99

DATE	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
AUG 25...	3	6	25	7	0	7	0	10	80	50	75

DATE	TIME	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 08...	1100	4700	90	90
MAY 05...	1100	350	80	50
JUL 29...	1545	10000	120	140
AUG 25...	1430	12000	80	110

09306850 BITTER CREEK AT MOUTH, NEAR BONANZA, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE TOTAL RECOV. GRAVI-METRIC (MG/L)
AUG 25...	1430	23	.00	.20	0

09306870 SAND WASH NEAR OURAY, UTAH

LOCATION.--Lat 39°55'51", long 109°29'45", in NE¼NW¼SE¼ sec.24, T.10 S., R.21 E., Uintah County, Hydrologic Unit 14050007, on right bank 6.4 mi (10.3 km) south of mouth and 14 mi (23 km) southeast of Ouray.

DRAINAGE AREA.--59.7 mi^2 (155 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to September 1981 (discontinued).

GAGE.--Water-stage recorder and artificial control. Altitude of gage is 5,140 ft (1,567 m) from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--7 years, 0.034 ft^3/s (0.001 m^3/s), 25 acre-ft/yr (30,800 m^3/yr).

COOPERATION.--Records for 1979 water year furnished by TOSCO Corporation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 162 ft^3/s (4.59 m^3/s) Sept. 10, 1980, gage height, 3.24 ft (0.988 m); no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 47 ft^3/s (1.33 m^3/s) Sept. 9, gage height, 2.59 ft (0.789 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
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	.31
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
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	.02	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.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	.15	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.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	.02	.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	.04	.20	.32
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.006	.011
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.15	.31
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08	.4	.6

CAL YR 1980 TOTAL 50.16 MEAN .14 MAX 20 MIN .00 AC-FT 99
WTR YR 1981 TOTAL 0.56 MEAN .002 MAX .31 MIN .00 AC-FT 1.1

09306872 SAND WASH NEAR MOUTH, NEAR OURAY, UTAH

LOCATION.--Lat 39°59'27", long 109°29'10", in NE¼NW¼SW¼ sec.31, T.9 S., R.22 E., Uintah County, Hydrologic Unit 14050007, on right bank 3.0 mi (4.8 km) upstream from mouth and 7 mi (11 km) southeast of Ouray.

DRAINAGE AREA.--71.1 mi^2 (184 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder and artificial control. Altitude of gage is 4,840 ft (1,475 m) from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--5 years, 0.415 ft^3/s (0.012 m^3/s), 301 acre-ft/yr (371,000 m^3/yr).

COOPERATION.--Records for 1979 water year furnished by TOSCO Corporation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 267 ft^3/s (7.56 m^3/s) Aug. 19, 1979, gage height, 3.10 ft (0.945 m); no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24 ft^3/s (0.68 m^3/s) Sept. 5, gage height, 2.26 ft (0.689 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
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	1.5
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.42
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	.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	.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	.00	1.92
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.064
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.5
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	.00	3.8

CAL YR 1980 TOTAL 218.39 MEAN .60 MAX 85 MIN .00 AC-FT 433
WTR YR 1981 TOTAL 1.92 MEAN .005 MAX 1.5 MIN .00 AC-FT 3.8

09306878 COYOTE WASH NEAR MOUTH, NEAR OURAY, UTAH

LOCATION.--Lat 40°03'15", long 109°28'36", in SW¼NE¼NE¼ sec.7, T.9 S., R.22 E., Uintah County, Hydrologic Unit 14050007, on right bank 0.1 mi (0.2 km) upstream from jeep trail, 1.1 mi (1.8 km) upstream from mouth, and 11 mi (18 km) southeast of Ouray.

DRAINAGE AREA.--228 mi^2 (591 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder and artificial control. Altitude of gage is 4,700 ft (1,433 m) from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 829 ft^3/s (23.9 m^3/s) Feb. 20, 1980, gage height, 5.65 ft (1.722 m); no flow most of the time each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 253 ft^3/s (7.16 m^3/s) Oct. 15, gage height, 3.77 ft (1.149 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
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	.14
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	12
3	.00	.00	.00	.00	.00	.00	23	60	.00	.00	.00	8.4
4	.00	.00	.00	.00	.00	.00	22	12	.00	.00	.00	.01
5	.00	.00	.00	.00	.00	.00	4.0	.45	.00	.00	.00	41
6	.00	.00	.00	.00	.00	.00	.33	.00	.00	.00	.00	58
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.3
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.57	.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	3.5	.00
14	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.8	.00
15	107	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	4.2	.00	.00	.00	.00	.00	.00	.00	.00	.00	8.5	.00
17	.90	.00	.00	.00	.00	.00	.00	.00	.00	.00	.22	.00
18	.16	.00	.00	.00	.00	.00	.00	.00	.00	.73	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.9	.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	.68	.32	.00	13	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	5.2	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	1.4	---
TOTAL	127.26	.00	.00	.00	.00	.00	49.33	73.13	.32	5.20	34.62	120.90
MEAN	4.11	.000	.000	.000	.000	.000	1.64	2.36	.011	.17	1.12	4.03
MAX	107	.00	.00	.00	.00	.00	23	60	.32	3.9	13	58
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	252	.00	.00	.00	.00	.00	98	145	.6	10	69	240

CAL YR 1980 TOTAL 1945.19 MEAN 5.31 MAX 548 MIN .00 AC-FT 3860
WTR YR 1981 TOTAL 410.76 MEAN 1.13 MAX 107 MIN .00 AC-FT 815

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, monthly. Although only monthly summary is given, daily values are available in the files.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT LOADS: Maximum daily, 107,900 tons (97,900 tonnes) Feb. 20, 1980; 0 tons many days.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT LOADS: Maximum daily, 14,000 tons (12,700 tonnes) Oct. 15; 0 tons many days.

REVISIONS.--Suspended-sediment discharge (tons/day) for water year 1979, not previously published, are given below.

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

1979	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
TOTAL	4711	175.00	0.00	0.00	0.00	229,237.6	21,792.20	1240.00	0.00	233.90	2477.90	0.00
MAX	4644.00	91.00	.00	.00	.00	63,860.00	13,230.00	443.00	.00	82.00	1336.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

WTR YR 1979 TOTAL 259,867.6 MAX 63,860 MIN .00

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	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)
OCT 15...	1400	76	--	--	--	7.5	--	--	--	--	--	--
MAY 03...	1300	144	460	9.6	11.5	11.0	8.8	6	.00	1.3	.6	29

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)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT 15...	--	--	--	--	--	--	--	--	--	--	--
MAY 03...	91	5.3	.7	34	9.7	2.2	.2	4.8	73	.10	28.4

DATE	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)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
MAY 03...	.66	.040	.12	.50

DATE	TIME	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS BA)	BERYL-LIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	BORON, DIS-SOLVED (UG/L AS B)	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, DIS-SOLVED (UG/L AS FE)
MAY 03...	1300	--	--	--	320	--	--	--	--	620
AUG 25...	1000	3	200	<1	--	<1	4	0	9	--

DATE	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	MOLYB-DENUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
MAY 03...	--	--	10	--	--	--	--	--	--
AUG 25...	1900	10	--	140	.01	<1	4	0	10

09306878 COYOTE WASH NEAR MOUTH, NEAR OURAY, UT--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

1981	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
TOTAL	15,302.39	0.00	0.00	0.00	0.00	0.00	3471.20	7229.00	18	512.40	2354.70	9918.56
MAX	14,000	.00	.00	.00	.00	.00	1930	5990	18	462	927	6340
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

WTR YR 1981 TOTAL 38,806.25 MAX 14,000 MIN .00

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM
MAR										
22...	1545	572	34100	52700	--	--	--	--	--	--
22...	1745	610	30900	50900	--	--	--	--	--	--
23...	1310	56	11900	1800	57	66	74	92	97	100
26...	1400	8.0	10800	233	--	--	--	--	--	--
AUG										
13...	1445	29	96900	7590	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM
OCT											
15...	1400	76	7.5	45100	9260	52	67	90	98	99	100

09306880 NORTH WASH NEAR OURAY, UTAH

LOCATION.--Lat 40°02'48", long 109°31'23", in NW¼SE¼SW¼ sec.11, T.9 S., R.21 E., Uintah County, Hydrologic Unit 14050007, Uintah and Ouray Indian Reservation, on right bank 2.9 mi (4.7 km) upstream from mouth, 5.4 mi (8.7 km) upstream from Cottonwood Creek, and 6.8 mi (10.9 km) southeast of Ouray.

DRAINAGE AREA.--11.0 mi^2 (28.5 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to September 1981 (discontinued).

GAGE.--Water-stage recorder and artificial control. Altitude of gage is 4,730 ft (1,442 m), from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 212 ft^3/s (6.00 m^3/s) May 28, 1981, gage height, 2.55 ft (0.777 m), from rating curve extended above 15 ft^3/s (0.42 m^3/s) on basis of slope-area measurement of peak flow; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 212 ft^3/s (6.00 m^3/s) May 28, gage height, 2.55 ft (0.777 m), from rating curve extended above 15 ft^3/s (0.42 m^3/s) on basis of slope-area measurement of peak flow; no flow most of time.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
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	.82	.00	.00	.00	.00
4	.00	.00	.36	.00	.00	.00	.90	.00	.00	.00	.00	.00
5	.00	.00	.42	.00	.00	.00	.01	.00	.00	.00	.00	7.2
6	.00	.00	2.1	.00	.00	.00	.00	.00	.00	.00	.00	.04
7	.00	.00	.01	.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	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.54	.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	.55	.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	8.3	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.11	.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	.54	.08	2.89	.00	.00	.00	.91	9.23	.00	.55	.00	7.24
MEAN	.017	.003	.093	.000	.000	.000	.030	.30	.000	.018	.000	.24
MAX	.54	.04	2.1	.00	.00	.00	.90	8.3	.00	.55	.00	7.2
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	1.1	.2	5.7	.00	.00	.00	1.8	18	.00	1.1	.00	14

CAL YR 1980 TOTAL 112.36 MEAN .31 MAX 33 MIN .00 AC-FT 223
WTR YR 1981 TOTAL 21.44 MEAN .059 MAX 8.3 MIN .00 AC-FT 43

09306880 NORTH WASH NEAR OURAY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	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
MAY 03...	1730	1.9	330	15.5	14.5	4	.00	1.1	.3	37	95

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)
MAY 03...	8.1	.5	63	16	5.0	.5	13	115	.16	.59

DATE	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)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
MAY 03...	.60	.070	.21	.40

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 03...	1730	400	270	0

09306885 COTTONWOOD WASH AT MOUTH, NEAR OURAY, UTAH

LOCATION.--Lat 40°03'22", long 109°36'30", in NW"NE"NE" sec.12, T.9 S., R.20 E., Uintah County, Hydrologic Unit 14050007, on right bank 0.9 mi (1.4 km) upstream from mouth and 4.1 mi (6.6 km) southeast of Ouray.

DRAINAGE AREA.--70.6 mi^2 (183 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder and artificial control. Altitude of gage is 4,680 ft (1,426 m) from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--5 years, 1.39 ft^3/s (0.039 m^3/yr), 1,010 acre-ft/yr (1.25 hm^3/yr).

COOPERATION.--Records for 1979 water year furnished by TOSCO Corporation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 840 ft^3/s (23.8 m^3/s) Feb. 20, 1980, gage height, 3.28 ft (1.000 m); no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 232 ft^3/s (6.57 m^3/s) Sept. 5, gage height, 1.42 ft (0.433 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
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	29
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.55
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	.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	1.2	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.7	.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	6.90	.00	29.55
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.22	.000	.99
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.7	.00	29
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	14	.00	59

CAL YR 1980 TOTAL 620.06 MEAN 1.69 MAX 180 MIN .00 AC-FT 1230
WTR YR 1981 TOTAL 36.45 MEAN .10 MAX 29 MIN .00 AC-FT 72

09306885 COTTONWOOD WASH AT MOUTH, NEAR OURAY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1977 to current year. Prior to 1979 water year, published in "Climatologic and Hydrologic Data" reports for Utah.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	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)
AUG 25...	1015	5	100	<1	<1	6	0	10

DATE	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)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
AUG 25...	2400	10	230	.01	<1	5	0	14

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UTAH

LOCATION.--Lat 40°03'54", long 109°38'06", in SE¼SE¼NW¼ sec.2, T.9 S., R.20 E., Uintah County, Hydrologic Unit 14050007, Uintah and Ouray Indian Reservation, on left bank 2.8 mi (4.5 km) southeast of Ouray and 3.9 mi (6.3 km) upstream from mouth.

DRAINAGE AREA.--5,120 mi^2 (13,260 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,655 ft (1,419 m) from topographic map.

REMARKS.--Records good. Diversions for irrigation of about 33,200 acres (134 km^2) above station.

AVERAGE DISCHARGE.--7 years, 632 ft^3/s (17.90 m^3/s), 457,900 acre-ft/yr (564 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,260 ft^3/s (121 m^3/s) Mar. 29, 1979, gage height, 7.71 ft (2.350 m); minimum, 1.6 ft^3/s (0.045 m^3/s) July 18, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,970 ft^3/s (55.8 m^3/s) June 10, gage height, 6.29 ft (1.917 m); minimum, 85 ft^3/s (2.41 m^3/s) Aug. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	358	469	408	369	408	381	423	880	1190	452	254	399
2	353	476	440	362	363	366	423	941	1340	380	246	268
3	344	472	472	385	305	359	456	1060	1320	326	238	251
4	332	464	438	413	300	358	514	1020	1370	389	195	223
5	317	461	407	417	270	358	478	1280	1480	457	161	220
6	305	461	395	397	300	349	470	1000	1430	443	136	388
7	296	459	398	387	340	346	422	938	1400	389	129	297
8	292	456	387	364	350	342	421	931	1510	317	112	265
9	289	444	379	335	370	368	433	861	1720	276	106	289
10	288	447	359	334	342	357	434	744	1700	286	105	318
11	286	442	339	348	374	355	399	696	1610	223	86	296
12	287	433	384	331	340	348	393	606	1550	226	97	333
13	301	437	330	330	270	343	472	580	1340	348	102	470
14	322	439	380	330	300	338	511	585	1100	402	161	307
15	531	479	410	340	350	341	495	545	915	424	257	317
16	767	496	380	350	400	333	505	481	789	377	267	295
17	736	428	400	350	480	340	535	448	676	294	314	284
18	593	340	430	359	490	339	564	448	572	273	270	285
19	613	376	430	416	470	356	612	500	485	294	260	269
20	643	382	430	434	443	374	653	540	405	307	237	267
21	595	367	430	429	432	363	714	430	391	341	211	276
22	593	378	420	468	405	355	841	420	335	290	208	287
23	569	433	420	430	421	359	702	481	279	253	213	283
24	541	458	400	400	394	359	680	495	272	225	225	291
25	534	408	410	400	391	356	609	520	260	232	209	301
26	515	389	420	405	399	372	619	520	260	344	186	327
27	491	383	420	420	425	409	723	545	260	319	158	279
28	498	407	410	380	405	378	865	654	260	450	174	270
29	515	402	395	370	---	403	894	856	260	339	161	262
30	493	342	390	410	---	443	863	1120	340	293	194	255
31	475	---	385	390	---	427	---	1270	---	253	285	---
TOTAL	14072	12828	12496	11853	10537	11275	17123	22395	26819	10222	5957	8872
MEAN	454	428	403	382	376	364	571	722	894	330	192	296
MAX	767	496	472	468	490	443	894	1280	1720	457	314	470
MIN	286	340	330	330	270	333	393	420	260	223	86	220
AC-FT	27910	25440	24790	23510	20900	22360	33960	44420	53200	20280	11820	17600

CAL YR 1980 TOTAL 279094 MEAN 763 MAX 2680 MIN 236 AC-FT 553600
WTR YR 1981 TOTAL 164449 MEAN 451 MAX 1720 MIN 86 AC-FT 326200

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 (5.5 km) downstream from gaging station and by U.S.P.S. 69 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 daily, 330 micromhos June 20, 1979.
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, 39,600 mg/L July 7, 1977; minimum daily mean, 20 mg/L Jan. 8, 1976.
SEDIMENT LOADS: Maximum daily, 268,000 tons (243,000 tonnes) Mar. 29, 1979; minimum daily, 0.69 ton (0.63 tonne) July 2, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 1,320 micromhos Aug. 17; minimum daily, 340 micromhos June 11, 12.
WATER TEMPERATURES: Maximum recorded 34.5°C June 26; minimum, 0.0°C many days during winter period.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 31,200 mg/L Sept. 14; minimum daily mean, 180 mg/L Aug. 11.
SEDIMENT LOADS: Maximum daily, 27,700 tons (25,100 tonnes) Sept. 13; minimum daily, 42 tons (38 tonnes Aug. 11.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	NITRO-GEN DIS-SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)
OCT 17...	1000	720	880	7.9	10.5	9.0	27	8.3	1.0	--
NOV 19...	1130	340	810	8.2	1.0	.5	55	11.6	.30	--
JAN 23...	1000	430	860	8.3	-3.0	.5	6.8	11.0	.45	--
MAR 26...	1100	359	1000	8.1	17.0	10.5	160	9.1	.93	--
JUN 02...	1030	1440	470	7.8	20.0	19.0	150	7.1	.87	--
JUL 23...	1030	253	910	7.8	25.5	23.0	420	7.5	.81	--
AUG 25...	1130	209	800	8.1	--	22.5	--	7.1	1.0	51
SEP 23...	0930	279	800	8.0	20.0	18.0	170	7.9	.77	--

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 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
OCT 17...	1500	1200	300	100	--	73	29	83	37	2.1
NOV 19...	K2	K32	290	77	--	67	29	76	36	2.0
JAN 23...	<1	25	290	86	--	70	27	87	40	2.2
MAR 26...	K12	430	320	--	170	73	33	100	40	2.4
JUN 02...	K6500	K1900	170	--	37	42	15	27	26	.9
JUL 23...	170	320	310	--	110	73	30	74	34	1.8
AUG 25...	--	--	300	--	120	67	31	84	38	2.3
SEP 23...	220	840	280	--	110	69	26	65	33	1.8

K Results based on colony count outside the acceptable range (non-ideal colony count).

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	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 17...	3.0	200	190	40	.3	9.4	605	549	.82	1180
NOV 19...	2.2	210	170	38	.4	13	556	522	.76	510
JAN 23...	1.5	200	220	43	.5	12	561	582	.76	651
MAR 26...	2.0	150	340	43	.3	12	684	694	.93	663
JUN 02...	2.2	130	95	9.6	.2	11	301	282	.41	1170
JUL 23...	2.5	200	220	34	.3	14	583	569	.79	398
AUG 25...	2.8	180	240	42	.4	12	--	588	.80	332
SEP 23...	2.1	170	180	33	.4	13	500	491	.68	377

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	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)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)
OCT 17...	.000	.260	.00	.33	1.4	.51	1.40	.63	.77	1.6	--	--
NOV 19...	.020	.040	.02	.05	.41	.26	.43	.13	.30	.43	--	--
JAN 23...	.060	.060	--	.08	.51	.35	.57	.16	.41	.62	--	--
MAR 26...	.040	.060	--	.08	.92	.87	.96	.03	.93	.96	--	--
JUN 02...	.360	.060	--	.08	1.0	.55	1.40	.79	.61	1.8	--	--
JUL 23...	.090	.070	--	.09	1.7	.62	1.80	1.1	.69	1.9	--	--
AUG 25...	--	.100	--	.13	--	.90	--	--	1.0	--	.00	.00
SEP 23...	.150	.150	--	.19	1.2	.50	1.30	.65	.65	1.4	--	--

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (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)	POTASSIUM 40 DISSOLVED (PCI/L AS K40)
OCT 17...	--	--	.24	.27	7.3	.390	1.2	.090	--	--	--
NOV 19...	--	--	.00	.00	1.9	.120	.37	.010	--	--	--
JAN 23...	--	--	.05	.04	2.7	.070	.21	.030	--	--	1.1
MAR 26...	--	--	.00	.00	4.3	.210	.64	.020	--	--	1.5
JUN 02...	--	--	.38	.26	7.9	.070	.21	.080	--	--	1.6
JUL 23...	--	--	.10	.12	8.4	.040	.12	.010	--	--	1.9
AUG 25...	.010	.03	--	.01	--	--	--	.020	.000	.00	--
SEP 23...	--	--	.12	.12	6.3	.160	.49	.010	--	--	--

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)
OCT 17...	1000	21000	--	--	2	0	2	--	1200	1100	100	--
JAN 23...	1000	80	--	--	1	0	2	--	100	30	70	--
MAR 26...	1100	620	--	--	2	2	1	--	100	30	70	--
JUN 02...	1030	1800	--	--	5	--	2	--	400	300	100	--
AUG 25...	1130	2500	2500	20	2	0	3	6	--	--	--	90
SEP 23...	0930	--	--	--	4	2	2	--	200	100	81	--

DATE	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)
OCT 17...	10	--	--	70	1	1	0	--	100	90	10	--
JAN 23...	0	--	--	--	0	--	<1	--	0	0	0	--
MAR 26...	0	--	--	--	0	0	1	--	20	10	10	--
JUN 02...	0	--	--	--	1	1	0	--	30	20	10	--
AUG 25...	0	<1	<1	140	0	--	<1	1	0	0	10	5
SEP 23...	--	--	--	--	1	--	<1	--	10	10	0	--

DATE	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	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)
OCT 17...	38	38	0	--	160	160	5	--	78000	78000	30	--
JAN 23...	1	--	<3	--	7	6	1	--	2100	--	<10	--
MAR 26...	1	--	<3	--	17	14	3	--	5700	5700	20	--
JUN 02...	8	6	2	--	36	34	2	--	26000	26000	70	--
AUG 25...	--	--	--	10	14	7	7	7	4000	--	<10	4700
SEP 23...	4	--	<3	--	19	16	3	--	8400	8400	11	--

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	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)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
OCT 17...	96	94	2	--	140	--	--	2300	2300	10	--	.2
JAN 23...	21	21	0	--	0	--	--	50	--	<1	--	.0
MAR 26...	4	0	5	--	30	--	--	150	150	4	--	.1
JUN 02...	23	23	0	--	--	--	--	690	690	0	--	.3
AUG 25...	5	5	0	10	30	4	26	110	110	5	260	.0
SEP 23...	9	7	2	--	--	--	--	190	190	4	--	.1

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)
OCT 17...	.2	.0	--	4	--	--	96	94	2	--	3
JAN 23...	.0	.0	--	4	--	--	6	6	0	--	2
MAR 26...	.1	.0	--	4	--	--	7	5	2	--	2
JUN 02...	.3	.0	--	4	--	--	28	26	2	--	2
AUG 25...	.0	.0	.01	4	<10	<1	5	0	5	10	1
SEP 23...	.0	.2	--	--	--	--	16	16	0	--	1

DATE	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
OCT 17...	2	1	--	1	1	0	--	480	460	20	--
JAN 23...	0	2	--	0	0	0	--	20	--	<3	--
MAR 26...	0	2	--	0	0	0	--	50	40	7	--
JUN 02...	2	0	--	1	1	0	--	120	110	10	--
AUG 25...	0	1	0	--	--	--	1.0	100	--	<3	17
SEP 23...	0	1	--	0	0	0	--	130	100	29	--

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT 17...	1000	--	6.9	>4.0	--	--	--
NOV 19...	1130	7.9	--	--	--	--	--
JAN 23...	1000	--	12	.4	--	--	--
MAR 26...	1100	--	13	.5	--	--	--
JUN 02...	1030	--	8.3	--	--	--	--
JUL 23...	1030	8.3	--	--	.00	--	--
AUG 25...	1130	--	9.2	--	.00	15	.00
SEP 23...	0930	--	5.4	1.9	--	--	--

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UTAH--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	OCT 17,80		NOV 19,80		MAR 26,81		JUN 2,81		JUL 23,81		SEP 23,81	
TIME	1000		1130		1100		1030		1030		0930	
TOTAL CELLS/ML	7600		790		7000		5700		1700		3900	
DIVERSITY: DIVISION	0.9		0.5		0.6		1.1		0.0		0.9	
.CLASS	0.9		0.5		0.6		1.1		0.0		0.9	
..ORDER	1.4		0.7		0.7		1.5		0.4		1.6	
...FAMILY	2.5		2.9		3.0		3.4		1.8		2.5	
....GENUS	2.6		3.2		3.2		3.7		1.8		2.6	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...OOCYSTACEAE												
....ANKISTRODESMUS	--	-	--	-	--	-	--	-	--	-	400	10
...SCENEDESMACEAE												
....ACTINASTRUM	--	-	--	-	--	-	140	2	--	-	--	-
....SCENEDESMUS	--	-	--	-	250	4	140	2	--	-	270	7
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	--	-	14	2	370	5	35	1	--	-	66	2
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	960	13	28	4	62	1	280	5	140	8	860a	22
....MELOSIRA	--	-	--	-	--	-	170	3	--	-	--	-
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	410	5	14	2	62	1	--	-	--	-	33	1
....COCCONEIS	--	-	55	7	--	-	70	1	--	-	--	-
....RHOICOSPHENIA	280	4	14	2	250	4	350	6	--	-	--	-
...CYMBELLACEAE												
....CYMBELLA	--	-	41	5	560	8	380	7	--	-	66	2
....EPITHEMIA	550	7	28	4	310	4	--	-	--	-	100	3
....RHOPALODIA	--	-	--	-	--	-	70	1	--	-	--	-
...DIATOMACEAE												
....DIATOMA	280	4	110	14	690	10	380	7	70	4	33	1
...FRAGILARIACEAE												
....FRAGILARIA	--	-	--	-	--	-	210	4	--	-	--	-
....SYNEDRA	--	-	28	4	370	5	--	-	140	8	33	1
...GOMPHONEMATACEAE												
....GOMPHONEMA	140	2	28	4	440	6	70	1	--	-	--	-
...NAVICULACEAE												
....NAVICULA	410	5	180a	23	2200a	31	1000a	18	280a	16	330	8
...NITZSCHIACEAE												
....HANTZSCHIA	--	-	14	2	--	-	35	1	--	-	--	-
....NITZSCHIA	2300a	31	180a	23	1200a	17	660	12	1000a	60	1600a	42
...SURIRELLACEAE												
....SURIRELLA	--	-	--	-	120	2	210	4	70	4	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....ANACYSTIS	--	-	--	-	--	-	--	-	--	-	100	3
..HORMOGONALES												
...NOSTOCACEAE												
....ANABAENA	--	-	--	-	--	-	350	6	--	-	--	-
...OSCILLATORIACEAE												
....LYNGBYA	2200a	29	--	-	--	-	940a	17	--	-	--	-
....OSCILLATORIA	--	-	--	-	--	-	140	2	--	-	--	-
...RIVULARIACEAE												
....RAPHIDIOPSIS	--	-	55	7	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....TRACHELOMONAS	--	-	--	-	--	-	35	1	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)												
.DINOPHYCEAE												
..GYMNODINIALES												
...GYMNODINIACEAE												
....GYMNODINIUM	--	-	--	-	120	2	--	-	--	-	--	-

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organism, may not have been counted: Less than 1/2 percent.

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	861	841	849	886	856	869	887	867	875	849	819	834
2	852	832	846	895	875	884	877	847	869	860	810	835
3	862	842	850	905	875	884	836	806	825	851	831	840
4	863	843	857	885	865	879	825	805	816	862	842	855
5	874	854	860	874	864	871	814	794	809	854	824	841
6	874	844	858	884	864	873	813	793	803	865	815	839
7	885	855	869	884	864	876	823	803	808	876	816	844
8	895	865	878	883	863	876	812	802	805	877	837	857
9	924	904	913	883	863	873	811	801	807	879	859	872
10	934	904	922	882	862	872	950	430	700	880	860	872
11	933	903	917	882	862	875	439	429	432	891	871	879
12	923	913	921	1110	862	929	439	429	437	962	892	916
13	933	913	921	881	861	871	438	428	435	964	954	962
14	932	912	921	881	861	871	457	427	445	995	935	970
15	932	752	837	880	860	872	466	446	454	1020	956	991
16	1020	842	913	889	859	868	465	445	457	1010	947	987
17	1080	871	929	889	859	877	455	445	448	989	959	970
18	1010	921	958	918	888	899	444	434	440	1010	930	968
19	961	901	924	907	810	858	433	423	431	981	901	940
20	920	890	903	946	886	922	422	402	413	962	872	912
21	920	890	905	985	945	965	411	391	399	924	844	880
22	909	879	892	985	935	965	791	391	650	895	825	856
23	909	889	898	944	874	910	790	770	775	896	846	874
24	899	869	884	863	823	848	799	769	783	927	887	903
25	888	858	872	872	822	848	808	788	799	979	909	938
26	888	858	868	871	841	861	827	797	808	1000	950	976
27	888	858	868	891	851	874	827	797	810	1050	971	1010
28	877	857	870	870	850	860	846	796	816	1010	892	965
29	897	867	879	879	859	866	855	805	830	924	844	892
30	886	846	863	888	858	873	836	806	821	875	855	865
31	876	836	859	---	---	---	847	807	825	913	893	906
MONTH	1080	752	887	1110	810	882	950	391	672	1050	810	905
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	961	881	919	970	880	928	950	910	925	510	470	490
2	949	909	932	980	900	947	980	930	944	500	470	485
3	---	---	---	980	910	950	1020	960	994	490	460	475
4	---	---	---	970	930	949	1040	890	969	510	470	485
5	---	---	---	960	930	945	1040	980	1020	590	510	549
6	---	---	---	970	920	945	1110	1020	1080	520	490	503
7	---	---	---	960	930	946	1100	1060	1080	550	510	528
8	---	---	---	960	930	948	1080	1060	1070	540	510	525
9	---	---	---	960	920	934	1070	1040	1060	560	520	545
10	---	---	---	950	920	933	---	---	---	570	550	560
11	---	---	---	950	920	934	---	---	---	600	570	591
12	---	---	---	980	940	953	---	---	---	630	600	613
13	---	---	---	1020	920	976	---	---	---	650	620	633
14	---	---	---	1050	1020	1030	---	---	---	660	640	650
15	---	---	---	1040	1020	1030	---	---	---	680	660	669
16	---	---	---	1020	1000	1010	---	---	---	700	670	682
17	860	790	810	1010	980	991	---	---	---	720	700	711
18	840	790	805	990	970	979	---	---	---	750	730	740
19	830	780	795	970	910	939	---	---	---	730	710	725
20	840	780	813	900	820	858	---	---	---	760	720	739
21	850	810	835	820	790	814	---	---	---	770	750	763
22	880	840	862	820	750	791	---	---	---	770	760	769
23	920	850	886	750	670	700	---	---	---	790	760	783
24	930	880	898	720	680	703	---	---	---	780	740	763
25	960	880	912	750	720	736	---	---	---	750	710	730
26	980	870	908	1000	750	875	---	---	---	720	710	716
27	980	870	910	870	790	857	---	---	---	720	700	711
28	960	880	916	910	850	876	---	---	---	710	630	694
29	---	---	---	910	850	874	---	---	---	690	650	676
30	---	---	---	1020	880	965	490	460	472	670	570	622
31	---	---	---	1000	930	972	---	---	---	590	510	555
MONTH	---	---	---	1050	670	913	---	---	---	790	460	635

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	500	480	487	900	870	879	880	860	875	1260	870	1000
2	490	470	480	890	840	861	890	870	878	1100	1020	1050
3	480	450	466	990	800	850	890	860	874	1070	1020	1040
4	460	440	451	880	820	845	880	850	859	1110	1050	1080
5	450	430	443	880	840	861	890	860	872	1100	920	1030
6	450	410	433	920	870	895	910	880	894	920	820	850
7	440	410	427	870	810	834	940	900	923	920	880	901
8	430	400	419	800	780	790	960	920	940	940	920	926
9	430	400	414	810	770	791	980	930	954	930	850	887
10	400	360	390	940	780	810	960	950	951	860	820	837
11	380	340	364	840	810	824	990	950	968	840	810	827
12	380	340	360	840	810	822	1010	970	990	880	800	820
13	390	340	371	910	820	853	1030	990	1010	860	820	840
14	430	380	401	1000	830	912	1020	840	973	---	---	---
15	450	430	438	880	800	812	1300	960	1030	---	---	---
16	500	450	480	850	790	817	970	860	939	---	---	---
17	550	490	525	820	770	794	1320	950	1060	---	---	---
18	590	550	570	820	780	798	1070	950	1020	---	---	---
19	650	590	620	820	740	782	1190	980	1040	---	---	---
20	690	640	664	840	790	814	980	920	943	---	---	---
21	720	690	702	880	820	851	920	880	903	---	---	---
22	760	710	743	870	840	853	920	890	903	---	---	---
23	790	740	761	920	840	875	920	890	904	---	---	---
24	850	770	804	850	800	829	920	880	897	---	---	---
25	880	760	820	980	820	846	980	800	890	---	---	---
26	890	780	835	1310	820	950	980	900	933	---	---	---
27	880	810	840	910	800	863	920	880	902	---	---	---
28	870	840	860	920	810	863	920	890	902	---	---	---
29	900	840	870	910	810	852	920	900	906	---	---	---
30	930	870	890	870	830	851	1310	780	937	---	---	---
31	---	---	---	880	860	872	970	870	922	---	---	---
MONTH	930	340	578	1310	740	844	1320	780	935	---	---	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19.0	14.0	16.5	7.5	4.5	6.0	.5	.0	.5	1.0	.0	.5
2	19.0	14.0	16.5	7.5	5.0	6.0	1.0	.5	.5	1.0	.0	.5
3	19.0	14.0	16.5	7.0	5.0	6.0	1.0	.0	.5	.5	.0	.5
4	18.5	13.0	16.0	8.0	5.0	6.5	.5	.0	.5	1.0	.0	.5
5	18.5	13.0	16.0	8.5	5.5	7.0	2.0	.0	1.0	2.0	.0	1.0
6	18.5	13.0	16.0	7.5	5.5	6.5	3.5	2.0	2.5	1.5	.0	.5
7	18.5	13.0	15.5	8.5	5.5	7.0	3.0	2.0	2.5	1.0	.0	.5
8	18.0	13.0	15.5	9.5	6.5	8.0	2.5	1.0	1.5	.5	.0	.0
9	18.0	12.5	15.5	9.0	6.5	8.0	2.0	.5	1.0	.5	.0	.0
10	17.5	12.5	15.0	8.5	5.5	7.0	1.0	.5	1.0	.5	.0	.0
11	16.5	11.5	14.0	7.5	5.5	6.5	1.0	1.0	1.0	.5	.0	.0
12	13.5	12.0	12.5	8.0	5.5	6.5	1.0	1.0	1.0	.5	.0	.5
13	16.0	11.5	13.5	7.0	5.5	6.5	1.0	1.0	1.0	.5	.0	.0
14	14.5	12.5	13.5	7.0	5.0	5.5	1.0	.5	1.0	.5	.0	.5
15	12.5	9.5	11.0	5.0	2.5	4.0	1.0	.5	.5	.5	.0	.0
16	10.5	9.0	9.5	3.0	1.0	2.0	1.0	.5	.5	.5	.0	.0
17	9.5	8.0	9.0	1.5	.0	.5	1.0	.5	1.0	.5	.0	.0
18	9.5	7.0	8.0	.5	.0	.0	1.0	.5	1.0	.5	.0	.0
19	11.0	7.5	9.0	.5	.0	.0	1.0	.5	.5	.5	.0	.0
20	11.0	8.0	9.5	.5	.0	.5	1.0	.5	.5	.0	.0	.0
21	10.5	7.5	9.0	.5	.0	.5	.5	.0	.5	.5	.0	.0
22	10.5	8.0	9.0	.5	.0	.0	.5	.0	.0	.5	.0	.0
23	9.0	6.5	7.5	.5	.0	.0	.5	.0	.0	.5	.0	.0
24	8.5	5.5	7.0	.5	.0	.5	.5	.0	.0	.5	.0	.0
25	8.0	5.0	6.5	.5	.0	.0	.5	.0	.0	.5	.0	.0
26	6.5	6.0	6.0	.5	.0	.0	.5	.0	.5	.5	.0	.0
27	7.5	5.0	6.0	1.0	.0	.5	1.0	.0	.5	.5	.0	.0
28	7.5	4.5	5.5	.5	.0	.5	2.5	.5	1.5	.5	.0	.0
29	7.0	4.0	5.5	.5	.0	.5	2.5	.0	1.5	.5	.0	.5
30	7.0	4.0	5.5	.5	.0	.5	2.0	.0	1.0	.5	.0	.5
31	7.0	4.0	5.5	---	---	---	1.5	.0	.5	.5	.0	.5
MONTH	19.0	4.0	11.0	9.5	.0	3.5	3.5	.0	1.0	2.0	.0	.0

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.5	.0	.5	7.0	3.5	5.5	10.0	6.5	8.0	21.0	17.5	19.0
2	.5	.0	.5	5.5	4.5	5.0	11.5	6.5	9.0	19.5	17.5	19.0
3	.5	.5	.5	7.5	3.5	5.5	9.0	6.0	7.5	17.5	13.5	15.5
4	.5	.5	.5	9.0	4.5	6.5	9.0	5.0	7.0	16.0	12.5	14.0
5	.5	.5	.5	8.5	5.0	6.5	11.0	5.5	8.0	16.0	13.5	14.5
6	.5	.5	.5	7.0	5.0	6.0	12.5	7.5	10.0	15.0	13.0	14.0
7	.5	.5	.5	9.5	5.0	7.0	11.5	9.0	10.5	14.5	11.5	13.0
8	.5	.5	.5	10.0	5.0	7.5	13.0	7.5	10.0	13.0	11.5	12.0
9	1.5	.5	1.0	9.5	5.0	7.5	13.0	8.5	9.5	15.5	11.0	13.0
10	1.0	.5	.5	10.5	6.0	8.0	---	---	---	17.0	12.5	14.5
11	.5	.5	.5	7.5	5.5	6.5	---	---	---	16.0	13.0	14.5
12	1.0	.5	.5	9.0	5.0	7.0	---	---	---	16.0	12.5	14.0
13	2.0	.5	1.0	9.0	5.5	7.0	---	---	---	17.5	12.0	15.0
14	2.0	.5	1.0	10.5	5.5	7.5	---	---	---	19.0	14.0	16.5
15	3.5	1.5	2.5	10.5	5.0	8.0	---	---	---	17.0	15.5	16.0
16	4.5	1.5	2.5	9.0	6.5	8.0	---	---	---	17.0	14.5	15.5
17	4.0	2.0	2.5	10.0	5.0	7.0	---	---	---	16.5	13.0	15.0
18	4.0	1.5	2.5	10.5	5.5	8.0	---	---	---	20.0	14.0	17.0
19	3.0	1.5	2.0	10.0	6.5	8.0	---	---	---	19.5	16.0	18.0
20	2.5	1.0	2.0	9.5	7.0	8.0	---	---	---	17.0	13.5	15.0
21	3.5	.0	1.5	9.5	6.0	7.5	---	---	---	14.5	12.5	13.5
22	4.0	.0	2.0	11.5	6.0	8.5	---	---	---	17.0	12.0	14.5
23	4.5	1.0	2.5	12.5	7.0	10.0	---	---	---	19.0	13.0	16.0
24	5.5	1.5	3.5	14.0	9.0	11.5	---	---	---	20.0	15.0	17.5
25	6.0	2.0	4.0	12.5	8.5	10.5	---	---	---	20.0	16.0	18.0
26	5.0	3.0	4.0	12.0	8.0	10.0	---	---	---	21.0	18.0	19.0
27	6.0	2.0	4.0	9.5	6.5	8.0	---	---	---	21.5	18.5	19.5
28	6.5	2.5	4.5	8.5	6.5	7.0	---	---	---	21.5	18.0	19.5
29	---	---	---	11.0	5.0	8.0	---	---	---	21.5	16.0	19.5
30	---	---	---	9.5	5.5	8.0	19.5	18.5	19.0	22.0	19.5	20.5
31	---	---	---	9.5	4.0	7.0	---	---	---	21.0	19.0	20.0
MONTH	6.5	.0	1.5	14.0	3.5	7.5	---	---	---	22.0	11.0	16.0
		JUNE			JULY			AUGUST			SEPTEMBER	
1	20.5	17.5	19.0	25.0	22.0	23.0	27.5	21.5	24.5	23.0	18.5	20.5
2	20.5	18.0	19.0	25.0	20.5	22.5	28.5	21.0	24.5	22.5	18.0	20.0
3	20.0	17.0	18.5	26.5	20.5	23.5	28.5	21.5	25.0	23.5	17.5	20.0
4	21.0	17.5	19.5	28.0	21.0	24.5	28.5	20.5	24.5	24.5	19.0	21.5
5	21.5	18.5	20.0	28.5	22.5	25.5	29.0	20.0	24.5	20.0	17.0	18.5
6	21.0	19.0	20.5	27.5	23.0	25.0	29.5	20.0	25.0	18.5	16.0	17.0
7	21.5	19.5	20.5	27.5	22.5	25.0	30.0	20.5	25.0	21.0	17.5	19.0
8	21.5	19.5	20.5	28.5	22.0	25.0	28.5	20.5	24.5	23.5	17.0	20.0
9	21.5	19.5	20.5	27.5	23.0	24.5	29.0	19.5	23.5	23.0	18.5	20.5
10	22.0	20.0	21.0	27.5	21.5	24.5	21.5	18.5	20.0	20.5	18.0	19.5
11	22.5	20.0	21.5	27.5	22.0	25.0	20.5	17.5	19.0	22.5	17.0	19.5
12	22.0	20.0	21.0	26.5	23.0	24.5	25.5	17.5	21.5	22.0	18.0	20.0
13	20.5	18.5	19.0	27.5	22.0	24.5	25.0	18.5	22.0	22.0	18.5	20.0
14	18.0	16.0	17.0	27.0	22.5	24.5	25.5	18.0	22.0	---	---	---
15	19.0	15.0	17.0	27.0	21.5	24.5	25.0	20.0	22.0	---	---	---
16	20.5	16.5	18.0	24.5	22.0	23.0	25.0	19.0	22.0	---	---	---
17	20.5	17.0	18.5	27.0	20.5	23.5	25.5	20.0	22.5	---	---	---
18	22.0	17.0	19.0	27.0	22.0	24.0	25.5	19.0	22.0	---	---	---
19	23.5	18.5	21.0	27.0	21.0	24.0	25.5	19.5	22.5	---	---	---
20	24.0	19.0	21.5	27.5	21.0	24.0	27.0	19.5	23.0	---	---	---
21	24.0	20.0	21.5	27.0	21.0	24.0	23.0	19.0	21.0	---	---	---
22	26.5	19.0	23.0	27.0	21.0	23.5	25.0	17.0	21.0	---	---	---
23	27.0	22.0	24.5	26.0	20.0	22.5	26.0	19.0	22.0	---	---	---
24	28.5	21.0	24.5	24.5	20.0	22.0	24.5	19.0	22.0	---	---	---
25	30.0	22.0	26.0	26.5	19.5	22.5	27.5	19.0	23.0	---	---	---
26	34.5	23.5	27.5	24.0	20.0	21.5	27.0	20.0	23.5	---	---	---
27	31.5	20.0	25.5	25.0	18.5	21.5	28.0	20.5	24.0	---	---	---
28	29.0	18.0	23.5	24.0	20.0	22.5	27.5	19.5	23.5	---	---	---
29	33.0	19.0	24.5	25.5	19.5	22.5	27.0	20.5	23.5	---	---	---
30	27.5	17.5	23.5	26.0	20.5	23.5	24.0	20.0	21.5	---	---	---
31	---	---	---	28.0	21.0	24.5	24.0	18.0	21.0	---	---	---
MONTH	34.5	15.0	21.0	28.5	18.5	23.5	30.0	17.0	23.0	---	---	---

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	235	227	295	374	475	523	445	443	850	936	410	422
2	243	232	285	366	525	624	458	448	760	745	380	376
3	212	197	312	398	475	605	515	535	700	576	370	359
4	200	179	302	378	450	532	543	605	660	535	360	348
5	216	185	308	383	425	467	520	585	750	547	350	338
6	216	178	320	398	425	453	523	561	850	688	344	324
7	226	181	335	415	405	435	505	528	950	872	343	320
8	212	167	318	392	400	418	495	486	850	803	330	305
9	206	161	308	369	385	394	500	452	800	799	315	313
10	211	164	303	366	375	363	539	486	750	693	300	289
11	208	161	298	356	450	412	700	658	700	707	288	276
12	220	170	270	316	425	441	975	871	680	624	272	256
13	219	178	290	342	475	423	1450	1290	750	547	267	247
14	420	365	290	344	525	539	1750	1560	850	688	267	244
15	8320	11900	298	385	475	526	1280	1180	750	709	257	237
16	5700	11800	250	335	550	564	1250	1180	700	756	249	224
17	5700	11300	225	260	575	621	1290	1220	670	868	258	237
18	6700	10700	250	229	600	697	1140	1110	670	886	248	227
19	3230	5350	250	254	600	697	1100	1240	630	799	273	262
20	1620	2810	260	268	575	668	1080	1270	645	771	319	322
21	1050	1690	275	272	550	639	1140	1320	628	732	290	284
22	590	945	325	332	525	595	1150	1450	617	675	295	283
23	385	591	375	438	575	652	1200	1390	618	702	328	318
24	390	570	350	433	600	648	1220	1320	595	633	451	437
25	408	588	330	364	575	637	1240	1340	582	614	473	455
26	415	577	320	336	550	624	1180	1290	575	619	517	519
27	400	530	375	388	525	595	1330	1510	560	643	828	914
28	495	666	350	385	500	553	1050	1080	450	492	692	706
29	459	638	330	358	472	503	910	909	---	---	732	796
30	450	599	400	369	442	465	975	1080	---	---	773	925
31	343	440	---	---	445	463	925	974	---	---	702	809
TOTAL	---	64439	---	10603	---	16776	---	30371	---	19659	---	12372
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	772	882	1730	4110	2810	9030	1210	1480	645	442	16700	18000
2	779	890	1820	4620	3090	11200	528	542	477	317	22800	16500
3	640	788	4030	11500	2800	9980	666	586	438	281	20600	14000
4	620	860	5760	15900	2420	8950	693	728	368	194	6000	3610
5	601	776	7680	26500	2750	11000	556	686	301	131	5400	3210
6	2220	2820	5010	13500	2570	9920	1030	1230	255	94	20600	21600
7	1280	1460	2360	5980	2310	8730	473	497	256	89	12100	9700
8	582	662	1680	4220	2080	8480	317	271	227	69	6000	4290
9	648	758	1240	2880	2330	10800	273	203	217	62	3770	2940
10	606	710	934	1880	2750	12600	5340	4120	208	59	4530	3890
11	540	582	948	1780	2760	12000	473	285	180	42	4290	3430
12	514	545	924	1510	2550	10700	270	165	220	58	5300	4770
13	644	821	690	1080	2040	7380	1870	1760	223	61	21800	27700
14	845	1170	648	1020	1650	4900	7320	7950	2830	1230	31200	25900
15	715	956	614	904	1400	3460	5780	6620	3910	2710	4060	3470
16	627	855	506	657	1440	3070	1300	1320	4120	2970	3370	2680
17	621	897	456	552	1060	1930	570	452	14200	12000	2110	1620
18	663	1010	422	510	665	1030	430	317	6600	4810	1020	785
19	1000	1650	512	691	637	834	895	710	5780	4060	760	552
20	1200	2120	599	873	518	566	590	489	1300	832	572	412
21	1370	2640	537	623	471	497	1180	1090	693	395	462	344
22	2200	5000	568	644	434	393	675	529	528	297	517	401
23	1420	2690	770	1000	448	337	705	482	440	253	473	361
24	1000	1840	848	1130	441	324	380	231	440	267	550	432
25	757	1240	985	1380	414	291	1060	664	347	196	858	697
26	786	1310	1330	1870	404	284	13800	12800	585	294	2610	2300
27	1250	2440	1610	2370	398	279	8500	7320	321	137	1520	1150
28	2110	4930	1810	3200	419	294	9500	11500	290	136	924	674
29	2550	6160	2830	6540	2720	1910	9200	8420	227	99	616	436
30	2490	5800	3030	9160	2440	2240	5600	4430	6600	3460	495	341
31	---	---	3090	10600	---	---	1200	820	3900	3000	---	---
TOTAL	---	55262	---	139184	---	153409	---	78697	---	39045	---	176195

TOTAL LOAD FOR YEAR: 796012 TONS.

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM
OCT							
17...	1000	720	9.0	44	374	727	--
NOV							
14...	1145	442	6.0	--	254	303	24
19...	1130	340	.5	90	6400	5880	--
JAN							
23...	1000	430	.5	41	189	219	--
30...	1445	432	.0	--	971	1130	16
FEB							
17...	1545	494	3.5	--	664	886	24
MAR							
26...	1100	359	10.5	58	625	606	--
APR							
09...	1230	414	16.5	--	470	525	31
MAY							
06...	1530	1010	15.0	--	3990	10900	31
29...	1330	862	18.5	--	2520	5870	32
JUN							
02...	1030	1440	19.0	92	1780	6920	--
30...	1500	313	24.5	--	1900	1610	54
JUL							
15...	1330	475	24.0	--	3440	4410	47
23...	1030	253	23.0	96	825	564	--
SEP							
01...	0900	391	18.5	--	12500	13200	52
15...	1500	366	22.0	--	4210	4160	46
23...	0930	279	18.0	89	543	409	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
OCT						
17...	--	--	--	--	--	--
NOV						
14...	27	41	61	73	96	100
19...	--	--	--	--	--	--
JAN						
23...	--	--	--	--	--	--
30...	17	32	63	77	98	100
FEB						
17...	28	41	75	84	98	100
MAR						
26...	--	--	--	--	--	--
APR						
09...	41	53	75	88	100	--
MAY						
06...	39	59	83	92	98	100
29...	37	48	78	92	99	100
JUN						
02...	--	--	--	--	--	--
30...	75	87	95	98	100	--
JUL						
15...	64	90	96	98	100	--
23...	--	--	--	--	--	--
SEP						
01...	69	95	98	99	100	--
15...	60	91	98	99	100	--
23...	--	--	--	--	--	--

09307200 PARIETTE DRAW NEAR OURAY, UTAH

LOCATION.--Lat 40°04'58", long 109°52'22", in SW¼SE¼SE¼ sec.27, T.8 S., R.18 E., Uintah County, Hydrologic Unit 14060005, on right bank, 1.2 mi (1.9 km) upstream from Castle Peak Draw and 10.5 mi (16.9 km) west of Ouray.

DRAINAGE AREA.--153 mi^2 (396 km^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 (1,460 m), from topographic map.

REMARKS.--Records good except those for winter months, which are poor. Some small diversions above station for irrigation.

AVERAGE DISCHARGE.--6 years, 24.9 ft^3/s (0.704 m^3/s), 18,040 acre-ft/yr (22.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 626 ft^3/s (17.7 m^3/s) Sept. 10, 1980, gage height, 9.76 ft (2.975 m); minimum daily, 3.0 ft^3/s (0.08 m^3/s) Feb. 6, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 179 ft^3/s (5.07 m^3/s) Oct. 15, gage height, 5.84 ft (1.780 m); minimum daily, 5.0 ft^3/s (0.14 m^3/s) Feb. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	55	18	13	11	23	48	22	39	15	21	35
2	45	55	17	13	9.0	21	45	29	36	15	19	50
3	40	54	17	13	6.0	22	43	40	46	18	17	63
4	46	54	18	12	10	23	46	46	54	18	18	52
5	49	58	18	13	12	23	40	39	45	21	18	74
6	48	58	18	10	15	21	40	34	46	16	19	88
7	31	58	18	10	13	20	37	31	42	16	19	95
8	31	55	17	10	10	19	30	27	37	13	26	99
9	37	55	17	10	11	17	40	35	39	20	27	87
10	55	52	16	10	10	16	39	34	39	43	24	85
11	57	46	15	10	9.0	17	30	24	36	30	23	78
12	55	50	14	10	5.0	17	22	18	34	31	27	72
13	65	54	13	10	8.0	17	13	20	35	32	24	66
14	71	59	12	9.0	9.0	18	12	24	27	29	27	55
15	99	64	11	9.0	11	24	14	28	23	25	31	68
16	99	62	11	9.0	13	25	15	48	23	22	25	63
17	44	59	11	9.0	17	27	11	42	24	21	25	50
18	40	59	11	9.0	21	29	16	36	22	33	26	37
19	43	65	11	10	23	25	14	31	26	34	23	45
20	40	48	11	10	27	24	20	27	26	25	21	66
21	42	22	11	10	23	27	21	30	22	23	36	70
22	49	20	11	10	25	27	22	31	22	20	34	70
23	54	19	11	10	25	26	21	25	22	20	35	75
24	52	22	13	10	24	25	13	28	25	24	32	101
25	48	21	14	10	24	26	13	29	17	30	35	107
26	50	19	13	10	25	38	15	27	17	28	31	96
27	50	19	13	9.0	25	48	16	39	14	32	25	60
28	49	18	14	10	22	54	17	36	14	33	26	47
29	50	18	14	11	---	46	14	31	20	26	34	34
30	56	18	13	12	---	45	16	34	16	22	39	39
31	55	---	13	13	---	48	---	37	---	21	36	---
TOTAL	1600	1316	434	324.0	443.0	838	743	982	888	756	823	2027
MEAN	51.6	43.9	14.0	10.5	15.8	27.0	24.8	31.7	29.6	24.4	26.5	67.6
MAX	99	65	18	13	27	54	48	48	54	43	39	107
MIN	31	18	11	9.0	5.0	16	11	18	14	13	17	34
AC-FT	3170	2610	861	643	879	1660	1470	1950	1760	1500	1630	4020

CAL YR 1980 TOTAL 10016.5 MEAN 27.4 MAX 335 MIN 6.5 AC-FT 19870
WTR YR 1981 TOTAL 11174.0 MEAN 30.6 MAX 107 MIN 5.0 AC-FT 22160

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, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT 21...	1220	43	2800	8.1	11.5	8.0	--	680	380
DEC 03...	1240	17	4000	8.2	8.0	2.5	--	910	590
JAN 21...	1200	10	4480	8.1	4.5	.0	--	1000	680
MAR 11...	1130	17	3170	8.4	8.0	4.0	--	750	--
MAY 07...	1330	31	2500	8.1	14.0	12.5	--	580	--
JUN 03...	1230	46	2790	8.1	23.0	16.5	2.7	600	--
JUL 09...	1320	16	3340	8.0	31.0	24.5	--	600	--
AUG 12...	1700	28	3100	8.1	25.5	22.0	--	670	--
SEP 17...	1320	51	2260	8.0	22.0	17.0	--	630	--

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 21...	--	150	75	440	58	7.3	3.6	--	1200
DEC 03...	--	200	100	670	61	9.7	5.5	320	1800
JAN 21...	--	220	110	740	62	10	2.7	320	2000
MAR 11...	--	160	84	470	58	7.5	2.5	270	1300
MAY 07...	420	130	63	370	58	6.7	2.5	160	1000
JUN 03...	360	120	72	410	60	7.3	5.2	240	1100
JUL 09...	370	98	87	640	70	11	2.6	230	1500
AUG 12...	400	120	89	410	57	6.9	3.5	270	1200
SEP 17...	360	140	67	330	53	5.7	3.1	270	910

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, 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)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)
OCT 21...	85	.6	15	--	2160	2.9	250	--
DEC 03...	140	.7	17	--	3140	4.3	147	--
JAN 21...	96	.7	17	--	3410	4.6	93.0	--
MAR 11...	95	.5	10	--	2300	3.1	107	--
MAY 07...	86	.5	11	--	1760	2.4	145	--
JUN 03...	84	.5	12	2130	1960	2.9	265	38
JUL 09...	92	.6	14	--	2580	3.5	109	--
AUG 12...	56	.6	16	--	2070	2.8	159	--
SEP 17...	65	.5	14	--	1700	2.3	235	--

09307200 PARIETTE DRAW NEAR OURAY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT 21...	2.0	.030	--
DEC 03...	2.8	.010	--
JAN 21...	6.5	.060	--
MAR 11...	3.5	.020	1.9
MAY 07...	.01	.060	1.9
JUN 03...	1.5	.040	3.9
JUL 09...	2.0	.020	1.9
AUG 12...	1.7	<.010	--
SEP 17...	1.1	.010	--

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
DEC 03...	1240	1400
JAN 21...	1200	1500
MAR 11...	1130	1000
MAY 07...	1330	820
JUN 03...	1230	940
JUL 09...	1320	1200
AUG 12...	1700	1100
SEP 17...	1320	1000

DATE	TIME	PHENOLS (UG/L)
OCT 21...	1220	3

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
OCT 21...	1220	43	8.0	770	89	--	--	--	--	--	--	--
DEC 03...	1240	17	2.5	98	4.6	--	--	--	--	--	--	--
JAN 21...	1200	10	.0	62	1.7	--	--	--	--	--	--	--
MAR 11...	1130	17	4.0	89	4.2	--	--	--	--	--	--	--
MAY 07...	1330	31	12.5	498	41	26	37	50	74	90	100	--
JUN 03...	1230	46	16.5	1010	125	13	18	29	57	79	99	100
JUL 09...	1320	16	24.5	421	18	--	--	--	--	--	--	--
AUG 12...	1700	28	22.0	497	38	--	--	--	--	--	--	--
SEP 17...	1320	51	17.0	425	59	18	24	45	65	80	97	100

09307250 PARIETTE DRAW NEAR EIGHTMILE FLAT, NEAR OURAY, UT

WATER-QUALITY RECORDS

LOCATION.--Lat 40°03'10", long 109°49'05", in SE1/4SW1/4SE1/4 sec. 6, T. 9 S., R. 19 E., Uintah County, Hydrologic Unit 14050007, at road crossing, 5.2 mi (8.4 km) upstream from mouth, and 7.1 mi (11.4 km) southwest of Ouray.

PERIOD OF RECORD.--October 1975 to current year.
SEDIMENT DATA: October 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 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)
OCT												
21...	1740	41	3100	8.3	17.0	11.0	680	390	--	150	75	490
DEC												
03...	1710	18	3850	8.2	3.0	4.0	840	540	--	180	94	640
JAN												
21...	1715	11	4470	8.3	5.0	4.5	950	650	--	200	110	750
MAR												
11...	1710	17	3190	8.3	10.0	9.0	700	--	--	140	84	520
MAY												
07...	1555	22	3100	8.3	16.5	16.0	650	--	510	140	72	500
JUN												
03...	1925	40	2550	8.1	23.0	19.0	600	--	360	130	66	390
JUL												
09...	1830	15	3470	8.2	19.0	24.0	540	--	340	80	83	590
AUG												
12...	1555	21	2850	8.3	27.0	22.5	570	--	370	96	80	440
SEP												
17...	1515	49	2110	8.0	24.0	20.5	560	--	320	120	63	300

DATE	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)	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)
OCT												
21...	61	8.2	4.6	290	--	1300	110	.6	13	2330	3.2	259
DEC												
03...	62	9.6	5.7	--	300	1600	130	.7	14	2850	3.9	137
JAN												
21...	63	11	3.0	--	--	2000	110	.7	.3	3390	4.6	96.1
MAR												
11...	62	8.6	2.7	--	250	1400	100	.4	8.7	2410	3.3	111
MAY												
07...	63	8.6	3.4	--	140	1300	110	.5	10	2220	3.0	133
JUN												
03...	59	7.0	2.1	--	240	1000	79	.5	11	1830	2.5	196
JUL												
09...	70	11	3.1	--	200	1500	100	.5	14	2500	3.4	99.9
AUG												
12...	63	8.0	2.8	--	200	1100	96	.5	11	1950	2.7	112
SEP												
17...	54	5.5	3.4	--	240	890	53	.5	12	1590	2.2	212

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT			
21...	1.7	.020	--
DEC			
03...	.00	.000	--
JAN			
21...	4.9	.030	--
MAR			
11...	1.3	.020	2.0
MAY			
07...	.01	.040	2.5
JUN			
03...	.98	.020	1.6
JUL			
09...	.67	.030	2.3
AUG			
12...	.84	.030	--
SEP			
17...	.62	<.010	--

09307250 PARIETTE DRAW NEAR EIGHTMILE FLAT, NEAR MYTON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT 21...	1740	1100
DEC 03...	1710	1400
MAR 11...	1710	1100
MAY 07...	1555	1100
JUN 03...	1925	930
JUL 09...	1830	1200
AUG 12...	1555	1100
SEP 17...	1515	930

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 21...	1740	41	11.0	50	5.6
DEC 03...	1710	18	4.0	13	.62
JAN 21...	1715	11	4.5	6	.18
MAR 11...	1710	17	9.0	16	.73
MAY 07...	1555	22	16.0	40	2.4
JUN 03...	1925	40	19.0	385	41
JUL 09...	1830	15	24.0	540	22
AUG 12...	1555	21	22.5	313	18
SEP 17...	1515	49	20.5	242	32

09307295 LAMBS DIVERSION FROM PARIETTE DRAW, NEAR OURAY, UTAH

LOCATION.--Lat 40°01'45", long 109°45'23", in NW¼NW¼SW¼ sec.14, T.9 S., R.19 E., Uintah County, Hydrologic Unit 14060005, on right bank 80 ft (24 m) downstream from Pariette Draw, and 5.8 mi (9.3 km) southwest of Ouray.

PERIOD OF RECORD.--March 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,650 ft (1,417 m) from topographic map.

REMARKS.--Water discharge records, good.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 18 ft^3/s (0.51 m^3/s) June 6-8 and Sept. 5 and 6, 1981; no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	4.2	1.1	.52	.18	.74	.30	.00	.00	.40	17	.30
2	.20	4.3	1.1	.47	.18	.74	.70	.00	.00	.98	11	.30
3	.20	4.4	1.1	.32	.18	.74	.86	.00	.00	1.0	.57	.30
4	.20	4.6	1.0	.32	.18	.74	.99	.00	.00	1.0	.55	7.4
5	.20	4.7	1.0	.32	.18	.74	1.0	.00	5.5	1.0	.51	18
6	.20	4.7	1.0	.30	.20	.74	1.1	.00	18	1.0	.46	18
7	.20	4.7	1.0	.28	.20	.73	1.1	.00	18	.99	.46	15
8	.20	4.7	1.0	.21	.20	.73	1.3	.00	18	.99	.47	7.2
9	.20	4.8	1.0	.21	.20	.74	.82	.00	17	1.0	.50	7.2
10	.20	4.8	1.0	.21	.20	.74	.83	.00	17	1.1	.47	7.1
11	.20	4.8	1.0	.21	.20	.77	.78	.00	17	1.1	.46	7.0
12	.20	7.6	1.0	.20	.20	.82	.77	.00	17	1.2	.49	7.0
13	.20	8.9	1.0	.20	.20	.87	1.1	.00	17	1.2	.48	6.9
14	.20	1.5	1.0	.20	.20	.88	.77	.00	17	1.2	.42	6.2
15	8.4	1.5	1.0	.20	.20	.88	4.8	.00	17	1.2	.40	5.5
16	15	1.5	1.0	.20	.20	.83	12	.00	12	1.2	.38	3.4
17	15	1.5	1.0	.20	.20	.51	11	.00	.00	1.2	.38	.00
18	15	1.5	1.0	.19	.25	.31	11	.00	.00	1.2	.37	.00
19	15	1.5	1.0	.18	.34	.30	11	.00	.00	1.0	.34	.00
20	15	1.5	1.0	.18	.41	.30	11	.00	.00	1.1	.34	.00
21	8.8	1.2	1.0	.19	.52	.30	9.8	.00	.00	1.2	.34	.00
22	1.6	1.1	1.0	.20	.72	.30	8.8	.00	.00	1.3	.31	.00
23	2.1	1.1	.99	.20	.72	.34	7.1	.00	.00	1.3	.30	.00
24	2.3	1.1	.77	.20	.74	.40	7.1	.00	.00	1.3	.30	.00
25	2.7	1.1	.77	.20	.76	.42	5.8	.00	.00	5.6	.29	.00
26	2.3	1.1	.77	.20	.76	.41	4.2	.00	.00	17	.30	.00
27	2.9	1.1	.77	.18	.76	.35	4.5	.00	.00	17	.30	.00
28	3.1	1.1	.77	.18	.74	.37	4.6	.00	.00	17	.30	.00
29	3.1	1.1	.77	.18	---	.41	3.2	.00	.00	17	.30	.00
30	3.8	1.1	.75	.18	---	.37	.08	.00	.00	17	.30	.00
31	4.2	---	.66	.18	---	.34	---	.00	---	17	.30	---
TOTAL	123.10	88.8	29.32	7.21	10.02	17.86	128.40	.00	190.50	133.76	39.39	116.80
MEAN	3.97	2.96	.95	.23	.36	.58	4.28	.000	6.35	4.31	1.27	3.89
MAX	15	8.9	1.1	.52	.76	.88	12	.00	18	17	17	18
MIN	.20	1.1	.66	.18	.18	.30	.08	.00	.00	.40	.29	.00
AC-FT	244	176	58	14	20	35	255	.00	378	265	78	232

CAL YR 1980 TOTAL 679.22 MEAN 1.86 MAX 17 MIN .00 AC-FT 1350
WTR YR 1981 TOTAL 885.16 MEAN 2.43 MAX 18 MIN .00 AC-FT 1760

09307300 PARIETTE DRAW AT MOUTH, NEAR OURAY, UTAH

LOCATION.--Lat 40°01'48", long 109°45'23", in NW¼NW¼SW¼ sec.14, T.9 S., R.19 E., Uintah County, Hydrologic Unit 14060005, on right bank 120 ft (37 m) downstream from dike for waterfowl habitat area, 0.8 mi (1.3 km) upstream from mouth, and 5.8 mi (9.3 km) southwest of Ouray.

DRAINAGE AREA.--298 mi^2 (772 km^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 (1,417 m) from topographic map.

REMARKS.--Records good. Flow regulated by waterfowl habitat area. Diversions above station for irrigation of about 250 acres (1.0 km^2) above and 100 acres (405,000 m^2) below.

AVERAGE DISCHARGE.--6 years, 20.4 ft^3/s (0.578 m^3/s), 14,780 acre-ft/yr (18.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 450 ft^3/s (12.7 m^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, 120 ft^3/s (3.40 m^3/s) Apr. 1, gage height, 3.09 ft (0.942 m); minimum, 0.77 ft^3/s (0.022 m^3/s) Aug. 2 and 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	61	20	13	9.3	22	79	9.8	26	3.6	1.5	26
2	49	60	20	20	9.3	21	61	12	27	4.0	.91	26
3	46	59	20	15	7.5	22	48	23	28	6.3	1.1	39
4	42	61	28	15	6.3	20	43	44	30	9.2	2.7	43
5	43	61	24	15	12	19	39	34	36	12	4.7	32
6	46	62	21	13	16	19	38	23	26	13	6.3	45
7	49	63	20	11	12	20	36	17	21	11	7.2	58
8	41	63	20	11	9.9	18	36	17	18	8.6	7.6	67
9	35	60	18	10	11	17	33	17	15	7.2	9.9	72
10	34	60	15	10	10	16	32	20	13	12	12	71
11	44	58	13	11	7.5	15	33	23	13	24	14	69
12	56	54	13	9.4	5.2	15	30	20	14	24	14	65
13	60	46	12	8.8	6.5	16	24	16	12	23	15	59
14	66	52	11	7.9	9.3	15	19	14	11	21	15	53
15	76	60	11	8.2	11	16	14	14	7.9	20	16	47
16	78	60	12	8.2	12	19	8.9	17	6.4	18	16	48
17	86	65	12	9.3	15	15	4.7	28	13	16	16	53
18	69	65	12	9.4	23	2.8	1.7	31	17	14	15	47
19	41	60	12	9.1	28	3.5	1.6	29	19	17	15	38
20	32	60	12	8.6	14	9.6	1.4	23	19	20	15	38
21	32	55	12	8.6	1.4	23	1.6	21	18	18	14	50
22	40	40	17	8.9	2.3	26	2.6	21	16	15	18	57
23	45	24	19	8.9	3.0	28	4.6	22	15	12	21	58
24	51	22	15	9.3	6.8	28	7.6	22	10	12	23	61
25	54	20	14	9.9	26	28	8.3	22	5.3	13	30	71
26	54	20	13	9.0	26	31	8.4	23	3.4	7.8	30	83
27	53	20	13	7.5	32	36	7.9	23	2.7	5.5	25	89
28	52	20	14	8.4	26	44	7.0	26	2.7	5.0	21	74
29	51	20	19	10	---	49	5.5	28	2.8	4.9	19	53
30	53	20	18	11	---	52	7.2	26	3.2	3.8	22	38
31	57	---	13	10	---	47	---	26	---	2.3	25	---
TOTAL	1588	1451	493	324.4	358.3	712.9	644.0	691.8	451.4	383.2	452.91	1630
MEAN	51.2	48.4	15.9	10.5	12.8	23.0	21.5	22.3	15.0	12.4	14.6	54.3
MAX	86	65	28	20	32	52	79	44	36	24	30	89
MIN	32	20	11	7.5	1.4	2.8	1.4	9.8	2.7	2.3	.91	26
AC-FT	3150	2880	978	643	711	1410	1280	1370	895	760	898	3230

CAL YR 1980 TOTAL 8803.28 MEAN 24.1 MAX 154 MIN .00 AC-FT 17460
WTR YR 1981 TOTAL 9180.91 MEAN 25.2 MAX 89 MIN .91 AC-FT 18210

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, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 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)
OCT												
21...	1555	30	2850	8.1	15.0	10.5	650	370	--	140	72	480
DEC												
03...	1540	19	3530	8.0	7.5	1.5	840	520	--	180	94	560
JAN												
21...	1550	7.0	4670	8.0	7.5	.0	950	630	--	200	110	790
MAR												
11...	1530	15	3220	8.1	12.0	6.0	690	--	--	140	82	500
MAY												
07...	1700	18	3350	8.1	16.0	15.0	650	--	520	130	78	570
JUN												
03...	1615	29	2970	8.0	25.0	21.0	730	--	470	170	74	490
JUL												
09...	1700	6.7	3460	8.3	27.0	25.0	550	--	340	83	84	610
AUG												
12...	1240	15	3150	8.0	26.0	20.0	650	--	430	120	86	460
SEP												
17...	1810	51	2240	7.9	27.0	20.0	570	--	300	120	65	320

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)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT											
21...	62	8.2	4.8	280	1300	110	.6	9.5	2290	3.1	184
DEC											
03...	59	8.4	5.5	320	1500	120	.7	11	2680	3.6	135
JAN											
21...	64	11	3.1	--	2100	140	.7	13	3570	4.9	67.5
MAR											
11...	61	8.3	3.0	260	1300	120	.5	6.8	2320	3.2	94.6
MAY											
07...	66	9.8	4.0	130	1400	130	.5	7.3	2400	3.3	113
JUN											
03...	59	7.9	7.3	260	1200	190	.5	9.6	2300	3.1	179
JUL											
09...	70	11	3.9	210	1500	130	.5	14	2550	3.5	45.9
AUG											
12...	60	7.8	3.4	220	1300	88	.5	9.5	2200	3.0	91.5
SEP											
17...	55	5.8	3.8	270	940	58	.5	12	1680	2.3	232

09307300 PARIETTE DRAW AT MOUTH, NEAR OURAY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT 21...	.84	.020	--
DEC 03...	4.1	.000	--
JAN 21...	4.3	.030	--
MAR 11...	2.3	.030	2.2
MAY 07...	.00	.040	3.0
JUN 03...	.43	.020	5.4
JUL 09...	.05	.030	2.9
AUG 12...	.27	.010	--
SEP 17...	.34	<.010	--

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT 21...	1555	1000
DEC 03...	1540	1300
MAR 11...	1530	1200
MAY 07...	1700	1200
JUN 03...	1615	1200
JUL 09...	1700	1300
AUG 12...	1240	1300
SEP 17...	1810	990

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 21...	1555	30	10.5	424	34
DEC 03...	1540	19	1.5	21	1.1
JAN 21...	1550	7.0	.0	32	.60
MAR 11...	1530	15	6.0	48	2.0
MAY 07...	1700	18	15.0	471	22
JUN 03...	1615	29	21.0	441	34
JUL 09...	1700	6.7	25.0	449	8.1
AUG 12...	1240	15	20.0	415	17
SEP 17...	1810	51	20.0	342	47

09307500 WILLOW CREEK ABOVE DIVERSIONS, NEAR OURAY, UTAH

LOCATION.--Lat 39°33'59", long 109°35'12", in NE¼SW¼SE¼ sec.29, T.14 S., R.21 E., Uintah County, Uintah and Ouray Indian Reservation, Hydrologic Unit 14060006, on right bank 0.1 mi (0.2 km) downstream from Big Canyon and 36 mi (57.9 km) southeast of Ouray.

DRAINAGE AREA.--297 mi^2 (769 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1950 to September 1955, September 1957 to September 1970, and October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,000 ft (1,829 m) from topographic map. Prior to Nov. 7, 1952, at site 0.9 mi (1.4 km) downstream at different datum. Nov. 7, 1952 to Sept. 30, 1970, at site 0.8 mi (1.3 km) downstream at different datum, Oct. 1, 1974 to July 18, 1977, at present site at datum 2.00 ft (0.610 m) higher.

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

AVERAGE DISCHARGE.--25 years (water years 1951-55, 1958-70, 1975-81), 20.6 ft^3/s (0.583 m^3/s), 14,920 acre-ft/yr (18.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,240 ft^3/s (63.4 m^3/s) July 19, 1977, gage height, 9.55 ft (2.911 m), from rating curve extended above 100 ft^3/s (2.83 m^3/s) on basis of slope-area measurements of peak flow; minimum, 0.3 ft^3/s (0.008 m^3/s) Aug. 21-23, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 140 ft^3/s (3.96 m^3/s), 282 ft^3/s (7.99 m^3/s) July 18, gage height, 4.50 ft (1.372 m); minimum, 2.9 ft^3/s (0.082 m^3/s) Nov. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	23	23	15	18	26	23	22	17	12	7.0	13
2	20	23	22	18	15	27	24	22	15	13	8.1	10
3	20	22	24	16	16	27	30	30	20	13	8.3	15
4	20	23	22	15	17	30	24	30	19	12	7.1	20
5	19	23	21	14	17	32	21	25	15	11	6.4	13
6	19	23	21	12	18	31	26	23	14	10	6.1	22
7	19	23	20	11	18	29	39	22	14	9.6	5.8	18
8	19	23	23	13	17	29	37	21	13	9.3	5.6	18
9	19	23	19	15	21	25	40	21	13	9.8	6.1	15
10	19	23	20	15	18	25	62	21	14	13	6.4	14
11	20	23	19	14	11	27	67	21	13	12	12	15
12	20	23	21	14	15	29	55	21	12	20	21	14
13	23	27	22	13	20	29	40	20	12	20	15	12
14	22	26	21	11	36	30	38	20	12	12	14	14
15	26	21	19	15	27	33	45	19	13	12	27	11
16	28	18	18	17	24	34	48	20	13	11	18	11
17	26	13	20	19	27	33	41	21	12	16	12	10
18	24	8.0	23	17	26	32	38	20	11	34	11	9.6
19	24	9.5	18	14	24	31	48	19	11	12	14	9.6
20	24	11	16	14	22	34	39	18	11	9.2	11	9.4
21	24	11	18	15	20	34	32	19	11	8.1	11	9.2
22	24	18	20	15	20	34	29	19	11	7.7	13	9.4
23	23	27	18	14	23	37	28	17	10	7.3	12	9.2
24	21	28	16	20	27	36	28	17	11	7.3	10	9.2
25	22	25	20	15	29	30	27	16	11	8.1	9.9	12
26	24	23	19	13	30	31	25	15	10	8.7	11	9.6
27	23	23	18	14	28	27	24	16	9.7	8.5	11	9.6
28	23	22	17	16	29	22	24	17	12	8.1	11	9.2
29	21	20	14	19	---	21	24	18	14	7.9	12	9.2
30	23	22	12	20	---	28	23	17	12	7.7	9.9	9.2
31	23	---	14	16	---	22	---	17	---	7.3	12	---
TOTAL	682	627.5	598	469	613	915	1049	624	385.7	357.6	344.7	369.4
MEAN	22.0	20.9	19.3	15.1	21.9	29.5	35.0	20.1	12.9	11.5	11.1	12.3
MAX	28	28	24	20	36	37	67	30	20	34	27	22
MIN	19	8.0	12	11	11	21	21	15	9.7	7.3	5.6	9.2
AC-FT	1350	1240	1190	930	1220	1810	2080	1240	765	709	684	733

CAL YR 1980 TOTAL 13059.5 MEAN 35.7 MAX 133 MIN 8.0 AC-FT 25900
WTR YR 1981 TOTAL 7034.9 MEAN 19.3 MAX 67 MIN 5.6 AC-FT 13950

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, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT												
10...	1200	19	720	7.9	9.0	7.5	9.7	310	53	--	66	36
MAR												
25...	1730	32	--	--	--	7.5	--	--	--	--	--	--
MAY												
12...	1930	20	780	8.2	12.0	13.0	8.3	330	--	75	73	37
SEP												
15...	1400	13	760	8.0	25.5	--	7.2	340	--	53	73	39

DATE	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)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT												
10...	39	21	1.0	1.3	260	120	5.0	.3	15	439	.60	23.0
MAR												
25...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
12...	43	22	1.0	1.5	260	140	5.0	.2	16	472	.64	25.7
SEP												
15...	47	23	1.2	2.5	290	130	7.4	.3	18	492	.67	16.6

DATE	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)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT				
10...	.00	.010	.03	--
MAY				
12...	.04	.020	.06	1.1
SEP				
15...	.00	.070	.21	--

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)
OCT			
10...	1200	0	20
MAY			
12...	1930	40	20
SEP			
15...	1400	40	22

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
MAR												
25...	1730	32	7.5	2670	231	26	30	54	84	90	97	100

09307800 HILL CREEK ABOVE TOWAVE RESERVOIR, NEAR OURAY, UTAH

LOCATION.--Lat 39°31'33", long 109°44'02", in NW¼NE¼SE¼ sec.12, T.15 S., R.19 E., Uintah County, Hydrologic Unit 14060006, on left bank 0.5 mi (0.8 km) upstream from Lower Wagon Canyon, 3.5 mi (5.6 km) above Towave Reservoir, and 39 mi (63 km) south of Ouray.

DRAINAGE AREA.--89.7 mi^2 (232 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,470 ft (1,972 m) from topographic map.

REMARKS.--Water-discharge records good.

AVERAGE DISCHARGE.--7 years, 9.39 ft^3/s (0.266 m^3/s), 6,800 acre-ft/yr (8.38 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 106 ft^3/s (3.00 m^3/s) May 28, 1979, gage height, 3.65 ft (1.113 m); maximum gage height, 4.73 ft (1.442 m) Feb. 21, 1978 (backwater from ice); no flow part of each day, Aug. 7, 8, 1980, probably caused by bank caving in above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 44 ft^3/s (1.25 m^3/s) Apr. 11, gage height, 2.54 ft (0.77 m); no flow part of each day, Aug. 7, 8, probably caused by bank caving in above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	10	9.6	8.3	5.8	8.9	11	9.7	9.3	6.1	1.7	5.5
2	8.5	10	9.4	10	5.0	8.5	10	11	8.6	7.1	2.3	4.7
3	8.8	10	11	9.1	5.3	8.1	12	16	9.3	6.9	2.3	4.7
4	8.8	10	10	9.1	6.0	9.2	9.8	14	8.8	5.6	1.7	4.6
5	8.8	10	10	8.4	6.3	8.4	9.5	12	8.0	4.7	1.4	6.7
6	8.8	10	10	5.0	7.0	8.6	11	10	7.5	4.1	.31	9.2
7	8.5	10	9.1	5.4	6.5	8.6	14	9.3	7.2	3.6	.04	6.5
8	8.5	10	9.5	6.0	6.3	8.2	14	8.9	6.5	3.5	.05	5.4
9	8.5	10	6.0	5.6	8.4	8.0	16	9.0	6.2	3.5	.24	4.9
10	8.5	10	5.3	6.0	8.5	8.4	27	8.8	5.9	4.0	.67	5.1
11	8.3	10	7.3	5.8	4.3	8.5	29	8.5	5.8	4.3	6.1	5.6
12	9.2	11	7.7	5.9	5.4	9.6	24	8.7	5.5	5.4	6.9	5.1
13	11	14	6.7	5.3	8.1	8.3	18	8.9	5.2	7.4	5.5	5.0
14	10	12	6.4	4.8	9.8	9.0	17	8.7	5.6	5.4	4.8	4.5
15	13	8.9	8.5	5.5	10	9.0	17	8.6	6.1	5.1	5.3	4.1
16	12	5.0	9.7	5.8	8.9	10	17	9.8	6.0	4.4	6.0	3.7
17	12	3.6	10	7.4	9.7	9.3	16	9.6	5.5	5.0	4.5	3.5
18	11	4.5	11	6.5	9.1	8.9	15	9.4	5.5	10	3.8	3.3
19	11	7.6	9.2	5.7	8.8	9.1	17	9.0	5.3	5.3	3.6	3.2
20	10	6.7	8.5	5.9	8.5	9.7	15	9.1	5.0	3.7	2.5	3.0
21	10	6.1	10	6.3	6.4	8.8	13	10	4.7	2.9	2.7	3.0
22	10	8.7	11	6.2	7.7	9.4	12	9.7	4.6	2.5	4.9	3.0
23	10	8.4	9.7	6.0	8.9	10	12	9.1	4.4	2.2	3.6	2.7
24	9.4	10	8.4	8.5	9.1	13	11	8.8	4.3	2.2	2.7	2.8
25	9.9	6.0	11	5.7	8.8	13	11	8.7	4.3	2.7	2.9	3.0
26	11	7.6	10	4.6	8.3	13	11	8.6	4.2	3.1	2.9	2.8
27	11	6.6	9.7	5.6	7.1	13	10	8.6	3.8	3.2	4.1	3.0
28	10	9.2	9.1	6.9	8.6	11	10	9.8	4.3	2.8	4.7	3.1
29	9.4	11	7.9	8.4	---	11	10	11	4.5	2.3	4.7	2.9
30	10	11	6.9	8.4	---	13	9.9	10	4.8	2.0	5.2	3.0
31	10	---	8.0	5.1	---	10	---	10	---	2.0	5.9	---
TOTAL	304.7	267.9	276.6	203.2	212.6	301.5	429.2	303.3	176.7	133.0	104.01	127.6
MEAN	9.83	8.93	8.92	6.55	7.59	9.73	14.3	9.78	5.89	4.29	3.36	4.25
MAX	13	14	11	10	10	13	29	16	9.3	10	6.9	9.2
MIN	8.3	3.6	5.3	4.6	4.3	8.0	9.5	8.5	3.8	2.0	.04	2.7
AC-FT	604	531	549	403	422	598	851	602	350	264	206	253

CAL YR 1980 TOTAL 5707.60 MEAN 15.6 MAX 56 MIN 3.6 AC-FT 11320
WTR YR 1981 TOTAL 2840.31 MEAN 7.78 MAX 29 MIN .04 AC-FT 5630

09307800 HILL CREEK ABOVE TOWAVE RESERVOIR, 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 1974 to September 1976, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT												
10...	1700	8.2	640	7.8	19.5	13.0	8.1	300	40	--	69	31
MAY												
12...	1630	8.8	650	8.1	19.0	15.5	8.3	310	--	46	73	30
SEP												
15...	1000	4.3	630	7.7	18.5	--	8.7	310	--	29	71	32

DATE	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)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT												
10...	22	14	.6	1.4	260	77	4.2	.3	17	378	.51	8.4
MAY												
12...	21	13	.5	1.3	260	76	3.8	.2	15	377	.51	8.9
SEP												
15...	24	14	.7	2.0	280	80	3.8	.3	19	401	.55	4.7

DATE	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)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT				
10...	.00	.020	.06	--
MAY				
12...	.00	.030	.09	1.0
SEP				
15...	.00	.030	.09	--

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)
OCT			
10...	1700	50	10
MAY			
12...	1630	40	30
SEP			
15...	1000	30	34

09307900 HILL CREEK NEAR MOUTH, NEAR OURAY, UTAH

LOCATION.--Lat 39°51'35", long 109°42'12", in SE¼SE¼NW¼ sec.8, T.11 S., R.20 E., Uintah County, Uintah and Ouray Indian Reservation, Hydrologic Unit 14060006, on right bank 5.9 mi (9.5 km) upstream from mouth and 15 mi (24 km) south of Ouray.

DRAINAGE AREA.--288 mi^2 (746 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,080 ft (1,548 m) from topographic map.

REMARKS.--Records good except those for winter period, which are poor.

AVERAGE DISCHARGE.--7 years, 5.09 ft^3/s (0.144 m^3/s), 3,690 acre-ft/yr (4.55 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 201 ft^3/s (5.69 m^3/s) Aug. 1, 1976, gage height, 4.4 ft (1.34 m), from slope-area measurement of peak flow; maximum gage height, 4.84 ft (1.475 m) May 17, 1975; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29 ft^3/s (0.82 m^3/s) Sept. 5, gage height, 2.97 ft (0.905 m); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	6.1	5.0	6.6	3.7	9.1	10	6.1	4.2	.00	.00	.00
2	2.7	6.1	4.8	6.6	4.1	9.4	9.5	6.0	3.7	.00	.00	.00
3	3.0	6.1	5.0	7.0	3.6	9.7	9.1	7.8	3.9	.00	.00	.00
4	3.1	5.9	5.6	7.4	4.0	9.2	8.9	9.9	3.9	.00	.00	.00
5	2.9	6.6	6.2	6.3	4.3	9.2	8.7	9.7	3.4	.00	.00	2.7
6	2.5	6.7	6.4	5.5	4.5	9.6	9.1	8.9	3.0	.00	.00	4.8
7	2.6	6.5	5.8	6.2	5.3	9.5	9.1	7.8	2.3	.00	.00	.17
8	2.7	6.1	5.0	8.0	4.3	9.0	8.7	7.2	1.6	.00	.00	.00
9	2.7	5.8	4.7	8.7	3.5	8.8	9.1	6.9	.86	.00	.00	2.4
10	2.6	5.9	4.4	6.8	2.8	8.7	9.3	6.9	.51	.00	.00	.53
11	2.7	5.8	4.8	5.4	2.5	8.9	11	5.4	.27	.00	.00	1.8
12	3.0	6.0	5.2	4.4	2.8	9.0	14	2.8	.16	.00	.00	.36
13	3.5	6.4	4.6	3.7	3.7	9.3	16	2.2	.05	.00	.00	.14
14	4.3	6.6	4.0	3.2	4.8	9.5	14	2.5	.00	.00	.00	.07
15	6.2	7.0	3.8	3.5	9.0	9.5	13	2.9	.10	.00	.00	.04
16	7.3	6.0	4.3	5.0	11	9.5	13	3.4	.07	.00	.00	.00
17	7.3	6.2	4.8	4.8	10	9.9	13	3.8	.02	.00	.00	.00
18	6.9	6.4	5.2	5.2	9.4	9.7	12	4.0	.00	.00	.00	.00
19	6.6	5.8	5.8	3.7	12	9.5	12	4.1	.00	.00	.00	.00
20	6.2	5.4	6.0	4.0	12	9.7	11	3.9	.00	.00	.00	.00
21	6.1	4.8	5.6	5.4	9.6	9.1	11	3.9	.00	.00	.00	.00
22	5.9	4.5	6.0	6.3	9.5	8.6	11	3.5	.00	.00	.08	.00
23	5.6	4.2	6.6	5.5	9.6	8.8	10	3.6	.00	.00	.00	.00
24	5.6	4.0	5.8	5.4	9.5	9.3	9.2	3.6	.00	.00	.00	.00
25	5.9	3.6	6.4	4.5	9.6	9.5	8.5	3.6	.00	.00	.00	.00
26	5.9	4.0	6.6	3.0	9.8	11	7.8	3.4	.00	.00	.00	.00
27	5.8	4.4	6.8	2.4	9.6	10	7.0	3.3	.00	.00	.00	.00
28	5.7	4.8	6.7	2.8	9.1	11	6.7	3.6	.00	.00	.00	.00
29	6.1	5.0	6.6	4.7	---	11	6.5	4.1	.00	.00	.00	.00
30	6.0	5.4	6.6	5.6	---	11	6.4	4.1	.00	.00	.00	.00
31	6.0	---	6.6	4.7	---	10	---	4.9	---	.00	.00	---
TOTAL	146.2	168.1	171.7	162.3	193.6	296.0	304.6	153.8	28.04	.00	.08	13.01
MEAN	4.72	5.60	5.54	5.24	6.91	9.55	10.2	4.96	.93	.000	.003	.43
MAX	7.3	7.0	6.8	8.7	12	11	16	9.9	4.2	.00	.08	4.8
MIN	2.5	3.6	3.8	2.4	2.5	8.6	6.4	2.2	.00	.00	.00	.00
AC-FT	290	333	341	322	384	587	604	305	56	.00	.2	26

CAL YR 1980 TOTAL 4438.25 MEAN 12.1 MAX 63 MIN .00 AC-FT 8800
WTR YR 1981 TOTAL 1637.43 MEAN 4.49 MAX 16 MIN .00 AC-FT 3250

09307900 HILL CREEK NEAR MOUTH, NEAR OURAY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1975 to current year. Prior to 1979 water year, published in "Hydrologic and Climatologic Data" reports for Utah.
SEDIMENT DATA: February 1975 to August 1976, April 1978, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT 02...	1430	2.4	1150	8.3	20.0	12.0	9.0	430	100	--	53	73
MAY 15...	1100	3.2	1440	8.2	25.0	12.5	9.9	520	--	120	63	89

DATE	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)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT 02...	130	39	2.7	3.8	--	350	18	.7	15	843	1.2	5.6
MAY 15...	170	41	3.2	3.5	400	460	21	.7	15	1060	1.4	9.0

DATE	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)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT 02...	.00	.000	.00	--
MAY 15...	.01	.030	.09	2.6

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)
MAY 15...	1100	1600	30

09308000 WILLOW CREEK NEAR OURAY, UTAH

LOCATION.--Lat 39°56'20", long 109°38'52", in NE¼NW¼NE¼ sec.22, T.10 S., R.20 E., Uintah County, Hydrologic Unit 14060006, on left bank 0.3 mi (0.5 km) upstream from Black Bridge, 1.6 mi (2.6 km) downstream from HIll Creek, and 10 mi (16 km) south of Ouray.

DRAINAGE AREA.--897 mi^2 (2,323 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1947 to September 1955, October 1974 to current year. 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 (1,481 m) 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.--15 years (water years 1948-55, 1975-81) 25.2 ft^3/s (0.714 m^3/s), 18,260 acre-ft/yr (22.5 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 11,000 ft^3/s (312 m^3/s) February 1962, gage height, 17.73 ft (5.404 m), site and datum then in use; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 554 ft^3/s (15.7 m^3/s) Sept. 11, gage height, 4.34 ft (1.323 m); no flow June 27 to July 1, July 4-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	21	30	22	20	26	33	9.0	7.9	.00	.83	1.3
2	18	22	30	21	21	28	35	8.6	8.6	.02	1.0	.33
3	18	23	29	20	24	29	37	11	8.1	.01	1.4	.02
4	18	22	27	20	25	28	43	22	9.0	.00	1.5	.99
5	18	24	25	20	25	28	35	18	12	.00	1.7	22
6	18	24	24	19	25	28	34	15	9.1	.00	1.7	38
7	19	25	23	18	25	30	38	14	7.1	.00	1.4	24
8	20	25	27	16	25	30	48	14	6.2	.00	1.4	13
9	15	23	24	21	25	28	48	13	9.3	.07	1.3	13
10	16	23	25	27	20	27	51	13	7.1	25	1.0	26
11	15	20	26	31	18	28	71	11	5.9	3.0	.60	69
12	10	22	29	18	22	28	88	8.0	2.5	1.2	1.0	12
13	13	24	31	24	30	30	88	7.3	2.3	17	6.4	5.9
14	17	27	33	23	30	30	69	7.2	2.1	14	14	3.2
15	17	27	34	24	30	31	56	7.4	2.5	5.0	5.2	3.2
16	20	20	32	24	40	31	60	8.9	2.2	1.1	22	1.7
17	27	20	29	25	45	33	53	9.5	2.4	.47	16	1.2
18	24	14	28	25	81	33	51	12	1.8	12	5.6	1.1
19	24	28	28	25	59	31	51	12	1.1	31	3.1	2.0
20	20	25	28	25	50	32	42	12	1.1	9.4	2.2	1.7
21	21	26	28	25	37	34	41	12	.94	3.8	1.4	1.6
22	22	25	28	25	28	31	36	13	1.0	1.5	6.0	2.4
23	21	24	28	25	29	31	32	12	1.0	.73	6.0	1.4
24	16	22	28	25	33	38	29	11	.85	.82	11	1.9
25	18	20	28	25	34	44	26	9.9	.26	1.4	7.5	1.6
26	19	17	28	25	32	45	19	7.6	.06	1.1	2.8	3.2
27	19	16	28	25	32	44	19	5.3	.00	1.4	.66	4.2
28	24	18	28	24	26	39	17	5.7	.00	1.4	.49	2.3
29	20	27	25	22	---	36	14	7.8	.00	1.0	.45	2.5
30	20	33	22	21	---	35	11	9.1	.00	.75	.42	1.5
31	19	---	22	20	---	40	---	9.9	---	.60	.47	---
TOTAL	585	687	855	710	891	1006	1275	336.2	112.41	133.77	126.52	262.24
MEAN	18.9	22.9	27.6	22.9	31.8	32.5	42.5	10.8	3.75	4.32	4.08	8.74
MAX	27	33	34	31	81	45	88	22	12	31	22	69
MIN	10	14	22	16	18	26	11	5.3	.00	.00	.42	.02
AC-FT	1160	1360	1700	1410	1770	2000	2530	667	223	265	251	520

CAL YR 1980 TOTAL 16852.93 MEAN 46.0 MAX 500 MIN .81 AC-FT 33430
WTR YR 1981 TOTAL 6980.14 MEAN 19.1 MAX 88 MIN .00 AC-FT 13850

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 only shown 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 (44,800 tonnes) July 20, 1977; 0 tons many days most years.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 26,500 mg/L Aug. 14; no flow several days during June and July.
SEDIMENT LOADS: Maximum daily 3,390 tons (3,080 tonnes) Sept. 11; no flow several days during June and July.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT 02...	1130	18	1450	8.4	14.0	9.5	10.0	440	86	--	64	67
MAY 15...	1330	8.6	2910	8.3	23.0	16.0	8.4	710	--	200	85	120
JUN 04...	1200	3.9	2700	8.3	22.5	17.0	8.6	--	--	--	--	--
SEP 25...	1230	1.7	3800	8.4	19.5	16.0	8.5	800	--	140	72	150

DATE	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)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT 02...	190	48	4.0	3.1	350	450	19	.6	16	1020	1.4	48.2
MAY 15...	410	56	6.7	4.9	510	1000	42	.8	16	1990	2.7	46.2
JUN 04...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 25...	670	64	10	7.4	660	1400	76	1.2	15	2790	3.8	12.6

DATE	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)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT 02...	.00	.030	.09	--
MAY 15...	.04	.050	.15	3.7
SEP 25...	.03	.040	.12	--

09308000 WILLOW CREEK NEAR OURAY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 02...	1130	0	14	870	<1	0	4
MAY 15...	1330	--	--	3100	--	--	--
JUN 04...	1200	30	24	--	0	10	7
SEP 25...	1230	10	41	4900	0	0	5

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 02...	10	1	2	.0	1	<3
MAY 15...	50	--	--	--	--	--
JUN 04...	--	0	10	.0	1	10
SEP 25...	10	1	20	.0	1	10

09308000 WILLOW CREEK NEAR OURAY, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	413	21	846	48	1040	84	2500	148	2890	156	3900	274
2	413	20	1200	71	1030	83	2500	142	3150	179	3900	295
3	406	20	972	60	1120	88	2500	135	3050	198	3900	305
4	406	20	720	43	1450	106	2450	132	3000	202	3900	295
5	406	20	972	63	1550	105	2410	130	3080	208	3800	287
6	399	19	780	51	1550	100	2430	125	3170	214	3600	272
7	420	22	780	53	1550	96	2370	115	3500	236	3650	296
8	497	27	820	55	1550	113	2330	101	3900	263	3600	292
9	574	23	940	58	1550	100	2380	135	4500	304	3500	265
10	609	26	1000	62	1560	105	2480	181	5350	289	3650	266
11	455	18	920	50	1580	111	2550	213	5600	272	3960	299
12	504	14	1020	61	2050	161	2640	128	5400	321	3850	291
13	657	23	1380	89	2110	177	2730	177	6150	498	3080	249
14	952	44	1330	97	2150	192	2760	171	6300	510	3240	262
15	864	40	1070	78	2180	200	2680	174	6050	490	3020	253
16	1230	66	830	45	2330	201	2720	176	5800	626	3140	263
17	1840	134	600	32	2520	197	2680	181	5550	674	3020	269
18	1060	69	610	23	2600	197	2600	175	5320	1160	2530	225
19	992	64	650	49	2600	197	2600	175	5100	812	2090	175
20	784	42	630	43	2600	197	2620	177	4930	666	2100	181
21	704	40	640	45	2540	192	2600	175	4880	488	2200	202
22	880	52	670	45	2550	193	2760	186	4650	352	1800	151
23	776	44	660	43	2480	187	2680	181	4400	345	1850	155
24	816	35	640	38	2340	177	2700	182	4260	380	3000	308
25	800	39	670	36	2430	184	2610	176	4300	395	3300	392
26	900	46	650	30	2490	188	2650	179	4300	372	6000	729
27	1060	54	780	34	2540	192	2720	184	4200	363	5500	653
28	1760	114	850	41	2540	192	2800	181	3950	277	4150	437
29	1020	55	870	63	2500	169	2930	174	---	---	3050	296
30	927	50	980	87	2440	145	2870	163	---	---	2950	279
31	729	37	---	---	2450	146	2850	154	---	---	3150	340
TOTAL	---	1298	---	1593	---	4775	---	5026	---	11250	---	9256

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	2530	225	616	15	702	15	0	.00	567	1.3	488	1.7
2	2700	255	633	15	754	18	68	.00	563	1.5	352	.31
3	2800	280	1400	42	546	12	48	.00	565	2.1	190	.01
4	3460	402	2820	168	812	20	0	.00	570	2.3	816	2.2
5	2260	214	2230	108	1060	34	0	.00	570	2.6	10900	647
6	2310	212	963	39	1020	25	0	.00	571	2.6	15100	1550
7	2780	285	1110	42	1080	21	0	.00	555	2.1	11000	713
8	5800	752	711	27	875	15	0	.00	686	2.6	8500	298
9	4600	596	675	24	1160	29	2000	.38	760	2.7	7500	263
10	5000	688	819	29	714	14	23800	1610	688	1.9	8500	597
11	13400	2570	568	17	609	9.7	10000	81	673	1.1	18200	3390
12	11600	2760	664	14	532	3.6	5200	17	575	1.6	11300	366
13	7400	1760	680	13	490	3.0	17000	780	962	17	7400	118
14	5300	987	640	12	406	2.3	11800	446	26500	1000	4600	40
15	4000	605	696	14	253	1.7	5400	73	7400	104	2800	24
16	4250	688	688	17	220	1.3	2400	7.1	18200	1080	465	2.1
17	3550	508	792	20	180	1.2	1500	1.9	4960	214	410	1.3
18	3150	434	1320	43	148	.72	8150	264	1100	17	350	1.0
19	5300	730	936	30	120	.36	25900	2170	420	3.5	415	2.2
20	4000	454	846	27	125	.37	12700	322	364	2.2	400	1.8
21	3330	369	770	25	120	.30	9000	92	371	1.4	385	1.7
22	2470	240	1390	49	117	.32	5400	22	1860	30	490	3.2
23	2250	194	860	28	119	.32	1200	2.4	924	15	480	1.8
24	2150	168	781	23	120	.28	500	1.1	1820	54	492	2.5
25	2040	143	649	17	102	.07	512	1.9	1220	25	490	2.1
26	1290	66	506	10	88	.01	500	1.5	624	4.7	512	4.4
27	1380	71	444	6.4	0	.00	519	2.0	824	1.5	490	5.6
28	1020	47	600	9.2	0	.00	542	2.0	392	.52	480	3.0
29	840	32	828	17	0	.00	461	1.2	414	.50	420	2.8
30	688	20	732	18	0	.00	488	.99	440	.50	468	1.9
31	---	---	728	19	---	---	577	.93	432	.55	---	---
TOTAL	---	16755	---	937.6	---	228.55	---	5900.40	---	2595.77	---	8047.62

TOTAL LOAD FOR YEAR: 67662.94 TONS.

09308000 WILLOW CREEK NEAR OURAY, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
OCT												
02...	1045	18	9.5	405	20	32	49	83	97	98	100	--
NOV												
13...	1100	24	5.0	1150	75	33	37	70	91	95	100	--
DEC												
23...	1315	39	.0	2380	251	32	38	66	86	94	99	100
FEB												
17...	1800	48	.0	5310	688	27	41	75	96	98	100	--
MAR												
26...	1400	43	9.5	6300	731	22	34	63	95	98	100	--
APR												
21...	1445	40	13.5	2830	306	27	37	67	91	95	100	--
MAY												
15...	1315	8.6	16.0	664	15	31	57	89	96	97	100	--
AUG												
19...	1000	2.7	18.0	447	3.3	67	79	96	99	--	--	--

09308500 MINNIE MAUD CREEK NEAR MYTON, UTAH

LOCATION.--Lat 39°47'55", long 110°33'55", in SE¼SE¼SW¼ sec.3, T.12 S., R.12 E., Carbon County, Hydrologic Unit 14060005, on left bank 38.4 mi (61.8 km) southwest of Myton.

DRAINAGE AREA.--32.0 mi^2 (82.9 km^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 (2,192 m) by barometer.

REMARKS.--Records fair. No diversion above station.

AVERAGE DISCHARGE.--29 years, 5.03 ft^3/s (0.142 m^3/s), 3,640 acre-ft/yr (4.47 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge unknown, occurred Oct. 13, 1975, gage height, 11.67 ft (3.557 m); maximum known discharge, 1,370 ft^3/s (38.8 m^3/s) Aug. 25, 1961, gage height, 9.40 ft (2.865 m), from rating curve extended above 110 ft^3/s (3.12 m^3/s) on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 36 ft^3/s (1.02 m^3/s) Apr. 9, gage height, 7.18 ft (2.188 m), no peak above base of 90 ft^3/s (2.55 m^3/s); minimum daily, 0.25 ft^3/s (0.007 m^3/s) Feb. 3-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	4.0	1.5	.48	.30	.37	.55	9.4	5.3	2.2	.85	1.1
2	2.2	3.7	1.6	.45	.27	.37	.70	10	5.6	2.2	.84	.99
3	2.8	3.6	1.6	.40	.25	.35	.70	10	5.5	1.9	.84	.99
4	3.7	3.5	1.6	.37	.25	.35	.70	9.5	4.9	1.8	.83	.98
5	3.4	3.4	1.5	.35	.25	.35	1.0	9.2	4.7	1.7	.83	3.0
6	2.8	3.4	1.5	.39	.25	.35	2.0	9.0	4.5	1.7	.82	1.3
7	2.5	3.3	1.5	.39	.25	.38	6.4	8.5	4.2	1.7	.82	.95
8	2.5	3.3	.80	.41	.27	.37	12	8.6	4.1	1.6	.82	2.0
9	2.5	3.2	.75	.40	.27	.38	25	8.2	3.9	1.5	.81	1.2
10	2.3	3.2	.66	.43	.27	.37	20	8.0	3.8	1.5	4.0	.96
11	2.4	3.2	.70	.40	.32	.37	17	7.8	3.6	1.5	2.0	.97
12	4.0	3.0	.70	.43	.35	.37	14	7.4	3.2	1.7	1.0	.97
13	5.5	2.8	.70	.44	.36	.37	13	7.0	3.0	1.9	.95	.98
14	4.7	2.7	.65	.40	.39	.39	12	6.7	3.1	1.9	.90	.98
15	5.8	2.6	.65	.38	.37	.39	17	6.9	2.9	1.8	.90	.97
16	5.0	2.6	.65	.38	.40	.39	13	7.0	2.7	1.4	.93	.97
17	4.4	2.7	.70	.38	.40	.39	12	6.4	2.5	1.5	.90	1.0
18	4.3	2.7	.64	.40	.40	.39	12	6.2	2.5	1.2	.90	.98
19	4.4	2.7	.60	.40	.40	.39	14	6.1	2.3	1.1	.85	.97
20	4.3	2.8	.55	.40	.40	.39	11	6.4	2.2	1.1	.82	.96
21	4.2	2.5	.55	.40	.40	.39	9.9	6.8	2.0	1.0	.97	.97
22	4.2	2.4	.53	.40	.38	.42	9.3	6.0	2.2	.98	2.0	.91
23	4.0	2.0	.47	.40	.38	.42	9.2	5.7	2.1	.99	1.1	.90
24	4.4	1.8	.50	.35	.38	.42	9.3	5.6	2.0	1.0	1.0	3.2
25	4.8	1.5	.50	.30	.38	.42	9.3	5.5	1.8	1.1	.99	1.2
26	4.0	1.5	.53	.29	.38	.42	9.7	5.9	1.7	1.1	.97	1.1
27	4.1	1.5	.53	.30	.37	.39	9.7	6.6	1.9	.99	1.2	1.1
28	4.1	1.6	.47	.30	.37	.39	9.5	6.2	2.0	.95	1.2	1.0
29	4.4	1.6	.48	.29	---	.43	9.4	5.9	1.9	.95	.96	1.0
30	4.7	1.6	.48	.29	---	.45	9.2	5.8	1.8	.90	1.1	.99
31	4.1	---	.53	.29	---	.45	---	5.3	---	.88	1.1	---
TOTAL	119.0	80.4	25.12	11.69	9.46	12.08	298.55	223.6	93.9	43.74	34.20	35.59
MEAN	3.84	2.68	.81	.38	.34	.39	9.95	7.21	3.13	1.41	1.10	1.19
MAX	5.8	4.0	1.6	.48	.40	.45	25	10	5.6	2.2	4.0	3.2
MIN	2.2	1.5	.47	.29	.25	.35	.55	5.3	1.7	.88	.81	.90
AC-FT	236	159	50	23	19	24	592	444	186	87	68	71

CAL YR 1980 TOTAL 2794.88 MEAN 7.64 MAX 80 MIN .40 AC-FT 5540
WTR YR 1981 TOTAL 987.33 MEAN 2.71 MAX 25 MIN .25 AC-FT 1960

09309600 FAIRVIEW TUNNEL NEAR FAIRVIEW, UTAH
(Transmountain diversion)

LOCATION.--Lat 39°40'03", long 111°18'41", in NW¼NW¼NE¼ sec.25, T.13 S., R.5 E., Sanpete County, Hydrologic Unit 14060007, on right bank 1,000 ft (305 m) upstream from tunnel portal, 7.3 mi (11.7 km) 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, 8,660 ft (2,640 m) from topographic map.

REMARKS.--Records poor. Fairview Tunnel diverts from San Rafael 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, 30 ft^3/s (0.85 m^3/s) July 8, 1980, gage height, 1.20 ft (0.366 m); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17 ft^3/s (0.48 m^3/s) Aug. 10, gage height, 0.74 ft (0.226 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	14	13	7.9
2									---	14	13	7.4
3									---	14	13	7.9
4									---	14	13	7.0
5									---	14	12	7.9
6									---	14	12	7.4
7									---	14	12	7.2
8									---	14	12	7.2
9									---	14	12	7.9
10									---	14	13	7.2
11									---	14	12	7.0
12									---	13	12	7.0
13									---	13	11	6.7
14									---	13	10	6.7
15									---	12	10	6.7
16									---	13	9.7	6.3
17									---	12	9.1	5.2
18									---	12	9.1	4.6
19									5.2	12	9.1	4.5
20									5.8	12	8.9	4.3
21									6.7	12	8.9	4.2
22									7.4	13	8.6	4.0
23									8.1	14	8.9	3.9
24									8.6	14	8.6	3.7
25									11	14	8.1	3.5
26									12	14	7.6	3.4
27									13	14	7.6	3.2
28									14	14	8.1	3.1
29									14	14	8.6	2.9
30									14	14	8.4	2.8
31									---	14	8.4	---
TOTAL									---	417	317.7	168.7
MEAN									---	13.5	10.2	5.62
MAX									---	14	13	7.9
MIN									---	12	7.6	2.8
AC-FT									---	827	630	335

09310000 GOOSEBERRY CREEK NEAR SCOFIELD, UTAH

LOCATION.--Lat 39°42'57", long 111°17'58", in NW¼SE¼SW¼ sec.6, T.13 S., R.6 E., Sanpete County, Hydrologic Unit 14060007, on left bank 300 ft (91 m) downstream from old Mammoth Dam, 5.5 mi (8.8 km) upstream from mouth, and 7 mi (11 km) west of Scofield.

DRAINAGE AREA.--16.8 mi^2 (43.5 km^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 (2,560 m) from topographic map. October 1930 to September 1931, at different datum, May 1940 to September 1954, at datum 0.50 ft (0.15 m) 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 (8 km) above station, capacity about 1,900 acre-ft (2.3 hm^3) is used to regulate these diversions. Flow also affected by small reservoir 1 mi (2 km) above station.

AVERAGE DISCHARGE.--42 years, 18.2 ft^3/s (0.515 m^3/s), 13,190 acre-ft/yr (16.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 414 ft^3/s (11.7 m^3/s) May 30, 1952; maximum gage height, 2.98 ft (0.908 m) June 6, 1957; no flow Nov. 11, 1964, Sept. 23-26, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 147 ft^3/s (4.16 m^3/s) May 3, gage height, 2.16 ft (0.658 m); minimum, 2.3 ft^3/s (0.065 m^3/s) Aug. 5-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	5.1	4.1	3.8	3.2	3.9	6.2	100	54	11	3.4	3.5
2	4.1	5.1	4.1	3.9	3.0	4.0	6.4	107	53	12	3.5	3.1
3	4.1	5.1	4.1	3.9	2.9	4.0	6.8	132	58	11	3.3	3.0
4	4.1	5.1	4.1	3.8	2.7	4.0	6.4	87	50	10	3.2	2.9
5	4.1	5.1	4.6	3.7	2.9	4.1	6.1	75	44	9.8	2.8	3.6
6	4.1	5.1	4.8	3.6	3.1	4.2	7.0	69	41	9.4	2.5	5.2
7	4.1	5.2	4.8	3.4	3.3	4.2	7.4	59	38	9.0	2.5	4.9
8	4.1	5.4	4.2	3.2	3.6	4.3	7.2	56	35	8.3	3.0	4.9
9	4.1	5.4	3.5	3.1	3.8	4.4	8.0	50	32	8.3	2.9	6.4
10	4.1	5.4	3.6	3.0	3.8	4.5	9.0	49	30	8.3	3.7	6.4
11	4.1	5.4	3.7	2.8	3.7	4.6	10	51	29	8.0	5.4	5.0
12	4.8	5.6	3.6	3.0	3.6	4.7	11	48	27	7.6	4.1	4.2
13	5.7	6.1	3.6	3.2	3.7	4.7	12	43	25	7.6	5.8	4.2
14	5.7	6.1	3.6	3.4	3.9	4.8	14	41	24	7.2	4.8	4.1
15	5.7	4.4	3.7	3.5	4.0	5.0	18	42	24	6.8	5.1	3.5
16	5.7	4.1	3.9	3.8	4.1	5.4	19	47	22	6.8	5.8	3.2
17	5.7	3.8	4.0	4.0	4.2	5.4	22	46	21	7.9	5.0	3.2
18	5.7	3.8	4.0	4.0	4.1	5.2	25	42	20	7.2	4.5	3.2
19	5.7	3.8	3.8	4.0	4.0	5.6	26	41	20	6.4	4.6	2.9
20	5.7	3.8	3.6	3.9	4.0	5.8	24	41	19	5.7	3.8	2.8
21	5.7	3.8	3.6	3.8	3.9	5.6	22	50	17	5.4	3.4	2.9
22	5.7	3.8	3.8	3.8	4.0	5.6	26	54	15	5.4	4.3	2.7
23	5.7	4.0	3.9	3.8	4.0	5.6	30	56	15	5.4	4.2	2.6
24	5.4	5.7	3.6	3.8	4.0	6.0	40	55	13	5.4	3.9	2.7
25	5.4	5.1	3.5	3.9	4.0	6.2	45	50	13	5.1	3.5	2.5
26	5.4	4.4	3.5	4.0	4.0	6.2	52	50	13	4.9	3.2	2.8
27	5.4	4.1	3.6	4.1	4.0	6.0	60	61	12	4.4	3.2	3.0
28	5.4	4.1	3.7	4.2	4.0	6.6	68	58	12	4.3	3.3	2.9
29	5.4	4.1	3.8	4.2	---	6.6	75	62	12	4.1	3.3	2.7
30	5.4	4.1	3.6	3.9	---	6.4	92	59	12	3.9	3.8	2.6
31	5.2	---	3.6	3.5	---	6.2	---	58	---	3.6	3.8	---
TOTAL	155.6	142.1	119.6	114.0	103.5	159.8	761.5	1839	800	220.2	119.6	107.6
MEAN	5.02	4.74	3.86	3.68	3.70	5.15	25.4	59.3	26.7	7.10	3.86	3.59
MAX	5.7	6.1	4.8	4.2	4.2	6.6	92	132	58	12	5.8	6.4
MIN	4.1	3.8	3.5	2.8	2.7	3.9	6.1	41	12	3.6	2.5	2.5
AC-FT	309	282	237	226	205	317	1510	3650	1590	437	237	213

CAL YR 1980 TOTAL 9411.3 MEAN 25.7 MAX 211 MIN 3.5 AC-FT 18670
WTR YR 1981 TOTAL 4642.5 MEAN 12.7 MAX 132 MIN 2.5 AC-FT 9210

09310500 FISH CREEK ABOVE RESERVOIR, NEAR SCOFIELD, UTAH

LOCATION.--Lat 39°46'28", long 111°11'25", in NW¼NE¼SW¼ sec.18, T.12 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on right bank 0.8 mi (1.3 km) upstream from bridge, 1.2 mi (1.9 km) downstream from French Creek, and 4.5 mi (7.2 km) north of Scofield.

DRAINAGE AREA.--60.1 mi^2 (155.7 km^2).

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 (2,338 m) from topographic map. June 1931 to September 1932, and October 1938 to July 27, 1967, at various sites about 0.5 mi (0.8 km) downstream at different datums.

REMARKS.--Records good except those for winter period, Nov. 16 to Mar. 23, which are poor. Small transmountain diversions in headwaters for irrigation in Sevier Lake basin and one diversion for irrigation above station.

AVERAGE DISCHARGE.--43 years (1938-81), 46.8 ft^3/s (1.325 m^3/s), 33,900 acre-ft/yr (41.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,160 ft^3/s (32.9 m^3/s) May 20, 1973, gage height, 4.87 ft (1.484 m); minimum recorded, 0.6 ft^3/s (0.02 m^3/s) Oct. 31, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 270 ft^3/s (7.65 m^3/s), 282 ft^3/s (7.99 m^3/s) May 3, gage height, 2.90 ft (0.884 m); minimum daily, 5.4 ft^3/s (0.15 m^3/s) Aug. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	14	15	14	10	16	31	196	145	31	6.7	8.4
2	14	13	16	13	9.8	17	33	211	150	32	6.7	7.5
3	13	12	15	11	9.0	16	38	250	170	32	6.4	7.5
4	13	12	15	9.6	9.8	16	30	175	130	31	6.2	6.8
5	13	12	15	9.0	10	16	24	155	120	29	5.8	8.6
6	12	12	15	9.4	10	16	30	142	115	18	5.6	12
7	12	12	15	9.4	11	17	42	126	100	20	5.4	11
8	12	12	13	9.5	11	17	22	120	95	17	5.8	10
9	11	11	13	9.5	11	17	26	109	90	15	5.9	12
10	11	11	14	9.5	10	17	29	103	90	17	8.2	14
11	11	11	15	9.4	11	17	30	107	95	16	13	13
12	12	13	15	9.4	12	17	30	100	85	15	12	10
13	17	15	15	9.4	12	17	31	91	65	16	13	11
14	14	13	14	9.0	13	18	35	88	60	14	12	12
15	15	10	15	9.0	14	18	46	89	56	13	10	10
16	15	9.6	16	8.9	15	16	57	93	54	13	11	9.9
17	15	10	16	9.2	17	14	71	90	51	19	10	9.8
18	14	11	16	9.5	18	15	77	85	48	14	9.1	9.8
19	14	11	16	9.8	17	14	82	83	47	13	9.3	9.5
20	14	12	16	9.8	17	11	63	84	45	11	9.0	9.4
21	14	11	16	10	17	12	56	95	42	10	7.9	9.8
22	14	11	15	10	17	17	57	100	39	9.4	10	9.8
23	13	11	14	10	18	20	75	104	37	9.6	9.2	9.8
24	14	11	15	9.8	18	27	101	106	35	11	8.6	10
25	15	13	15	9.6	18	23	131	102	33	11	7.9	11
26	13	13	16	9.6	18	18	149	107	33	10	7.2	11
27	13	14	16	9.8	18	18	143	121	33	9.1	6.8	11
28	14	15	15	10	18	17	147	119	32	7.8	7.5	11
29	17	16	15	10	---	16	158	121	32	8.2	7.5	11
30	17	15	15	10	---	19	184	130	31	7.5	9.1	11
31	14	---	15	10	---	25	---	140	---	7.1	9.2	---
TOTAL	423	366.6	467	306.1	389.6	534	2028	3742	2158	486.7	262.0	307.6
MEAN	13.6	12.2	15.1	9.87	13.9	17.2	67.6	121	71.9	15.7	8.45	10.3
MAX	17	16	16	14	18	27	184	250	170	32	13	14
MIN	11	9.6	13	8.9	9.0	11	22	83	31	7.1	5.4	6.8
AC-FT	839	727	926	607	773	1060	4020	7420	4280	965	520	610

CAL YR 1980 TOTAL 31535.3 MEAN 86.2 MAX 950 MIN 9.0 AC-FT 62550
WTR YR 1981 TOTAL 11470.6 MEAN 31.4 MAX 250 MIN 5.4 AC-FT 22750

09310600 ECCLES CANYON NEAR SCOFIELD, UTAH

LOCATION.--Lat 39°41'07", long 111°09'22", in NW¼SW¼SE¼ sec.17, T.13 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on left bank about 0.4 mi (0.6 km) upstream from State Highway 96, 2.9 mi (4.7 km) south of Scofield.

DRAINAGE AREA.--5.5 mi^2 (14.24 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 7,980 ft (2,432 m) from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46 ft^3/s (1.30 m^3/s) June 11, 1981, gage height, 1.26 ft (0.384 m); minimum, 0.62 ft^3/s (0.018 m^3/s) Jan. 10, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11 ft^3/s (0.312 m^3/s) May 3, gage height, 0.76 ft (0.232 m); minimum daily, 0.96 ft^3/s (0.027 m^3/s) Jan. 30, Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.6	1.4	1.3	.98	1.3	1.6	4.2	3.5	1.4	1.3	1.1
2	1.5	1.6	1.4	1.3	.96	1.3	1.5	4.4	3.3	1.4	1.3	1.1
3	1.4	1.6	1.5	1.3	1.0	1.3	1.5	5.6	3.3	1.3	1.5	1.2
4	1.4	1.6	1.4	1.3	1.1	1.4	1.3	3.5	2.9	1.4	1.3	1.1
5	1.4	1.6	1.5	1.2	1.1	1.4	1.5	3.2	2.8	1.4	1.3	1.5
6	1.5	1.6	1.3	1.0	1.1	1.3	1.7	3.3	2.7	1.5	1.4	1.3
7	1.5	1.5	1.2	1.1	1.1	1.3	1.7	2.8	2.7	1.4	1.5	1.2
8	1.4	1.5	1.2	1.1	1.1	1.3	1.6	2.9	2.4	1.4	1.4	1.7
9	1.5	1.5	1.3	1.2	1.1	1.3	1.9	2.6	2.5	1.5	1.4	2.0
10	1.6	1.4	1.1	1.1	1.1	1.3	2.1	2.7	2.4	1.5	1.9	1.4
11	1.6	1.6	1.1	1.2	1.1	1.2	2.1	2.6	2.2	1.5	1.8	1.4
12	2.1	2.0	1.2	1.2	1.2	1.4	2.1	2.4	2.0	1.2	1.7	1.3
13	2.0	1.7	1.4	1.2	1.1	1.3	2.2	2.3	2.0	1.4	1.8	1.3
14	1.8	1.4	1.2	1.2	1.2	1.4	2.1	2.5	2.0	1.4	1.2	1.2
15	2.0	1.1	1.4	1.2	1.2	1.5	2.7	2.5	2.0	1.2	1.3	1.2
16	1.7	1.1	1.6	1.2	1.3	1.4	2.7	2.5	1.7	1.3	1.1	1.1
17	1.7	1.2	1.4	1.1	1.3	1.3	3.3	2.3	1.6	1.4	1.2	1.2
18	1.8	1.2	1.4	1.1	1.3	1.3	3.4	2.1	1.6	1.3	1.3	1.2
19	1.7	1.2	1.3	1.1	1.2	1.3	3.5	2.3	1.6	1.3	1.4	1.2
20	1.8	1.3	1.4	1.1	1.2	1.3	2.3	2.8	1.5	1.2	1.2	1.2
21	1.7	1.2	1.4	1.2	1.2	1.4	2.3	3.0	1.5	1.3	1.2	1.2
22	1.8	1.3	1.3	1.2	1.2	1.5	2.6	2.6	1.6	1.1	1.3	1.2
23	1.6	1.3	1.3	1.2	1.2	1.6	2.9	2.5	1.5	1.4	1.1	1.3
24	1.5	1.3	1.3	1.2	1.2	1.6	3.8	2.6	1.3	1.6	1.2	1.4
25	1.5	1.4	1.2	1.2	1.2	1.5	4.2	2.5	1.3	1.3	1.1	1.4
26	1.5	1.5	1.1	1.2	1.2	1.4	3.8	3.1	1.3	1.3	1.2	1.3
27	1.5	1.5	1.1	1.2	1.2	1.4	3.7	3.4	1.4	1.4	1.3	1.4
28	1.5	1.6	1.2	1.2	1.3	1.5	3.4	3.7	1.2	1.2	1.1	1.4
29	1.6	1.5	1.2	1.1	---	1.5	3.6	3.7	1.2	1.2	1.1	1.5
30	1.7	1.5	1.2	.96	---	1.4	3.8	3.6	1.3	1.2	1.2	1.3
31	1.7	---	1.3	.97	---	1.3	---	3.4	---	1.4	1.2	---
TOTAL	50.6	43.4	40.3	36.13	32.44	42.7	76.9	93.6	60.3	41.8	41.3	39.3
MEAN	1.63	1.45	1.30	1.17	1.16	1.38	2.56	3.02	2.01	1.35	1.33	1.31
MAX	2.1	2.0	1.6	1.3	1.3	1.6	4.2	5.6	3.5	1.6	1.9	2.0
MIN	1.4	1.1	1.1	.96	.96	1.2	1.3	2.1	1.2	1.1	1.1	1.1
AC-FT	100	86	80	72	64	85	153	186	120	83	82	78

CAL YR 1980 TOTAL 1513.03 MEAN 4.13 MAX 35 MIN .62 AC-FT 3000
WTR YR 1981 TOTAL 598.77 MEAN 1.64 MAX 5.6 MIN .96 AC-FT 1190

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, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
16...	1200	1.8	540	8.1	.0	3.5	9.5	98	.44	280	33
NOV											
13...	1415	1.6	530	8.5	-2.0	3.0	9.8	97	--	270	6
DEC											
05...	1400	1.6	550	8.1	-1.0	2.5	10.0	99	--	280	29
JAN											
13...	1430	1.1	570	8.4	-2.0	1.5	10.2	97	.54	290	33
FEB											
14...	1445	1.3	570	8.2	7.0	3.0	10.2	97	--	300	16
MAR											
12...	1130	1.2	570	8.3	3.0	2.5	9.0	98	--	290	29
APR											
14...	1445	2.3	495	8.4	12.0	7.0	9.1	99	1.2	250	0
MAY											
19...	1145	2.0	460	8.4	12.0	6.5	9.2	100	--	240	25
JUN											
29...	1245	1.3	500	8.4	23.0	14.0	7.9	100	--	270	40
JUL											
10...	1130	1.5	530	8.3	22.0	13.0	8.2	103	1.0	280	59
AUG											
10...	1415	1.3	880	8.3	15.0	11.5	7.9	96	--	440	170
SEP											
02...	1200	1.2	570	8.3	21.0	9.5	8.6	100	--	310	64
02...	1515	1.1	530	8.5	22.5	12.0	7.6	--	--	300	--

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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY FIELD (MG/L AS CACO3)
OCT										
16...	--	72	25	4.3	3	.1	2.3	310	0	250
NOV										
13...	--	67	24	3.7	3	.1	2.6	310	6	260
DEC										
05...	--	69	26	5.3	4	.1	2.0	300	0	250
JAN										
13...	--	73	27	4.2	3	.1	2.1	310	5	260
FEB										
14...	--	74	27	12	8	.3	2.3	340	0	280
MAR										
12...	--	73	26	6.7	5	.2	2.2	320	0	260
APR										
14...	52	66	21	10	8	.3	2.1	360	3	300
MAY										
19...	25	65	20	4.3	4	.1	1.7	260	2	220
JUN										
29...	60	67	25	4.9	4	.1	2.0	270	4	230
JUL										
10...	--	69	26	4.7	4	.1	2.3	270	0	220
AUG										
10...	210	80	58	9.7	5	.2	3.1	330	0	270
SEP										
02...	--	76	28	4.3	3	.1	2.5	300	0	250
02...	--	73	28	4.2	3	.1	2.5	--	--	--

09310600 ECCLES CANYON NEAR SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALKALINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	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										
16...	250	3.9	38	6.6	.2	6.7	256	306	.35	1.2
NOV										
13...	--	1.6	38	9.4	.2	6.4	256	308	.35	1.1
DEC										
05...	--	3.8	38	8.4	.2	6.5	300	306	.41	1.3
JAN										
13...	--	2.0	45	5.8	.2	6.6	316	321	.43	.94
FEB										
14...	--	3.4	43	11	.2	7.4	327	345	.44	1.2
MAR										
12...	--	2.6	42	9.7	.2	6.8	309	323	.42	1.0
APR										
14...	200	1.6	35	14	.3	6.2	278	277	.38	1.7
MAY										
19...	220	1.7	32	5.5	.1	5.8	260	267	.35	1.4
JUN										
29...	210	1.6	39	6.4	.1	7.2	268	278	.36	.94
JUL										
10...	--	2.2	52	10	.2	7.5	294	304	.40	1.2
AUG										
10...	230	2.6	57	110	.2	7.8	427	492	.58	1.5
SEP										
02...	--	2.4	47	6.8	.6	7.9	316	321	.43	1.0
02...	--	--	49	7.3	.1	8.3	332	--	.45	.98

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (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)	NITROGEN, TOTAL (MG/L AS N)
OCT							
16...	.000	.00	.86	.86	.49	.37	--
NOV							
13...	--	--	--	--	--	--	--
DEC							
05...	--	--	--	--	--	--	--
JAN							
13...	.070	.08	.55	.62	.20	.42	.74
FEB							
14...	--	--	--	--	--	--	--
MAR							
12...	--	--	--	--	--	--	--
APR							
14...	.040	--	2.3	2.30	1.5	.85	--
MAY							
19...	--	--	--	--	--	--	--
JUN							
29...	--	--	--	--	--	--	--
JUL							
10...	.040	--	.52	.56	.00	1.0	--

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (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)	POTASSIUM 40 DISSOLVED (PCI/L AS K40)
OCT							
16...	--	.07	--	.090	.28	.050	1.7
NOV							
13...	--	--	--	--	--	--	1.9
DEC							
05...	--	--	--	--	--	--	1.5
JAN							
13...	.12	.12	3.3	.120	.37	.020	--
FEB							
14...	--	--	--	--	--	--	1.7
MAR							
12...	--	--	--	--	--	--	1.6
APR							
14...	--	.32	--	.860	2.6	.030	1.6
MAY							
19...	--	--	--	--	--	--	1.3
JUN							
29...	--	--	--	--	--	--	1.5
JUL							
10...	--	.01	--	.080	.25	.020	1.7

09310600 ECCLES CANYON NEAR SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
OCT 16...	1200	--	--	--	100	50	50	--	--	20	--	--
NOV 13...	1415	--	--	--	--	--	--	--	--	30	--	--
DEC 05...	1400	--	--	--	--	--	--	--	--	50	--	--
JAN 13...	1430	--	--	--	--	--	--	--	--	30	--	--
FEB 14...	1445	--	--	--	--	--	--	--	--	20	--	--
MAR 12...	1130	--	--	--	--	--	--	--	--	10	--	--
APR 14...	1445	--	--	--	300	200	100	--	--	200	--	--
MAY 19...	1145	1	1	0	--	--	--	0	<1	10	0	<1
JUN 29...	1245	--	--	--	--	--	--	--	--	30	--	--
JUL 10...	1130	--	--	--	--	--	--	--	--	110	--	--
AUG 10...	1415	1	0	1	--	--	--	0	<1	3600	0	<1
SEP 02...	1200	--	--	--	--	--	--	--	--	30	--	--
02...	1515	--	--	--	--	--	--	--	--	20	--	--

DATE	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (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)
OCT 16...	--	--	--	--	--	--	1300	--	<10	--	--
NOV 13...	--	--	--	--	--	--	5700	5700	10	--	--
DEC 05...	--	--	--	--	--	--	1300	--	<10	--	--
JAN 13...	--	--	--	--	--	--	540	530	10	--	--
FEB 14...	--	--	--	--	--	--	3200	3200	10	--	--
MAR 12...	--	--	--	--	--	--	1100	--	<10	--	--
APR 14...	--	--	--	--	--	--	13000	13000	10	--	--
MAY 19...	10	0	10	4	1	3	720	710	10	5	1
JUN 29...	--	--	--	--	--	--	610	590	20	--	--
JUL 10...	--	--	--	--	--	--	750	730	20	--	--
AUG 10...	10	10	0	14	11	3	8000	--	<10	7	6
SEP 02...	--	--	--	--	--	--	2600	--	<10	--	--
02...	--	--	--	--	--	--	4600	4400	200	--	--

09310600 ECCLES CANYON NEAR SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
OCT											
16...	--	10	0	10	120	40	80	--	--	--	--
NOV											
13...	--	--	--	--	310	230	80	--	--	--	--
DEC											
05...	--	--	--	--	110	50	60	--	--	--	--
JAN											
13...	--	--	--	--	90	20	70	--	--	--	--
FEB											
14...	--	--	--	--	170	90	80	--	--	--	--
MAR											
12...	--	--	--	--	110	30	80	--	--	--	--
APR											
14...	--	20	10	10	510	440	70	--	--	--	--
MAY											
19...	4	--	--	--	80	30	50	.2	.2	.0	2
JUN											
29...	--	--	--	--	70	20	50	--	--	--	--
JUL											
10...	--	--	--	--	70	20	50	--	--	--	--
AUG											
10...	1	--	--	--	340	260	82	.1	.1	.0	12
SEP											
02...	--	--	--	--	170	80	88	--	--	--	--
02...	--	--	--	--	210	130	85	--	--	--	--

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)
OCT											
16...	--	--	--	--	--	140	--	<3	--	--	--
NOV											
13...	--	--	--	--	--	--	--	--	--	--	--
DEC											
05...	--	--	--	--	--	--	--	--	--	--	--
JAN											
13...	--	--	--	--	--	--	--	--	--	--	--
FEB											
14...	--	--	--	--	--	--	--	--	--	--	--
MAR											
12...	--	--	--	--	--	--	--	--	--	--	--
APR											
14...	--	--	--	--	--	200	20	180	--	--	--
MAY											
19...	1	1	0	0	0	--	--	--	10	4	6
JUN											
29...	--	--	--	--	--	--	--	--	--	--	--
JUL											
10...	--	--	--	--	--	--	--	--	--	--	--
AUG											
10...	11	1	0	0	0	--	--	--	80	70	11
SEP											
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--

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)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L)
OCT						
16...	1200	4.9	1.6	.00	0	0
JAN						
13...	1430	5.8	.2	.00	0	--
APR						
14...	1445	2.3	>4.0	.00	5	--
JUL						
10...	1130	1.5	.3	.01	--	--

DATE	TIME	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)
AUG							
10...	1415	<12	26	<5.9	18	<5.8	17

09310600 ECCLES CANYON NEAR SCOFIELD, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	JUN 29,81		JUL 10,81		AUG 10,81		SEP 2,81	
TIME	1615		1130		1415		1200	
TOTAL CELLS/ML	170		150		1700		230	
DIVERSITY: DIVISION	0.0		0.0		1.0		0.0	
.CLASS	0.0		0.0		1.0		0.0	
..ORDER	0.0		0.0		1.0		0.0	
...FAMILY	2.0		1.3		2.3		1.2	
....GENUS	2.0		1.3		2.4		1.2	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...SCENEDESMACEAE								
....SCENEDESMUS	--	-	--	-	27	2	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	27	2	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	14	1	--	-
....COCCONEIS	--	-	--	-	14	1	--	-
....RHOICOSPHENIA	13	8	--	-	--	-	--	-
...CYMBELLACEAE								
....CYMBELLA	26a	15	--	-	14	1	--	-
...FRAGILARIACEAE								
....SYNEDRA	13	8	--	-	27	2	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	--	-	14	1	43a	19
...NAVICULACEAE								
....CALONEIS	--	-	--	-	14	1	--	-
....NAVICULA	39a	23	77a	50	470a	27	160a	69
...NITZSCHIACEAE								
....NITZSCHIA	77a	46	64a	42	550a	32	--	-
...SURIRELLACEAE								
....SURIRELLA	--	-	13	8	150	9	29	13
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..OSCILLATORIALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	--	-	400a	23	--	-

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organism, may not have been counted: Less than 1/2 percent.

09310600 ECCLES CANYON NEAR SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)
NOV						
13...	1415	1.73	1.42	.910	.000	341
JUL						
10...	1130	.709	.472	.050	.000	4740
AUG						
10...	1415	36.3	34.4	15.3	.000	124
SEP						
02...	1200	2.05	1.58	.280	<.010	1680

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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					
16...	1200	1.8	3.5	140	.68
NOV					
13...	1415	1.6	3.0	426	1.8
DEC					
05...	1400	1.6	2.5	74	.32
JAN					
13...	1430	1.1	1.5	10	.03
FEB					
14...	1445	1.3	3.0	214	.75
MAR					
12...	1130	1.2	2.5	75	.24
APR					
14...	1445	2.3	7.0	827	5.1
MAY					
02...	1630	4.0	8.5	636	6.9
19...	1145	2.0	6.5	85	.46
JUN					
10...	1045	2.2	11.0	100	.59
29...	1245	1.3	14.0	60	.21
JUL					
10...	1130	1.5	13.0	64	.26
AUG					
10...	1415	1.3	11.5	650	2.3
SEP					
02...	1200	1.2	9.5	311	1.0

PARTICLE-SIZE DISTRIBUTION OF SURFACE-BED MATERIAL, WATER YEAR 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
JUN							
29...	1245	1.3	14.0	11	21	35	45

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
JUN						
29...	49	54	62	78	98	100

09310700 MUD CREEK BELOW WINTER QUARTERS CANYON, AT SCOFIELD, UTAH

LOCATION.--Lat 39°43'18", long 111°09'38", in SW¼NE¼ sec.5, T.13 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on left bank 1.3 mi (2.1 km) upstream from mouth, 0.1 mi (0.2 km) below Winter Quarters Canyon, 0.2 mi (0.3 km) upstream from Scofield.

DRAINAGE AREA.--29.1 mi^2 (75.4 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,720 ft (2,353 m) from topographic map.

REMARKS.--Records good except those for winter periods, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 145 ft^3/s (4.11 m^3/s) May 23, 1980; minimum, 1.4 ft^3/s (0.040 m^3/s) Sept. 8, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 74 ft^3/s (2.10 m^3/s) Aug. 10, gage height, 1.34 ft (0.408 m); minimum, 1.8 ft^3/s (0.051 m^3/s) Aug. 1, 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	5.0	5.0	3.9	3.3	3.9	5.8	13	15	4.8	2.4	3.1
2	4.7	5.1	5.2	3.9	3.3	4.0	5.8	14	15	5.1	2.5	2.9
3	4.7	5.1	5.2	3.9	3.3	4.1	5.8	18	15	4.4	2.6	2.8
4	4.6	5.1	5.2	3.9	3.3	4.1	5.9	12	13	4.0	2.3	2.6
5	4.6	5.3	5.1	3.9	3.4	4.1	5.9	10	12	3.8	2.3	5.2
6	4.7	5.1	5.0	3.8	3.5	4.1	5.9	11	12	3.5	2.5	4.7
7	4.7	5.1	5.0	3.8	3.6	4.2	6.0	8.7	11	3.6	2.6	3.7
8	4.7	5.2	4.8	3.8	3.6	4.3	6.0	9.1	9.6	3.1	2.7	5.0
9	4.5	4.9	4.7	3.7	3.5	4.4	6.9	8.1	9.3	3.1	2.8	8.6
10	4.7	4.7	4.6	3.7	3.5	4.5	8.2	8.5	8.5	3.7	10	5.5
11	4.8	5.1	4.5	3.7	3.5	4.6	9.5	9.9	7.9	4.7	8.8	4.2
12	6.5	6.5	4.5	3.7	3.5	4.6	10	8.9	7.2	5.0	6.1	4.2
13	7.1	5.6	4.4	3.7	3.5	4.7	11	8.4	7.2	4.5	6.6	4.3
14	6.2	3.8	4.3	3.7	3.5	4.7	11	9.1	7.4	3.9	4.7	3.8
15	7.7	3.7	4.3	3.7	3.5	4.8	12	10	6.9	3.4	5.2	3.2
16	6.7	3.7	4.2	3.7	3.5	4.8	12	10	6.5	3.3	4.0	3.1
17	6.2	3.7	4.2	3.7	3.6	4.8	12	9.3	5.9	4.0	3.4	3.1
18	6.3	3.8	4.2	3.6	3.6	4.9	12	9.4	5.7	3.2	3.4	2.8
19	6.3	3.9	4.2	3.6	3.6	4.9	14	9.5	5.5	3.0	3.5	2.9
20	6.2	4.1	4.2	3.6	3.6	5.0	9.5	11	5.3	2.7	3.0	2.9
21	6.2	4.2	4.1	3.5	3.7	5.1	8.7	12	4.9	2.8	2.9	3.0
22	6.1	4.3	4.1	3.5	3.8	5.1	9.1	10	5.4	2.5	4.5	2.9
23	5.4	4.4	4.1	3.5	3.8	5.2	9.9	9.1	5.0	2.7	3.4	3.0
24	5.6	4.4	4.1	3.5	3.7	5.2	12	9.1	4.8	3.5	3.5	3.3
25	5.7	4.5	4.1	3.4	3.7	5.3	13	10	4.5	3.1	2.9	3.4
26	5.7	4.6	4.1	3.4	3.7	5.4	13	12	4.4	2.8	2.9	3.2
27	6.0	4.7	4.1	3.4	3.7	5.4	11	16	4.5	2.6	3.3	2.9
28	5.8	4.8	4.1	3.4	3.8	5.5	9.8	16	4.6	2.5	3.1	3.0
29	5.6	4.9	4.0	3.4	---	5.6	10	16	4.6	2.4	3.1	3.2
30	5.4	5.0	4.0	3.3	---	5.6	12	17	4.6	2.3	4.2	3.0
31	5.1	---	3.9	3.3	---	5.7	---	16	---	2.3	3.8	---
TOTAL	173.6	140.3	137.5	112.6	99.6	148.6	283.7	351.1	233.2	106.3	119.0	109.5
MEAN	5.60	4.68	4.44	3.63	3.56	4.79	9.46	11.3	7.77	3.43	3.84	3.65
MAX	7.7	6.5	5.2	3.9	3.8	5.7	14	18	15	5.1	10	8.6
MIN	4.5	3.7	3.9	3.3	3.3	3.9	5.8	8.1	4.4	2.3	2.3	2.6
AC-FT	344	278	273	223	198	295	563	696	463	211	236	217

CAL YR 1980 TOTAL 6959.1 MEAN 19.0 MAX 145 MIN 1.6 AC-FT 13800
WTR YR 1981 TOTAL 2015.0 MEAN 5.52 MAX 18 MIN 2.3 AC-FT 4000

09310700 MUD CREEK BELOW WINTER QUARTER CANYON, AT SCOFIELD, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to current year.
SEDIMENT DATA: December 1978 to current year, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
16...	1345	6.9	560	8.3	2.5	7.5	9.2	102	.39	300	46
NOV											
13...	1115	5.5	610	8.4	-2.0	1.0	10.7	99	--	300	27
DEC											
05...	1730	5.1	570	8.2	-2.0	.0	10.8	98	--	290	37
JAN											
13...	1215	3.4	600	8.2	5.5	.0	11.0	99	.77	310	48
FEB											
14...	1215	3.8	620	8.2	7.0	.0	10.6	95	--	310	53
MAR											
12...	1500	4.5	580	8.3	6.5	1.0	10.7	99	--	330	77
APR											
14...	1145	9.2	500	8.4	16.0	6.5	10.2	108	.52	240	33
MAY											
19...	1500	9.8	460	8.3	13.0	9.5	9.2	106	--	250	46
JUN											
29...	1615	4.6	530	8.4	26.0	23.0	7.3	111	--	270	48
JUL											
10...	1445	3.6	490	8.4	27.0	23.0	7.8	118	--	--	--
AUG											
10...	1215	3.5	490	8.4	21.0	18.5	9.1	126	--	260	59
SEP											
02...	1500	3.0	540	8.4	22.5	20.0	8.4	122	--	280	53
02...	1645	2.9	510	8.6	25.0	21.0	7.0	--	--	270	--

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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY FIELD (MG/L AS CACO3)
OCT										
16...	--	78	25	8.4	6	.2	2.7	310	0	260
NOV										
13...	--	71	29	6.9	5	.2	4.7	330	2	270
DEC										
05...	--	72	26	6.0	4	.2	2.1	300	0	250
JAN										
13...	--	77	28	6.5	4	.2	2.3	320	0	260
FEB										
14...	--	81	27	10	6	.2	2.7	320	0	260
MAR										
12...	--	88	26	7.7	5	.2	2.4	310	0	250
APR										
14...	43	66	19	7.2	6	.2	2.4	250	4	210
MAY										
19...	36	67	19	5.2	4	.1	1.7	240	0	200
JUN										
29...	58	66	25	6.2	5	.2	2.6	260	6	220
JUL										
10...	--	--	--	--	--	--	--	240	4	200
AUG										
10...	--	59	27	5.3	4	.2	2.4	240	4	200
SEP										
02...	--	68	27	6.0	4	.2	2.8	260	8	220
02...	--	65	27	5.7	4	.2	2.9	--	--	--

09310700 MUD CREEK BELOW WINTER QUARTER CANYON, AT SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALKALINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	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 16...	--	2.5	50	14	.2	6.4	303	338	.41	5.6
NOV 13...	--	2.1	46	24	.2	5.8	342	350	.47	5.1
DEC 05...	--	3.0	53	7.7	.2	5.8	314	323	.43	4.3
JAN 13...	--	3.2	64	7.8	.3	6.2	350	349	.48	3.2
FEB 14...	--	3.2	57	11	.2	6.9	351	352	.48	3.6
MAR 12...	--	2.5	54	9.7	.2	6.1	316	345	.43	3.8
APR 14...	200	1.6	42	10	.1	5.6	279	274	.38	6.9
MAY 19...	210	2.1	39	6.4	.1	5.1	261	270	.35	6.9
JUN 29...	210	1.6	47	7.7	.2	7.0	285	288	.39	3.5
JUL 10...	--	1.6	--	--	--	--	--	--	--	--
AUG 10...	--	1.6	46	7.5	.2	5.6	273	273	.37	2.6
SEP 02...	--	1.8	50	10	.6	6.7	299	307	.41	2.4
02...	--	--	50	14	.1	6.6	300	--	.41	2.3

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (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)	NITROGEN, TOTAL (MG/L AS N)
OCT 16...	.000	.00	.65	.65	.26	.39	--
JAN 13...	.040	.05	.84	.88	.20	.68	.95
FEB 14...	--	--	--	--	--	--	--
MAR 12...	--	--	--	--	--	--	--
APR 14...	.070	--	.41	.48	.13	.35	--
MAY 19...	--	--	--	--	--	--	--
JUN 29...	--	--	--	--	--	--	--

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (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)	POTASSIUM 40 DISSOLVED (PCI/L AS K40)
OCT 16...	--	.00	--	.270	.83	.050	--
JAN 13...	.07	.09	4.2	.030	.09	.030	1.7
FEB 14...	--	--	--	--	--	--	2.0
MAR 12...	--	--	--	--	--	--	1.8
APR 14...	--	.17	--	.150	.46	.020	1.8
MAY 19...	--	--	--	--	--	--	1.3
JUN 29...	--	--	--	--	--	--	1.9

09310700 MUD CREEK BELOW WINTER QUARTER CANYON, AT SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
OCT 16...	1345	--	--	--	100	0	100	--	--	60	--
NOV 13...	1115	--	--	--	--	--	--	--	--	80	--
DEC 05...	1730	--	--	--	--	--	--	--	--	180	--
JAN 13...	1215	--	--	--	--	--	--	--	--	40	--
FEB 14...	1215	--	--	--	--	--	--	--	--	20	--
MAR 12...	1500	--	--	--	--	--	--	--	--	30	--
APR 14...	1145	--	--	--	100	50	50	--	--	30	--
MAY 19...	1500	1	1	0	--	--	--	0	<1	10	0
JUN 29...	1615	--	--	--	--	--	--	--	--	40	--
AUG 10...	1215	1	0	1	--	--	--	0	<1	40	0
SEP 02...	1500	--	--	--	--	--	--	--	--	40	--
02...	1645	--	--	--	--	--	--	--	--	40	--

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (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)
OCT 16...	--	--	--	--	--	--	--	2700	2700	20	--
NOV 13...	--	--	--	--	--	--	--	4000	--	<10	--
DEC 05...	--	--	--	--	--	--	--	330	320	10	--
JAN 13...	--	--	--	--	--	--	--	370	350	20	--
FEB 14...	--	--	--	--	--	--	--	350	200	150	--
MAR 12...	--	--	--	--	--	--	--	310	290	20	--
APR 14...	--	--	--	--	--	--	--	2000	--	<10	--
MAY 19...	<1	10	0	10	5	3	2	440	420	20	7
JUN 29...	--	--	--	--	--	--	--	220	200	20	--
AUG 10...	<1	30	20	10	4	2	2	350	--	<10	0
SEP 02...	--	--	--	--	--	--	--	340	--	<10	--
02...	--	--	--	--	--	--	--	500	480	20	--

DATE	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)	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)
OCT 16...	--	--	20	10	10	170	110	60	--	--	--
NOV 13...	--	--	--	--	--	170	120	50	--	--	--
DEC 05...	--	--	--	--	--	50	10	40	--	--	--
JAN 13...	--	--	--	--	--	50	20	30	--	--	--
FEB 14...	--	--	--	--	--	50	10	40	--	--	--
MAR 12...	--	--	--	--	--	50	0	50	--	--	--
APR 14...	--	--	10	1	9	140	70	70	--	--	--
MAY 19...	7	0	--	--	--	50	20	30	.1	.1	.0
JUN 29...	--	--	--	--	--	30	10	20	--	--	--
AUG 10...	0	1	--	--	--	20	7	13	.0	.0	.0
SEP 02...	--	--	--	--	--	30	7	23	--	--	--
02...	--	--	--	--	--	40	20	23	--	--	--

09310700 MUD CREEK BELOW WINTER QUARTER CANYON, AT SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	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, 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, DIS-SOLVED (UG/L AS ZN)
OCT 16...	--	--	--	--	--	--	200	0	220	--	--
NOV 13...	--	--	--	--	--	--	--	--	--	--	--
DEC 05...	--	--	--	--	--	--	--	--	--	--	--
JAN 13...	--	--	--	--	--	--	--	--	--	--	--
FEB 14...	--	--	--	--	--	--	--	--	--	--	--
MAR 12...	--	--	--	--	--	--	--	--	--	--	--
APR 14...	--	--	--	--	--	--	170	0	180	--	--
MAY 19...	3	2	1	0	0	0	--	--	--	20	<3
JUN 29...	--	--	--	--	--	--	--	--	--	--	--
AUG 10...	0	0	0	0	0	0	--	--	--	30	<3
SEP 02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--

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)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L)
OCT 16...	1345	6.1	--	.00	4	0
JAN 13...	1215	8.2	.1	.00	5	--
APR 14...	1145	2.8	1.4	.00	1	--

DATE	TIME	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)
AUG 10...	1215	<6.5	<.4	<4.8	<.4	<4.5	<.4

09310700 MUD CREEK BELOW WINTER QUARTER CANYON, AT SCOFIELD, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	OCT 16,80		JUN 29,81		JUL 10,81		AUG 10,81		SEP 2,81	
TIME	1345		1245		1445		1215		1500	
TOTAL CELLS/ML	1900		300		610		370		290	
DIVERSITY: DIVISION	1.0		1.0		0.6		0.7		0.9	
.CLASS	1.0		1.0		0.6		0.7		0.9	
..ORDER	1.3		1.0		0.6		0.7		0.9	
...FAMILY	2.4		1.4		0.8		1.0		1.9	
....GENUS	2.4		1.4		0.8		1.0		1.9	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...OOCYSTACEAE										
....ANKISTRODESMUS	14	1	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	27	1	--	-	--	-	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	82	4	--	-	13	2	--	-	--	-
....RHOICOSPHENIA	--	-	--	-	13	2	--	-	--	-
...CYMBELLACEAE										
....CYMBELLA	--	-	--	-	13	2	27	7	--	-
....EPITHEMIA	--	-	--	-	--	-	--	-	14	5
...FRAGILARIACEAE										
....SYNEDRA	69	4	26	9	--	-	--	-	14	5
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	--	-	13	2	14	4	57a	20
...NAVICULACEAE										
....NAVICULA	670a	35	77a	26	--	-	--	-	110a	40
...NITZSCHIACEAE										
....NITZSCHIA	300a	15	13	4	26	4	--	-	--	-
...SURIRELLACEAE										
....SURIRELLA	69	4	--	-	--	-	27	7	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..NOSTOCALES										
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	--	-	--	-	86a	30
...SCYTONEMATACEAE										
....PLECTONEMA	620a	32	--	-	--	-	--	-	--	-
..OSCILLATORIALES										
...OSCILLATORIACEAE										
....LYNGBYA	--	-	--	-	--	-	300a	81	--	-
....OSCILLATORIA	96	5	180a	61	530a	87	--	-	--	-

NOTE--(a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organism, may not have been counted: Less than 1/2 percent.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)
NOV 13...	1115	--	--	.180	.000	--
JUL 10...	1445	34.2	32.2	5.59	.000	358
AUG 10...	1215	51.7	46.0	17.5	.000	326
SEP 02...	1500	3.62	2.84	1.82	.540	429

09310700 MUD CREEK BELOW WINTER QUARTER CANYON, AT SCOFIELD, UT--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	COAL IN BOTTOM MATE-RIAL (GM/KG)
OCT						
16...	1345	6.9	7.5	198	3.7	12.0
NOV						
13...	1115	5.5	1.0	261	3.9	--
DEC						
05...	1730	5.1	.0	34	.47	--
JAN						
13...	1215	3.4	.0	14	.13	--
FEB						
14...	1215	3.8	.0	21	.22	--
MAR						
21...	1500	4.5	1.0	72	.87	--
APR						
14...	1145	9.2	6.5	164	4.1	--
MAY						
02...	1400	13	10.0	318	11	--
19...	1500	9.8	9.5	47	1.2	--
JUN						
10...	1415	9.2	20.0	82	2.0	--
29...	1615	4.6	23.0	32	.40	--
JUL						
10...	1445	3.6	23.0	17	.17	--
AUG						
10...	1215	3.5	18.5	61	.58	--
SEP						
02...	1500	3.0	20.0	84	.68	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
JUN							
29...	1615	4.6	23.0	2	5	11	20

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
JUN						
29...	25	33	45	60	80	100

09311000 SCOFIELD RESERVOIR NEAR SCOFIELD, UTAH

LOCATION.--Lat 39°47'15", long 111°07'30", in NW¼SE¼ sec.10, T.12 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on right bank 200 ft (60 m) upstream from face of dam on Price River and 4.7 mi (7.6 km) northeast of Scofield.

DRAINAGE AREA.--154 mi^2 (399 km^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 (240 m) upstream 200 ft (60 m) from old dam at datum 4.51 ft (1.375 m) higher.

REMARKS.--Reservoir is formed by earth and rockfill; rock-faced dam 800 ft (240 m) 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 (81.1 hm^3) between elevations 7,586.0 ft (2,312.3 m) (bottom of outlet works) and 7,617.5 ft (2,321.81 m) (crest of spillway). Dead storage, 8,000 acre-ft (9.87 hm^3) below elevation 7,586.0 ft (2,312.21 m). 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, 76,450 acre-ft (94.3 hm^3) May 31, June 1, 1952; elevation, 7,621.3 ft (2,322.97 m); minimum observed, 280 acre-ft (0.35 hm^3) Oct. 3, 1945; elevation, 7,586.25 ft (2,312.289 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 56,160 acre-ft (69.2 hm^3) May 4-10, elevation, 7,614.0 ft (2,320.75 m); minimum, 29,330 acre-ft (36.2 hm^3) Sept. 30, elevation, 7,603.1 ft (2,317.42 m).

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

7,600	22,750	7,610	45,720
7,605	33,600	7,615	58,870

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47250	47000	47510	48540	49570	50350	51650	55360	55630	49570	39030	31330
2	47250	47000	47510	48540	49570	50350	51650	55630	55630	49310	38790	31100
3	47000	47000	47510	48540	49570	50610	51650	55900	55630	48790	38310	30880
4	47000	47000	47510	48540	49570	50610	51650	56160	55630	48540	38070	30660
5	47000	47000	47510	48790	49570	50610	51650	56160	55630	48280	37830	30660
6	46740	47000	47760	48790	49570	50610	51650	56160	55630	48280	37590	30430
7	46740	47000	47760	48790	49570	50610	51920	56160	55630	48020	37350	30430
8	46740	47000	47760	48790	49570	50870	51920	56160	55360	47510	37120	30210
9	46740	47000	47760	48790	49570	50870	51920	56160	55360	47510	36640	30210
10	46480	47000	47760	48790	49830	50870	51920	56160	55090	47000	36400	30210
11	46480	47000	47760	48790	49830	50870	51920	55900	55090	46480	36400	30430
12	46480	47250	47760	48790	49830	50870	52180	55900	54830	46230	35930	30430
13	46480	47250	47760	48790	49830	50870	52180	55630	54830	45980	35700	30430
14	46230	47250	47760	48790	49830	50870	52180	55630	54560	45720	35700	30430
15	46230	47250	47760	49050	49830	50870	52440	55360	54300	45220	35460	30430
16	46480	47250	47760	49050	49830	50870	52440	55360	54300	44960	35230	30430
17	46480	47250	48020	49050	50090	51130	52710	55360	54030	44710	34990	30430
18	46480	47250	48020	49050	50090	51130	52970	55090	53500	44460	34760	30430
19	46480	47250	48020	49050	50090	51130	52970	55090	53500	44210	34530	30210
20	46480	47250	48280	49050	50090	51130	53230	55090	53230	43710	34300	30210
21	46480	47250	48280	49050	50090	51130	53500	55090	52970	43210	33830	30210
22	46480	47250	48280	49050	50090	51130	53500	55090	52710	42710	33600	30210
23	46480	47250	48280	49050	50090	51130	53760	55090	52440	42460	33370	29990
24	46480	47250	48280	49050	50090	51130	53760	55090	52180	41970	33140	29990
25	46480	47250	48280	49050	50090	51390	54030	55090	51920	41720	32910	29990
26	46480	47250	48280	49310	50350	51390	54300	55090	51390	41230	32690	29770
27	46480	47250	48280	49310	50350	51390	54560	55090	51130	40740	32460	29770
28	46740	47510	48540	49310	50350	51390	54560	55360	50610	40490	32230	29550
29	46740	47510	48540	49310	---	51390	54830	55360	50350	40250	31780	29550
30	46740	47510	48540	49310	---	51390	55090	55360	49830	39760	31780	29330
31	46740	---	48540	49310	---	51650	---	55630	---	39520	31550	---
MAX	47250	47510	48540	49310	50350	51650	55090	56160	55630	49570	39030	31330
MIN	46230	47000	47510	48540	49570	50350	51650	55090	49830	39520	31550	29330
(†)	7610.4	7610.7	7611.1	7611.4	7611.8	7612.3	7613.6	7613.8	7611.6	7607.5	7604.1	7603.1
(‡)	-770	+770	+1030	+770	+1040	+1300	+3440	+540	-5800	-10310	-7970	-2220

CAL YR 1980 . . . . . (‡) +7060
WTR YR 1981 . . . . . (‡) -18180

(†) ELEVATION, IN FEET, AT END OF MONTH
(‡) CHANGE IN CONTENTS, IN ACRE-FEET

09312600 WHITE RIVER BELOW TABBYUNE CREEK, NEAR SOLDIER SUMMIT, UTAH

LOCATION.--Lat 39°52'33", long 111°02'12", in NE¼SE¼SW¼ sec.9, T.11 S., R.8 E., Utah County, Hydrologic Unit 14060007, 50 ft (15 m) downstream from bridge on U.S. Highways 6-50, 1.5 mi (2.4 km) downstream from Tabbyune Creek, 2.5 mi (4.0 km) northwest of the Colton railroad siding, and 4.5 mi (7.2 km) southeast of Soldier Summit.

DRAINAGE AREA.--75.6 mi^2 (195.8 km^2).

PERIOD OF RECORD.--May 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,230 ft (2,204 m) from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--14 years, 27.3 ft^3/s (0.773 m^3/s), 19,780 acre-ft/yr (24.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 458 ft^3/s (12.97 m^3/s) May 14, 1973, gage height, 5.24 ft (1.597 m); no flow many days Aug. and Sept. 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 66 ft^3/s (1.87 m^3/s) Sept. 5, gage height, 2.65 ft (0.808 m) from floodmarks, no peak above base of 100 ft^3/s (2.83 m^3/s); minimum, 0.90 ft^3/s (0.025 m^3/s) Aug. 21, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	6.5	5.0	5.4	5.0	7.0	7.1	37	42	13	2.7	1.4
2	5.7	6.4	5.4	5.3	4.6	7.5	8.0	36	42	13	2.4	1.3
3	5.7	6.2	4.7	5.0	4.7	7.4	8.8	45	42	12	2.2	1.3
4	5.7	6.2	4.7	4.5	4.5	7.5	7.0	38	38	11	1.9	1.2
5	5.7	6.1	4.1	4.0	4.5	7.5	6.5	35	36	10	1.6	10
6	5.7	6.1	3.5	4.2	4.6	7.7	11	35	34	9.8	1.4	4.0
7	5.7	6.0	3.0	4.5	4.6	8.0	14	32	33	10	1.4	2.0
8	5.4	5.9	2.9	4.7	4.7	8.0	11	31	31	9.1	1.3	6.0
9	5.3	5.8	2.7	4.5	4.7	8.4	13	30	30	9.0	1.2	3.0
10	5.2	5.8	2.7	4.7	4.5	8.4	21	27	28	9.5	2.9	2.2
11	5.4	5.9	2.8	4.6	4.7	8.4	26	28	27	9.0	8.0	2.2
12	5.8	6.9	3.0	4.7	5.1	8.4	26	26	26	9.2	3.1	2.2
13	8.6	6.0	3.3	4.8	5.4	8.5	28	24	25	10	3.3	4.0
14	7.2	5.0	3.0	4.6	6.0	9.0	29	22	25	8.6	3.9	2.3
15	11	5.1	3.1	4.6	6.0	9.0	36	24	24	7.9	2.2	2.3
16	8.8	5.1	3.7	4.5	6.5	9.0	38	26	22	7.6	2.2	2.3
17	8.3	5.3	4.0	4.5	6.5	6.9	39	23	21	9.6	1.8	2.3
18	8.0	5.4	3.8	4.7	6.8	8.8	42	21	20	7.6	1.5	2.3
19	8.5	5.4	3.7	4.8	6.8	6.6	55	20	19	6.6	1.3	2.3
20	8.3	5.5	3.7	4.8	6.8	3.4	46	21	18	5.8	1.3	2.3
21	8.0	5.4	3.8	5.0	7.0	3.6	41	26	17	5.2	1.0	3.0
22	7.6	5.2	3.7	5.5	7.0	8.8	39	27	16	4.8	1.8	2.4
23	6.9	5.2	3.7	5.5	7.5	8.8	40	27	16	4.5	3.3	5.0
24	6.4	5.0	4.3	5.3	7.5	7.8	43	27	14	5.4	3.0	2.5
25	6.6	4.5	4.3	5.0	7.4	7.4	44	27	14	5.3	2.0	2.5
26	7.2	4.4	4.8	5.2	7.4	7.2	46	29	13	4.8	1.4	2.5
27	7.3	4.5	4.8	5.0	7.0	6.7	44	38	13	4.1	2.5	2.5
28	6.6	5.0	4.7	5.2	7.0	5.6	43	37	13	3.8	2.1	2.5
29	6.0	5.5	5.0	5.0	---	5.6	41	41	13	3.6	1.5	2.5
30	6.4	5.3	5.4	5.0	---	8.9	39	43	12	3.2	2.0	2.5
31	6.6	---	5.7	5.0	---	6.3	---	44	---	2.9	1.9	---
TOTAL	211.3	166.6	123.0	150.1	164.8	232.1	892.4	947	724	235.9	70.1	84.8
MEAN	6.82	5.55	3.97	4.84	5.89	7.49	29.7	30.5	24.1	7.61	2.26	2.83
MAX	11	6.9	5.7	5.5	7.5	9.0	55	45	42	13	8.0	10
MIN	5.2	4.4	2.7	4.0	4.5	3.4	6.5	20	12	2.9	1.0	1.2
AC-FT	419	330	244	298	327	460	1770	1880	1440	468	139	168

CAL YR 1980 TOTAL 15832.9 MEAN 43.3 MAX 389 MIN 2.7 AC-FT 31400
WTR YR 1981 TOTAL 4002.1 MEAN 11.0 MAX 55 MIN 1.0 AC-FT 7940

09312700 BEAVER CREEK NEAR SOLDIER SUMMIT, UTAH

LOCATION.--Lat 39°49'50", long 110°58'07", in NW¼SW¼SW¼ sec.30, T.11 S., R.9 E., Utah County, Hydrologic Unit 14060007, on left bank 0.5 mi (0.8 km) upstream from mouth, 2.5 mi (4.0 km) southeast of Colton, and 9.1 mi (14.6 km) southeast of Soldier Summit.

DRAINAGE AREA.--26.1 mi^2 (67.6 km^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 (2,195 m) from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--21 years, 3.88 ft^3/s (0.110 m^3/s), 2,810 acre-ft/yr (3.46 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 135 ft^3/s (3.82 m^3/s) May 19, 1973 and May 17, 1979, gage height, 2.71 ft (0.826 m); no flow for many days some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12 ft^3/s (0.340 m^3/s) Apr. 19, gage height, 1.13 ft (0.344 m), no peak above base of 23 ft^3/s (0.651 m^3/s); minimum, no flow at times.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.15	.15	.12	.05	.03	.07	.54	1.8	.20	.10	.01	.01
2	.15	.15	.13	.05	.03	.07	.60	2.0	.28	.07	.01	.01
3	.15	.15	.11	.05	.04	.06	.58	4.1	.27	.07	.01	.01
4	.15	.10	.11	.04	.04	.06	.58	3.3	.20	.07	.01	.01
5	.15	.15	.09	.03	.05	.06	.66	1.8	.15	.07	.01	.03
6	.15	.15	.07	.04	.04	.06	.69	1.4	.15	.07	.01	.03
7	.15	.15	.05	.05	.04	.07	.72	.82	.15	.07	.01	.03
8	.10	.15	.03	.05	.04	.06	.74	.60	.15	.07	.01	.03
9	.10	.15	.05	.04	.04	.07	.82	.49	.10	.07	.01	.03
10	.10	.15	.05	.05	.03	.06	.96	.33	.10	.03	.01	.03
11	.10	.15	.06	.04	.04	.06	1.6	.36	.10	.07	.01	.03
12	.10	.15	.06	.04	.05	.06	1.8	.46	.10	.07	.01	.03
13	.20	.13	.06	.05	.05	.06	2.4	.29	.07	.07	.01	.03
14	.21	.13	.05	.04	.06	.08	3.0	.21	.10	.07	.03	.03
15	.32	.13	.05	.04	.05	.08	6.9	.25	.10	.03	.03	.03
16	.21	.13	.06	.04	.06	.08	5.3	.28	.10	.03	.03	.03
17	.20	.14	.06	.04	.06	.08	5.1	.25	.07	.03	.03	.03
18	.20	.14	.06	.05	.07	.09	4.1	.20	.07	.03	.01	.03
19	.15	.14	.05	.05	.06	.09	8.6	.20	.07	.03	.01	.03
20	.15	.15	.05	.05	.06	.09	4.4	.25	.07	.03	.01	.03
21	.15	.15	.05	.06	.05	.09	3.3	.33	.07	.03	.01	.03
22	.15	.14	.05	.05	.05	.11	2.6	.49	.07	.03	.03	.01
23	.15	.14	.04	.05	.07	.20	2.6	.56	.07	.03	.01	.01
24	.15	.14	.05	.04	.07	.30	3.0	.34	.07	.03	.01	.01
25	.10	.12	.05	.03	.07	.35	5.3	.26	.07	.01	.01	.01
26	.10	.12	.05	.03	.07	.38	4.7	.27	.07	.01	.01	.01
27	.10	.12	.05	.03	.06	.42	2.8	.34	.07	.01	.01	.01
28	.10	.13	.05	.03	.06	.45	2.4	.48	.07	.01	.01	.01
29	.10	.13	.05	.03	---	.48	1.8	.48	.07	.01	.01	.01
30	.10	.13	.05	.03	---	.54	1.8	.30	.07	.01	.01	.01
31	.10	---	.06	.03	---	.52	---	.23	---	.01	.01	---
TOTAL	4.49	4.16	1.92	1.30	1.44	5.25	80.39	23.47	3.30	1.34	.41	.64
MEAN	.14	.14	.062	.042	.051	.17	2.68	.76	.11	.043	.013	.021
MAX	.32	.15	.13	.06	.07	.54	8.6	4.1	.28	.10	.03	.03
MIN	.10	.10	.03	.03	.03	.06	.54	.20	.07	.01	.01	.01
AC-FT	8.9	8.3	3.8	2.6	2.9	10	159	47	6.5	2.7	.8	1.3

CAL YR 1980 TOTAL 2843.81 MEAN 7.77 MAX 90 MIN .03 AC-FT 5640
WTR YR 1981 TOTAL 128.11 MEAN .35 MAX 8.6 MIN .01 AC-FT 254

09312800 WILLOW CREEK NEAR CASTLE GATE, UTAH

LOCATION.--Lat 39°46'37", long 110°47'30", in SW¼SE¼SW¼ sec.15, T.12 S., R.10 E., Carbon County, Hydrologic Unit 14060007, on right bank 130 ft (40 m) upstream from Deep Canyon, 170 ft (52 m) east of State Highway 33, 1.5 mi (2.4 km) downstream from junction with two major tributaries, 5.1 mi (8.2 km) northeast of Castle Gate, 5.4 mi (8.7 km) upstream from mouth, and 12.3 mi (19.8 km) north of Price.

DRAINAGE AREA.--62.8 mi^2 (162.7 km^2).

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,000 ft (2,134 m) from topographic map.

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

AVERAGE DISCHARGE.--19 years, 8.15 ft^3/s (0.231 m^3/s), 5,900 acre-ft/yr (7.27 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 836 ft^3/s (23.7 m^3/s) Aug. 6, 1973, gage height, 6.47 ft (1.972 m) from floodmarks; no flow on many days.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 100 ft^3/s (2.83 m^3/s), and maximum, 207 ft^3/s (5.86 m^3/s) Apr. 9, gage height, 3.38 ft (1.030 m) from floodmarks; minimum daily, 0.68 ft^3/s (0.019 m^3/s) Dec. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	3.5	2.2	2.1	1.4	2.1	4.0	11	7.0	3.0	1.0	1.3
2	3.6	3.5	2.3	2.1	1.0	2.2	8.0	13	7.2	4.0	1.0	1.2
3	3.6	3.2	2.1	2.0	1.3	2.2	7.5	14	7.4	3.0	1.0	1.2
4	3.7	3.4	2.1	1.8	1.3	1.9	4.5	12	6.6	2.5	1.0	1.2
5	3.2	3.3	1.9	1.5	1.3	2.0	4.0	10	6.0	2.4	1.0	9.0
6	3.0	3.4	1.8	1.6	1.3	2.0	12	8.4	5.5	2.5	1.0	3.5
7	2.8	3.5	.70	1.6	1.3	2.1	10	7.3	5.2	2.6	1.0	2.5
8	2.7	3.3	.68	1.6	1.3	2.2	8.5	7.4	4.9	2.2	1.0	5.0
9	2.7	3.1	.68	1.5	1.3	2.3	40	7.6	4.6	2.2	1.0	3.0
10	2.7	3.1	.70	1.5	1.3	2.4	35	7.3	4.4	2.2	8.5	2.0
11	2.7	3.4	1.0	1.4	1.4	2.5	24	7.5	4.2	2.2	5.2	1.8
12	4.8	3.8	1.3	1.4	1.5	2.8	21	7.4	4.0	2.2	4.0	1.8
13	7.5	3.3	1.3	1.4	1.7	3.1	23	7.0	3.9	2.4	3.2	2.2
14	4.9	1.8	1.2	1.4	2.0	4.0	21	6.6	4.1	2.1	2.9	1.8
15	8.7	1.9	1.3	1.4	1.9	4.6	30	7.0	4.1	1.9	2.5	1.7
16	6.7	1.9	1.5	1.4	1.8	5.4	23	7.5	4.0	1.9	2.7	1.5
17	6.0	2.0	1.8	1.4	1.8	4.0	20	7.5	3.8	2.0	2.1	1.5
18	5.8	2.2	1.9	1.5	1.7	3.5	14	7.0	3.6	1.8	1.8	1.4
19	5.1	2.2	2.0	1.5	1.7	3.5	23	6.8	3.5	1.7	1.7	1.4
20	4.5	2.2	2.0	1.5	1.7	3.2	18	7.4	3.3	1.5	1.5	1.4
21	4.3	2.1	2.0	1.5	1.7	3.0	16	8.0	3.2	1.4	1.7	1.4
22	4.2	2.0	2.0	1.5	1.8	4.0	14	7.3	3.0	1.3	3.0	1.4
23	3.4	2.0	1.9	1.5	1.9	7.0	13	6.8	2.9	1.3	1.8	1.4
24	3.2	1.9	2.0	1.4	1.9	7.5	13	6.5	2.9	1.4	1.6	1.5
25	3.4	2.0	2.0	1.4	2.0	5.5	13	6.5	2.8	1.6	1.5	1.4
26	3.9	2.0	2.1	1.4	2.1	4.5	13	7.0	2.8	1.7	1.6	1.3
27	3.7	2.1	2.1	1.4	2.1	4.0	13	7.8	2.8	1.4	1.9	1.3
28	3.3	2.3	2.0	1.4	2.1	4.0	13	7.6	3.0	1.4	1.6	1.2
29	3.3	2.3	2.0	1.4	---	4.0	12	7.4	2.8	1.4	1.5	1.2
30	3.3	2.2	2.0	1.4	---	4.5	12	7.0	2.7	1.3	1.7	1.3
31	3.4	---	2.1	1.4	---	4.0	---	6.8	---	1.2	1.4	---
TOTAL	127.5	78.9	52.66	47.3	45.6	110.0	482.5	248.4	126.2	61.7	64.4	59.8
MEAN	4.11	2.63	1.70	1.53	1.63	3.55	16.1	8.01	4.21	1.99	2.08	1.99
MAX	8.7	3.8	2.3	2.1	2.1	7.5	40	14	7.4	4.0	8.5	9.0
MIN	2.7	1.8	.68	1.4	1.0	1.9	4.0	6.5	2.7	1.2	1.0	1.2
AC-FT	253	156	104	94	90	218	957	493	250	122	128	119

CAL YR 1980 TOTAL 5991.63 MEAN 16.4 MAX 200 MIN .68 AC-FT 11880
WTR YR 1981 TOTAL 1504.96 MEAN 4.12 MAX 40 MIN .68 AC-FT 2990

09312900 WILLOW CREEK AT CASTLE GATE, UTAH

LOCATION.--Lat 39°43'37", long 110°51'41", in SW¼SW¼NE¼ sec.1, T.13 S., R.9 E., Carbon County, Hydrologic Unit 14060007, on right bank 0.1 mi (0.2 km) upstream from Utah Power & Light Co. electrical substation, 0.5 mi (0.8 km) upstream from mouth.

DRAINAGE AREA.--77.4 mi^2 (200.5 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,100 ft (1,859 m) from topographic map.

REMARKS.--Records good except those for winter period, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 210 ft^3/s (5.95 m^3/s) May 23, 1980; minimum daily, 0.60 ft^3/s (0.017 m^3/s) Dec. 13-26, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 189 ft^3/s (5.35 m^3/s) Apr. 9, gage height, 2.48 ft (0.756 m); minimum daily, 1.2 ft^3/s (0.034 m^3/s) Aug. 2-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	3.6	1.5	1.5	1.5	2.3	4.4	14	7.6	3.2	1.3	1.5
2	3.1	3.7	1.4	1.5	1.5	2.4	8.9	15	7.9	5.3	1.2	1.5
3	3.2	3.5	1.4	1.5	1.5	2.3	8.9	16	8.1	3.5	1.2	1.3
4	3.2	3.7	1.4	1.5	1.5	2.1	4.9	13	7.1	2.9	1.2	1.3
5	3.1	3.7	1.3	1.5	1.5	2.0	4.3	12	6.7	2.7	1.2	10
6	3.1	3.7	1.3	1.5	1.5	2.0	14	12	6.4	2.7	1.2	3.9
7	3.1	3.6	1.3	1.5	1.5	2.1	11	11	6.1	2.9	1.2	2.6
8	3.2	3.6	1.3	1.5	1.5	2.3	9.6	11	5.8	2.4	1.2	5.8
9	3.1	3.4	1.3	1.5	1.5	2.7	40	10	5.5	2.4	1.2	3.3
10	3.1	3.4	1.3	1.5	1.5	3.0	35	9.9	5.3	2.4	10	2.3
11	3.2	3.6	1.3	1.5	1.5	3.0	27	9.5	5.2	2.4	7.0	2.2
12	4.7	3.6	1.3	1.5	1.8	2.9	24	9.1	4.9	2.4	5.0	1.9
13	6.6	3.8	1.3	1.5	2.5	4.2	26	8.6	4.9	2.7	3.6	2.5
14	5.4	2.8	1.3	1.5	2.3	4.8	24	8.2	4.8	2.3	3.1	2.4
15	8.4	2.4	1.3	1.5	2.0	5.2	32	8.4	5.0	2.2	2.8	1.8
16	6.6	2.2	1.3	1.5	2.0	6.6	25	8.7	4.7	2.0	3.2	1.7
17	5.6	2.1	1.3	1.5	1.9	4.6	21	7.9	4.5	2.3	2.3	1.6
18	5.4	2.0	1.3	1.5	1.9	4.0	18	7.6	4.4	2.0	2.1	1.5
19	5.4	1.9	1.3	1.5	1.9	3.7	26	7.1	4.2	1.9	1.8	1.5
20	5.0	1.9	1.3	1.5	1.9	3.7	20	7.9	3.9	1.7	1.7	1.4
21	4.6	1.9	1.3	1.5	1.9	3.2	18	9.8	3.8	1.6	1.8	1.5
22	4.7	1.8	1.3	1.5	1.9	4.6	17	8.3	3.6	1.5	4.0	1.4
23	3.7	1.7	1.3	1.5	2.0	7.9	16	7.4	3.5	1.4	2.2	1.4
24	3.6	1.7	1.3	1.5	2.1	8.2	16	7.2	3.4	1.7	1.9	1.7
25	3.7	1.6	1.4	1.5	2.2	6.8	16	7.1	3.3	1.9	1.8	1.6
26	4.0	1.6	1.4	1.5	2.2	5.6	16	7.7	3.2	2.0	1.8	1.6
27	3.8	1.6	1.4	1.5	2.2	4.3	16	9.2	3.1	1.6	2.2	1.4
28	3.5	1.5	1.4	1.5	2.2	4.3	16	8.1	3.5	1.5	2.2	1.4
29	3.4	1.5	1.4	1.5	---	4.4	15	7.9	3.2	1.5	1.6	1.3
30	3.5	1.5	1.4	1.5	---	5.4	15	7.7	3.0	1.5	2.0	1.4
31	3.6	---	1.4	1.5	---	4.2	---	7.4	---	1.4	1.8	---
TOTAL	129.8	78.6	41.5	46.5	51.4	124.8	545.0	294.7	146.6	69.9	76.8	66.7
MEAN	4.19	2.62	1.34	1.50	1.84	4.03	18.2	9.51	4.89	2.25	2.48	2.22
MAX	8.4	3.8	1.5	1.5	2.5	8.2	40	16	8.1	5.3	10	10
MIN	3.1	1.5	1.3	1.5	1.5	2.0	4.3	7.1	3.0	1.4	1.2	1.3
AC-FT	257	156	82	92	102	248	1080	585	291	139	152	132

CAL YR 1980	TOTAL	6466.30	MEAN 17.7	MAX 210	MIN .72	AC-FT	12830
WTR YR 1981	TOTAL	1672.30	MEAN 4.58	MAX 40	MIN 1.2	AC-FT	3320

09312900 WILLOW CREEK AT CASTLE GATE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1979 to current year.
SEDIMENT DATA: December 1979 to current year, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
19...	1645	4.7	900	8.5	10.0	9.0	8.9	97	.40	350	33
NOV											
13...	1615	4.0	1000	8.7	1.0	4.0	10.2	96	--	340	51
DEC											
06...	1130	1.0	1060	8.4	.5	.0	11.8	101	--	380	74
JAN											
14...	1115	1.4	1220	8.4	-3.0	1.0	11.6	100	.31	470	120
FEB											
15...	1045	1.3	1080	8.4	3.0	.0	11.8	99	--	430	110
MAR											
13...	1130	3.8	970	8.6	2.5	2.5	9.3	101	--	310	31
APR											
15...	1800	42	450	8.6	8.5	8.0	9.8	102	.74	180	0
MAY											
01...	1215	15	710	8.6	24.0	14.0	8.5	102	--	270	11
JUN											
30...	1200	3.1	780	8.7	29.0	19.5	7.4	99	--	290	48
JUL											
13...	1615	2.7	880	8.7	28.5	27.0	6.4	98	.49	270	58
AUG											
15...	1215	2.2	920	8.5	28.0	19.5	7.3	97	--	330	69
SEP											
02...	1250	1.7	960	8.8	26.5	20.5	7.4	--	--	310	--
04...	1115	1.2	980	8.7	25.0	16.0	8.0	100	--	330	93

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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY FIELD (MG/L AS CACO3)
OCT										
19...	--	61	47	72	31	1.7	3.1	370	8	310
NOV										
13...	--	53	51	82	34	1.9	2.8	320	16	290
DEC										
06...	--	63	55	85	32	1.9	2.8	380	2	310
JAN										
14...	--	80	66	91	29	1.8	2.2	420	2	350
FEB										
15...	--	75	58	90	31	1.9	2.3	370	6	320
MAR										
13...	--	55	43	89	38	2.2	2.9	320	10	280
APR										
15...	28	38	20	30	27	1.0	3.0	310	6	270
MAY										
01...	--	51	35	47	27	1.2	1.7	300	9	260
JUN										
30...	68	38	47	70	34	1.8	2.3	270	12	240
JUL										
13...	--	32	47	71	36	1.9	2.5	230	14	210
AUG										
15...	--	50	49	82	35	2.3	3.1	300	9	260
SEP										
02...	--	41	51	87	37	2.5	3.4	--	--	--
04...	--	43	53	90	37	2.5	3.1	260	14	240

09312900 WILLOW CREEK AT CASTLE GATE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALKALINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	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...	--	2.0	170	28	.3	12	540	585	.73	6.9
NOV										
13...	--	1.1	180	29	.3	12	591	584	.80	6.4
DEC										
06...	--	2.4	210	30	.3	11	652	644	.89	1.8
JAN										
14...	--	2.7	260	23	.3	14	749	747	1.0	2.8
FEB										
15...	--	2.4	240	27	.3	12	670	697	.91	2.4
MAR										
13...	--	1.4	220	32	.2	9.3	599	619	.81	6.2
APR										
15...	150	.7	73	11	.2	6.8	279	274	.38	31.6
MAY										
01...	--	1.3	110	13	.2	14	414	428	.56	16.8
JUN										
30...	220	.9	160	23	.2	11	476	497	.65	4.0
JUL										
13...	--	.8	180	22	.2	9.9	486	492	.66	3.5
AUG										
15...	--	1.6	220	29	.2	14	561	604	.76	3.3
SEP										
02...	--	--	220	30	.2	12	578	--	.79	2.6
04...	--	.9	240	30	.5	13	601	615	.82	2.0

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (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)	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)	POTASSIUM 40 DISSOLVED (PCI/L AS K40)
OCT											
19...	.000	.00	1.6	1.60	1.2	.40	.00	.660	2.0	.240	--
JAN											
14...	.030	.04	.47	.50	.22	.28	.03	.020	.06	.000	1.6
FEB											
15...	--	--	--	--	--	--	--	--	--	--	1.7
MAR											
13...	--	--	--	--	--	--	--	--	--	--	2.2
APR											
15...	.350	--	2.8	3.10	2.6	.47	.27	.500	1.5	.140	2.2
MAY											
01...	--	--	--	--	--	--	--	--	--	--	1.3
JUN											
30...	--	--	--	--	--	--	--	--	--	--	1.7
JUL											
13...	.070	--	.48	.55	.06	.49	.00	.030	.09	.010	1.9

DATE	TIME	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)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
OCT											
19...	1645	--	--	--	300	200	100	--	--	90	--
NOV											
13...	1615	--	--	--	--	--	--	--	--	110	--
DEC											
06...	1130	--	--	--	--	--	--	--	--	60	--
JAN											
14...	1115	--	--	--	--	--	--	--	--	90	--
FEB											
15...	1045	--	--	--	--	--	--	--	--	60	--
MAR											
13...	1130	--	--	--	--	--	--	--	--	60	--
APR											
15...	1800	--	--	--	1300	1100	200	--	--	180	--
MAY											
01...	1215	4	1	3	--	--	--	0	<1	70	0
JUN											
30...	1200	--	--	--	--	--	--	--	--	90	--
JUL											
13...	1615	--	--	--	--	--	--	--	--	90	--
AUG											
15...	1215	3	1	2	--	--	--	10	<1	100	0
SEP											
02...	1250	--	--	--	--	--	--	--	--	110	--
04...	1115	--	--	--	--	--	--	--	--	120	--

09312900 WILLOW CREEK AT CASTLE GATE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (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)
OCT											
19...	--	--	--	--	--	--	--	13000	13000	30	--
NOV											
13...	--	--	--	--	--	--	--	730	--	<10	--
DEC											
06...	--	--	--	--	--	--	--	110	--	<10	--
JAN											
14...	--	--	--	--	--	--	--	240	200	40	--
FEB											
15...	--	--	--	--	--	--	--	110	100	10	--
MAR											
13...	--	--	--	--	--	--	--	3800	3800	40	--
APR											
15...	--	--	--	--	--	--	--	44000	44000	80	--
MAY											
01...	<1	20	10	10	6	3	3	1000	--	<10	2
JUN											
30...	--	--	--	--	--	--	--	100	70	30	--
JUL											
13...	--	--	--	--	--	--	--	140	--	<10	--
AUG											
15...	<1	10	10	0	14	12	2	4100	--	<10	9
SEP											
02...	--	--	--	--	--	--	--	290	--	<10	--
04...	--	--	--	--	--	--	--	100	--	<10	--

DATE	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)	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)
OCT											
19...	--	--	60	30	30	490	460	30	--	--	--
NOV											
13...	--	--	--	--	--	40	30	10	--	--	--
DEC											
06...	--	--	--	--	--	30	10	20	--	--	--
JAN											
14...	--	--	--	--	--	30	10	20	--	--	--
FEB											
15...	--	--	--	--	--	30	0	30	--	--	--
MAR											
13...	--	--	--	--	--	130	110	20	--	--	--
APR											
15...	--	--	80	60	20	2300	2300	10	--	--	--
MAY											
01...	0	2	--	--	--	40	40	5	.1	.1	.0
JUN											
30...	--	--	--	--	--	10	7	3	--	--	--
JUL											
13...	--	--	--	--	--	10	8	2	--	--	--
AUG											
15...	7	2	--	--	--	190	190	2	.0	.0	.0
SEP											
02...	--	--	--	--	--	10	6	4	--	--	--
04...	--	--	--	--	--	10	6	4	--	--	--

09312900 WILLOW CREEK AT CASTLE GATE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	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, 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, DIS-SOLVED (UG/L AS ZN)
OCT 19...	--	--	--	--	--	--	670	0	720	--	--
NOV 13...	--	--	--	--	--	--	--	--	--	--	--
DEC 06...	--	--	--	--	--	--	--	--	--	--	--
JAN 14...	--	--	--	--	--	--	--	--	--	--	--
FEB 15...	--	--	--	--	--	--	--	--	--	--	--
MAR 13...	--	--	--	--	--	--	--	--	--	--	--
APR 15...	--	--	--	--	--	--	720	370	350	--	--
MAY 01...	4	4	0	1	0	1	--	--	--	10	<3
JUN 30...	--	--	--	--	--	--	--	--	--	--	--
JUL 13...	--	--	--	--	--	--	--	--	--	--	--
AUG 15...	6	6	0	1	0	1	--	--	--	40	<3
SEP 02...	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--

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)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L)
OCT 19...	1645	8.2	20	.00	6	0
JAN 14...	1115	7.6	.2	.00	1	--
APR 15...	1800	6.0	15	.00	7	--
JUL 13...	1615	2.5	.1	.00	33	--

DATE	TIME	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)
AUG 15...	1215	<17	19	<6.4	16	<6.2	15

09312900 WILLOW CREEK AT CASTLE GATE, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	OCT 19,80	JUN 30,81	JUL 13,81	AUG 15,81	SEP 4,81
TIME	1645	1200	1615	1215	1115
TOTAL CELLS/ML	1900	430	77	18000	530
DIVERSITY: DIVISION	1.0	1.3	0.0	0.5	0.2
.CLASS	1.0	1.3	0.0	0.5	0.2
..ORDER	1.0	1.6	0.0	1.4	0.2
...FAMILY	1.0	2.0	1.5	2.0	0.6
....GENUS	1.0	2.0	1.8	3.1	1.7

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHLOROCOCCACEAE										
....TETRAEDRON	--	-	13	3	--	-	--	-	--	-
...SCENEDESMACEAE										
....CRUCIGENIA	--	-	--	-	--	-	290	2	--	-
....GLOEOACTINIUM	--	-	--	-	--	-	230	1	--	-
....SCENEDESMUS	--	-	--	-	--	-	950	5	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	26	6	--	-	230	1	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	--	-	13	3	--	-	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	26	6	--	-	--	-	28	5
...CYMBELLACEAE										
....EPITHEMIA	--	-	--	-	13a	17	--	-	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	39	9	--	-	--	-	--	-
...NAVICULACEAE										
....AMPHIPLEURA	--	-	--	-	--	-	--	-	240a	45
....GYROSIGMA	--	-	--	-	13a	17	--	-	--	-
....NAVICULA	--	-	--	-	13a	17	--	-	220a	42
....PLEUROSIGMA	--	-	--	-	--	-	--	-	14	3
...NITZSCHIACEAE										
....NITZSCHIA	820a	43	77a	18	39a	50	--	-	14	3
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....AGMENELLUM	--	-	--	-	--	-	2100	12	--	-
....ANACYSTIS	--	-	--	-	--	-	340	2	--	-
..NOSTOCALES										
...HAMMATOIDEACEAE										
....RAPHIDIOPSIS	--	-	--	-	--	-	3400a	19	--	-
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	--	-	2600	15	--	-
....APHANIZOMENON	--	-	--	-	--	-	3000a	17	--	-
....CYLINDROSPERMUM	--	-	--	-	--	-	3200a	18	--	-
..OSCILLATORIALES										
...OSCILLATORIACEAE										
....OSCILLATORIA	1100a	57	230a	55	--	-	1000	6	--	-
....PHORMIDIUM	--	-	--	-	--	-	490	3	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....TRACHELOMONAS	--	-	--	-	--	-	--	-	14	3

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organism, may not have been counted: Less than 1/2 percent.

09312900 WILLOW CREEK AT CASTLE GATE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)
NOV						
13...	1615	22.3	21.2	.040	.000	27500

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	COAL IN BOTTOM MATE-RIAL (GM/KG)
OCT						
19...	1645	4.7	9.0	1000	13	23.0
NOV						
13...	1615	4.0	4.0	189	2.0	--
DEC						
06...	1130	1.0	.0	2	.01	--
JAN						
14...	1115	1.4	1.0	7	.03	--
FEB						
15...	1045	1.3	.0	32	.11	--
MAR						
13...	1130	3.8	2.5	352	3.6	--
APR						
15...	1800	42	8.0	4820	547	--
MAY						
01...	1215	15	14.0	136	5.5	--
20...	1115	7.0	8.0	72	1.4	--
JUN						
10...	1745	5.6	23.0	10	.15	--
30...	1200	3.1	19.5	6	.05	--
JUL						
13...	1615	2.7	27.0	4	.03	--
AUG						
15...	1215	2.2	19.5	461	2.7	--
SEP						
04...	1115	1.2	16.0	6	.02	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE-BED MATERIAL, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
MAY							
01...	1215	15	14.0	3	6	10	14
JUN							
30...	1200	3.1	19.5	5	12	21	28

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
MAY						
01...	19	30	45	60	71	100
JUN						
30...	33	41	53	69	100	--

09313000 PRICE RIVER NEAR HEINER, UTAH

LOCATION.--Lat 39°43'08", long 110°51'55", in SW¼SE¼SW¼, sec.1, T.13 S., R.9 E., Carbon County, Hydrologic Unit 14060007, on left bank 0.8 mi (1.3 km) downstream from Willow Creek, 1.2 mi (1.9 km) upstream from Martin.

DRAINAGE AREA.--415 mi^2 (1,075 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1934 to September 1969, October 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,000 ft (1,829 m) from topographic map. Prior to September 1969 at site 400 ft (122 m) upstream at different datum.

REMARKS.--Records good except those for winter period, which are poor. Flow affected by regulation of Scofield Reservoir.

AVERAGE DISCHARGE.--37 years (water years 1934-69, 1979-81), 112 ft^3/s (3.172 m^3/s), 81,140 acre-ft/yr (100.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,340 ft^3/s (265 m^3/s) Sept. 13, 1940, gage height, 7.98 ft (2.432 m), from rating curve extended above 750 ft^3/s (21.2 m^3/s) on basis of slope-area measurements of peak flow; minimum recorded, 0.4 ft^3/s (0.011 m^3/s) Aug. 21, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 516 ft^3/s (14.6 m^3/s) Aug. 23, gage height, 11.63 ft (3.545 m); minimum daily, 8.1 ft^3/s (0.229 m^3/s) Nov. 16-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	12	13	14	12	17	23	153	172	176	173	96
2	60	12	14	13	12	17	29	174	170	182	178	111
3	59	12	17	13	12	14	32	207	168	161	174	106
4	59	12	17	13	13	16	25	200	156	144	174	95
5	59	11	17	13	14	15	23	206	154	103	166	144
6	58	11	16	13	12	15	36	211	155	100	164	92
7	60	10	17	12	12	16	36	197	157	129	163	67
8	60	9.8	9.7	12	12	16	34	185	151	143	164	98
9	59	9.5	10	12	12	17	58	187	151	147	165	56
10	59	9.3	11	13	12	18	62	188	149	150	210	37
11	61	9.0	12	13	12	21	60	212	149	156	197	29
12	67	8.7	14	13	13	21	55	211	148	160	165	19
13	74	8.5	15	14	14	24	57	203	146	159	175	19
14	68	8.3	15	16	16	26	58	198	150	164	150	19
15	76	8.2	15	13	16	27	83	202	146	156	137	16
16	49	8.1	15	13	16	30	81	190	149	153	137	14
17	44	8.1	15	14	18	23	74	169	146	151	132	15
18	38	8.1	15	15	18	21	73	154	150	148	133	15
19	33	8.2	15	14	19	22	108	150	154	150	132	27
20	29	8.3	15	14	19	26	90	162	160	154	134	28
21	25	8.5	15	14	16	25	77	172	159	161	140	32
22	22	8.7	14	14	16	25	70	165	159	160	152	38
23	20	9.2	14	14	17	31	72	160	150	179	195	37
24	17	9.7	13	14	16	32	76	155	149	191	139	38
25	15	10	14	12	18	29	93	153	161	184	123	45
26	14	11	14	11	18	27	116	159	167	161	124	50
27	13	11	15	12	16	25	117	179	185	148	119	49
28	13	12	14	13	16	23	127	175	189	152	107	46
29	12	12	13	13	---	23	123	177	179	161	96	44
30	12	13	11	13	---	26	124	175	172	160	89	48
31	12	---	13	12	---	23	---	176	---	159	95	---
TOTAL	1311	297.2	437.7	409	417	691	2092	5605	4751	4802	4602	1530
MEAN	42.3	9.91	14.1	13.2	14.9	22.3	69.7	181	158	155	148	51.0
MAX	76	13	17	16	19	32	127	212	189	191	210	144
MIN	12	8.1	9.7	11	12	14	23	150	146	100	89	14
AC-FT	2600	589	868	811	827	1370	4150	11120	9420	9520	9130	3030

CAL YR 1980	TOTAL	71686.9	MEAN	196	MAX	1070	MIN 8.1	AC-FT 142200
WTR YR 1981	TOTAL	26944.9	MEAN	73.8	MAX	212	MIN 8.1	AC-FT 53450

09313000 PRICE RIVER NEAR HEINER, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1979 to current year.
SEDIMENT DATA: December 1979 to current year, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
15...	1715	72	485	8.4	4.0	7.0	9.6	100	.31	220	25
NOV											
17...	1145	11	890	8.5	1.0	.0	13.1	109	--	340	59
DEC											
06...	1330	13	880	8.7	4.0	2.5	12.5	114	--	370	130
JAN											
14...	1345	16	910	8.5	6.0	2.5	12.6	113	.93	390	110
FEB											
15...	1300	17	790	8.9	8.0	3.0	11.6	105	--	340	94
MAR											
13...	1530	23	750	8.5	4.5	5.0	8.8	102	--	300	69
APR											
15...	1215	97	570	9.0	9.5	8.0	9.8	102	.94	250	0
MAY											
01...	1630	161	450	8.5	25.0	14.5	8.1	98	--	210	7
JUN											
30...	1645	183	340	8.6	25.5	20.0	7.5	101	--	180	19
JUL											
13...	1315	169	350	8.6	24.0	19.5	7.9	105	.76	170	21
AUG											
15...	1415	136	350	8.5	17.0	19.0	7.7	101	--	180	34
SEP											
02...	1130	93	330	8.6	23.0	16.0	8.0	--	--	160	--
05...	1100	89	375	8.3	14.0	15.5	7.9	98	--	160	21

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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY FIELD (MG/L AS CACO3)
OCT										
15...	--	48	23	27	21	.8	1.9	220	2	190
NOV										
17...	--	66	43	56	26	1.3	3.2	330	6	280
DEC										
06...	--	76	44	48	22	1.1	3.1	240	15	240
JAN										
14...	--	80	47	52	22	1.1	2.3	320	9	280
FEB										
15...	--	75	38	44	22	1.0	2.3	260	22	250
MAR										
13...	--	65	34	44	24	1.1	2.2	270	6	230
APR										
15...	58	58	25	31	21	.9	2.4	310	18	290
MAY										
01...	--	50	20	15	14	.5	1.4	230	4	200
JUN										
30...	35	46	17	8.0	9	.3	.9	180	8	160
JUL										
13...	--	43	16	7.9	9	.3	1.1	170	6	150
AUG										
15...	--	43	17	8.7	10	.3	1.2	170	4	150
SEP										
02...	--	36	17	8.8	11	.3	1.2	--	--	--
05...	--	37	16	13	15	.5	2.0	170	0	140

09313000 PRICE RIVER NEAR HEINER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALKALINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	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 15...	--	1.4	67	14	.2	5.8	296	302	.40	57.5
NOV 17...	--	1.7	160	41	.3	9.6	536	548	.73	15.9
DEC 06...	--	.9	200	28	.3	10	539	554	.73	18.9
JAN 14...	--	1.7	190	24	.3	10	584	576	.79	25.2
FEB 15...	--	.6	170	26	.2	9.9	471	516	.64	21.6
MAR 13...	--	1.4	150	28	.2	8.0	458	471	.62	28.4
APR 15...	190	.4	100	15	.3	9.0	353	358	.48	92.5
MAY 01...	--	1.2	43	6.9	.2	9.6	262	266	.36	114
JUN 30...	150	.8	33	5.8	.1	7.9	205	215	.28	101
JUL 13...	--	.7	32	5.8	.1	7.3	201	203	.27	91.7
AUG 15...	--	.9	28	6.1	.2	7.3	197	199	.27	72.3
SEP 02...	--	--	29	6.6	.1	7.1	188	--	.26	47.0
05...	--	1.4	47	13	.2	6.6	223	219	.30	53.6

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (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)	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)	POTASSIUM 40 DISSOLVED (PCI/L AS K40)
OCT 15...	.000	.00	.78	.78	.52	.26	.05	.080	.25	.040	--
JAN 14...	.070	.08	.65	.72	.22	.50	.43	.060	.18	.010	--
FEB 15...	--	--	--	--	--	--	--	--	--	--	1.7
MAR 13...	--	--	--	--	--	--	--	--	--	--	1.6
APR 15...	.360	--	14	14.0	14	.45	.49	2.50	7.7	.270	1.8
MAY 01...	--	--	--	--	--	--	--	--	--	--	1.0
JUN 30...	--	--	--	--	--	--	--	--	--	--	.70
JUL 13...	.100	--	.67	.77	.04	.73	.03	.080	.25	.010	.80

DATE	TIME	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)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)
OCT 15...	1715	--	--	--	100	20	80	--	--	80	--	--
NOV 17...	1145	--	--	--	--	--	--	--	--	250	--	--
DEC 06...	1330	--	--	--	--	--	--	--	--	130	--	--
JAN 14...	1345	--	--	--	--	--	--	--	--	170	--	--
FEB 15...	1300	--	--	--	--	--	--	--	--	160	--	--
MAR 13...	1530	--	--	--	--	--	--	--	--	100	--	--
APR 15...	1215	--	--	--	1300	1100	200	--	--	610	--	--
MAY 01...	1630	3	0	3	--	--	--	0	<1	40	0	--
JUN 30...	1645	--	--	--	--	--	--	--	--	30	--	--
JUL 13...	1315	--	--	--	--	--	--	--	--	20	--	--
AUG 15...	1415	--	--	--	--	--	--	--	--	30	--	--
SEP 02...	1130	--	--	--	--	--	--	--	--	40	--	--
05...	1100	7	6	1	--	--	--	0	<1	120	0	0

09313000 PRICE RIVER NEAR HEINER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (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)
OCT 15...	--	--	--	--	--	--	--	2000	--	<10	--	--
NOV 17...	--	--	--	--	--	--	--	290	--	<10	--	--
DEC 06...	--	--	--	--	--	--	--	310	290	20	--	--
JAN 14...	--	--	--	--	--	--	--	390	360	30	--	--
FEB 15...	--	--	--	--	--	--	--	180	--	<10	--	--
MAR 13...	--	--	--	--	--	--	--	1000	990	10	--	--
APR 15...	--	--	--	--	--	--	--	44000	44000	10	--	--
MAY 01...	<1	20	0	20	17	15	2	5500	--	<10	7	4
JUN 30...	--	--	--	--	--	--	--	1200	--	<10	--	--
JUL 13...	--	--	--	--	--	--	--	2200	--	<10	--	--
AUG 15...	--	--	--	--	--	--	--	2200	--	<10	--	--
SEP 02...	--	--	--	--	--	--	--	1400	--	<10	--	--
05...	2	30	30	0	50	46	4	19000	19000	29	83	78

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)
OCT 15...	--	20	10	10	110	100	10	--	--	--	--
NOV 17...	--	--	--	--	30	10	20	--	--	--	--
DEC 06...	--	--	--	--	40	10	30	--	--	--	--
JAN 14...	--	--	--	--	30	10	20	--	--	--	--
FEB 15...	--	--	--	--	20	10	10	--	--	--	--
MAR 13...	--	--	--	--	40	30	10	--	--	--	--
APR 15...	--	100	80	20	1500	1500	10	--	--	--	--
MAY 01...	3	--	--	--	420	410	10	.3	.3	.0	10
JUN 30...	--	--	--	--	90	90	3	--	--	--	--
JUL 13...	--	--	--	--	140	140	3	--	--	--	--
AUG 15...	--	--	--	--	140	140	3	--	--	--	--
SEP 02...	--	--	--	--	80	80	4	--	--	--	--
05...	5	--	--	--	520	500	18	.2	.2	.0	27

09313000 PRICE RIVER NEAR HEINER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
OCT 15...	--	--	--	--	--	350	0	380	--	--	--
NOV 17...	--	--	--	--	--	--	--	--	--	--	--
DEC 06...	--	--	--	--	--	--	--	--	--	--	--
JAN 14...	--	--	--	--	--	--	--	--	--	--	--
FEB 15...	--	--	--	--	--	--	--	--	--	--	--
MAR 13...	--	--	--	--	--	--	--	--	--	--	--
APR 15...	--	--	--	--	--	1300	840	460	--	--	--
MAY 01...	0	14	1	1	0	--	--	--	40	40	3
JUN 30...	--	--	--	--	--	--	--	--	--	--	--
JUL 13...	--	--	--	--	--	--	--	--	--	--	--
AUG 15...	--	--	--	--	--	--	--	--	--	--	--
SEP 02...	--	--	--	--	--	--	--	--	--	--	--
05...	25	2	2	1	1	--	--	--	210	--	<3

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)
OCT 15...	1715	6.9	1.6	.00	--
JAN 14...	1345	15	.5	.00	0
APR 15...	1215	4.2	62	.00	10
JUL 13...	1315	3.8	.5	.00	7

DATE	TIME	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)
SEP 05...	1100	<5.1	37	<2.9	31	<2.7	30

09313000 PRICE RIVER NEAR HEINER, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	OCT 15,80		JUN 30,81		JUL 13,81		AUG 15,81		SEP 5,81	
TIME	1715		1645		1315		1415		1100	
TOTAL CELLS/ML	3500		90		1400		900		30000	
DIVERSITY: DIVISION	1.0		0.9		1.4		1.5		0.3	
.CLASS	1.0		0.9		1.4		1.5		0.3	
..ORDER	1.8		0.9		1.4		1.9		0.3	
...FAMILY	2.7		2.2		1.8		3.1		0.4	
....GENUS	2.8		2.2		1.9		3.6		0.7	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHLOROCOCCACEAE										
....SCHROEDERIA	--	-	--	-	--	-	--	-	b	0
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	--	-	--	-	14	2	b	0
....OOCYSTIS	--	-	--	-	--	-	170 a	19	--	-
...PALMELLACEAE										
....SPHAEROCYSTIS	--	-	--	-	100	7	--	-	--	-
...SCENEDESMACEAE										
....COELASTRUM	--	-	--	-	620 a	45	--	-	--	-
....SCENEDESMUS	--	-	--	-	--	-	56	6	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	--	-	--	-	42	5	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	*	0	--	-	--	-	14	2	--	-
....MELOSIRA	230	6	--	-	--	-	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	150	4	13	14	--	-	14	2	b	0
....COCCONEIS	61	2	--	-	--	-	140 a	16	--	-
...CYMBELLACEAE										
....CYMBELLA	210	6	--	-	--	-	56	6	--	-
....EPITHEMIA	--	-	--	-	--	-	140 a	16	b	0
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	--	-	77	6	--	-	--	-
....FRAGILARIA	--	-	--	-	90	7	--	-	--	-
....SYNEDRA	120	3	--	-	--	-	--	-	b	0
...GOMPHONEMATACEAE										
....GOMPHONEMA	46	1	13	14	--	-	14	2	b	0
...NAVICULACEAE										
....AMPHIPLEURA	61	2	--	-	--	-	--	-	--	-
....ENTOMONEIS	--	-	--	-	--	-	14	2	--	-
....NAVICULA	200	6	13	14	26	2	28	3	340	1
...NITZSCHIACEAE										
....NITZSCHIA	310	9	26 a	29	--	-	42	5	210	1
...SURIRELLACEAE										
....SURIRELLA	76	2	--	-	--	-	--	-	b	0
CRYPTOPHYTA (CRYPTOMONADS)										
.CRYPTOPHYCEAE										
..CRYPTOMONADALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	--	-	14	2	--	-
...CRYPTOMONADACEAE										
....CRYPTOMONAS	--	-	26 a	29	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....ANACYSTIS	--	-	--	-	--	-	28	3	--	-
..NOSTOCALES										
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	--	-	--	-	2100	7
....APHANIZOMENON	1400 a	39	--	-	--	-	--	-	27000 a	89
..OSCILLATORIALES										
...OSCILLATORIACEAE										
....LYNGBYA	--	-	--	-	460 a	34	42	5	--	-
....OSCILLATORIA	690 a	19	--	-	--	-	70	8	--	-

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organism, may not have been counted: Less than 1/2 percent.

09313000 PRICE RIVER NEAR HEINER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	CHLOR-B PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	BIOMASS CHLOROPHYLL RATIO PERIPHYTON (UNITS)
NOV 17...	1145	3.47	3.15	2.27	.000	141
AUG 15...	1415	10.7	10.2	3.97	.320	126
SEP 05...	1100	1.58	1.42	.530	.070	302

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	COAL IN BOTTOM MATERIAL (GM/KG)
OCT 15...	1715	72	7.0	224	44	--	--	--	--	--
NOV 17...	1145	11	.0	20	.59	--	--	--	--	79.0
DEC 06...	1330	13	2.5	32	1.1	--	--	--	--	--
JAN 14...	1345	16	2.5	27	1.2	--	--	--	--	--
FEB 15...	1300	17	3.0	21	.96	--	--	--	--	--
MAR 13...	1530	23	5.0	182	11	--	--	--	--	--
APR 15...	1215	97	8.0	4170	1090	11	20	43	72	--
MAY 01...	1630	161	14.5	592	257	28	35	53	93	--
20...	1315	174	8.5	132	62	--	--	--	--	--
JUN 11...	1215	158	17.5	177	76	--	--	--	--	--
30...	1645	183	20.0	194	96	--	--	--	--	--
JUL 13...	1315	169	19.5	269	123	--	--	--	--	--
AUG 15...	1415	136	19.0	259	95	--	--	--	--	--
SEP 05...	1100	89	15.5	1530	368	--	--	--	--	--

09313040 SPRING CANYON BELOW SOWBELLY GULCH, AT HELPER, UTAH

LOCATION.--Lat 39°41'19", long 110°53'09", in NE¼NW¼NW¼ sec.23, T.13 S., R.9 E., Carbon County, Hydrologic Unit 14060007, on left bank 1.2 mi (1.9 km) upstream from mouth, 0.4 mi (0.6 km) upstream from railroad trestle, 1.4 mi (2.3 km) west of Helper.

DRAINAGE AREA.--23.0 mi^2 (59.6 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,110 ft (1,862 m) from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 271 ft^3/s (7.67 m^3/s) July 12, 1981, gage height, 3.93 ft (1.198 m) result of slope-area measurement; minimum, 0.02 ft^3/s (0.001 m^3/s) July 2, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 10 ft^3/s (0.283 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 14	2215	84	2.38	2.08	0.634
July 12	1645	*271	7.67	3.93	1.198
Aug. 10	1930	15	.42	1.11	.338
Sept. 5	1230	22	.62	1.28	.390

Minimum, 0.05 ft^3/s (0.001 m^3/s) Sept. 5, 6.

REVISIONS.--The maximum discharge for the water year 1980 has been revised to 114 ft^3/s (3.23 m^3/s) Aug. 25, 1980, gage height, 2.51 ft (0.765 m), superseding figures published in report for 1980. Peak discharge of Sept. 12, 1980 (2200 hr) has been revised to 64 ft^3/s (1.81 m^3/s), gage height, 1.95 ft (0.594 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.79	.54	.53	.55	.40	.43	.39	.40	.38	.12	.14	.16
2	.80	.45	.55	.55	.40	.43	.40	.59	.46	.12	.16	.15
3	.93	.46	.55	.55	.40	.43	.36	.33	.39	.12	.15	.14
4	.81	.47	.55	.55	.40	.43	.36	.33	.38	.13	.16	.14
5	.83	.47	.55	.54	.40	.43	.36	.33	.41	.14	.14	2.8
6	.82	.46	.54	.55	.40	.43	.36	.33	.40	.15	.14	.05
7	.94	.43	.55	.55	.40	.43	.36	.28	.39	.15	.14	.36
8	.86	.48	.55	.55	.40	.43	.36	.28	.34	.13	.14	.50
9	.85	.50	.55	.56	.36	.45	.36	.28	.31	.13	.14	.21
10	.84	.51	.54	.55	.32	.43	.36	.28	.28	.13	1.5	.16
11	.84	.50	.55	.59	.32	.43	.36	.29	.24	.15	.20	.12
12	.81	.50	.55	.59	.32	.43	.32	.29	.24	6.0	.24	.12
13	1.5	.50	.55	.59	.32	.43	.32	.29	.23	.14	.24	.14
14	3.6	.49	.55	.55	.36	.43	.36	.29	.21	.12	.18	.14
15	1.8	.49	.53	.50	.40	.44	.36	.30	.22	.12	.15	.16
16	1.1	.48	.50	.50	.40	.43	.36	.31	.22	.10	.12	.16
17	.79	.45	.52	.50	.40	.41	.36	.24	.22	.12	.14	.18
18	.67	.45	.50	.50	.40	.37	.39	.24	.19	.14	.14	.18
19	.55	.45	.50	.50	.40	.36	.50	.24	.19	.14	.14	.18
20	.55	.44	.50	.50	.38	.38	.45	.25	.18	.15	.14	.19
21	.55	.44	.50	.50	.39	.40	.55	.28	.15	.14	.14	.19
22	.53	.44	.50	.50	.41	.39	.61	.34	.15	.16	.14	.19
23	.56	.44	.50	.50	.40	.39	.44	.36	.15	.14	.14	.19
24	.63	.44	.50	.55	.40	.40	.41	.37	.12	.13	.16	.19
25	.67	.50	.50	.55	.41	.41	.39	.37	.12	.16	.16	.18
26	.61	.50	.55	.45	.40	.39	.33	.38	.12	.15	.16	.18
27	.61	.50	.55	.45	.41	.44	.43	.38	.14	.16	.16	.18
28	.55	.50	.55	.45	.42	.37	.34	.38	.12	.16	.16	.18
29	.56	.50	.55	.45	---	.38	.39	.45	.12	.16	.16	.18
30	.56	.50	.55	.45	---	.40	.39	.40	.12	.15	.24	.17
31	.55	---	.55	.45	---	.39	---	.46	---	.16	.16	---
TOTAL	27.06	14.28	16.51	16.12	10.82	12.79	11.73	10.34	7.19	10.17	6.28	8.07
MEAN	.87	.48	.53	.52	.39	.41	.39	.33	.24	.33	.20	.27
MAX	3.6	.54	.55	.59	.42	.45	.61	.59	.46	6.0	1.5	2.8
MIN	.53	.43	.50	.45	.32	.36	.32	.24	.12	.10	.12	.05
AC-FT	54	28	33	32	21	25	23	21	14	20	12	16

CAL YR 1980 TOTAL 160.31 MEAN .44 MAX 6.3 MIN .13 AC-FT 318
WTR YR 1981 TOTAL 151.36 MEAN .41 MAX 6.0 MIN .05 AC-FT 300

09313040 SPRING CANYON BELOW SOWBELLY GULCH, AT HELPER, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to current year.
SEDIMENT DATA: December 1978 to current year, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
19...	1800	.58	2960	8.0	6.0	10.0	8.8	99	8.5	1600	1400
NOV											
14...	1600	.52	3080	8.1	1.5	6.0	9.6	97	--	1600	1200
DEC											
06...	1600	.53	2980	8.0	3.0	7.0	9.3	97	--	1600	1200
JAN											
14...	1615	.60	3050	8.2	.5	5.5	9.6	97	8.7	1600	1200
FEB											
15...	1500	.39	3000	8.2	8.5	8.0	9.4	99	--	1700	1300
MAR											
14...	1030	.43	3000	8.2	6.0	8.0	9.6	102	--	1700	1300
APR											
14...	0930	.36	2960	8.3	13.0	9.0	9.5	102	7.8	1700	1300
MAY											
21...	1815	.33	2900	8.2	10.5	12.0	8.8	104	--	1600	1300
JUN											
25...	1900	.12	3000	8.2	29.0	15.5	7.5	93	--	1600	1200
JUL											
12...	1630	38	770	8.0	17.5	15.5	8.2	101	3.1	370	270
AUG											
11...	1200	.26	3020	7.8	13.0	12.5	8.0	--	--	1700	--
11...	1545	.22	3090	8.3	16.0	14.0	7.8	96	--	1700	1300
SEP											
01...	1745	.13	3100	8.1	28.5	19.0	7.5	10	--	1700	1300

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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY FIELD (MG/L AS CACO3)
OCT										
19...	--	200	270	130	15	1.4	18	480	0	400
NOV										
14...	--	220	250	140	16	1.5	19	470	0	380
DEC										
06...	--	220	250	130	15	1.4	20	470	0	380
JAN										
14...	--	200	270	130	15	1.4	17	480	0	390
FEB										
15...	--	220	270	130	14	1.4	17	470	0	380
MAR										
14...	--	230	280	140	15	1.5	16	470	0	380
APR										
14...	1300	220	270	140	15	1.5	18	470	0	380
MAY										
21...	1200	220	260	140	16	1.5	1.7	440	0	360
JUN										
25...	1300	210	270	140	16	1.5	15	480	0	390
JUL										
12...	--	79	42	15	8	.3	12	120	0	100
AUG										
11...	--	220	270	140	15	1.5	19	--	--	--
11...	--	220	280	140	15	1.5	18	460	0	380
SEP										
01...	--	220	290	150	16	1.6	16	470	0	380

09313040 SPRING CANYON BELOW SOWBELLY GULCH, AT HELPER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALKALINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	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...	240	4.7	1400	86	.5	14	2500	2300	3.4	3.9
NOV										
14...	--	6.0	1300	80	.4	13	2450	2250	3.3	3.4
DEC										
06...	--	7.5	1300	80	.4	13	2580	2240	3.5	3.7
JAN										
14...	--	4.8	1300	61	.4	10	2560	2260	3.5	4.2
FEB										
15...	--	4.7	1400	80	.4	12	2580	2360	3.5	2.7
MAR										
14...	--	4.7	1400	91	.4	12	2560	2400	3.5	3.0
APR										
14...	380	3.7	1400	82	.4	11	2560	2400	3.5	2.5
MAY										
21...	380	4.7	1400	82	.3	11	2560	2340	3.5	2.3
JUN										
25...	380	4.8	1400	100	.4	8.5	2690	2380	3.7	.87
JUL										
12...	--	1.9	200	61	.3	5.0	588	481	.80	60.3
AUG										
11...	--	--	1300	94	.4	11	2600	--	3.5	1.8
11...	--	3.7	1400	88	.4	14	2620	2390	3.6	1.6
SEP										
01...	--	6.0	1400	94	.5	13	2690	2420	3.7	.94

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	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)
OCT									
19...	.000	--	.00	--	.86	--	.86	.00	.86
NOV									
14...	--	--	--	--	--	--	--	--	--
DEC									
06...	--	--	--	--	--	--	--	--	--
JAN									
14...	.030	--	.04	--	.44	--	.47	.13	.34
FEB									
15...	--	--	--	--	--	--	--	--	--
MAR									
14...	--	--	--	--	--	--	--	--	--
APR									
14...	.040	--	--	--	1.4	--	1.40	.00	1.8
MAY									
21...	--	--	--	--	--	--	--	--	--
JUN									
25...	--	--	--	--	--	--	--	--	--
JUL									
12...	.290	.150	--	.19	36	1.4	36.0	34	1.6

DATE	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (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, TOTAL (MG/L AS P)	POTASSIUM 40 DISSOLVED (PCI/L AS K40)
OCT									
19...	--	--	7.6	--	.020	.06	.050	--	13
NOV									
14...	--	--	--	--	--	--	--	--	14
DEC									
06...	--	--	--	--	--	--	--	--	15
JAN									
14...	--	--	8.4	--	.020	.06	.000	--	13
FEB									
15...	--	--	--	--	--	--	--	--	13
MAR									
14...	--	--	--	--	--	--	--	--	12
APR									
14...	--	--	6.0	--	.020	.06	.020	--	13
MAY									
21...	--	--	--	--	--	--	--	--	1.3
JUN									
25...	--	--	--	--	--	--	--	--	11
JUL									
12...	37	1.4	1.5	166	19.0	58	.220	.220	9.0

09313040 SPRING CANYON BELOW SOWBELLY GULCH, AT HELPER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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, SUS-PENDED RECOV. (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)
OCT 19...	1800	--	--	--	100	0	200	--	--	--	530	--
NOV 14...	1600	--	--	--	--	--	--	--	--	--	620	--
DEC 06...	1600	--	--	--	--	--	--	--	--	--	530	--
JAN 14...	1615	--	--	--	--	--	--	--	--	--	590	--
FEB 15...	1500	--	--	--	--	--	--	--	--	--	620	--
MAR 14...	1030	--	--	--	--	--	--	--	--	--	590	--
APR 14...	0930	--	--	--	0	0	100	--	--	--	540	--
MAY 21...	1815	1	1	0	--	--	--	0	0	0	570	0
JUN 25...	1900	--	--	--	--	--	--	--	--	--	640	--
JUL 12...	1630	280	280	3	--	--	--	20	20	0	210	77
AUG 11...	1200	--	--	--	--	--	--	--	--	--	640	--
11...	1545	4	3	1	--	--	--	0	0	0	660	0
SEP 01...	1745	--	--	--	--	--	--	--	--	--	700	--

DATE	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (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)
OCT 19...	--	--	--	--	--	--	--	--	120	90	30	--
NOV 14...	--	--	--	--	--	--	--	--	100	60	40	--
DEC 06...	--	--	--	--	--	--	--	--	170	130	40	--
JAN 14...	--	--	--	--	--	--	--	--	230	180	50	--
FEB 15...	--	--	--	--	--	--	--	--	130	110	20	--
MAR 14...	--	--	--	--	--	--	--	--	120	70	50	--
APR 14...	--	--	--	--	--	--	--	--	80	40	40	--
MAY 21...	0	1	10	0	10	5	3	2	70	30	40	6
JUN 25...	--	--	--	--	--	--	--	--	80	40	40	--
JUL 12...	77	0	390	360	30	2300	2300	10	370000	370000	20	12000
AUG 11...	--	--	--	--	--	--	--	--	180	120	60	--
11...	0	0	10	0	10	7	4	3	290	250	40	10
SEP 01...	--	--	--	--	--	--	--	--	140	110	30	--

09313040 SPRING CANYON BELOW SOWBELLY GULCH, AT HELPER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	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)	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)
OCT												
19...	--	--	180	0	180	30	10	20	--	--	--	--
NOV												
14...	--	--	--	--	--	20	0	20	--	--	--	--
DEC												
06...	--	--	--	--	--	30	10	20	--	--	--	--
JAN												
14...	--	--	--	--	--	10	0	10	--	--	--	--
FEB												
15...	--	--	--	--	--	20	10	10	--	--	--	--
MAR												
14...	--	--	--	--	--	20	0	20	--	--	--	--
APR												
14...	--	--	160	0	160	20	10	10	--	--	--	--
MAY												
21...	5	1	--	--	--	20	0	20	.1	.1	.0	1
JUN												
25...	--	--	--	--	--	20	0	20	--	--	--	--
JUL												
12...	12000	2	--	--	--	17000	17000	10	3.4	3.3	.1	990
AUG												
11...	--	--	--	--	--	60	10	50	--	--	--	--
11...	8	2	--	--	--	60	10	50	.0	.0	.0	0
SEP												
01...	--	--	--	--	--	40	0	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)
OCT											
19...	--	--	--	--	--	1000	0	1200	--	--	--
NOV											
14...	--	--	--	--	--	--	--	--	--	--	--
DEC											
06...	--	--	--	--	--	--	--	--	--	--	--
JAN											
14...	--	--	--	--	--	--	--	--	--	--	--
FEB											
15...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
APR											
14...	--	--	--	--	--	1100	0	1300	--	--	--
MAY											
21...	0	1	10	0	20	--	--	--	40	0	40
JUN											
25...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	980	6	56	53	3	--	--	--	8700	8700	10
AUG											
11...	--	--	--	--	--	--	--	--	--	--	--
11...	0	1	19	4	15	--	--	--	40	20	20
SEP											
01...	--	--	--	--	--	--	--	--	--	--	--

09313040 SPRING CANYON BELOW SOWBELLY GULCH, AT HELPER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L)
OCT 19...	1800	4.5	.3	.00	2	0
JAN 14...	1615	9.4	.1	.00	4	--
APR 14...	0930	4.7	.2	.00	3	--
JUL 12...	1630	28	--	.01	14	--

DATE	TIME	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)
AUG 11...	1545	<68	<.4	<37	.4	<36	.4

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	OCT 19,80	JUN 25,81	JUL 12,81	AUG 11,81	SEP 1,81
TIME	1800	1900	1630	1545	1745
TOTAL CELLS/ML	13	180	55	250	360
DIVERSITY: DIVISION	0.0	0.6	0.0	0.3	0.0
.CLASS	0.0	0.6	0.0	0.3	0.2
..ORDER	0.0	0.6	0.0	0.3	0.2
...FAMILY	0.0	1.8	0.8	1.4	1.7
....GENUS	0.0	1.8	1.5	1.4	1.7

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	26	14	--	-	70	a 28	240	a 65
...CYMBELLACEAE										
....CYMBELLA	--	-	100	a 57	--	-	--	-	56	a 15
...DIATOMACEAE										
....DIATOMA	--	-	--	-	--	-	14	6	--	-
...FRAGILARIACEAE										
....SYNEDRA	--	-	13	7	--	-	--	-	14	4
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	--	-	--	-	--	-	14	4
...NAVICULACEAE										
....NAVICULA	13	<100	--	-	14	a 25	150	a 61	14	4
....PINNULARIA	--	-	--	-	27	a 50	--	-	--	-
...NITZSCHIACEAE										
....NITZSCHIA	--	-	13	7	--	-	--	-	14	4
...SURIRELLACEAE										
....SURIRELLA	--	-	--	-	14	a 25	--	-	--	-
.CHRYSOPHYCEAE										
..OCHROMONADALES										
...OCHROMONADACEAE										
....OCHROMONAS	--	-	--	-	--	-	--	-	14	4
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....ANACYSTIS	--	-	26	14	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	--	-	--	-	14	6	--	-

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organism, may not have been counted: Less than 1/2 percent.

09313040 SPRING CANYON BELOW SOWBELLY GULCH, AT HELPER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)
NOV						
14...	1600	2.36	1.97	.500	.000	780
JUL						
12...	1630	27.9	24.8	17.6	.420	176

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
OCT									
19...	1800	.58	10.0	7	.01	--	--	--	--
NOV									
14...	1600	.52	6.0	52	.07	--	--	--	--
DEC									
06...	1600	.53	7.0	3	.00	--	--	--	--
JAN									
14...	1615	.60	5.5	9	.01	--	--	--	--
FEB									
15...	1500	.39	8.0	13	.01	--	--	--	--
MAR									
14...	1030	.43	8.0	87	.10	--	--	--	--
APR									
14...	0930	.36	9.0	53	.05	--	--	--	--
MAY									
02...	1830	.43	11.5	1240	1.4	--	--	--	--
21...	1815	.33	12.0	108	.10	--	--	--	--
JUN									
09...	1130	.31	21.0	24	.02	--	--	--	--
25...	1900	.12	15.5	50	.02	--	--	--	--
JUL									
12...	1630	38	15.5	99800	10200	29	39	63	82
AUG									
11...	1545	.22	14.0	86	.05	--	--	--	--
SEP									
01...	1745	.13	19.0	133	.05	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
MAY							
21...	1815	.33	12.0	2	3	7	12

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
MAY						
21...	19	34	54	80	96	100

09313965 COAL CREEK NEAR HELPER, UTAH

LOCATION.--Lat 39°42'09", long 110°40'38", in NW¼NE¼NW¼ sec.15, T.13 S., R.11 E., Carbon County, Hydrologic Unit 14060007, on right bank 11.5 mi (18.5 km) upstream from mouth, 9 mi (14.5 km) east of Helper, 13 mi (20.9 km) northeast of Wellington.

DRAINAGE AREA.--25.3 mi^2 (65.5 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1978 to current year (discontinued) (seasonal).

GAGE.--Water-stage recorder. Altitude of gage is 6,370 ft (1,940 m) from topographic map.

REMARKS.--Records good except when flow exceeds 3 ft^3/s (0.085 m^3/s), which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded discharge, 458 ft^3/s (13.0 m^3/s) Aug. 13, 1979, gage height, 1.59 ft (0.485 m); no flow Oct. 28, 1978, and several days in July and Aug. 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 344 ft^3/s (9.74 m^3/s) Sept. 10, gage height, 1.47 ft (0.448 m); no flow on several days in July and Aug.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.3						1.4	1.2	1.0	.03	.39
2	1.3	1.1						2.2	1.3	1.0	.03	.37
3	1.3	1.1						2.6	1.6	.86	.03	.34
4	1.3	1.1						1.7	1.1	.63	.04	.32
5	1.3	1.1						1.6	1.0	.49	.03	12
6	1.3	1.1						1.6	1.0	.49	.02	1.6
7	1.3	.97						1.3	.95	.56	.02	1.1
8	1.2	.97						1.6	1.0	.42	.02	5.3
9	1.2	.97						1.6	1.0	.30	.02	1.5
10	1.2	.86						1.4	1.0	.30	8.2	14
11	1.3	.97						1.4	1.0	.36	1.9	.70
12	2.8	.97						1.3	.95	.42	1.3	.78
13	6.2	.86						1.2	.86	.41	1.0	3.0
14	4.6	.62						1.2	.95	.30	.75	.49
15	6.2	.60						1.4	.95	.24	.76	.63
16	3.5	.58						1.8	.95	.19	1.2	.49
17	3.1	.56						1.4	.95	.24	.71	.63
18	3.1	.56						1.3	.86	.19	.49	.70
19	2.5	.56						1.3	.86	.19	.42	.70
20	2.2	.58						1.9	.86	.13	.40	.63
21	1.8	.60						2.3	.78	.09	.43	.78
22	1.6	.58						1.7	.78	.09	1.6	1.3
23	1.6	.56						1.3	.78	.09	.54	1.2
24	1.6	.56						1.3	.78	.19	.50	15
25	1.6	.54						1.3	.70	.24	.45	1.4
26	1.4	.54						1.7	.70	.24	.43	1.2
27	1.3	.54						2.4	.78	.13	.39	1.0
28	1.4	.54						1.7	.78	.09	.47	.95
29	1.4	.55						1.4	.86	.13	.38	1.0
30	1.4	.56						1.3	.70	.09	.73	1.0
31	1.4	---						1.2	---	.09	.50	---
TOTAL	64.7	23.00						48.8	27.98	10.19	23.79	70.50
MEAN	2.09	.77						1.57	.93	.33	.77	2.35
MAX	6.2	1.3						2.6	1.6	1.0	8.2	15
MIN	1.2	.54						1.2	.70	.09	.02	.32
AC-FT	128	46						97	55	20	47	140

09313965 COAL CREEK NEAR HELPER, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to current year.
SEDIMENT DATA: November 1978 to current year, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
19...	1200	1.6	850	8.3	6.0	2.0	11.3	99	--	320	0
NOV											
14...	1145	.40	1220	8.4	.5	.5	10.5	100	.56	480	83
MAY											
21...	1115	2.2	860	8.6	7.0	7.0	9.7	98	.65	320	0
JUN											
23...	1100	.95	880	8.6	30.0	16.0	8.2	104	--	320	16
JUL											
12...	1200	.65	890	8.7	25.5	18.0	7.7	101	--	310	24
AUG											
11...	1000	1.1	780	8.4	12.0	13.5	7.7	--	--	210	--
12...	0945	.88	950	8.4	19.0	16.0	7.6	97	1.9	270	0
SEP											
04...	1645	.39	950	8.8	26.0	22.5	7.2	104	--	300	9

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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY FIELD (MG/L AS CACO3)
OCT										
19...	--	54	46	70	32	1.7	3.4	390	0	320
NOV										
14...	--	71	74	100	31	2.0	5.3	470	8	400
MAY										
21...	12	51	47	81	35	2.0	2.4	380	14	340
JUN										
23...	--	41	52	75	34	1.8	4.2	340	15	300
JUL										
12...	--	37	54	87	37	2.1	4.0	310	19	280
AUG										
11...	--	37	28	89	48	3.0	4.2	--	--	--
12...	--	44	38	110	47	3.3	4.4	330	6	280
SEP										
04...	--	29	55	98	41	2.9	5.0	310	22	290

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	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)
OCT										
19...	--	3.1	150	18	.4	5.7	529	540	.72	2.3
NOV										
14...	--	3.1	260	26	.4	9.6	727	789	.99	.79
MAY										
21...	310	1.5	150	17	.3	7.6	526	544	.72	3.1
JUN										
23...	--	1.5	160	18	.4	7.6	518	541	.70	1.3
JUL										
12...	--	1.1	170	21	.4	5.7	533	551	.72	.94
AUG										
11...	--	--	150	52	.4	6.9	475	--	.65	1.4
12...	--	2.2	170	31	.4	8.2	567	576	.77	1.4
SEP										
04...	--	.9	170	21	.4	6.5	570	560	.78	.60

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	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)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
NOV											
14...	.030	.04	.64	.67	.38	.29	.27	1.60	4.9	.010	--
MAY											
21...	.150	--	1.3	1.40	.79	.61	.04	.280	.86	.010	1.8
JUN											
23...	--	--	--	--	--	--	--	--	--	--	3.1
JUL											
12...	--	--	--	--	--	--	--	--	--	--	3.0
AUG											
12...	.040	--	3.2	3.20	1.6	1.6	.29	1.70	5.2	.050	--

09313965 COAL CREEK NEAR HELPER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
OCT												
19...	1200	--	--	--	--	--	--	--	--	90	--	--
NOV												
14...	1145	3	--	2	100	0	100	0	<1	180	1	<1
MAY												
21...	1115	10	9	1	200	100	100	0	<1	80	0	<1
JUN												
23...	1100	--	--	--	--	--	--	--	--	120	--	--
JUL												
12...	1200	--	--	--	--	--	--	--	--	230	--	--
AUG												
11...	1000	--	--	--	--	--	--	--	--	160	--	--
12...	0945	10	6	4	--	--	--	0	<1	150	0	<1
SEP												
04...	1645	--	--	--	--	--	--	--	--	160	--	--

DATE	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (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)
OCT											
19...	--	--	--	--	--	--	11000	11000	40	--	--
NOV											
14...	0	--	0	11	--	1	4100	4100	10	4	--
MAY											
21...	10	10	0	15	13	2	6300	6300	20	0	0
JUN											
23...	--	--	--	--	--	--	140	--	<10	--	--
JUL											
12...	--	--	--	--	--	--	100	80	20	--	--
AUG											
11...	--	--	--	--	--	--	140000	140000	27	--	--
12...	70	60	10	79	76	3	32000	32000	86	27	27
SEP											
04...	--	--	--	--	--	--	220	--	<10	--	--

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)
OCT											
19...	--	--	--	--	410	350	60	--	--	--	--
NOV											
14...	3	60	10	50	90	60	30	.0	--	.0	11
MAY											
21...	3	30	0	50	190	170	20	.6	.1	.5	9
JUN											
23...	--	--	--	--	10	6	4	--	--	--	--
JUL											
12...	--	--	--	--	10	6	4	--	--	--	--
AUG											
11...	--	--	--	--	6600	6600	9	--	--	--	--
12...	0	--	--	--	1000	950	50	1.0	.7	.3	57
SEP											
04...	--	--	--	--	10	6	4	--	--	--	--

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)
OCT											
19...	--	--	--	--	--	--	--	--	--	--	--
NOV											
14...	--	2	3	--	0	590	0	720	30	--	4
MAY											
21...	9	0	2	2	0	620	90	530	40	0	40
JUN											
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
11...	--	--	--	--	--	--	--	--	--	--	--
12...	55	2	2	1	1	--	--	--	210	--	<3
SEP											
04...	--	--	--	--	--	--	--	--	--	--	--

09313965 COAL CREEK NEAR HELPER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
NOV 14...	1145	5.2	.6	.00	2
MAY 21...	1115	13	1.0	.00	35
AUG 12...	0945	9.5	6.5	.00	8

DATE	TIME	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)
AUG 12...	0945	<15	150	<7.2	87	<6.9	83

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	OCT 19,80	JUN 23,81	JUL 12,81	SEP 4,81
TIME	1200	1100	1200	1645
TOTAL CELLS/ML	770	490	90	620
DIVERSITY: DIVISION	0.5	0.9	0.6	0.2
.CLASS	0.5	0.9	0.6	0.2
..ORDER	0.5	1.4	0.6	1.0
...FAMILY	0.6	1.7	1.8	2.2
....GENUS	1.3	1.7	1.8	2.4

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...DICTYOSPHAERIACEAE								
....DICTYOSPHAERIUM	--	-	--	-	--	-	14	2
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	26	5	--	-	--	-
..ZYGNEMATALES								
...DESMIDIACEAE								
....COSMARIUM	--	-	--	-	13	14	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....MELOSIRA	--	-	--	-	--	-	170a	27
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	--	-	84	14
....COCCONEIS	--	-	--	-	13	14	--	-
...CYMBELLACEAE								
....CYMBELLA	14	2	13	3	--	-	14	2
...DIATOMACEAE								
....DIATOMA	--	-	--	-	--	-	14	2
...FRAGILARIACEAE								
....SYNEDRA	--	-	13	3	--	-	--	-
...NAVICULACEAE								
....GYROSIGMA	--	-	13	3	--	-	--	-
....NAVICULA	14	2	13	3	26a	29	210a	34
....PLEUROSIGMA	--	-	--	-	--	-	14	2
...NITZSCHIACEAE								
....NITZSCHIA	55	7	26	5	39a	43	98a	16
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	51	11	--	-	--	-
..NOSTOCALES								
...NOSTOCACEAE								
....APHANIZOMENON	--	-	330a	68	--	-	--	-
..OSCILLATORIALES								
...OSCILLATORIACEAE								
....LYNGBYA	140a	18	--	-	--	-	--	-
....OSCILLATORIA	550a	71	--	-	--	-	--	-

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent
(b) Observed organism, may not have been counted: Less than 15 percent

09313965 COAL CREEK NEAR HELPER, UT--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)
NOV 14...	1145	16.9	16.4	.390	.000	1280
JUL 12...	1200	1.89	1.58	.140	.020	2210
AUG 12...	0945	.945	.866	.160	.060	494
SEP 04...	1645	31.7	30.1	6.83	1.17	234

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	COAL IN BOTTOM MATE-RIAL (GM/KG)
OCT 19...	1200	1.6	2.0	961	4.2	93	98	100	--	4.00
NOV 14...	1145	.40	.5	396	.43	--	--	--	--	--
MAY 21...	1115	2.2	7.0	404	2.4	67	92	99	100	--
JUN 23...	1100	.95	16.0	6	.02	--	--	--	--	--
JUL 12...	1200	.65	18.0	3	.01	--	--	--	--	--
AUG 12...	0945	.88	16.0	2710	6.4	--	--	--	--	--
SEP 04...	1645	.39	22.5	14	.01	--	--	--	--	--

09313975 SOLDIER CREEK BELOW MINE, NEAR WELLINGTON, UTAH

LOCATION.--Lat 39°41'43", long 110°36'52", in NW¼NW¼SE¼ sec.18, T.13 S., R.12 E., Carbon County, Hydrologic Unit 14060007, on right bank 16 mi (2.6 km) upstream from mouth, 0.4 mi (0.6 km) downstream from Soldier Creek Mine, 14 mi (23 km) northeast of Wellington.

DRAINAGE AREA.--17.7 mi^2 (45.8 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1978 to current year (seasonal).

GAGE.--Water-stage recorder. Altitude of gage is 6,650 ft (2,027 m) from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 472 ft^3/s (13.4 m^3/s) Sept. 23, 1981, gage height, 4.50 ft (1.372 m); minimum, 0.08 ft^3/s (0.002 m^3/s) Aug. 5, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 472 ft^3/s (13.4 m^3/s) Sept. 23, gage height, 4.50 ft (1.372 m) from high-water mark; minimum, 0.08 ft^3/s (0.002 m^3/s) Aug. 5.

REVISIONS.--The maximum discharges for the water years 1979 and 1980 have been revised to 81 ft^3/s (2.29 m^3/s) Aug. 13, 1979, gage height, 2.97 ft (0.905 m), and 119 ft^3/s (3.37 m^3/s) Aug. 25, Sept. 10, 1980, gage height, 3.27 ft (0.997 m), superseding figures published in reports for 1979 and 1980. Revised daily discharges, in cubic feet per second, for high-water periods in these years are given below. These figures supersede those published in the reports for 1979, 1980.

Apr.	17, 1979	24	May	7	27	May	1, 1980	44	May	24	32
	18	20		8	28		2	45		25	31
	19	18		13	26		3	47		26	29
	20	18		14	29		8	52		29	24
	21	19		15	29		9	67		30	22
	22	20		16	31		10	51		31	21
	23	22		17	32		11	56	June	1	20
	24	22		18	32		12	56		2	20
	25	22		19	31		13	44		3	18
	28	31		20	30		14	43		4	18
	29	36		21	29		15	43		5	17
	30	33		22	29		16	42		6	16
May	1	30		25	26		17	40		7	15
	2	28		26	25		18	38	Sept.	9	8.8
	3	33		27	29		21	37		10	26
	4	33		28	24		22	37		12	33
	5	34		29	21		23	35			
	6	31	Aug.	13	16						

MONTH	TOTAL	MEAN	MAX	MIN	AC-FT
APR 1979	394.2	13.1	36	1.1	782
MAY	884	28.5	60	21	1750
AUG	49.43	1.59	16	.56	98
MAY 1980	1261	40.7	67	21	2500
JUNE	322.4	10.7	20	5.7	639
SEPT	72.88	2.43	26	.99	145

09313975 SOLDIER CREEK BELOW MINE, NEAR WELLINGTON, UTAH--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.3						2.5	1.5	.83	.28	.88
2	1.2	1.3						4.0	1.5	.78	.24	.88
3	1.3	1.3						3.1	1.6	.77	.20	.71
4	1.2	1.3						2.3	1.3	.64	.36	.68
5	1.0	1.3						2.4	1.3	.45	.40	12
6	1.1	1.2						2.7	.97	.50	.28	1.6
7	.97	1.2						2.4	.83	.45	.45	1.3
8	1.0	1.3						2.5	.97	.40	.36	4.9
9	1.2	1.3						2.1	.75	.36	.17	2.0
10	1.2	1.3						2.0	.90	.50	8.5	3.4
11	1.1	1.2						2.5	.93	.55	1.9	2.0
12	2.6	1.5						2.4	.93	.66	1.2	2.6
13	2.7	1.3						2.1	.85	.53	.92	1.5
14	4.8	.94						2.0	.78	.66	.79	1.3
15	5.4	.96						2.2	.83	.66	2.9	1.4
16	2.3	.92						2.3	.79	.55	.83	1.4
17	1.6	.87						2.1	.77	.53	.97	1.3
18	1.5	.84						2.2	.77	.40	.78	1.3
19	1.3	.85						2.2	.92	.36	.82	1.3
20	1.3	.90						2.5	.89	.36	.90	1.4
21	1.2	.93						2.7	.77	.36	1.2	1.1
22	1.3	.93						2.2	.77	.36	3.4	1.0
23	1.3	.93						2.2	.77	.36	.66	7.7
24	1.3	.90						2.2	.93	.36	.80	28
25	1.3	.88						1.9	.93	.36	.80	2.7
26	1.2	.88						2.4	.77	.36	.90	2.3
27	1.3	.89						3.0	.77	.32	.97	1.9
28	1.3	.90						2.3	3.1	.28	1.0	1.7
29	1.3	.91						2.1	.83	.28	.80	1.6
30	1.3	.91						1.9	.55	.28	.90	1.5
31	1.3	---						1.7	---	.28	.87	---
TOTAL	50.07	32.14						73.1	30.27	14.54	35.55	93.35
MEAN	1.62	1.07						2.36	1.01	.47	1.15	3.11
MAX	5.4	1.5						4.0	3.1	.83	8.5	28
MIN	.97	.84						1.7	.55	.28	.17	.68
AC-FT	99	64						145	60	29	71	185

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 current year, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
18...	1530	1.6	960	8.4	10.5	7.0	9.6	99	--	370	0
NOV											
15...	1515	2.5	1050	8.7	-2.0	.0	11.4	98	.20	380	0
MAY											
26...	1015	1.9	770	8.6	13.0	10.0	9.1	101	.38	320	7
JUN											
23...	1645	.89	1040	8.7	31.5	24.0	7.0	104	--	320	0
JUL											
09...	1515	.48	800	8.7	27.0	25.5	7.0	108	--	270	0
AUG											
10...	1615	1.1	1190	8.5	17.0	18.5	7.0	--	--	280	--
12...	1415	.84	1040	8.5	22.0	21.0	7.2	101	1.2	290	0
SEP											
03...	1500	.81	1020	8.7	27.0	22.5	8.2	119	--	330	1

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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY FIELD (MG/L AS CACO3)
OCT										
18...	--	61	52	87	34	2.0	3.2	460	6	390
NOV										
15...	--	61	55	87	33	1.9	3.1	490	13	420
MAY										
26...	17	51	46	56	28	1.4	1.8	350	14	310
JUN										
23...	--	40	53	120	44	2.9	8.4	380	18	340
JUL										
09...	--	34	46	78	38	2.1	3.4	310	16	280
AUG										
10...	--	33	48	150	53	4.6	8.4	--	--	--
12...	--	46	43	130	48	3.8	8.6	500	16	440
SEP										
03...	--	40	55	110	42	3.1	4.6	360	20	330

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	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)
OCT										
18...	300	3.0	150	20	.4	8.6	548	615	.75	2.4
NOV										
15...	--	1.6	160	16	.4	8.8	565	647	.77	3.8
MAY										
26...	300	1.5	110	11	.3	7.9	415	465	.56	2.1
JUN										
23...	--	1.3	210	24	.6	7.2	623	669	.85	1.5
JUL										
09...	--	1.1	120	18	.4	7.9	462	477	.63	.60
AUG										
10...	--	--	130	27	.7	6.6	634	--	.86	1.9
12...	--	2.7	120	26	.7	9.6	595	648	.81	1.4
SEP										
03...	--	1.3	200	30	.5	8.6	601	646	.82	1.3

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	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)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
NOV											
15...	.040	.05	.35	.39	.25	.14	.06	.090	.28	.010	--
MAY											
26...	.090	--	.62	.71	.35	.36	.02	.030	.09	.010	1.3
JUN											
23...	--	--	--	--	--	--	--	--	--	--	6.3
JUL											
09...	--	--	--	--	--	--	--	--	--	--	2.5
AUG											
12...	.090	--	.87	.96	.00	1.0	.24	.260	.80	.030	--

09313975 SOLDIER CREEK BELOW MINE, NEAR WELLINGTON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
OCT 18...	1530	--	--	--	--	--	--	--	--	90	--	--
NOV 15...	1515	2	--	2	300	200	100	0	<1	130	1	<1
MAY 26...	1015	2	0	2	100	0	100	0	<1	60	0	<1
JUN 23...	1645	--	--	--	--	--	--	--	--	290	--	--
JUL 09...	1515	--	--	--	--	--	--	--	--	200	--	--
AUG 10...	1615	--	--	--	--	--	--	--	--	310	--	--
12...	1415	4	1	3	--	--	--	0	<1	290	0	<1
SEP 03...	1500	--	--	--	--	--	--	--	--	200	--	--

DATE	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (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)
OCT 18...	--	--	--	--	--	--	960	--	<10	--	--
NOV 15...	0	--	0	10	--	1	1900	--	<10	4	--
MAY 26...	10	10	0	5	4	1	420	410	10	0	0
JUN 23...	--	--	--	--	--	--	80	70	10	--	--
JUL 09...	--	--	--	--	--	--	220	190	30	--	--
AUG 10...	--	--	--	--	--	--	290	270	18	--	--
12...	10	10	0	16	13	3	3800	3700	140	18	17
SEP 03...	--	--	--	--	--	--	340	320	17	--	--

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)
OCT 18...	--	--	--	--	80	20	60	--	--	--	--
NOV 15...	3	30	10	20	110	60	50	.0	--	.0	9
MAY 26...	2	20	0	40	30	10	20	.3	.1	.2	2
JUN 23...	--	--	--	--	10	0	10	--	--	--	--
JUL 09...	--	--	--	--	20	10	10	--	--	--	--
AUG 10...	--	--	--	--	30	20	11	--	--	--	--
12...	1	--	--	--	170	130	43	.3	.1	.2	12
SEP 03...	--	--	--	--	40	20	21	--	--	--	--

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)
OCT 18...	--	--	--	--	--	--	--	--	--	--	--
NOV 15...	--	1	1	--	0	580	0	610	20	--	<3
MAY 26...	2	0	1	0	1	460	0	470	0	0	20
JUN 23...	--	--	--	--	--	--	--	--	--	--	--
JUL 09...	--	--	--	--	--	--	--	--	--	--	--
AUG 10...	--	--	--	--	--	--	--	--	--	--	--
12...	9	3	1	1	0	--	--	--	50	50	4
SEP 03...	--	--	--	--	--	--	--	--	--	--	--

09313975 SOLDIER CREEK BELOW MINE, NEAR WELLINGTON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
NOV 15...	1515	7.3	.6	.00	2
MAY 26...	1015	11	.2	.00	7
AUG 12...	1415	3.0	1.4	.00	2

DATE	TIME	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)
AUG 12...	1415	<18	23	10	15	9.6	15

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	OCT 18,80	JUN 23,81	JUL 9,81	AUG 12,81	SEP 3,81
TIME	1530	1645	1515	1415	1500
TOTAL CELLS/ML	39	590	51	170	530
DIVERSITY: DIVISION	0.0	1.0	0.0	1.0	0.0
.CLASS	0.0	1.0	0.0	1.0	0.0
..ORDER	0.0	1.0	0.0	1.0	0.0
...FAMILY	0.9	1.3	1.0	2.0	0.7
....GENUS	0.9	1.3	1.5	2.0	0.7

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..PENNALES										
...DIATOMACEAE										
....DIATOMA	--	-	--	-	--	-	14	8	--	-
...FRAGILARIACEAE										
....FRAGILARIA	--	-	--	-	13a	25	--	-	--	-
....SYNEDRA	--	-	--	-	13a	25	29a	17	--	-
...NAVICULACEAE										
....NAVICULA	13a	33	39	7	--	-	14	8	460a	86
...NITZSCHIACEAE										
....NITZSCHIA	26a	67	220a	37	26a	50	29a	17	14	3
...SURIRELLACEAE										
....SURIRELLA	--	-	--	-	--	-	--	-	57	11
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..NOSTOCALES										
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	--	-	86a	50	--	-
..OSCILLATORIALES										
...OSCILLATORIACEAE										
....OSCILLATORIA	--	-	330a	57	--	-	--	-	--	-

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organism, may not have been counted: Less than 1/2 percent.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)
NOV 15...	1515	68.6	65.5	3.73	.080	831
JUL 09...	1515	63.3	60.9	1.70	.040	1410

09313975 SOLDIER CREEK BELOW MINE, NEAR WELLINGTON, UT--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	COAL IN BOTTOM MATE-RIAL (GM/KG)
OCT 18...	1530	1.6	7.0	225	.97	3.00
NOV 15...	1515	2.5	.0	326	2.2	--
MAY 26...	1015	1.9	10.0	79	.41	--
JUN 23...	1645	.89	24.0	18	.04	--
JUL 09...	1515	.48	25.5	6	.01	--
AUG 12...	1415	.84	21.0	406	.92	--
SEP 03...	1500	.81	22.5	21	.05	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
MAY 26...	1015	1.9	10.0	3	6	13	21

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
MAY 26...	27	37	50	66	91	100

09313985 DUGOUT CREEK NEAR SUNNYSIDE, UTAH

LOCATION.--Lat 39°40'47", long 110°32'52", in NW¼NW¼SW¼, sec.23, T.13 S., R.12 E., Carbon County, Hydrologic Unit 14060007, on right bank, 14 mi (22.5 km) northeast of Wellington.

DRAINAGE AREA.--5.8 mi^2 (15.02 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to September 1981 (discontinued) (seasonal).

GAGE.--Water-stage recorder. Altitude of gage is 6,960 ft (2,121 m) from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 127 ft^3/s (3.60 m^3/s) Sept. 5, 1981, gage height, 5.80 ft (1.768 m); no flow several days July to Sept. 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 127 ft^3/s (3.60 m^3/s) Sept. 5, gage height, 5.80 ft (1.768 m); no flow several days July to Sept.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.33	.27						.65	.47	.19	.00	.10
2	.33	.27						.71	.47	.24	.00	.10
3	.37	.27						.81	.47	.29	.00	.05
4	.37	.27						.70	.44	.23	.00	.09
5	.37	.27						.70	.33	.20	.00	4.0
6	.40	.27						.61	.33	.17	.00	.04
7	.40	.27						.63	.30	.15	.00	.01
8	.40	.27						.63	.30	.12	.00	.35
9	.40	.27						.63	.30	.09	.00	.09
10	.40	.27						.65	.27	.18	.19	.22
11	.44	.27						.63	.27	.18	.26	.09
12	.59	.30						.63	.27	.21	.12	.03
13	.63	.27						.63	.27	.15	.20	.03
14	.55	.21						.63	.27	.12	.20	.00
15	.55	.03						.59	.27	.09	.14	.00
16	.40	.03						.63	.27	.07	.20	.03
17	.40	.03						.63	.24	.09	.20	.00
18	.40	.04						.59	.21	.44	.12	.00
19	.37	.04						.59	.20	.30	.14	.00
20	.33	.04						.63	.19	.12	.18	.00
21	.30	.04						.71	.19	.09	.25	.03
22	.30	.04						.63	.18	.03	.25	.06
23	.30	.04						.59	.18	.03	.03	.13
24	.30	.04						.59	.17	.07	.04	.78
25	.27	.04						.59	.17	.03	.09	.09
26	.30	.04						.55	.15	.03	.10	.09
27	.30	.04						.59	.16	.03	.13	.09
28	.30	.04						.55	.21	.00	.15	.09
29	.30	.04						.47	.21	.00	.09	.12
30	.30	.04						.47	.15	.00	.11	.09
31	.30	---						.51	---	.00	.10	---
TOTAL	11.70	4.36						19.15	7.91	3.94	3.29	6.80
MEAN	.38	.15						.62	.26	.13	.11	.23
MAX	.63	.30						.81	.47	.44	.26	4.0
MIN	.27	.03						.47	.15	.00	.00	.00
AC-FT	23	8.6						38	16	7.8	6.5	13

09313985 DUGOUT CREEK NEAR SUNNYSIDE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1979 to current year.
SEDIMENT DATA: November 1979 to current year, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
18...	1215	.49	710	8.3	4.0	1.5	10.8	98	--	350	51
NOV											
15...	1100	.05	820	8.1	-1.5	1.0	10.4	94	.24	380	35
MAY											
21...	1515	.73	640	8.4	9.5	6.5	9.6	100	.29	310	39
JUN											
23...	1415	.21	650	8.4	31.0	20.5	7.0	100	--	320	34
JUL											
09...	1800	.09	700	8.3	25.0	19.0	7.6	104	--	340	45
AUG											
10...	1500	.07	770	8.1	19.0	15.5	7.4	--	--	340	--
12...	1130	.13	660	8.4	16.5	12.5	8.4	100	.40	330	53
SEP											
03...	1100	.05	670	8.3	20.0	12.0	8.3	99	--	320	41

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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY FIELD (MG/L AS CACO3)
OCT										
18...	--	61	49	26	14	.6	2.7	370	0	300
NOV										
15...	--	68	52	27	13	.6	3.9	420	0	350
MAY										
21...	29	56	41	23	14	.6	2.2	330	1	270
JUN										
23...	--	57	42	22	13	.5	3.7	340	4	290
JUL										
09...	--	60	45	26	14	.6	4.1	360	0	290
AUG										
10...	--	60	47	26	14	.7	4.1	--	--	--
12...	--	63	41	24	14	.6	3.2	330	4	280
SEP										
03...	--	61	41	24	14	.7	3.8	340	0	280

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	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)
OCT										
18...	--	3.0	87	6.2	.3	8.3	404	423	.55	.53
NOV										
15...	--	5.3	110	6.8	.3	9.0	426	485	.58	.06
MAY										
21...	280	2.2	77	5.2	.3	7.5	376	381	.51	.74
JUN										
23...	--	2.2	84	5.8	.3	8.8	384	395	.52	.22
JUL										
09...	--	2.9	88	5.7	.3	9.8	402	416	.55	.10
AUG										
10...	--	--	92	6.8	.3	9.8	415	--	.56	.08
12...	--	2.2	76	5.4	.3	9.2	377	389	.51	.13
SEP										
03...	--	2.7	76	5.8	.5	9.2	384	389	.52	.05

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	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)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
NOV											
15...	.030	.04	.24	.27	.03	.24	.00	.030	.09	.020	--
MAY											
21...	.090	--	.53	.62	.35	.27	.02	.020	.06	.010	1.6
JUN											
23...	--	--	--	--	--	--	--	--	--	--	2.8
JUL											
09...	--	--	--	--	--	--	--	--	--	--	3.1
AUG											
12...	.030	--	.48	.51	.24	.27	.13	.150	.46	.020	--

09313985 DUGOUT CREEK NEAR SUNNYSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
OCT												
18...	1215	--	--	--	--	--	--	--	--	30	--	--
NOV												
15...	1100	1	--	1	200	100	100	10	<1	100	0	<1
MAY												
21...	1515	1	0	1	100	10	90	0	<1	30	0	<1
JUN												
23...	1415	--	--	--	--	--	--	--	--	70	--	--
JUL												
09...	1800	--	--	--	--	--	--	--	--	150	--	--
AUG												
10...	1500	--	--	--	--	--	--	--	--	90	--	--
12...	1130	2	1	1	--	--	--	0	<1	70	0	<1
SEP												
03...	1100	--	--	--	--	--	--	--	--	80	--	--

DATE	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (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)
OCT											
18...	--	--	--	--	--	--	110	--	<10	--	--
NOV											
15...	0	--	0	5	--	1	80	60	20	2	--
MAY											
21...	10	10	0	5	4	1	120	--	<10	0	0
JUN											
23...	--	--	--	--	--	--	60	--	<10	--	--
JUL											
09...	--	--	--	--	--	--	120	100	20	--	--
AUG											
10...	--	--	--	--	--	--	320	310	13	--	--
12...	20	20	0	7	6	1	1400	--	<10	0	0
SEP											
03...	--	--	--	--	--	--	350	--	<10	--	--

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)
OCT											
18...	--	--	--	--	30	10	20	--	--	--	--
NOV											
15...	2	10	0	20	10	0	20	.0	--	.0	7
MAY											
21...	2	10	0	30	10	1	9	.3	.1	.2	1
JUN											
23...	--	--	--	--	10	4	6	--	--	--	--
JUL											
09...	--	--	--	--	10	3	7	--	--	--	--
AUG											
10...	--	--	--	--	20	10	8	--	--	--	--
12...	1	--	--	--	90	80	8	.1	.1	.0	2
SEP											
03...	--	--	--	--	40	20	25	--	--	--	--

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)
OCT											
18...	--	--	--	--	--	--	--	--	--	--	--
NOV											
15...	--	2	0	--	0	360	0	400	80	--	3
MAY											
21...	1	0	1	0	1	380	60	320	20	20	4
JUN											
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
09...	--	--	--	--	--	--	--	--	--	--	--
AUG											
10...	--	--	--	--	--	--	--	--	--	--	--
12...	0	2	0	0	0	--	--	--	10	7	3
SEP											
03...	--	--	--	--	--	--	--	--	--	--	--

09313985 DUGOUT CREEK NEAR SUNNYSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
NOV 15...	1100	16	.1	.00	2
MAY 21...	1515	17	.1	.00	3
AUG 12...	1130	3.5	.8	.00	10

DATE	TIME	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)
AUG 12...	1130	<7.0	5.1	7.2	4.5	7.0	4.3

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	OCT 18,80	JUN 23,81	JUL 9,81	AUG 12,81	SEP 3,81
TIME	1215	1415	1800	1130	1100
TOTAL CELLS/ML	13	77	52	350	100
DIVERSITY: DIVISION	0.0	0.0	0.0	0.0	0.0
.CLASS	0.0	0.0	0.0	0.0	0.0
..ORDER	0.0	0.0	0.0	0.0	0.6
...FAMILY	0.0	1.5	0.8	1.3	1.8
....GENUS	0.0	1.5	0.8	1.3	1.8

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...OOCYSTACEAE										
....SELENASTRUM	13	<100	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	--	-	--	-	--	-	--	-	14	14
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	39a	50	13a	25	28	8	--	-
...FRAGILARIACEAE										
....SYNEDRA	--	-	26a	33	--	-	--	-	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	--	-	--	-	--	-	14	14
...NAVICULACEAE										
....NAVICULA	--	-	--	-	--	-	170a	48	29a	29
...NITZSCHIACEAE										
....NITZSCHIA	--	-	13a	17	39a	75	150a	44	43a	43

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organinm, may not have been counted: Less than 1/2 percent.

09313985 DUGOUT CREEK NEAR SUNNYSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)
NOV						
15...	1100	1.81	1.65	.030	.000	5330
JUL						
09...	1800	.866	.551	.320	.410	984
AUG						
12...	1130	3.78	3.31	2.99	1.31	157

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	COAL IN BOTTOM MATE-RIAL (GM/KG)
OCT						
18...	1215	.49	1.5	44	.06	3.00
NOV						
15...	1100	.05	1.0	21	.00	--
MAY						
21...	1515	.73	6.5	40	.08	--
JUN						
23...	1415	.21	20.5	12	.01	--
JUL						
09...	1800	.09	19.0	5	.00	--
AUG						
12...	1130	.13	12.5	185	.06	--
SEP						
03...	1100	.05	12.0	22	.00	--

09314250 PRICE RIVER BELOW MILLER CREEK, NEAR WELLINGTON, UTAH

LOCATION.--Lat 39°26'59", long 110°37'38", in SE¼NE¼ sec.12, T.16 S., R.11 E., Emery County, Hydrologic Unit 14060007, on left bank 100 ft (30 m) downstream from highway bridge, and 8.5 mi (13.7 km) southeast of Wellington.

DRAINAGE AREA.--956 mi^2 (2,476 km^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 (1,600 m) from topographic map.

REMARKS.--Records good except those of no gage-height record, Nov. 3 to Jan. 13 and Jan. 22 to Mar.18, which are poor. Diversions for irrigation above station. Flow affected by storage in Scofield Reservoir.

AVERAGE DISCHARGE.--9 years, 84.0 ft^3/s (2.379 m^3/s), 60,860 acre-ft/yr (75.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,880 ft^3/s (81.6 m^3/s) September 11, 1975, gage height, 9.97 ft (3.039 m) from floodmark; minimum, 0.68 ft^3/s (0.019 m^3/s) June 30, July 1, 2, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft^3/s (22.7 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 15	1000	*1,760	49.8	9.20	2.804
Aug. 15	1700	926	26.2	6.47	1.972
Sept. 5	1800	1,160	32.9	7.27	2.216

Minimum, 13 ft^3/s (0.368 m^3/s) Sept. 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	41	28	23	18	30	24	27	43	40	25	32
2	48	37	27	27	18	35	28	34	41	32	26	30
3	41	35	26	28	24	37	36	71	48	42	28	31
4	47	33	24	27	26	31	32	55	44	26	26	30
5	47	32	24	26	27	33	27	42	38	22	26	334
6	44	29	27	24	23	34	28	40	35	19	25	185
7	37	28	24	19	24	36	41	39	34	18	23	86
8	29	28	22	21	30	31	38	38	28	20	24	156
9	32	27	17	25	25	28	34	39	32	30	21	121
10	28	28	18	35	19	30	59	38	30	38	22	60
11	26	28	22	41	22	28	60	38	30	50	140	68
12	34	29	30	41	25	28	49	38	28	38	59	48
13	61	28	29	30	31	27	44	38	29	145	131	41
14	135	27	28	35	34	28	40	35	32	105	71	58
15	670	26	33	35	37	29	96	36	36	44	100	35
16	158	24	40	38	34	30	76	37	34	32	58	23
17	85	22	39	40	34	31	56	39	35	20	47	19
18	74	23	40	40	34	28	49	39	33	42	38	14
19	67	25	41	41	31	26	52	36	28	57	32	15
20	56	27	39	40	29	26	73	37	27	28	31	16
21	50	26	38	36	28	32	52	48	31	24	65	20
22	47	29	36	24	24	27	44	44	30	21	86	22
23	42	33	34	23	25	27	38	41	29	34	56	19
24	42	33	32	24	26	39	35	38	25	60	63	76
25	43	32	32	21	27	42	33	36	22	32	49	68
26	45	30	34	17	28	40	37	36	23	27	37	43
27	47	28	36	25	29	40	36	36	22	24	33	40
28	45	26	34	27	27	48	37	40	39	22	30	38
29	43	29	33	32	---	41	34	42	110	25	31	38
30	44	30	26	30	---	34	30	98	58	24	34	39
31	44	---	22	23	---	30	---	37	---	26	40	---
TOTAL	2258	873	935	918	759	1006	1318	1292	1074	1167	1477	1805
MEAN	72.8	29.1	30.2	29.6	27.1	32.5	43.9	41.7	35.8	37.6	47.6	60.2
MAX	670	41	41	41	37	48	96	98	110	145	140	334
MIN	26	22	17	17	18	26	24	27	22	18	21	14
AC-FT	4480	1730	1850	1820	1510	2000	2610	2560	2130	2310	2930	3580

CAL YR 1980 TOTAL 76063 MEAN 208 MAX 1900 MIN 13 AC-FT 150900
WTR YR 1981 TOTAL 14882 MEAN 40.8 MAX 670 MIN 14 AC-FT 29520

09314280 DESERT SEEP WASH NEAR WELLINGTON, UTAH

LOCATION.--Lat 39°25'16", long 110°38'44", in SW¼NW¼ sec.24, T.16 S., R.11 E., Emery County, Hydrologic Unit 14060007, on left bank 2,000 ft (610 m) above mouth, and 9.5 mi (15.3 km) southeast of Wellington.

DRAINAGE AREA.--191 mi^2 (495 km^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 (1,595 m) from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation.

AVERAGE DISCHARGE.--9 years, 22.6 ft^3/s (0.640 m^3/s), 16,370 acre-ft/yr (20.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,060 ft^3/s (58.3 m^3/s) July 24, 1977, gage height, 10.00 ft (3.048 m) from floodmarks from rating curve extended above 70 ft^3/s (1.98 m^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 (4.25 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 15	1230	313	8.86	4.97	1.515
Apr. 15	1800	250	7.08	4.64	1.414
June 29	1830	202	5.72	4.24	1.292
July 24	1730	281	7.96	4.75	1.448
Aug. 15	unknown	*318	9.01	5.00	1.524
Aug. 22	0130	242	6.85	4.53	1.381
Sept. 8	0630	270	7.65	4.70	1.433

Minimum discharge, 1.90 ft^3/s (0.054 m^3/s) Aug. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	69	18	19	12	7.6	15	16	43	26	6.0	30
2	37	67	16	18	12	9.2	16	16	43	27	5.0	28
3	39	66	17	18	10	12	17	16	44	29	4.0	26
4	41	63	15	17	9.0	11	20	17	39	30	5.0	20
5	39	52	17	17	11	10	14	22	30	25	5.0	88
6	37	39	20	16	10	11	11	18	26	21	4.0	76
7	35	36	19	17	9.0	12	11	18	24	20	3.5	65
8	33	34	16	18	10	12	15	17	23	15	2.3	94
9	34	30	20	19	10	10	14	21	19	11	6.9	110
10	30	32	18	19	9.0	9.3	9.8	21	20	16	7.8	65
11	29	31	14	20	7.0	9.2	14	22	19	18	13	72
12	31	26	15	20	8.0	11	18	27	17	19	14	38
13	43	26	17	21	8.0	12	22	22	20	19	26	31
14	66	27	18	19	9.0	18	22	23	17	19	25	24
15	154	25	20	18	10	19	54	24	18	19	120	20
16	109	19	19	16	11	19	51	31	21	16	49	17
17	93	16	18	17	12	20	26	27	14	18	32	14
18	89	29	18	17	12	20	19	26	10	20	30	11
19	85	31	20	16	15	19	21	23	12	18	27	9.7
20	85	26	20	17	12	19	26	20	12	12	19	12
21	78	22	20	15	11	19	31	26	17	7.4	20	17
22	73	20	21	16	9.0	18	29	26	15	8.9	120	15
23	66	19	21	16	9.9	17	17	24	16	9.7	65	12
24	64	21	20	12	11	18	21	27	13	51	55	11
25	60	17	22	10	12	18	25	22	9.2	19	56	20
26	62	16	24	8.0	12	16	17	18	7.4	16	49	13
27	63	16	23	10	13	18	29	25	7.4	14	45	12
28	66	16	22	9.0	8.2	18	15	37	36	11	38	13
29	65	18	23	11	---	11	14	33	75	10	26	12
30	65	20	21	9.0	---	14	14	45	23	8.0	23	8.9
31	70	---	21	7.0	---	17	---	43	---	7.0	34	---
TOTAL	1880	929	593	482.0	292.1	454.3	627.8	753	690.0	560.0	935.5	984.6
MEAN	60.6	31.0	19.1	15.5	10.4	14.7	20.9	24.3	23.0	18.1	30.2	32.8
MAX	154	69	24	21	15	20	54	45	75	51	120	110
MIN	29	16	14	7.0	7.0	7.6	9.8	16	7.4	7.0	2.3	8.9
AC-FT	3730	1840	1180	956	579	901	1250	1490	1370	1110	1860	1950

CAL YR 1980 TOTAL 15626.9 MEAN 42.7 MAX 390 MIN 7.7 AC-FT 31000
WTR YR 1981 TOTAL 9181.3 MEAN 25.2 MAX 154 MIN 2.3 AC-FT 18210

09314340 GRASSY TRAIL CREEK AT SUNNYSIDE, UTAH

LOCATION.--Lat 39°33'20", long 110°22'46", in NE¼NW¼NW¼ sec.5, T.15 S., R.14 E., Carbon County, Hydrologic Unit 14060007, on left bank 13 mi (21 km) upstream from mouth, 0.1 mi (0.2 km) downstream from Slaughter Canyon in Sunnyside.

DRAINAGE AREA.--40.1 mi^2 (103.9 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,540 ft (1,993 m) from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 138 ft^3/s (3.91 m^3/s) May 23, 1980, gage height, 3.13 ft (0.954 m); no flow several days in February 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 41 ft^3/s (1.16 m^3/s) July 2, gage height, 1.95 ft (0.594 m); no flow several days in Feb.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	2.3	1.4	1.7	.35	.43	1.7	2.5	6.9	.63	.38	.36
2	2.8	2.2	1.4	1.5	1.5	1.6	1.7	6.8	7.1	3.4	.31	.33
3	2.7	2.2	1.5	1.4	1.6	1.2	1.9	14	7.1	1.2	.30	1.6
4	2.3	1.9	1.6	1.3	1.8	1.9	1.7	13	7.1	.83	.27	1.9
5	2.3	1.9	1.4	1.1	1.4	1.8	1.7	12	6.2	.76	.28	4.5
6	2.0	2.0	1.5	1.2	1.9	1.9	1.8	12	5.3	.89	1.7	2.6
7	2.1	2.1	1.6	1.1	2.0	2.0	1.9	11	5.2	2.5	1.8	3.0
8	2.1	1.8	1.4	1.2	1.9	1.8	2.2	9.0	5.3	2.1	1.8	3.1
9	2.1	1.8	1.3	1.2	1.8	.46	2.3	7.9	2.3	2.6	1.9	2.2
10	2.3	1.7	1.4	1.4	1.5	.59	2.6	2.5	.85	2.4	2.4	2.2
11	2.4	2.1	1.3	1.7	1.7	1.2	2.9	1.7	.78	.89	.84	1.8
12	2.8	2.1	1.4	1.8	1.6	1.8	2.6	2.2	.70	.71	.97	.42
13	3.5	1.9	1.5	1.9	1.5	1.7	1.7	3.2	.68	.71	.64	.36
14	2.7	2.0	1.4	2.0	.26	2.1	.80	3.0	.71	.61	.53	.32
15	3.1	1.8	1.3	1.9	.12	2.2	15	2.9	1.2	.58	1.3	.32
16	2.7	1.8	1.5	1.8	.80	1.6	12	2.3	2.3	2.1	.76	1.7
17	2.7	1.4	1.6	2.1	1.2	2.0	15	3.5	2.5	2.8	.49	1.6
18	2.7	1.4	1.3	1.9	1.1	1.2	15	5.4	2.5	2.4	1.8	1.4
19	2.7	1.3	1.4	1.7	1.2	1.6	17	7.3	2.2	2.3	1.9	.72
20	2.7	1.5	1.6	1.5	1.2	1.5	11	6.9	.84	1.7	1.7	1.2
21	2.2	1.6	1.7	1.3	.16	1.7	11	6.8	.63	.77	1.8	.75
22	2.1	1.4	1.7	1.2	.04	2.4	10	7.0	1.4	.92	2.9	.26
23	2.4	1.5	1.6	1.0	.31	2.6	8.7	5.4	2.3	.44	2.2	.82
24	2.2	1.3	1.7	.74	1.2	1.8	7.8	5.4	2.1	.61	2.1	1.7
25	2.3	1.5	1.7	.53	2.0	2.0	7.2	5.2	1.7	1.5	.60	1.6
26	2.3	1.9	1.7	1.0	2.0	1.3	7.6	3.5	2.6	1.3	.37	1.9
27	2.0	2.2	1.7	1.4	1.8	1.7	7.2	3.3	1.2	.87	.38	1.8
28	1.9	2.0	1.7	1.4	.64	1.9	7.2	3.5	1.1	.75	.53	1.5
29	1.9	1.7	1.6	1.2	---	1.9	7.7	2.9	1.9	1.2	.33	1.5
30	1.9	1.8	1.5	1.3	---	1.9	6.4	4.1	.87	1.9	1.5	.45
31	2.0	---	1.6	.50	---	1.3	---	6.0	---	1.7	.41	---
TOTAL	74.6	54.1	47.0	42.97	34.58	51.08	193.30	182.2	83.56	44.07	35.19	43.91
MEAN	2.41	1.80	1.52	1.39	1.24	1.65	6.44	5.88	2.79	1.42	1.14	1.46
MAX	3.5	2.3	1.7	2.1	2.0	2.6	17	14	7.1	3.4	2.9	4.5
MIN	1.9	1.3	1.3	.50	.04	.43	.80	1.7	.63	.44	.27	.26
AC-FT	148	107	93	85	69	101	383	361	166	87	70	87

CAL YR 1980	TOTAL 4210.04	MEAN 11.5	MAX 134	MIN .43	AC-FT 8350
WTR YR 1981	TOTAL 886.56	MEAN 2.43	MAX 17	MIN .04	AC-FT 1760

GREEN RIVER BASIN

09314340 GRASSY TRAIL CREEK AT SUNNYSIDE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to current year.
SEDIMENT DATA: December 1978 to current year, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
17...	1700	2.3	1600	8.7	8.0	9.0	9.0	99	.26	270	0
NOV											
16...	1115	1.5	1890	8.5	-2.0	1.0	11.2	100	--	270	0
DEC											
09...	1245	1.2	1780	8.5	4.0	2.0	11.3	103	--	340	0
JAN											
12...	1715	1.8	2000	8.7	3.5	6.0	9.6	97	.83	300	0
FEB											
16...	1045	1.5	1040	8.7	9.5	.0	11.7	100	--	370	48
MAR											
14...	1500	1.4	2180	8.7	8.5	6.0	9.8	101	--	320	0
APR											
17...	1500	11	890	8.7	22.0	15.0	8.0	100	.90	290	0
MAY											
18...	1515	6.4	1170	8.4	19.0	16.5	8.0	103	--	310	0
JUN											
22...	1645	2.3	1630	8.4	32.0	23.0	6.6	97	--	300	0
JUL											
11...	1345	.86	820	8.7	28.5	17.5	7.8	103	1.1	310	44
AUG											
09...	1200	1.9	1900	8.5	28.0	17.0	7.6	101	--	250	0
10...	1315	1.9	1920	8.8	26.0	15.0	7.9	--	--	240	--
SEP											
01...	1415	.36	930	8.6	26.0	18.0	7.8	103	--	340	72

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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY FIELD (MG/L AS CACO3)
OCT										
17...	--	37	44	260	67	6.8	5.2	520	26	470
NOV										
16...	--	39	43	330	72	8.7	6.7	600	18	520
DEC										
09...	--	53	50	280	64	6.6	6.3	520	16	460
JAN										
12...	--	39	50	370	72	9.2	4.8	580	28	520
FEB										
16...	--	55	56	110	39	2.5	2.3	360	15	320
MAR										
14...	--	43	51	380	72	9.3	5.2	560	23	490
APR										
17...	--	49	40	100	43	2.6	2.3	350	18	320
MAY										
18...	.00	47	46	170	54	4.2	3.2	420	5	360
JUN										
22...	--	36	50	270	66	6.8	5.0	450	0	370
JUL										
11...	--	41	50	71	33	1.8	2.2	290	17	260
AUG										
09...	--	28	44	370	76	12	5.0	610	16	520
10...	--	28	42	360	76	12	4.9	--	--	--
SEP										
01...	--	46	54	80	34	2.2	2.5	290	18	270

09314340 GRASSY TRAIL CREEK AT SUNNYSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALKALINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	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										
17...	440	1.8	370	26	.7	10	966	1040	1.3	6.0
NOV										
16...	--	3.2	480	28	.8	9.6	1190	1250	1.6	4.8
DEC										
09...	--	2.8	450	22	.7	11	1180	1150	1.6	3.8
JAN										
12...	--	2.0	520	33	.9	9.5	1270	1340	1.7	6.2
FEB										
16...	--	1.2	250	11	.3	13	651	690	.89	2.6
MAR										
14...	--	1.9	620	29	.8	7.7	1350	1440	1.8	5.1
APR										
17...	--	1.2	190	9.6	.3	12	537	597	.73	15.9
MAY										
18...	340	2.6	280	11	.3	12	725	774	.99	12.5
JUN										
22...	--	2.9	460	22	.5	12	1050	1080	1.4	6.5
JUL										
11...	--	1.0	180	7.8	.2	12	529	524	.72	1.2
AUG										
09...	--	3.3	440	36	.8	11	1210	1250	1.7	6.2
10...	--	--	440	31	.8	9.5	1210	--	1.7	6.1
SEP										
01...	--	1.3	230	17	.5	14	584	605	.79	.57

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (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)	NITROGEN, TOTAL (MG/L AS N)
OCT							
17...	.000	.00	.29	.29	.15	.14	--
JAN							
12...	.070	.08	.82	.89	.32	.57	1.2
FEB							
16...	--	--	--	--	--	--	--
MAR							
14...	--	--	--	--	--	--	--
APR							
17...	.100	--	.84	.94	.15	.79	--
MAY							
18...	--	--	--	--	--	--	--
JUN							
22...	--	--	--	--	--	--	--
JUL							
11...	.020	--	.40	.42	.00	1.1	--

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (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)	POTASSIUM 40 DISSOLVED (PCI/L AS K40)
OCT							
17...	--	.12	--	.020	.06	.020	--
JAN							
12...	.27	.26	5.1	.110	.34	.010	--
FEB							
16...	--	--	--	--	--	--	1.7
MAR							
14...	--	--	--	--	--	--	3.9
APR							
17...	--	.11	--	.190	.58	.030	1.7
MAY							
18...	--	--	--	--	--	--	2.4
JUN							
22...	--	--	--	--	--	--	3.7
JUL							
11...	--	.02	--	.200	.61	.020	1.6

09314340 GRASSY TRAIL CREEK AT SUNNYSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
OCT 17...	1700	--	--	--	100	60	40	--	--	140	--	--
NOV 16...	1115	--	--	--	--	--	--	--	--	240	--	--
DEC 09...	1245	--	--	--	--	--	--	--	--	190	--	--
JAN 12...	1715	--	--	--	--	--	--	--	--	250	--	--
FEB 16...	1045	--	--	--	--	--	--	--	--	70	--	--
MAR 14...	1500	--	--	--	--	--	--	--	--	260	--	--
APR 17...	1500	--	--	--	200	100	100	--	--	250	--	--
MAY 18...	1515	4	3	1	--	--	--	0	<1	100	0	<1
JUN 22...	1645	--	--	--	--	--	--	--	--	180	--	--
JUL 11...	1345	--	--	--	--	--	--	--	--	140	--	--
AUG 09...	1200	1	0	1	--	--	--	0	<1	260	0	<1
10...	1315	--	--	--	--	--	--	--	--	260	--	--
SEP 01...	1415	--	--	--	--	--	--	--	--	80	--	--

DATE	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (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)
OCT 17...	--	--	--	--	--	--	350	--	<10	--	--
NOV 16...	--	--	--	--	--	--	500	490	10	--	--
DEC 09...	--	--	--	--	--	--	490	480	10	--	--
JAN 12...	--	--	--	--	--	--	490	480	10	--	--
FEB 16...	--	--	--	--	--	--	330	--	<10	--	--
MAR 14...	--	--	--	--	--	--	600	570	30	--	--
APR 17...	--	--	--	--	--	--	5300	5300	10	--	--
MAY 18...	10	10	0	11	10	1	4400	--	<10	13	11
JUN 22...	--	--	--	--	--	--	290	--	<10	--	--
JUL 11...	--	--	--	--	--	--	240	220	20	--	--
AUG 09...	20	20	0	3	1	2	2000	--	<10	0	0
10...	--	--	--	--	--	--	60	--	<10	--	--
SEP 01...	--	--	--	--	--	--	790	--	<10	--	--

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)
OCT 17...	--	40	10	30	20	10	10	--	--	--	--
NOV 16...	--	--	--	--	20	10	10	--	--	--	--
DEC 09...	--	--	--	--	30	30	4	--	--	--	--
JAN 12...	--	--	--	--	30	20	9	--	--	--	--
FEB 16...	--	--	--	--	10	6	4	--	--	--	--
MAR 14...	--	--	--	--	20	10	10	--	--	--	--
APR 17...	--	10	0	10	220	200	20	--	--	--	--
MAY 18...	2	--	--	--	200	190	10	.1	.1	.0	7
JUN 22...	--	--	--	--	10	7	3	--	--	--	--
JUL 11...	--	--	--	--	10	8	2	--	--	--	--
AUG 09...	2	--	--	--	30	30	3	.0	.0	.0	0
10...	--	--	--	--	10	7	3	--	--	--	--
SEP 01...	--	--	--	--	30	30	5	--	--	--	--

09314340 GRASSY TRAIL CREEK AT SUNNYSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
OCT 17...	--	--	--	--	--	300	0	370	--	--	--
NOV 16...	--	--	--	--	--	--	--	--	--	--	--
DEC 09...	--	--	--	--	--	--	--	--	--	--	--
JAN 12...	--	--	--	--	--	--	--	--	--	--	--
FEB 16...	--	--	--	--	--	--	--	--	--	--	--
MAR 14...	--	--	--	--	--	--	--	--	--	--	--
APR 17...	--	--	--	--	--	310	0	330	--	--	--
MAY 18...	5	2	1	1	0	--	--	--	30	--	<3
JUN 22...	--	--	--	--	--	--	--	--	--	--	--
JUL 11...	--	--	--	--	--	--	--	--	--	--	--
AUG 09...	0	0	0	0	0	--	--	--	20	20	2
10...	--	--	--	--	--	--	--	--	--	--	--
SEP 01...	--	--	--	--	--	--	--	--	--	--	--

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)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L)
OCT 17...	1700	7.6	.3	.00	0	0
JAN 12...	1715	19	.3	.00	0	--
APR 17...	1500	8.0	1.4	.00	5	--
JUL 11...	1345	1.6	.3	.00	9	--

DATE	TIME	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)
AUG 09...	1200	<23	<.4	<13	<.4	<13	<.4

09314340 GRASSY TRAIL CREEK AT SUNNYSIDE, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	OCT 17,80	JUN 22,81	JUL 11,81	AUG 9,81	SEP 1,81
TIME	1700	1645	1345	1200	1415
TOTAL CELLS/ML	720	320	550	6400	990
DIVERSITY: DIVISION	0.7	0.0	0.9	0.5	0.3
.CLASS	0.7	0.0	0.9	0.5	0.3
..ORDER	0.9	0.0	0.9	0.5	0.4
...FAMILY	1.2	2.0	1.6	0.6	1.8
....GENUS	1.2	2.0	1.6	0.6	2.1

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	--	-	--	-	b	0	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	--	-	--	-	--	-	--	-	14	1
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	13	2	26	8	--	-	--	-	84	8
...CYMBELLACEAE										
....CYMBELLA	26	4	77a	24	39	7	41	1	42	4
...DIATOMACEAE										
....DIATOMA	--	-	--	-	51	9	--	-	--	-
...FRAGILARIACEAE										
....SYNEDRA	--	-	13	4	13	2	41	1	--	-
...NAVICULACEAE										
....ENTOMONEIS	--	-	--	-	--	-	--	-	110	11
....NAVICULA	39	5	90a	28	13	2	b	0	170a	17
...NITZSCHIACEAE										
....NITZSCHIA	51	7	120a	36	77	14	520	8	520a	52
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....ANACYSTIS	26	4	--	-	--	-	--	-	--	-
..OSCILLATORIALES										
...OSCILLATORIACEAE										
....OSCILLATORIA	570a	79	--	-	360a	65	5700a	90	56	6

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organism, may or may not have been counted: Less than 1/2 percent.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	CHLOR-B PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	BIOMASS CHLOROPHYLL RATIO PERIPHYTON (UNITS)
NOV 16...	1115	21.8	19.1	3.46	.250	780
JUL 11...	1345	100	96.9	3.69	.000	840
AUG 09...	1200	48.0	43.9	20.6	2.79	199

09314340 GRASSY TRAIL CREEK AT SUNNYSIDE, UT--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	COAL IN BOTTOM MATE-RIAL (GM/KG)
OCT						
17...	1700	2.3	9.0	7	.04	170
NOV						
16...	1115	1.5	1.0	20	.08	--
DEC						
09...	1245	1.2	2.0	4	.01	--
JAN						
12...	1715	1.8	6.0	18	.09	--
FEB						
16...	1045	1.5	.0	43	.17	--
MAR						
14...	1500	1.4	6.0	80	.30	--
APR						
17...	1500	11	15.0	436	13	--
MAY						
04...	1515	13	14.5	242	8.5	--
18...	1515	6.4	16.5	451	7.8	--
JUN						
08...	1915	3.5	18.5	58	.55	--
22...	1645	2.3	23.0	25	.16	--
JUL						
11...	1345	.86	17.5	12	.03	--
AUG						
09...	1200	1.9	17.0	62	.32	--
SEP						
01...	1415	.36	18.0	64	.06	--

09314374 HORSE CANYON NEAR SUNNYSIDE, UTAH

LOCATION.--Lat 39°27'26", long 110°21'33", in NE¼SE¼ sec.4, T.16 S., R.14 E., Carbon County, Hydrologic Unit 14060007, on right bank 6.8 mi (10.9 km) upstream from mouth, 0.5 mi (0.8 km) downstream from Geneva coal mine, 9 mi (14.5 km) southeast of Sunnyside.

DRAINAGE AREA.--12.5 mi^2 (32.4 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1978 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,180 ft (1,884 m) from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 93 ft^3/s (2.63 m^3/s) Sept. 5, 1981, gage height, 2.64 ft (0.805 m) estimated on basis of critical depth computation; no flow on many days in 1979, 1980, and 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 93 ft^3/s (2.63 m^3/s) Sept. 5, gage height, 2.64 ft (0.805 m) estimated on basis of critical depth computation; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.01	.03	.49	.32	.56	.20	.60	.29	.25
2	.02	.00	.00	.01	.49	.43	.32	.36	.41	.75	.29	.30
3	.04	.00	.00	.01	.49	.43	.32	.43	.12	.51	.28	.26
4	.06	.00	.00	.01	.49	.43	.28	.25	.29	.03	.28	.32
5	.08	.00	.00	.01	.47	.43	.32	.32	.31	.04	.28	1.1
6	.10	.00	.00	.01	.43	.43	.32	.20	.13	.16	.26	.44
7	.12	.00	.00	.02	.56	.56	.32	.37	.19	.59	.24	.30
8	.15	.00	.00	.02	.68	.61	.28	.32	.52	.41	.23	.64
9	.18	.00	.00	.02	.75	.61	.28	.28	.42	.35	.21	.39
10	.21	.00	.00	.02	.75	.32	.24	.24	.38	.31	.19	.31
11	.22	.00	.00	.02	.52	.29	.04	.24	.39	.18	.49	.31
12	.24	.00	.00	.02	.32	.27	.03	.20	.46	.01	.70	.31
13	.26	.00	.00	.20	.21	.29	.04	.24	.45	.03	.77	.31
14	.28	.00	.00	.24	.24	.26	.18	.20	.12	.27	.77	.31
15	.31	.00	.00	.37	.31	.26	1.1	.30	.50	.60	.56	.30
16	.33	.00	.00	.32	.28	.32	.91	.13	.48	.52	.12	.30
17	.36	.00	.00	.56	.28	.26	.68	.24	.39	.48	.24	.30
18	.43	.00	.00	.40	.32	.28	1.3	.28	.61	.44	.31	.30
19	.24	.00	.00	.45	.32	.27	.56	.28	.71	.41	.37	.30
20	.02	.00	.00	.75	.28	.32	.75	.41	1.2	.38	.37	.30
21	.02	.00	.00	.75	.26	.32	.91	.18	.77	.38	.68	.30
22	.01	.00	.00	.30	.43	.28	.75	.24	.68	.37	.30	.29
23	.00	.00	.00	.43	.23	.24	.61	.24	.48	.37	.29	.28
24	.00	.00	.00	.91	.27	.32	.34	.20	.47	.38	.27	1.0
25	.00	.00	.00	.91	.32	.32	.32	.24	.37	.40	.22	.39
26	.00	.00	.00	.83	.32	.32	.43	.41	.62	.38	.22	.35
27	.00	.00	.01	.49	.24	.37	.37	.21	.43	.36	.15	.34
28	.00	.00	.01	.56	.32	.28	.37	.99	.21	.34	.14	.32
29	.00	.00	.01	.68	---	.32	.41	.75	.17	.32	.46	.32
30	.00	.00	.01	.49	---	.28	.32	.32	.62	.31	.31	.32
31	.00	---	.01	.36	---	.32	---	.28	---	.29	.35	---
TOTAL	3.68	.00	.05	10.18	10.61	10.93	13.42	9.91	13.10	10.97	10.64	11.26
MEAN	.12	.000	.002	.33	.38	.35	.45	.32	.44	.35	.34	.38
MAX	.43	.00	.01	.91	.75	.61	1.3	.99	1.2	.75	.77	1.1
MIN	.00	.00	.00	.01	.03	.24	.03	.13	.12	.01	.12	.25
AC-FT	7.3	.00	.10	20	21	22	27	20	26	22	21	22

CAL YR 1980 TOTAL 128.48 MEAN .35 MAX 2.4 MIN .00 AC-FT 255
WTR YR 1981 TOTAL 104.75 MEAN .29 MAX 1.3 MIN .00 AC-FT 208

09314374 HORSE CANYON NEAR SUNNYSIDE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to current year.
SEDIMENT DATA: December 1978 to current year, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT 17...	1430	.38	2500	8.5	12.0	12.5	8.1	96	1.1	630	210
JAN 16...	1345	.24	2690	8.5	7.5	10.0	8.6	97	1.6	680	300
FEB 13...	1700	.24	2720	8.6	8.0	8.5	9.2	98	--	690	300
MAR 11...	1515	.30	2600	8.6	7.0	10.0	9.0	99	--	790	410
APR 13...	1600	.06	2700	8.6	19.0	18.5	7.7	103	1.5	830	500
MAY 18...	1200	.29	2600	8.4	14.0	21.0	6.9	97	--	690	310
JUN 22...	1330	.61	2620	8.2	31.0	27.5	6.0	95	--	610	270
JUL 11...	1015	.01	2600	8.5	25.5	22.0	6.7	96	2.2	660	340
SEP 01...	1045	.27	2520	8.6	21.5	18.5	7.3	97	--	680	290

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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY FIELD (MG/L AS CACO3)
OCT 17...	--	86	100	350	54	6.1	9.2	490	10	420
JAN 16...	--	91	110	390	55	6.5	6.4	440	12	380
FEB 13...	--	95	110	380	54	6.3	7.3	440	14	390
MAR 11...	--	120	120	390	51	6.0	7.1	420	21	380
APR 13...	500	100	140	360	48	5.5	7.3	380	16	330
MAY 18...	340	93	110	350	52	5.8	7.9	450	5	380
JUN 22...	--	79	100	370	57	6.5	8.7	420	0	340
JUL 11...	--	83	110	390	56	6.6	7.3	370	9	320
SEP 01...	--	91	110	370	54	6.2	7.3	430	24	390

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	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)
OCT 17...	350	2.6	980	42	.4	11	1780	1830	2.4	1.8
JAN 16...	--	2.4	1100	30	.4	9.3	1970	1970	2.7	1.3
FEB 13...	--	1.9	1000	31	.3	11	1920	1870	2.6	1.2
MAR 11...	--	5.1	1100	33	.3	10	1860	2010	2.5	1.5
APR 13...	330	1.6	1200	33	.3	10	2010	2060	2.7	.33
MAY 18...	350	2.7	1000	29	.3	11	1870	1810	2.5	1.5
JUN 22...	--	4.2	1000	35	.3	11	1870	1810	2.5	3.1
JUL 11...	--	2.0	1100	36	.3	12	1910	1940	2.6	.05
SEP 01...	--	1.9	1100	34	.5	12	1830	1960	2.5	1.3

09314374 HORSE CANYON NEAR SUNNYSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (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)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DIS-SOLVED (MG/L AS P)	POTASSIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT 17...	.000	.00	.82	.82	.34	.48	.64	.270	.83	.050	--
JAN 16...	.090	.11	.57	.66	.06	.60	1.0	.010	.03	.000	--
FEB 13...	--	--	--	--	--	--	--	--	--	--	5.4
MAR 11...	--	--	--	--	--	--	--	--	--	--	5.3
APR 13...	.140	--	.71	.85	.06	.79	.75	.060	.18	.020	5.4
MAY 18...	--	--	--	--	--	--	--	--	--	--	5.9
JUN 22...	--	--	--	--	--	--	--	--	--	--	6.5
JUL 11...	.170	--	.38	.55	.00	1.4	.84	.010	.03	.030	5.4

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, SUS-PENDED RECOV. (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)
OCT 17...	1430	--	--	--	200	100	100	--	--	--	290	--
JAN 16...	1345	--	--	--	--	--	--	--	--	--	400	--
FEB 13...	1700	--	--	--	--	--	--	--	--	--	430	--
MAR 11...	1515	--	--	--	--	--	--	--	--	--	430	--
APR 13...	1600	--	--	--	100	0	100	--	--	--	420	--
MAY 18...	1200	1	1	0	--	--	--	0	0	0	380	0
JUN 22...	1330	--	--	--	--	--	--	--	--	--	420	--
JUL 11...	1015	--	--	--	--	--	--	--	--	--	490	--
SEP 01...	1045	--	--	--	--	--	--	--	--	--	420	--

DATE	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (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)
OCT 17...	--	--	--	--	--	--	--	--	9800	9800	20	--
JAN 16...	--	--	--	--	--	--	--	--	340	240	100	--
FEB 13...	--	--	--	--	--	--	--	--	240	220	20	--
MAR 11...	--	--	--	--	--	--	--	--	230	200	30	--
APR 13...	--	--	--	--	--	--	--	--	840	790	50	--
MAY 18...	0	1	10	10	0	8	6	2	2100	2000	110	7
JUN 22...	--	--	--	--	--	--	--	--	200	170	30	--
JUL 11...	--	--	--	--	--	--	--	--	90	80	10	--
SEP 01...	--	--	--	--	--	--	--	--	21000	21000	0	--

09314374 HORSE CANYON NEAR SUNNYSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	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)	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)
OCT 17...	--	--	70	10	60	250	240	10	--	--	--	--
JAN 16...	--	--	--	--	--	20	10	10	--	--	--	--
FEB 13...	--	--	--	--	--	10	0	10	--	--	--	--
MAR 11...	--	--	--	--	--	20	10	10	--	--	--	--
APR 13...	--	--	60	0	60	580	40	540	--	--	--	--
MAY 18...	6	1	--	--	--	80	60	20	.1	.1	.0	5
JUN 22...	--	--	--	--	--	20	10	10	--	--	--	--
JUL 11...	--	--	--	--	--	10	10	0	--	--	--	--
SEP 01...	--	--	--	--	--	580	570	10	--	--	--	--

DATE	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	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)
OCT 17...	--	--	--	--	--	1100	0	1200	--	--	--
JAN 16...	--	--	--	--	--	--	--	--	--	--	--
FEB 13...	--	--	--	--	--	--	--	--	--	--	--
MAR 11...	--	--	--	--	--	--	--	--	--	--	--
APR 13...	--	--	--	--	--	1200	0	1500	--	--	--
MAY 18...	4	1	0	0	0	--	--	--	20	0	20
JUN 22...	--	--	--	--	--	--	--	--	--	--	--
JUL 11...	--	--	--	--	--	--	--	--	--	--	--
SEP 01...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE, TOTAL GRAVIMETRIC (MG/L)
OCT 17...	1430	7.5	2.6	.00	0	0
JAN 16...	1345	18	--	.00	1	--
APR 13...	1600	1.9	.3	.00	5	--
JUL 11...	1015	1.4	.4	.00	--	--

09314374 HORSE CANYON NEAR SUNNYSIDE, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	OCT 17,80	JUL 11,81	SEP 1,81
TIME	1430	1015	1045
TOTAL CELLS/ML	2200	120	490
DIVERSITY: DIVISION	0.5	1.4	0.0
.CLASS	0.5	1.4	0.0
..ORDER	0.6	1.4	0.0
...FAMILY	1.9	2.2	1.4
....GENUS	2.0	2.2	1.4

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...OOCYSTACEAE						
....ANKISTRODESMUS	19	1	--	-	--	-
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	19	1	--	-	--	-
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	1400a	63	--	-	140a	29
...CYMBELLACEAE						
....CYMBELLA	19	1	--	-	--	-
...FRAGILARIACEAE						
....SYNEDRA	120	5	13	11	280a	57
...GOMPHONEMATACEAE						
....GOMPHONEMA	39	2	--	-	--	-
...NAVICULACEAE						
....ENTOMONEIS	39	2	--	-	--	-
....NAVICULA	150	7	26a	22	70	14
...NITZSCHIACEAE						
....NITZSCHIA	150	7	26a	22	--	-
...SURIRELLACEAE						
....SURIRELLA	58	3	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..OSCILLATORIALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	190	9	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....TRACHELOMONAS	--	-	13	11	--	-
PYRRHOPHYTA (FIRE ALGAE)						
.DINOPHYCEAE						
..DINOKONTAE						
...GLENODINIACEAE						
....GLENODINIUM	--	-	39a	33	--	-

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organism, may or may not have been counted: Less than 1/2 percent.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)
JUL 11...	1015	25.3	23.2	.390	.000	5390

09314374 HORSE CANYON NEAR SUNNYSIDE, UT--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	COAL IN BOTTOM MATE-RIAL (GM/KG)
OCT						
17...	1430	.38	12.5	708	.73	5.00
JAN						
16...	1345	.24	10.0	2	.00	--
FEB						
13...	1700	.24	8.5	3	.00	--
MAR						
11...	1515	.30	10.0	64	.05	--
APR						
13...	1600	.06	18.5	150	.02	--
MAY						
04...	1215	.33	20.0	2270	2.0	--
18...	1200	.29	21.0	472	.37	--
JUN						
08...	1515	.58	25.5	20	.03	--
22...	1330	.61	27.5	26	.04	--
JUL						
11...	1015	.01	22.0	6	.00	--
SEP						
01...	1045	.27	18.5	1400	1.0	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE-BED MATERIAL, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
MAY							
18...	1200	.29	21.0	1	2	9	23

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
MAY						
18...	34	50	67	84	97	100

09314500 PRICE RIVER AT WOODSIDE, UTAH

LOCATION.--Lat 39°15'50", long 110°20'45", in SW¼SE¼SE¼ sec.9, T.18 S., R.14 E., Emery County, Hydrologic Unit 14060007, on left downstream wingwall of old highway bridge, 200 ft (61 m) downstream from railroad bridge at Woodside, and 16.3 mi (26.2 km) upstream from mouth.

DRAINAGE AREA.--1,540 mi^2 (3,989 km^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 (1,400 m) by barometer. September 1909 to August 1911, reference point at site about 100 ft (30 m) upstream at different datum. Nov. 27, 1945 to Oct. 16, 1954, water-stage recorder at site 15 ft (4.6 m) downstream at datum 1.85 ft (0.564 m) higher.

REMARKS.--Records good. Diversions above station for irrigation of about 18,000 acres (72.8 km^2). Flow affected by storage in Scofield Reservoir, usable capacity, 65,780 acre-ft (81.1 hm^3), since 1926 (see station 09311000).

AVERAGE DISCHARGE.--35 years, 103 ft^3/s (2.92 m^3/s), 74,620 acre-ft/yr (92.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,720 ft^3/s (275 m^3/s) Sept. 11, 1980, gage height, 11.16 ft (3.402 m), from rating curve extended above 1,200 ft^3/s (34.0 m^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 (56.6 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 15	2300	3,490	98.8	8.09	2.466
June 28	2200	2,290	64.9	6.67	2.033
July 12	2400	2,590	73.3	7.10	2.164
Aug. 16	0600	*3,740	106	8.30	2.530
Sept. 6	0600	2,350	66.6	6.74	2.054

Minimum discharge, 3.4 ft^3/s (0.096 m^3/s) Feb. 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	107	66	51	43	46	57	46	89	67	29	75
2	88	106	64	46	29	53	47	57	81	69	28	57
3	82	104	63	60	29	65	52	92	78	84	27	53
4	88	103	62	64	41	70	60	97	83	70	32	48
5	88	98	60	61	39	56	61	76	76	63	32	140
6	86	87	59	55	45	58	50	63	64	52	25	657
7	81	80	64	46	39	59	46	58	55	40	23	186
8	76	78	58	33	41	66	57	55	52	31	19	361
9	75	75	48	38	49	59	62	52	44	27	18	302
10	78	72	37	53	47	55	58	57	42	27	19	208
11	73	73	39	56	36	57	76	55	41	103	55	145
12	70	73	52	68	38	50	84	54	39	84	130	137
13	81	77	62	67	40	51	74	59	32	244	148	92
14	268	71	61	50	51	50	70	56	34	194	216	77
15	447	65	60	66	68	58	81	54	36	76	107	90
16	645	61	64	67	64	60	195	62	40	60	666	62
17	223	51	73	58	59	63	124	66	42	48	117	51
18	176	46	72	66	59	64	96	61	36	85	81	43
19	163	50	75	59	57	59	108	58	34	49	66	34
20	150	56	78	60	51	56	98	53	29	38	57	30
21	137	62	76	58	45	56	112	60	28	31	65	30
22	126	59	72	54	41	61	91	70	33	25	213	39
23	117	63	67	42	37	56	81	65	34	22	178	38
24	106	68	62	40	39	54	68	60	34	119	104	38
25	102	68	57	42	39	66	67	59	28	231	116	143
26	102	61	56	37	41	71	65	53	24	62	95	89
27	104	59	62	28	43	68	64	55	20	44	80	53
28	105	55	70	44	50	72	72	69	203	38	70	45
29	106	58	66	57	---	77	57	117	184	30	62	41
30	102	65	62	61	---	63	49	96	102	30	110	39
31	103	---	57	58	---	58	---	107	---	29	86	---
TOTAL	4335	2151	1924	1645	1260	1857	2282	2042	1717	2172	3074	3403
MEAN	140	71.7	62.1	53.1	45.0	59.9	76.1	65.9	57.2	70.1	99.2	113
MAX	645	107	78	68	68	77	195	117	203	244	666	657
MIN	70	46	37	28	29	46	46	46	20	22	18	30
AC-FT	8600	4270	3820	3260	2500	3680	4530	4050	3410	4310	6100	6750

CAL YR 1980 TOTAL 97619 MEAN 267 MAX 3840 MIN 23 AC-FT 193600
WTR YR 1981 TOTAL 27862 MEAN 76.3 MAX 666 MIN 18 AC-FT 55260

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.
WATER TEMPERATURES: February 1951 to September 1959, November 1961 to September 1963, October 1964 to September 30, 1978, once-daily.
SEDIMENT DATA: October 1975 to current year, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	HARD-NESS (MG/L AS CACO3)
OCT 24...	1115	95	3810	8.2	2.5	5.0	9.5	1400
NOV 19...	1245	60	4100	8.3	7.0	.0	13.0	1300
DEC 17...	1200	30	4070	8.3	6.0	.0	13.0	1500
JAN 28...	1200	42	4380	8.3	6.0	.0	13.4	1500
FEB 25...	1200	42	4480	8.3	15.5	5.5	12.2	1500
MAR 25...	1130	66	4360	8.3	16.0	9.5	10.7	1400
APR 29...	1130	55	3650	8.3	25.0	18.0	8.7	1000
MAY 29...	0900	117	3730	8.0	20.0	17.5	8.0	1200
JUN 24...	1230	34	3180	8.1	32.0	24.5	7.3	1000
JUL 29...	1100	38	2720	8.1	26.5	21.5	7.6	1000
AUG 26...	1130	95	2810	8.1	34.0	23.0	6.6	1100
SEP 21...	1130	30	4270	8.1	26.5	18.5	7.7	1400

DATE	HARD-NESS, NONCAR-BONATE (MG/L 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)	CAR-BONATE FET-FLD (MG/L AS CO3)
OCT 24...	1100	--	230	190	500	44	5.9	10	0
NOV 19...	1100	--	210	200	540	46	6.4	10	--
DEC 17...	1200	--	250	210	560	45	6.3	9.3	--
JAN 28...	1200	--	230	220	610	47	6.9	8.4	--
FEB 25...	1300	--	240	230	640	47	7.1	8.5	--
MAR 25...	--	1100	200	210	600	49	7.1	7.7	--
APR 29...	--	750	150	160	450	48	6.1	7.6	--
MAY 29...	--	950	220	160	410	42	5.1	9.5	--
JUN 24...	--	880	170	150	390	45	5.3	7.2	--
JUL 29...	--	840	170	140	300	39	4.1	8.0	--
AUG 26...	--	830	210	130	330	40	4.4	9.7	--
SEP 21...	--	1200	250	190	560	46	6.5	12	--

09314500 PRICE RIVER AT WOODSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT 24...	290	2000	66	.3	7.3	3180	4.3	816
NOV 19...	260	2000	74	.1	1.6	3190	E4.3	517
DEC 17...	330	2100	64	.3	6.1	3410	4.6	276
JAN 28...	--	2300	63	.3	3.0	3620	4.9	411
FEB 25...	240	2500	96	.2	.4	3860	5.3	439
MAR 25...	220	2300	94	.3	.8	3550	4.8	631
APR 29...	280	1700	75	.3	3.1	2720	3.7	406
MAY 29...	260	1600	75	.3	4.7	2640	3.6	834
JUN 24...	160	1600	65	.3	.8	2480	3.4	230
JUL 29...	160	1300	52	.3	.5	2070	2.8	212
AUG 26...	230	1400	67	.4	9.1	2300	3.1	587
SEP 21...	250	2200	70	.4	8.3	3450	4.7	280

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	POTASSIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT 24...	.090	.11	1.3	1.40	2.1	.69	.68	9.3	.520	1.6	--
NOV 19...	.000	.00	.74	.74	1.3	.51	.41	5.5	.020	.06	--
DEC 17...	.080	.10	.74	.82	2.5	1.7	1.8	11	.180	.55	--
JAN 28...	.050	.06	.44	.49	2.1	1.6	1.9	9.3	.060	.18	6.3
FEB 25...	.060	--	.72	.78	1.0	.23	.27	4.5	.130	.40	6.3
MAR 25...	.030	--	.97	1.00	1.0	.00	.00	4.4	.050	.15	5.7
APR 29...	.050	--	1.3	1.30	1.4	.11	.13	6.2	.140	.43	5.7
MAY 29...	.160	--	3.0	3.20	3.8	.63	.63	17	4.30	13	7.1
JUN 24...	.060	--	.82	.88	.90	.02	.03	4.0	.170	.52	5.4
JUL 29...	.150	--	.95	1.10	1.2	.12	.17	5.4	.220	.67	--
AUG 26...	.150	--	3.1	3.20	4.1	.93	.93	18	3.50	11	--
SEP 21...	.090	--	.73	.82	1.7	.92	.82	7.7	<.010	--	--

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)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
OCT 24...	1115	330	3	0	0	0	411	21	4900

09314500 PRICE RIVER AT WOODSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
OCT 24...	12	300	180	.2	5	14	5	40

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT 24...	1115	270
NOV 19...	1245	360
DEC 17...	1200	360
FEB 25...	1200	370
MAR 25...	1130	360
APR 29...	1130	340
MAY 29...	0900	350
JUN 24...	1230	330
JUL 29...	1100	260
AUG 26...	1130	330
SEP 21...	1130	450

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
OCT 24...	1115	9.7	1.0
MAR 25...	1130	16	.5
JUN 24...	1230	8.9	2.7
SEP 21...	1130	8.2	1.0

DATE	TIME	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)
OCT 24...	1115	12.4	11.5	.610	.070	1480

09314500 PRICE RIVER AT WOODSIDE, UT--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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					
24...	1115	95	5.0	560	144
NOV					
19...	1245	60	.0	386	63
DEC					
17...	1200	30	.0	618	50
JAN					
28...	1200	42	.0	18	2.0
FEB					
25...	1200	42	5.5	8	.91
MAR					
25...	1130	66	9.5	24	4.3
APR					
29...	1130	55	18.0	481	72
MAY					
29...	0900	117	17.5	5200	1640
JUN					
24...	1230	34	24.5	653	60
JUL					
29...	1100	38	21.5	623	64
AUG					
26...	1130	95	23.0	1950	498
SEP					
21...	1130	30	18.5	843	69

09315000 GREEN RIVER AT GREEN RIVER, UTAH

LOCATION.--Lat 38°59'10", long 110°09'02", in NW¼NW¼SW¼ sec.15, T.21 S., R.16 E., Emery County, Hydrologic Unit 14060008, on right bank 100 ft (30 m) upstream from site of old highway bridge, 500 ft (152 m) upstream from railroad bridge, 1.1 mi (1.8 km) southeast of town of Green River, 22.5 mi (36.2 km) upstream from San Rafael River, at mile 117.4 (188.9 km) upstream from mouth.

DRAINAGE AREA.--44,850 mi^2 (116,220 km^2) approximately, of which about 4,260 mi^2 (11,000 km^2), including 3,959 mi^2 (10,254 km^2) in Great Divide Basin in southern Wyoming, which 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 (1,231.447 m) NGVD of 1929. Prior to Nov. 6, 1914, staff, wire-weight, or chain gages at several sites within 7 mi (11 km) of present site at various datums. Nov. 6, 1914 to June 20, 1924, water-stage recorder at site 7 mi (11 km) 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 (30 m) 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.--82 years, 6,263 ft^3/s (177.4 m^3/s) 4,538,000 acre-ft/yr (5.60 km^3/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,100 ft^3/s (1,930 m^3/s) June 27, 1917, gage height, 14.53 ft (4.429 m), site and datum then in use; minimum, 255 ft^3/s (7.22 m^3/s) Nov. 26, 1931; minimum gage height, 4.08 ft (1.244 m) Aug. 1, Dec. 5, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,300 ft^3/s (348 m^3/s) June 8, gage height, 8.88 ft (2.707 m); no peak above base of 17,000 ft^3/s (481 m^3/s); minimum, 1,440 ft^3/s (40.8 m^3/s) Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2820	3790	3180	2530	2700	2770	3720	4310	10800	2360	1780	2130
2	2810	3940	2630	2420	3040	2590	3050	5050	11200	2320	1860	2030
3	2440	4290	2540	2360	3230	2610	2800	5360	11400	2270	2290	2240
4	2570	4170	2540	2360	3500	2830	2760	5370	11300	2500	2270	2460
5	2390	4150	2640	2370	3230	2650	2710	5750	11600	2760	2160	2530
6	2090	3010	3220	2390	2520	2440	2710	6450	11100	2900	2100	3190
7	2080	2790	3470	2430	2550	2400	2700	7410	11000	2980	2000	2810
8	2670	3390	3300	2410	2780	2800	3090	8900	11900	2820	1760	2820
9	2840	3610	2990	2320	2800	3050	2880	8070	11900	2870	1800	2960
10	2240	3520	3500	2340	3230	3020	2850	7030	11500	2930	1880	2590
11	2260	3480	3470	2530	3480	3030	3670	6230	11700	2870	1820	2430
12	2540	3580	2790	2550	2900	2920	3920	5750	12000	2740	1780	2330
13	2680	3040	2470	2450	2320	2880	3920	5190	11900	2680	1780	2410
14	4130	2740	3030	2410	2050	2590	3740	4780	10700	2630	1900	2630
15	4230	3010	3170	2000	2540	2490	3880	4420	9400	2390	1840	2790
16	3620	3070	2810	1810	3680	2380	3090	4150	7910	2550	2390	3040
17	2900	2940	2720	1730	3260	2560	3070	4090	6710	2680	2250	2690
18	3160	3070	2600	1970	3300	2440	3400	4110	5840	3100	2120	2330
19	3790	3300	2510	2160	3260	2290	3560	4570	5170	2740	2040	2850
20	3270	3140	2570	2050	2880	2300	3570	4460	4600	2530	1720	3390
21	3420	3260	2660	2070	2610	2350	3490	4050	4180	2550	1770	3740
22	3270	3300	2640	2160	2560	2350	4030	4100	4050	2680	2180	3680
23	3100	2970	2710	2130	2380	2710	4670	4450	3670	2580	2260	3880
24	2960	2930	2850	2140	2590	3080	4650	4630	3220	2080	2170	3920
25	2930	2960	2790	2140	2610	2750	4820	4400	2930	2660	2200	3960
26	2930	3240	2670	2150	2350	2640	4880	4700	2760	2820	2290	3540
27	2980	2920	2680	2210	2250	2530	4360	6840	2710	2430	2100	3110
28	4020	2730	2750	2000	2600	3010	3970	8990	2580	2550	1720	3020
29	4300	2490	2680	1800	---	3550	3970	8310	2780	2430	1490	3230
30	3450	2660	2670	2300	---	3870	3850	8310	2410	2040	1700	3050
31	3220	---	2660	2570	---	3870	---	9180	---	1800	1820	---
TOTAL	94110	97490	87910	69260	79200	85750	107780	179410	230920	80240	61240	87780
MEAN	3036	3250	2836	2234	2829	2766	3593	5787	7697	2588	1975	2926
MAX	4300	4290	3500	2570	3680	3870	4880	9180	12000	3100	2390	3960
MIN	2080	2490	2470	1730	2050	2290	2700	4050	2410	1800	1490	2030
AC-FT	186700	193400	174400	137400	157100	170100	213800	355900	458000	159200	121500	174100

CAL YR 1980 TOTAL 2204880 MEAN 6024 MAX 23300 MIN 1730 AC-FT 4373000
WTR YR 1981 TOTAL 1261090 MEAN 3455 MAX 12000 MIN 1490 AC-FT 2501000

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 (1.1 km) from gaging station.

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONCUCTANCE: October 1941 to current year.
WATER TEMPERATURES: May 1949 to September 1959, October 1964 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 (2,023,000 tonnes) July 11, 1936; minimum daily, 54 tons (49 tonnes) Sept. 27, 1956.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,200 micromhos Oct. 20; minimum daily, 320 micromhos Dec. 1.
WATER TEMPERATURES: Maximum, 26.0°C several days during June, July, and Aug.; minimum, 0.0°C several days during Dec., Jan. and Feb.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 5,780 mg/L June 29; minimum daily mean, 19 mg/L Jan. 29.
SEDIMENT LOADS: Maximum daily, 70,800 tons (64,200 tonnes) June 2; minimum daily, 92 tons (83 tonnes) Jan. 29.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	DENSITY (GM/ML AT 20 C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)
OCT										
23...	1530	3120	1080	8.0	8.5	9.5	--	--	8.3	.79
NOV										
20...	1115	3080	940	8.3	-1.0	1.0	40	--	12.0	.64
DEC										
18...	1030	2690	930	8.2	.5	.0	32	--	13.1	.73
JAN										
29...	0930	1750	1010	8.2	-1.5	1.0	8.9	--	12.2	1.0
FEB										
26...	1030	2230	900	8.3	10.0	4.5	44	--	10.7	.58
MAR										
26...	0930	2500	1010	8.3	17.5	10.0	37	--	9.5	.50
APR										
30...	0900	3750	620	8.1	20.5	16.5	150	--	7.7	.90
MAY										
28...	1400	8960	590	7.8	23.5	18.0	720	--	7.6	.90
JUN										
25...	1000	3000	570	7.9	33.0	22.0	50	--	7.3	1.1
JUL										
30...	0830	2010	770	8.0	24.0	22.5	140	1.007	7.9	.64
AUG										
27...	0930	2030	920	8.2	23.0	22.0	170	--	6.2	.84
SEP										
22...	0930	3560	795	7.8	21.0	19.5	210	--	7.4	3.2

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 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
OCT										
23...	55	160	360	170	--	80	40	110	39	2.5
NOV										
20...	--	--	320	130	--	72	35	92	38	2.2
DEC										
18...	17	28	330	140	--	73	36	87	36	2.1
JAN										
29...	4	11	370	180	--	82	41	110	39	2.5
FEB										
26...	6	12	340	170	--	80	34	85	35	2.0
MAR										
26...	4	27	330	--	160	73	37	99	39	2.4
APR										
30...	38	96	210	--	70	48	22	55	36	1.7
MAY										
28...	--	--	200	--	86	47	19	50	35	1.6
JUN										
25...	46	200	210	--	100	51	20	51	34	1.5
JUL										
30...	370	470	280	--	140	66	27	73	36	2.1
AUG										
27...	120	180	290	--	130	65	32	93	40	2.6
SEP										
22...	K120	680	290	--	140	67	29	73	35	2.1

K Results based on colony count outside the acceptable range (non-ideal colony count).

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	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 23...	3.7	--	350	40	.4	7.6	775	747	1.1	6530
NOV 20...	3.2	190	270	34	.1	6.3	700	628	.95	5820
DEC 18...	2.5	190	290	28	.3	6.6	666	639	.91	4840
JAN 29...	2.5	190	330	38	.3	6.9	636	726	.86	3010
FEB 26...	2.5	170	290	32	.2	5.7	623	632	.85	3750
MAR 26...	3.0	170	350	30	.3	5.2	693	700	.94	4670
APR 30...	2.2	140	170	14	.3	8.2	425	405	.58	4300
MAY 28...	2.6	110	160	14	.3	8.5	377	372	.51	9120
JUN 25...	1.8	110	170	21	.2	7.3	393	389	.53	3180
JUL 30...	3.2	140	230	29	.3	5.8	525	519	.71	2850
AUG 27...	3.2	160	280	33	.4	4.7	625	608	.85	3430
SEP 22...	3.3	150	250	28	.4	5.0	567	547	.77	5450

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	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)	NITROGEN, TOTAL (MG/L AS N)
OCT 23...	.000	.030	.00	.04	1.8	.52	1.80	1.3	.55	2.0
NOV 20...	.020	.030	.02	.04	.60	.48	.62	.11	.51	.73
DEC 18...	.020	.020	.02	.03	.58	.45	.60	.13	.47	.87
JAN 29...	.030	.040	.04	.05	1.3	.84	1.30	.42	.88	1.5
FEB 26...	.090	.010	--	.01	.60	.44	.69	.24	.45	.96
MAR 26...	.040	.030	--	.04	.77	.47	.81	.31	.50	.82
APR 30...	.090	.120	--	.15	1.1	.64	1.20	.44	.76	1.3
MAY 28...	.060	.160	--	.21	1.9	.41	2.00	1.4	.57	2.2
JUN 25...	.080	.090	--	.12	.80	1.0	.88	.00	1.1	.91
JUL 30...	.140	.080	--	.10	.66	.43	.80	.29	.51	.91
AUG 27...	.110	.090	--	.12	.64	.62	.75	.04	.71	.91
SEP 22...	.050	.070	--	.09	.91	3.0	.96	.00	3.1	1.1

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (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)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT 23...	.24	.24	9.0	.280	.86	.030	--	--	--
NOV 20...	.11	.13	3.2	.030	.09	.020	--	--	--
DEC 18...	.27	.26	3.9	.080	.25	.040	--	--	--
JAN 29...	.16	.16	6.5	.030	.09	.010	--	--	1.9
FEB 26...	.27	.13	4.3	.200	.61	.030	--	--	1.9
MAR 26...	.01	.00	3.6	.050	.15	.020	--	--	2.2
APR 30...	.14	.14	5.9	.290	.89	.020	.000	.00	1.6
MAY 28...	.19	.33	9.7	1.80	5.5	.040	--	--	1.9
JUN 25...	.03	.03	4.0	.110	.34	.010	--	--	1.3
JUL 30...	.11	.13	4.0	.210	.64	.010	--	--	--
AUG 27...	.16	.13	4.0	.410	1.3	.010	--	--	--
SEP 22...	.10	.10	4.7	.350	1.1	.010	--	--	--

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)	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, SUS-PENDED RECOV. (UG/L AS CR)
NOV 20...	1115	3	1	2	100	20	80	3	<1	0	0
FEB 26...	1030	2	0	2	100	20	80	0	<1	10	10
MAY 28...	1400	10	8	2	500	200	300	0	<1	40	30
AUG 27...	0930	3	1	2	100	0	130	0	<1	0	0

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	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)
NOV 20...	0	1	<3	4	3	1	1200	--	<10	6
FEB 26...	0	0	<3	5	4	1	1500	1500	10	15
MAY 28...	10	10	<3	48	43	5	27000	27000	30	23
AUG 27...	0	2	<3	13	10	3	6200	--	<10	12

DATE	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	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)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)
NOV 20...	6	0	40	40	5	.1	.1	.0	4	2
FEB 26...	15	0	50	40	10	.2	.2	.0	5	3
MAY 28...	20	3	880	880	1	.3	.0	1.0	28	25
AUG 27...	6	6	130	130	1	.1	.1	.0	6	5

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	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)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV 20...	2	1	0	1	0	0	0	20	--	<3
FEB 26...	2	1	0	1	1	1	0	10	0	20
MAY 28...	3	1	0	1	0	0	0	160	100	60
AUG 27...	1	1	0	1	0	0	0	50	8	42

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
NOV 20...	1115	--	18	.4
DEC 18...	1030	4.7	--	--
JAN 29...	0930	8.5	--	--
FEB 26...	1030	--	4.5	--
MAR 26...	0930	7.4	--	--
APR 30...	0900	8.2	--	--
MAY 28...	1400	--	10	18
JUN 25...	1000	5.9	--	--
JUL 30...	0830	7.2	--	--
AUG 27...	0930	--	5.7	.3
SEP 22...	0930	9.4	--	--

DATE	TIME	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)
MAY 28...	1400	<8.8	69	6.6	49	6.4	46	.09	2.6
SEP 22...	0930	<12	33	7.3	23	7.1	22	.13	4.9

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	NOV 20,80		MAR 26,81		MAY 28,81		JUN 25,81	
TIME	1115		0930		1400		1000	
TOTAL CELLS/ML	1700		1900		4100		21000	
DIVERSITY: DIVISION	0.9		1.6		0.4		1.2	
.CLASS	0.9		1.6		0.4		1.2	
..ORDER	1.6		2.4		1.3		1.8	
...FAMILY	3.1		3.1		2.8		2.4	
....GENUS	3.2		3.2		3.0		2.9	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...DICTYOSPHAERIACEAE								
....DICTYOSPHAERIUM	--	-	--	-	--	-	540	3
...MICRACTINIACEAE								
....MICRACTINIUM	--	-	540a	28	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	46	3	26	1	--	-	400	2
....CHODATELLA	--	-	--	-	--	-	130	1
....OOCYSTIS	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	--	-	2200	10
....COELASTRUM	--	-	--	-	--	-	2700	13
....GLOEOACTINIUM	--	-	--	-	--	-	--	-
....SCENEDESMUS	30	2	26	1	--	-	2200	10
....TETRASTRUM	--	-	52	3	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CARTERIA	--	-	--	-	--	-	--	-
....CHLAMYDOMONAS	46	3	350a	18	140	3	270	1
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	260a	15	190	10	1500a	37	7400a	35
....MELOSIRA	--	-	--	-	--	-	--	-
....STEPHANODISCUS	--	-	--	-	70	2	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	91	5	--	-	--	-	--	-
....COCCONEIS	46	3	--	-	140	3	--	-
....RHOICOSPHENIA	46	3	--	-	--	-	--	-
...CYMBELLACEAE								
....CYMBELLA	76	5	26	1	--	-	130	1
....EPITHEMIA	--	-	--	-	--	-	--	-
...DIATOMACEAE								
....DIATOMA	91	5	26	1	210	5	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	--	-	--	-	1100	5
....HANNAEA	--	-	--	-	70	2	--	-
....SYNEDRA	--	-	39	2	140	3	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	15	1	26	1	350	8	--	-
...NAVICULACEAE								
....ENTOMONEIS	--	-	13	1	--	-	--	-
....GYROSIGMA	--	-	--	-	70	2	--	-
....NAVICULA	380a	23	250	13	630a	15	400	2
...NITZSCHIACEAE								
....HANTZSCHIA	--	-	--	-	--	-	--	-
....NITZSCHIA	380a	23	77	4	420	10	3000	14
...SURIRELLACEAE								
....CYMATOPLEURA	--	-	--	-	70	2	--	-
....SURIRELLA	15	1	--	-	140	3	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	39	2	--	-	--	-
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	13	1	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	170	9	--	-	810	4
..OSCILLATORIALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	120	7	--	-	--	-	--	-

See footnote at end of table.

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	NOV 20,80		MAR 26,81		MAY 28,81		JUN 25,81	
TIME	1115		0930		1400		1000	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	13	1	--	-	--	-
....TRACHELOMONAS	46	3	26	1	140	3	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..DINOKONTAE								
...GLENODINIACEAE								
....GLENODINIUM	--	-	13	1	--	-	--	-

DATE		0830		0930		0930	
TIME							
TOTAL CELLS/ML		14000		1800		2400	
DIVERSITY: DIVISION		1.1		1.0		1.3	
.CLASS		1.1		1.0		1.3	
..ORDER		1.7		1.6		2.1	
...FAMILY		2.1		2.1		2.9	
....GENUS		2.3		2.3		3.7	

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...DICTYOSPHAERIACEAE						
....DICTYOSPHAERIUM	--	-	--	-	--	-
...MICRACTINIACEAE						
....MICRACTINIUM	--	-	--	-	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	1900	14	170	10	230	10
....CHODATELLA	--	-	--	-	--	-
....OOCYSTIS	420	3	230	13	--	-
...SCENEDESMACEAE						
....ACTINASTRUM	1700	12	--	-	190	8
....COELASTRUM	--	-	--	-	120	5
....GLOEOACTINIUM	--	-	--	-	120	5
....SCENEDESMUS	640	5	--	-	190	8
....TETRASTRUM	--	-	--	-	62	3
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CARTERIA	--	-	--	-	31	1
....CHLAMYDOMONAS	--	-	86	5	170	7
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	5900a	43	140	8	300	12
....MELOSIRA	--	-	--	-	62	3
....STEPHANODISCUS	--	-	--	-	--	-
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	62	3
....COCCONEIS	--	-	--	-	--	-
....RHOICOSPHENIA	--	-	--	-	--	-
...CYMBELLACEAE						
....CYMBELLA	--	-	--	-	--	-
....EPITHEMIA	--	-	--	-	31	1
...DIATOMACEAE						
....DIATOMA	--	-	--	-	--	-
...FRAGILARIACEAE						
....ASTERIONELLA	--	-	--	-	--	-
....HANNAEA	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	31	1

See footnote at end of table.

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE						
TIME	0830		0930		0930	
TOTAL CELLS/ML	14000		1800		2400	
DIVERSITY: DIVISION	1.1		1.0		1.3	
.CLASS	1.1		1.0		1.3	
..ORDER	1.7		1.6		2.1	
...FAMILY	2.1		2.1		2.9	
....GENUS	2.3		2.3		3.7	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
...GOMPHONEMATACEAE						
....GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
....ENTOMONEIS	--	-	--	-	--	-
....GYROSIGMA	--	-	--	-	--	-
....NAVICULA	110	1	320a	18	190	8
...NITZSCHIACEAE						
....HANTZSCHIA	--	-	--	-	16	1
....NITZSCHIA	2500a	19	780a	44	400a	17
...SURIRELLACEAE						
....CYMATOPLEURA	--	-	--	-	--	-
....SURIRELLA	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
.CRYPTOPHYCEAE						
..CRYPTOMONADALES						
...CRYPTOCHRYSIDACEAE						
....CHROOMONAS	--	-	--	-	--	-
...CRYPTOMONADACEAE						
....CRYPTOMONAS	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	420	3	--	-	190	8
..OSCILLATORIALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	--	-	--	-	--	-
DATE	JUL 30,81		AUG. 27,81		SEP 22,81	
TIME	0830		0930		0930	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....EUGLENA	--	-	--	-	--	-
....TRACHELOMONAS	--	-	58	3	--	-
PYRRHOPHYTA (FIRE ALGAE)						
.DINOPHYCEAE						
..DINOKONTAE						
...GLENODINIACEAE						
....GLENODINIUM	--	-	--	-	--	-

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organism, may not have been counted: Less than 1/2 percent.

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	950	980	320	880	810	990	980	650	520	720	850	---
2	960	960	980	920	940	960	1000	620	480	720	880	---
3	---	950	960	920	---	990	---	590	430	760	860	940
4	920	930	960	960	870	980	---	---	400	---	880	---
5	930	930	990	960	890	---	1050	530	395	750	850	1050
6	960	920	820	1000	780	960	1030	580	415	750	850	---
7	960	940	660	970	890	1010	1020	---	390	---	850	950
8	960	---	---	980	930	1040	1000	540	385	---	---	940
9	1010	950	850	---	940	1020	1030	495	395	---	840	1060
10	---	940	910	---	920	970	---	---	---	750	860	1000
11	950	950	910	960	910	1000	1000	550	360	---	850	1090
12	970	790	---	950	910	1010	990	560	345	720	860	1090
13	960	---	880	1000	950	970	970	550	335	1180	---	1120
14	---	950	940	990	970	990	940	570	330	890	1000	1060
15	1030	930	930	980	960	990	990	590	---	940	1010	1010
16	---	940	950	1020	---	1020	---	600	350	840	960	990
17	---	910	980	1050	970	1020	1040	620	395	860	---	980
18	---	950	1010	1060	920	1050	1000	640	395	840	890	---
19	1190	970	980	1030	920	1070	960	650	415	830	890	950
20	1200	940	1000	1070	930	1050	990	660	435	---	950	930
21	1110	---	1000	1050	930	---	940	---	---	---	930	880
22	1070	---	990	1010	950	1030	840	730	490	---	1000	860
23	1080	970	980	1030	970	1020	---	670	520	790	970	860
24	1060	980	950	980	940	1000	---	660	570	790	970	870
25	1070	---	---	970	940	980	730	650	590	1130	930	890
26	1060	980	940	990	940	1010	660	710	610	880	960	950
27	1090	980	950	---	950	1040	---	640	---	790	950	---
28	1050	960	950	1020	940	1010	620	580	610	800	920	900
29	990	990	970	1030	---	1000	620	---	1090	810	940	890
30	970	1000	---	1030	---	960	610	520	820	820	1000	910
31	980	---	950	1030	---	950	---	520	---	840	1150	---
MEAN	1020	948	915	994	922	1000	---	603	480	---	923	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	9.0	2.0	2.0	1.0	6.0	9.0	21.5	20.0	24.0	24.0	---
2	17.0	7.0	2.0	2.5	.0	7.0	11.0	19.5	19.0	25.0	25.0	---
3	---	9.0	1.0	2.0	---	7.0	---	17.5	19.0	26.0	25.0	23.0
4	18.0	10.0	3.0	2.0	2.0	8.0	---	---	19.0	---	25.5	---
5	15.0	10.0	2.0	2.0	.0	---	11.0	19.0	19.0	26.0	25.5	20.0
6	16.0	10.0	3.5	3.0	2.0	6.0	11.0	17.5	21.0	26.0	26.0	---
7	17.0	10.0	2.5	2.0	2.0	9.0	10.0	---	21.0	---	24.0	20.0
8	19.0	---	---	.0	1.0	9.0	12.0	14.5	21.0	---	---	20.0
9	19.0	10.0	3.0	---	2.0	10.0	13.0	14.0	21.0	---	24.0	19.0
10	---	8.5	1.5	---	1.0	9.0	---	---	---	25.0	22.0	19.5
11	16.0	9.0	1.5	1.0	.0	8.5	13.0	15.0	21.0	---	21.0	20.0
12	14.0	9.0	---	.0	.0	9.0	13.0	17.0	22.0	23.0	23.0	22.0
13	15.0	---	2.0	1.0	1.0	9.0	14.0	13.5	19.5	25.0	---	21.0
14	---	5.0	1.0	1.0	3.0	10.0	14.0	19.0	19.0	25.0	23.0	22.0
15	10.0	5.0	1.0	1.0	3.0	10.0	13.5	15.0	---	25.0	23.5	22.0
16	---	5.0	.0	1.0	---	9.0	---	15.0	18.0	24.0	21.0	22.0
17	---	5.0	1.0	3.0	4.0	8.0	16.0	16.0	20.0	25.0	---	20.0
18	---	4.0	1.0	1.5	4.5	9.0	15.0	17.0	21.0	26.0	24.0	---
19	10.0	4.0	.0	2.0	5.0	9.0	13.5	15.5	21.0	23.0	25.0	22.0
20	10.0	1.0	2.0	2.5	4.5	8.0	15.0	14.0	23.0	---	26.0	20.0
21	11.0	---	2.0	2.0	6.0	---	14.0	---	---	---	22.0	21.0
22	11.0	---	2.0	.0	6.0	9.0	14.0	15.0	25.0	---	23.5	22.0
23	9.5	2.0	3.0	2.0	5.5	12.0	---	18.0	25.0	25.0	25.0	21.0
24	8.0	2.0	2.0	2.0	7.0	12.0	---	17.0	26.0	23.0	25.0	20.5
25	8.0	---	---	2.0	7.0	11.0	18.0	18.0	26.0	24.0	25.0	18.0
26	8.0	2.5	2.0	.0	5.0	12.0	16.5	18.0	25.0	24.0	25.5	19.0
27	8.0	2.0	3.0	---	7.0	9.0	---	20.0	---	24.0	25.0	---
28	8.0	3.0	2.0	1.0	7.5	9.0	17.0	18.0	23.0	25.0	25.0	19.0
29	8.0	2.0	---	2.0	---	10.0	20.0	---	25.0	26.0	23.0	18.0
30	8.0	2.0	---	2.0	---	9.0	19.5	20.0	24.0	25.0	23.0	16.5
31	8.0	---	3.0	1.0	---	9.0	---	20.0	---	26.0	23.0	---
MEAN	12.5	6.0	2.0	1.5	3.5	9.0	---	17.0	21.5	---	24.0	---

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	201	1530	335	3430	140	1200	40	273	56	408	219	1640
2	199	1510	310	3300	138	980	31	203	86	706	209	1460
3	169	1110	321	3720	139	953	31	198	104	907	198	1400
4	177	1230	305	3430	142	974	28	178	128	1210	203	1550
5	174	1120	289	3240	148	1050	31	198	115	1000	190	1360
6	178	1000	222	1800	149	1300	28	181	62	422	186	1230
7	186	1040	187	1410	130	1220	29	190	42	289	188	1220
8	199	1430	208	1900	119	1060	20	130	36	270	208	1570
9	201	1540	204	1990	146	1180	20	125	37	280	217	1790
10	170	1030	190	1810	193	1820	22	139	97	846	222	1810
11	170	1040	162	1520	190	1780	23	157	127	1190	221	1810
12	179	1230	177	1710	152	1150	30	207	76	595	211	1660
13	188	1360	159	1310	125	834	29	192	36	226	197	1530
14	850	9480	132	977	158	1290	29	189	39	216	195	1360
15	1250	14300	148	1200	191	1630	27	146	44	302	209	1410
16	1110	10800	142	1180	173	1310	31	151	118	1170	172	1110
17	1020	7990	148	1170	150	1100	37	173	88	775	166	1150
18	1060	9040	120	995	150	1050	49	261	83	740	160	1050
19	1240	12700	102	909	160	1080	47	274	185	1630	160	989
20	1190	10500	113	958	140	971	34	188	210	1630	185	1150
21	1130	10400	137	1210	129	926	38	212	189	1330	170	1080
22	1030	9090	152	1350	57	406	42	245	187	1290	144	914
23	910	7620	154	1230	44	322	35	201	199	1280	157	1150
24	620	4960	140	1110	48	369	28	162	209	1460	194	1610
25	500	3960	128	1020	45	339	28	162	201	1420	184	1370
26	500	3960	133	1160	42	303	24	139	82	520	181	1290
27	510	4100	133	1050	42	304	23	137	133	808	169	1150
28	770	8360	148	1090	41	304	23	124	192	1350	205	1670
29	1170	13600	146	982	43	311	19	92	---	---	259	2480
30	620	5780	144	1030	50	360	37	230	---	---	311	3250
31	370	3220	---	---	44	316	44	305	---	---	299	3120
TOTAL	---	166030	---	49191	---	28192	---	5762	---	24270	---	47333

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	362	3640	380	4420	2080	60700	670	4270	1010	4850	1030	5920
2	278	2290	530	7230	2340	70800	380	2380	840	4220	800	4380
3	215	1630	720	10400	2020	62200	310	1900	910	5630	720	4350
4	220	1640	835	12100	1540	47000	400	2700	720	4410	760	5050
5	195	1430	835	13000	1260	39500	520	3880	470	2740	3120	21300
6	185	1350	1150	20000	1070	32100	520	4070	300	1700	3960	34100
7	200	1460	1630	32600	1000	29700	580	4670	210	1130	2000	15200
8	390	3250	2410	57900	1100	35300	400	3050	170	808	1710	13000
9	305	2370	2240	48800	1070	34400	380	2940	130	632	4020	32100
10	280	2150	1970	37400	930	28900	320	2530	180	914	2790	19500
11	325	3220	1850	31100	900	28400	350	2710	250	1230	2060	13500
12	365	3860	1140	17700	920	29800	520	3850	420	2020	2220	14000
13	365	3860	740	10400	930	29900	2800	20300	1050	5050	1250	8130
14	420	4240	575	7420	850	24600	2800	19900	2680	13700	1020	7240
15	905	9480	480	5730	760	19300	2900	18700	3120	15500	1180	8890
16	780	6510	415	4650	600	12800	2250	15500	1950	12600	1520	12500
17	800	6630	345	3810	450	8150	890	6440	1490	9050	1970	14300
18	655	6010	295	3270	390	6150	1620	13600	780	4460	1200	7550
19	575	5530	325	4010	325	4540	1140	8430	500	2750	1280	9850
20	715	6890	310	3730	295	3660	700	4780	610	2830	1170	10700
21	655	6170	325	3550	275	3100	530	3650	580	2770	970	9800
22	595	6470	315	3490	230	2520	330	2390	910	5360	770	7650
23	585	7380	340	4090	220	2180	330	2300	1040	6350	580	6080
24	640	8040	625	7810	200	1740	340	1910	1320	7730	540	5720
25	660	8590	520	6180	185	1460	3880	27900	740	4400	550	5880
26	715	9420	545	6920	165	1230	3300	25100	500	3090	1040	9940
27	625	7360	915	16900	160	1170	1070	7020	370	2100	1050	8820
28	510	5470	1760	42700	165	1150	520	3580	300	1390	910	7420
29	450	4820	1780	39900	5780	43400	340	2230	590	2370	800	6980
30	430	4470	1370	30700	2000	13000	390	2150	640	2940	470	3870
31	---	---	1380	34200	---	---	840	4080	810	3980	---	---
TOTAL	---	145630	---	532110	---	678850	---	228910	---	138704	---	333720

TOTAL LOAD FOR YEAR: 2378702 TONS.

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT						
23...	1530	3120	9.5	881	99	7420
NOV						
20...	1115	3080	1.0	71	94	590
DEC						
18...	1030	2690	.0	63	94	458
JAN						
29...	0930	1750	1.0	17	97	80
FEB						
26...	1030	2230	4.5	60	98	361
MAR						
26...	0930	2500	10.0	127	100	856
APR						
30...	0900	3750	16.5	365	98	3700
30...	1030	3750	16.5	502	--	5080
MAY						
28...	1400	8960	18.0	2340	82	56600
28...	1645	8960	18.0	2370	--	57300
JUN						
25...	1000	3000	22.0	104	99	842
JUL						
30...	0830	2010	22.5	262	100	1420
AUG						
27...	0930	2030	22.0	369	99	2020
SEP						
22...	0930	3560	19.5	522	100	5020

09317919 CRANDALL CANYON AT MOUTH, NEAR HUNTINGTON, UTAH

LOCATION.--Lat 39°27'48", long 111°08'54", in SW¼NW¼ sec.4, T.16 S., R.7 E., Emery County, Hydrologic Unit 14060009, on right bank 0.1 mi (0.16 km) from Highway 31, 15.5 mi (24.9 km) northwest of Huntington.

DRAINAGE AREA.--5.7 mi^2 (14.8 km^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 (2,240 m).

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 28 ft^3/s (0.793 m^3/s) May 31, 1980; minimum, 0.24 ft^3/s (0.007 m^3/s) Mar. 10, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6.0 ft^3/s (0.170 m^3/s) May 30, gage height, 1.51 ft (0.460 m); minimum daily, 0.28 ft^3/s (0.008 m^3/s) Sept. 25, 27-30 (may have been lower during period of non-operation).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.68	.70						2.7	4.3	1.9	.55	.37
2	.68	.70						2.8	4.9	1.8	.55	.36
3	.68	.71						2.9	5.0	1.7	.50	.36
4	.68	.70						2.4	4.8	1.6	.48	.38
5	.66	.69						2.3	4.8	1.5	.47	.52
6	.66	.68						2.2	4.9	1.4	.44	.44
7	.68	.68						2.2	4.9	1.4	.43	.36
8	.66	.70						2.2	4.9	1.3	.41	.46
9	.64	.68						2.1	4.7	1.3	.39	.77
10	.68	.67						2.2	4.6	1.6	.55	.54
11	.68	.67						2.3	4.4	1.5	.53	.43
12	.90	.68						2.2	4.3	1.5	.55	.41
13	.84	.70						2.2	4.1	1.3	.56	.41
14	.91	.64						2.3	4.0	1.2	.51	.38
15	.98	.61						2.4	3.6	1.1	.49	.33
16	.91	.59						2.4	3.4	1.0	.50	.30
17	.83	.58						2.3	3.2	1.0	.45	.29
18	.83	.57						2.2	3.1	1.0	.43	.30
19	.76	.56						2.2	2.9	.93	.42	.29
20	.69	.56						2.4	2.8	.87	.43	.29
21	.69	.56						2.4	2.6	.84	.43	.29
22	.70	.56						2.3	2.5	.77	.51	.29
23	.63	.58						2.3	2.4	.79	.42	.29
24	.64	.59						2.2	2.3	.81	.42	.30
25	.70	.59						2.2	2.2	.76	.41	.28
26	.70	.59						2.3	2.2	.70	.39	.29
27	.64	.59						2.8	2.2	.65	.38	.28
28	.68	.59						2.9	2.0	.62	.39	.28
29	.74	.59						2.9	1.9	.61	.39	.28
30	.72	.59						4.0	1.9	.58	.40	.28
31	.77	---						4.2	---	.56	.37	---
TOTAL	22.64	18.90						77.4	105.8	34.59	14.15	10.85
MEAN	.73	.63						2.50	3.53	1.12	.46	.36
MAX	.98	.71						4.2	5.0	1.9	.56	.77
MIN	.63	.56						2.1	1.9	.56	.37	.28
AC-FT	45	37						154	210	69	28	22

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 current year, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
20...	1615	.69	490	8.6	9.0	3.0	10.3	99	--	270	15
NOV											
18...	1530	.57	580	8.5	.0	.0	11.2	99	.32	300	19
APR											
28...	1200	1.7	480	8.5	15.0	8.5	9.0	99	.46	260	32
JUN											
26...	1830	2.0	430	8.6	25.5	15.5	7.5	96	--	230	25
JUL											
14...	1145	1.2	460	8.5	23.5	12.0	8.1	96	--	240	33
AUG											
13...	1130	.58	450	8.5	12.5	11.0	8.8	102	.40	250	43
SEP											
03...	1200	.44	350	8.6	21.5	13.0	7.9	--	--	250	--
06...	1100	.44	465	8.4	13.0	9.5	8.7	98	--	240	30

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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY FIELD (MG/L AS CACO3)
OCT										
20...	--	57	32	5.5	4	.1	1.5	290	10	250
NOV										
18...	--	62	35	6.5	5	.2	1.6	330	5	280
APR										
28...	42	57	29	5.6	4	.2	1.3	260	7	230
JUN										
26...	48	50	25	4.7	4	.1	.9	240	5	200
JUL										
14...	--	52	27	5.2	4	.1	1.3	240	6	210
AUG										
13...	--	52	28	5.1	4	.2	1.4	240	6	210
SEP										
03...	--	49	31	5.3	4	.2	1.5	--	--	--
06...	--	48	28	5.0	4	.2	1.5	240	8	210

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	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)
OCT										
20...	--	1.2	38	5.5	.2	6.0	255	299	.35	.48
NOV										
18...	--	1.7	33	5.9	.2	6.4	304	320	.41	.47
APR										
28...	220	1.4	36	4.3	.2	5.4	265	271	.36	1.2
JUN										
26...	180	1.0	31	3.5	.1	6.0	232	244	.32	1.3
JUL										
14...	--	1.3	35	3.7	.1	6.4	239	255	.33	.77
AUG										
13...	--	1.3	30	4.2	.1	6.6	252	252	.34	.39
SEP										
03...	--	--	43	4.7	.1	7.0	261	--	.35	.31
06...	--	1.6	32	4.1	.1	6.6	247	252	.34	.29

09317919 CRANDALL CANYON AT MOUTH, NEAR HUNTINGTON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (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)	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)	POTASSIUM 40 DISSOLVED (PCI/L AS K40)
NOV											
18...	.010	.01	.43	.44	.18	.26	.06	.010	.03	.010	--
APR											
28...	.080	--	.61	.69	.27	.42	.04	.020	.06	.010	1.0
JUN											
26...	--	--	--	--	--	--	--	--	--	--	.70
JUL											
14...	--	--	--	--	--	--	--	--	--	--	1.0
AUG											
13...	.020	--	.33	.35	.07	.28	.12	.050	.15	.010	--

DATE	TIME	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)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)
OCT												
20...	1615	--	--	--	--	--	--	--	--	40	--	--
NOV												
18...	1530	1	--	2	100	40	60	0	<1	40	4	<1
APR												
28...	1200	1	0	1	100	40	60	0	<1	10	0	<1
JUN												
26...	1830	--	--	--	--	--	--	--	--	20	--	--
JUL												
14...	1145	--	--	--	--	--	--	--	--	10	--	--
AUG												
13...	1130	0	0	0	--	--	--	0	<1	20	0	<1
SEP												
03...	1200	--	--	--	--	--	--	--	--	10	--	--
06...	1100	--	--	--	--	--	--	--	--	20	--	--

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (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)
OCT											
20...	--	--	--	--	--	--	90	--	<10	--	--
NOV											
18...	0	--	0	2	--	1	110	--	<10	6	--
APR											
28...	10	10	0	5	4	1	130	--	<10	2	0
JUN											
26...	--	--	--	--	--	--	90	--	<10	--	--
JUL											
14...	--	--	--	--	--	--	90	80	10	--	--
AUG											
13...	20	10	10	4	3	1	100	--	<10	4	3
SEP											
03...	--	--	--	--	--	--	130	--	<10	--	--
06...	--	--	--	--	--	--	130	--	<10	--	--

09317919 CRANDALL CANYON AT MOUTH, NEAR HUNTINGTON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
OCT 20...	--	--	--	--	20	20	2	--	--	--	--
NOV 18...	1	10	0	10	10	7	3	.0	--	.0	1
APR 28...	5	0	0	6	10	8	2	.0	.0	.0	3
JUN 26...	--	--	--	--	0	0	2	--	--	--	--
JUL 14...	--	--	--	--	10	8	2	--	--	--	--
AUG 13...	1	--	--	--	10	8	2	.0	.0	.0	0
SEP 03...	--	--	--	--	0	0	2	--	--	--	--
06...	--	--	--	--	10	8	2	--	--	--	--

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)
OCT 20...	--	--	--	--	--	--	--	--	--	--	--
NOV 18...	--	0	0	--	0	220	0	220	10	--	<3
APR 28...	3	0	0	0	0	170	0	190	10	7	3
JUN 26...	--	--	--	--	--	--	--	--	--	--	--
JUL 14...	--	--	--	--	--	--	--	--	--	--	--
AUG 13...	0	2	0	0	0	--	--	--	0	0	3
SEP 03...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--

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)
NOV 18...	1530	5.4	.2	.00	6
APR 28...	1200	8.2	1.3	.00	16
AUG 13...	1130	1.6	.2	.00	7

DATE	TIME	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)
AUG 13...	1130	<8.3	<.4	<5.1	<.4	<4.9	<.4

09317919 CRANDALL CANYON AT MOUTH, NEAR HUNTINGTON, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	OCT 20,80	JUN 26,81	JUL 14,81	AUG 13,81	SEP 6,81
TIME	1615	1830	1145	1130	1100
TOTAL CELLS/ML	64	39	26	0	350
DIVERSITY: DIVISION	0.7	0.0	0.0	0.0	0.9
.CLASS	0.7	0.0	0.0	0.0	1.1
..ORDER	1.4	0.0	0.0	0.0	1.3
...FAMILY	1.4	1.6	1.0	0.0	1.5
....GENUS	1.4	1.6	1.0	0.0	1.5

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...OOCYSTACEAE										
....SELENASTRUM	13a	20	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	13a	20	--	-	--	-	--	-	28	8
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	--	-	--	-	--	-	14	4
...FRAGILARIACEAE										
....SYNEDRA	--	-	--	-	13a	50	--	-	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	13a	33	--	-	--	-	--	-
...NAVICULACEAE										
....NAVICULA	39a	60	13a	33	13a	50	--	-	14	4
...NITZSCHIACEAE										
....NITZSCHIA	--	-	13a	33	--	-	--	-	14	4
.CHRYSOPHYCEAE										
..OCHROMONADALES										
...OCHROMONADACEAE										
....OCHROMONAS	--	-	--	-	--	-	--	-	28	8
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..OSCILLATORIALES										
...OSCILLATORIACEAE										
....OSCILLATORIA	--	-	--	-	--	-	--	-	250a	72

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organism, many not have been counted: Less than 1/2 percent.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	CHLOR-B PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	BIOMASS CHLOROPHYLL RATIO PERIPHYTON (UNITS)
JUL 14...	1145	6.22	3.78	7.55	1.72	323
SEP 06...	1100	9.37	8.74	1.11	.080	568

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	COAL IN BOTTOM MATERIAL (GM/KG)
OCT 20...	1615	.69	3.0	24	.04	6.00
NOV 18...	1530	.57	.0	4	.01	--
APR 28...	1200	1.7	8.5	54	.25	--
JUN 26...	1830	2.0	15.5	10	.05	--
JUL 14...	1145	1.2	12.0	16	.05	--
AUG 13...	1130	.58	11.0	71	.11	--
SEP 06...	1100	.44	9.5	58	.07	--

09317920 TIE FORK CANYON NEAR HUNTINGTON, UTAH

LOCATION.--Lat 39°27'31", long 111°08'11", inNE¼SE¼ sec.4, T.16 S., R.7 E., Emery County, Hydrologic Unit 14060009, on right bank 0.4 mi (0.6 km) upstream from mouth, 0.4 mi (0.6 km) from Highway 31, 15 mi (24.1 km) northwest of Huntington.

DRAINAGE AREA.--11.7 mi^2 (30.3 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to September 1981 (discontinued) (seasonal).

GAGE.--Water-stage recorder. Altitude of gage is 7,400 ft (2,260 m) from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 29 ft^3/s (0.821 m^3/s) May 30, 31, June 7-9, 1980; minimum, 0.17 ft^3/s (0.005 m^3/s) Mar. 10, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.8 ft^3/s (0.136 m^3/s) Apr. 30, gage height, 1.40 ft (0.427 m); minimum observed, 0.41 ft^3/s (0.012 m^3/s) Nov. 18 (may have been lower during period of non-operation).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.82	.79						2.0	1.2	.66	.47	.60
2	.82	.79						1.9	1.3	.72	.48	.60
3	.82	.81						1.9	1.3	.65	.49	.59
4	.81	.83						1.4	1.1	.60	.46	.58
5	.79	.80						1.2	1.0	.61	.46	.83
6	.80	.83						1.2	1.0	.59	.45	.70
7	.81	.82						1.0	1.0	.61	.48	.66
8	.79	.82						1.1	.96	.60	.48	.74
9	.78	.82						.98	.91	.57	.48	.88
10	.82	.83						1.0	.90	.62	.62	.79
11	.83	.87						1.0	.88	.68	.65	.68
12	1.1	.88						.94	.85	.70	.63	.68
13	.99	.87						.91	.85	.69	.62	.66
14	1.1	.77						.91	.94	.59	.61	.63
15	1.2	.65						.97	.92	.50	.60	.60
16	1.1	.55						1.0	.88	.49	.60	.60
17	1.0	.49						.94	.84	.50	.59	.60
18	1.0	.47						.88	.83	.49	.56	.60
19	.97	.46						.88	.82	.47	.56	.57
20	.93	.45						1.0	.80	.45	.54	.57
21	.90	.46						1.1	.75	.45	.54	.57
22	.88	.45						1.1	.72	.45	.62	.60
23	.80	.45						1.0	.69	.47	.58	.60
24	.75	.45						.92	.72	.49	.59	.57
25	.76	.45						.82	.70	.51	.56	.54
26	.81	.45						.88	.69	.47	.58	.54
27	.80	.45						1.3	.68	.46	.59	.54
28	.77	.45						1.7	.69	.46	.62	.54
29	.79	.45						1.6	.67	.47	.61	.52
30	.83	.45						1.5	.65	.48	.63	.49
31	.82	---						1.4	---	.46	.64	---
TOTAL	27.19	19.11						36.43	26.24	16.96	17.39	18.67
MEAN	.88	.64						1.18	.87	.55	.56	.62
MAX	1.2	.88						2.0	1.3	.72	.65	.88
MIN	.75	.45						.82	.65	.45	.45	.49
AC-FT	54	38						72	52	34	34	37

09317920 TIE FORK CANYON NEAR HUNTINGTON, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to September 1981 (discontinued).
SEDIMENT DATA: November 1978 to September 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
20...	1300	.86	510	8.4	4.0	2.0	10.1	99	--	290	37
NOV											
18...	1130	.41	580	8.4	1.0	.0	11.4	101	.55	290	42
MAY											
22...	1245	1.1	480	8.5	11.0	9.0	9.3	104	.55	260	42
JUN											
25...	1130	.70	490	8.5	27.0	14.0	8.0	100	--	260	30
26...	1130	.70	490	8.5	27.0	14.0	8.0	100	--	--	--
JUL											
14...	1400	.64	475	8.4	28.0	14.0	8.2	102	--	250	40
AUG											
13...	0945	.62	500	8.2	13.0	9.0	9.2	102	.46	270	49
SEP											
03...	1100	.38	470	8.6	21.0	9.5	8.4	--	--	270	--
06...	1315	.67	495	8.5	14.0	10.0	8.8	100	--	260	40

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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY FIELD (MG/L AS CACO3)
OCT										
20...	--	63	32	4.4	3	.1	1.6	300	4	250
NOV										
18...	--	64	32	4.4	3	.1	1.8	340	4	280
MAY										
22...	32	57	29	4.8	4	.1	1.4	260	6	220
JUN										
25...	60	53	31	4.4	4	.1	1.2	270	6	230
26...	--	--	--	--	--	--	--	270	6	230
JUL										
14...	--	50	31	4.9	4	.1	1.7	250	3	210
AUG										
13...	--	54	32	4.5	4	.1	1.6	270	0	220
SEP										
03...	--	52	33	4.2	3	.1	1.7	--	--	--
06...	--	53	31	4.1	3	.1	1.8	250	9	220

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	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)
OCT										
20...	220	2.0	34	4.9	.1	6.0	252	298	.34	.59
NOV										
18...	250	1.9	30	5.1	.2	6.5	224	296	.30	.25
MAY										
22...	230	1.4	34	4.9	.1	4.8	251	275	.34	.75
JUN										
25...	200	1.2	39	4.5	.1	5.2	259	259	.35	.49
26...	--	1.4	--	--	--	--	--	--	--	--
JUL										
14...	--	1.6	40	4.5	.1	6.0	248	264	.34	.43
AUG										
13...	--	2.7	40	4.7	.1	6.4	264	277	.36	.44
SEP										
03...	--	--	41	9.8	.1	6.4	261	--	.35	.27
06...	--	1.4	40	4.5	.1	6.9	266	274	.36	.48

09317920 TIE FORK CANYON NEAR HUNTINGTON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (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)	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)	POTASSIUM 40 DISSOLVED (PCI/L AS K40)
NOV											
18...	.010	.01	.38	.39	.05	.34	.21	.010	.03	.020	--
MAY											
22...	.090	--	.40	.49	.03	.46	.09	.010	.03	.010	1.0
JUN											
25...	--	--	--	--	--	--	--	--	--	--	.90
JUL											
14...	--	--	--	--	--	--	--	--	--	--	1.3
AUG											
13...	.030	--	.51	.54	.23	.31	.15	.050	.15	.020	--

DATE	TIME	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, SUSPENDED RECOV. (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
OCT												
20...	1300	--	--	--	--	--	--	--	--	--	8	--
NOV												
18...	1130	1	--	2	100	20	80	10	--	<1	30	8
MAY												
22...	1245	1	1	0	0	0	60	0	--	<1	0	0
JUN												
25...	1130	--	--	--	--	--	--	--	--	--	10	--
JUL												
14...	1400	--	--	--	--	--	--	--	--	--	10	--
AUG												
13...	0945	0	0	0	--	--	--	0	0	1	20	0
SEP												
03...	1100	--	--	--	--	--	--	--	--	--	10	--
06...	1315	--	--	--	--	--	--	--	--	--	20	--

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (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)
OCT												
20...	--	--	--	--	--	--	--	80	--	<10	--	--
NOV												
18...	<1	10	--	0	1	--	2	140	--	<10	5	--
MAY												
22...	<1	0	0	0	4	2	2	70	--	<10	0	0
JUN												
25...	--	--	--	--	--	--	--	60	40	20	--	--
JUL												
14...	--	--	--	--	--	--	--	40	30	10	--	--
AUG												
13...	<1	10	10	0	37	37	0	50	--	<10	5	4
SEP												
03...	--	--	--	--	--	--	--	10	--	<10	--	--
06...	--	--	--	--	--	--	--	260	--	<10	--	--

09317920 TIE FORK CANYON NEAR HUNTINGTON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
OCT 20...	--	--	--	--	10	7	3	--	--	--	--
NOV 18...	0	10	0	10	10	7	3	.0	--	.0	2
MAY 22...	10	10	0	30	10	8	2	.1	.0	.1	1
JUN 25...	--	--	--	--	0	0	2	--	--	--	--
JUL 14...	--	--	--	--	10	9	1	--	--	--	--
AUG 13...	1	--	--	--	10	--	<1	.1	.1	.0	23
SEP 03...	--	--	--	--	0	0	2	--	--	--	--
06...	--	--	--	--	30	30	1	--	--	--	--

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)
OCT 20...	--	--	--	--	--	--	--	--	--	--	--
NOV 18...	--	0	0	--	0	230	0	250	10	--	<3
MAY 22...	1	0	0	0	0	270	50	220	0	0	9
JUN 25...	--	--	--	--	--	--	--	--	--	--	--
JUL 14...	--	--	--	--	--	--	--	--	--	--	--
AUG 13...	23	0	0	0	0	--	--	--	30	--	<3
SEP 03...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--

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)
NOV 18...	1130	21	.3	.00	39
MAY 22...	1245	15	.5	.00	4
AUG 13...	0945	5.0	.2	.00	35

DATE	TIME	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)
AUG 13...	0945	<8.4	<.4	<6.2	<.4	<5.8	<.4

09317920 TIE FORK CANYON NEAR HUNTINGTON, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	OCT 20,80		JUN 26,81		JUL 14,81		AUG 13,81		SEP 6,81	
TIME	1300		1130		1400		0945		1315	
TOTAL CELLS/ML	13		270		100		70		72	
DIVERSITY: DIVISION	0.0		1.5		0.0		0.0		0.0	
.CLASS	0.0		1.5		0.0		0.0		0.0	
..ORDER	0.0		1.7		0.5		0.0		0.0	
...FAMILY	0.0		2.7		1.5		1.5		1.0	
....GENUS	0.0		2.7		1.5		1.5		1.4	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...SCENEDESMACEAE										
....SCENEDESMUS	--	-	51a	19	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	--	-	13	5	13	13	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	13	5	13	13	28a	40	14a	20
....COCCONEIS	--	-	--	-	--	-	--	-	14a	20
...CYMBELLACEAE										
....CYMBELLA	--	-	13	5	64a	63	--	-	--	-
...FRAGILARIACEAE										
....SYNEDRA	--	-	51a	19	--	-	--	-	--	-
...NAVICULACEAE										
....NAVICULA	--	-	26	10	--	-	28a	40	43a	60
...NITZSCHIACEAE										
....NITZSCHIA	--	-	26	10	13	13	14a	20	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....ANACYSTIS	13a	100	77a	29	--	-	--	-	--	-

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organism, may not have been counted: Less than 1/2 percent.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	CHLOR-B PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	BIOMASS CHLOROPHYLL RATIO PERIPHYTON (UNITS)
AUG						
13...	0945	39.8	35.4	12.7	.640	346
SEP						
06...	1315	20.2	19.2	6.20	.260	161

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	COAL IN BOTTOM MATERIAL (GM/KG)
OCT						
20...	1300	.86	2.0	5	.01	5.00
NOV						
18...	1130	.41	.0	45	.05	--
MAY						
22...	1245	1.1	9.0	40	.12	--
JUN						
26...	1130	.70	14.0	2	.00	--
JUL						
14...	1400	.64	14.0	4	.01	--
AUG						
13...	0945	.62	9.0	74	.12	--
SEP						
06...	1315	.67	10.0	46	.08	--

09317920 TIE FORK CANYON NEAR HUNTINGTON, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE-BED MATERIAL, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
MAY 22...	1245	1.1	9.0	2	4	9	18

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
MAY 22...	24	33	43	57	75	100

09317997 HUNTINGTON CREEK NEAR HUNTINGTON, UTAH

LOCATION.--Lat 39°23'07", long 111°05'15", in SE¼NE¼SW¼ sec.36, T.16 S., R.7 E., Emery County, Hydrologic Unit 14060009, on right bank about 500 ft (150 m) upstream from bridge to Deer Creek Mine, 8 mi (12.9 km) northwest of Huntington.

DRAINAGE AREA.--181 mi^2 (469 km^2), approximately.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 6,450 ft (1,966 m) from topographic map.

REMARKS.--Records good. Small transmountain diversions to tributaries of San Pitch River (Sevier Lake Basin). Flow regulated by reservoirs above station.

COOPERATION.--Gage-height record was furnished by Utah Power & Light Co., and reviewed by U.S. Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,020 ft^3/s (28.9 m^3/s) June 11, 1980, gage height, 4.43 ft (1.350 m); minimum, 3.0 ft^3/s (0.085 m^3/s) Feb. 2-5, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 395 ft^3/s (11.2 m^3/s) June 4, gage height, 3.13 ft (0.954 m); minimum, 3.0 ft^3/s (0.085 m^3/s) February 2-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	62	40	31	22	30	31	128	98	107	81	58
2	82	61	36	31	14	30	32	135	97	103	86	57
3	75	62	38	30	14	29	34	171	84	95	85	57
4	75	62	38	29	18	30	31	112	67	90	81	57
5	73	42	38	29	16	30	31	92	66	90	79	85
6	72	36	37	22	29	30	35	87	69	92	81	71
7	76	35	32	24	30	28	35	106	72	111	77	60
8	70	34	8.1	27	32	22	31	110	69	172	86	56
9	67	33	16	27	40	22	31	99	65	177	84	59
10	71	33	12	30	27	23	37	99	60	187	95	68
11	72	35	27	27	22	23	37	115	65	190	110	56
12	85	35	28	30	39	23	39	95	79	183	94	56
13	84	42	24	27	33	23	39	68	85	163	105	56
14	92	38	27	23	35	24	42	103	79	159	93	55
15	97	34	37	30	34	25	57	116	83	153	104	55
16	83	33	33	29	34	28	60	106	78	157	115	55
17	75	28	29	32	33	30	66	96	88	162	96	55
18	73	30	30	29	32	28	62	91	87	158	93	54
19	70	35	30	30	31	30	75	99	84	155	102	54
20	65	39	29	29	30	30	57	91	90	148	110	54
21	65	34	29	27	30	29	54	93	89	142	116	54
22	64	41	29	26	31	29	52	84	86	122	119	53
23	64	41	29	28	32	30	60	77	87	130	105	53
24	63	41	32	27	31	31	83	77	95	132	90	53
25	62	35	33	22	31	31	124	83	112	130	83	53
26	61	38	33	16	31	31	146	82	111	135	59	52
27	61	37	33	18	29	32	123	112	110	134	59	52
28	61	43	32	29	30	30	114	93	105	124	59	52
29	61	40	31	27	---	30	114	95	103	97	59	52
30	62	40	30	26	---	31	124	94	103	99	58	51
31	62	---	32	22	---	29	---	97	---	90	58	---
TOTAL	2225	1199	932.1	834	810	871	1856	3106	2566	4187	2722	1703
MEAN	71.8	40.0	30.1	26.9	28.9	28.1	61.9	100	85.5	135	87.8	56.8
MAX	97	62	40	32	40	32	146	171	112	190	119	85
MIN	61	28	8.1	16	14	22	31	68	60	90	58	51
AC-FT	4410	2380	1850	1650	1610	1730	3680	6160	5090	8300	5400	3380

CAL YR 1980 TOTAL 41993.1 MEAN 115 MAX 864 MIN 8.1 AC-FT 83290
WTR YR 1981 TOTAL 23011.1 MEAN 63.0 MAX 190 MIN 8.1 AC-FT 45640

09317997 HUNTINGTON CREEK NEAR HUNTINGTON, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1979 to current year.
SEDIMENT DATA: October 1979 to current year, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
20...	1530	65	355	8.6	14.5	7.5	9.6	101	.30	190	13
NOV											
17...	1500	28	470	8.5	.5	.0	11.6	99	--	220	7
DEC											
07...	1245	32	435	8.3	2.0	.5	11.4	100	--	220	21
JAN											
16...	0945	29	450	8.1	2.5	.0	11.6	99	.91	240	28
FEB											
16...	1445	34	420	8.4	13.0	3.0	10.8	99	--	220	25
MAR											
15...	1100	25	440	8.5	10.0	3.5	9.7	101	--	220	25
APR											
17...	0900	66	350	8.5	15.0	6.5	10.0	102	.56	180	11
MAY											
22...	0915	84	380	8.4	11.0	6.5	9.9	101	--	180	13
JUN											
26...	1515	111	305	8.6	30.5	16.5	7.7	99	--	160	11
JUL											
14...	1600	159	345	8.6	28.5	15.5	8.1	101	.80	160	12
AUG											
13...	1500	105	310	8.4	16.5	14.0	8.3	100	--	110	0
SEP											
03...	1000	63	290	8.6	22.0	12.0	8.5	--	--	160	--
05...	1630	107	290	8.4	16.0	14.0	8.0	98	--	140	0

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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY FIELD (MG/L AS CACO3)
OCT										
20...	--	50	16	4.0	4	.1	1.1	200	8	180
NOV										
17...	--	52	22	5.7	5	.2	1.5	250	5	210
DEC										
07...	--	54	21	5.4	5	.2	1.2	240	0	200
JAN										
16...	--	59	22	6.0	5	.2	1.5	250	0	210
FEB										
16...	--	57	20	5.5	5	.2	1.3	240	3	200
MAR										
15...	--	55	20	6.7	6	.2	1.3	230	4	200
APR										
17...	--	46	16	4.5	5	.1	1.5	200	6	170
MAY										
22...	3.0	50	14	3.8	4	.1	.9	200	3	170
JUN										
26...	9.0	44	12	2.7	4	.1	.6	170	6	150
JUL										
14...	--	44	12	2.7	4	.1	.8	170	5	150
AUG										
13...	--	--	13	2.8	5	.1	1.2	250	4	210
SEP										
03...	--	44	12	3.0	4	.1	1.1	--	--	--
05...	--	38	12	2.8	4	.1	1.4	250	1	200

09317997 HUNTINGTON CREEK NEAR HUNTINGTON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 to SEPTEMBER 1981

DATE	ALKALINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	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 20...	--	.9	20	3.5	.1	2.9	183	204	.25	32.1
NOV 17...	--	1.3	31	5.1	.2	4.4	224	250	.30	16.9
DEC 07...	--	1.9	29	4.7	.2	4.2	245	240	.33	21.2
JAN 16...	--	3.2	33	4.8	.1	4.8	253	259	.34	19.8
FEB 16...	--	1.6	30	4.5	.1	4.7	236	243	.32	21.7
MAR 15...	--	1.2	33	6.8	.1	4.4	241	245	.33	16.3
APR 17...	--	1.1	27	4.9	.2	3.9	226	208	.31	40.3
MAY 22...	180	1.4	20	3.3	.1	3.1	191	203	.26	43.3
JUN 26...	150	.7	7.6	2.5	.1	2.7	173	162	.24	51.8
JUL 14...	--	.7	2.0	2.4	.1	2.7	170	156	.23	73.0
AUG 13...	--	1.6	<1.0	5.4	.1	2.5	175	--	.24	49.6
SEP 03...	--	--	13	3.5	.2	2.6	178	--	.24	30.3
05...	--	1.6	6.0	3.6	.1	2.7	164	191	.22	47.4

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (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)	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)	POTASSIUM 40 DISSOLVED (PCI/L AS K40)
OCT 20...	.000	.00	2.9	2.90	2.6	.30	.00	.030	.09	.030	--
NOV 17...	--	--	--	--	--	--	--	--	--	--	1.1
JAN 16...	.040	.05	.75	.79	.15	.64	.27	.010	.03	.000	--
FEB 16...	--	--	--	--	--	--	--	--	--	--	1.0
MAR 15...	--	--	--	--	--	--	--	--	--	--	1.0
APR 17...	.150	--	.95	1.10	.72	.38	.18	.110	.34	.020	1.1
MAY 22...	--	--	--	--	--	--	--	--	--	--	.70
JUN 26...	--	--	--	--	--	--	--	--	--	--	.40
JUL 14...	.130	--	.65	.78	.07	.71	.09	.050	.15	.000	.60

09317997 HUNTINGTON CREEK NEAR HUNTINGTON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
OCT											
20...	1530	--	--	--	100	30	70	--	--	20	--
NOV											
17...	1500	--	--	--	--	--	--	--	--	40	--
DEC											
07...	1245	--	--	--	--	--	--	--	--	40	--
JAN											
16...	0945	--	--	--	--	--	--	--	--	10	--
FEB											
16...	1445	--	--	--	--	--	--	--	--	20	--
MAR											
15...	1100	--	--	--	--	--	--	--	--	10	--
APR											
17...	0900	--	--	--	100	0	200	--	--	160	--
MAY											
22...	0915	1	1	0	--	--	--	0	<1	0	0
JUN											
26...	1515	--	--	--	--	--	--	--	--	10	--
JUL											
14...	1600	--	--	--	--	--	--	--	--	10	--
AUG											
13...	1500	--	--	--	--	--	--	--	--	20	--
SEP											
03...	1000	--	--	--	--	--	--	--	--	20	--
05...	1630	2	2	0	--	--	--	0	<1	20	0

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (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)
OCT											
20...	--	--	--	--	--	--	--	270	160	110	--
NOV											
17...	--	--	--	--	--	--	--	490	--	<10	--
DEC											
07...	--	--	--	--	--	--	--	190	180	10	--
JAN											
16...	--	--	--	--	--	--	--	260	230	30	--
FEB											
16...	--	--	--	--	--	--	--	250	230	20	--
MAR											
15...	--	--	--	--	--	--	--	140	130	10	--
APR											
17...	--	--	--	--	--	--	--	5300	5300	30	--
MAY											
22...	<1	10	10	0	5	4	1	530	520	10	8
JUN											
26...	--	--	--	--	--	--	--	2500	2500	10	--
JUL											
14...	--	--	--	--	--	--	--	520	--	<10	--
AUG											
13...	--	--	--	--	--	--	--	15000	--	<10	--
SEP											
03...	--	--	--	--	--	--	--	50	40	10	--
05...	<1	20	10	10	36	35	1	21000	21000	30	41

09317997 HUNTINGTON CREEK NEAR HUNTINGTON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	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)	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)
OCT 20...	--	--	10	0	10	20	10	10	--	--	--
NOV 17...	--	--	--	--	--	30	20	7	--	--	--
DEC 07...	--	--	--	--	--	30	30	5	--	--	--
JAN 16...	--	--	--	--	--	10	5	5	--	--	--
FEB 16...	--	--	--	--	--	10	5	5	--	--	--
MAR 15...	--	--	--	--	--	10	5	5	--	--	--
APR 17...	--	--	10	0	10	130	120	10	--	--	--
MAY 22...	8	0	--	--	--	30	30	5	.1	.1	.0
JUN 26...	--	--	--	--	--	100	90	7	--	--	--
JUL 14...	--	--	--	--	--	50	40	6	--	--	--
AUG 13...	--	--	--	--	--	400	400	4	--	--	--
SEP 03...	--	--	--	--	--	0	0	32	--	--	--
05...	40	1	--	--	--	660	660	4	.1	.1	.0

DATE	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, 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, DISSOLVED (UG/L AS ZN)
OCT 20...	--	--	--	--	--	--	150	30	120	--	--
NOV 17...	--	--	--	--	--	--	--	--	--	--	--
DEC 07...	--	--	--	--	--	--	--	--	--	--	--
JAN 16...	--	--	--	--	--	--	--	--	--	--	--
FEB 16...	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	--	--	--	--	--	--	--	--	--	--	--
APR 17...	--	--	--	--	--	--	160	20	140	--	--
MAY 22...	3	1	2	0	0	0	--	--	--	0	<3
JUN 26...	--	--	--	--	--	--	--	--	--	--	--
JUL 14...	--	--	--	--	--	--	--	--	--	--	--
AUG 13...	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	--	--	--	--	--	--	--	--	--	--	--
05...	36	35	1	1	1	0	--	--	--	110	<3

09317997 HUNTINGTON CREEK NEAR HUNTINGTON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L)
OCT 20...	1530	18	.7	.01	0	0
JAN 16...	0945	7.0	.1	.00	14	--
APR 17...	0900	3.0	.9	.00	14	--
JUL 14...	1600	2.2	.4	.00	4	--

DATE	TIME	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)
SEP 05...	1630	<4.0	110	2.9	43	2.8	42

09317997 HUNTINGTON CREEK NEAR HUNTINGTON, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO AUGUST 1981

DATE	JUN 26,81		JUL 14,81		AUG 13,81	
TIME	1515		1600		1500	
TOTAL CELLS/ML	1400		460		75000	
DIVERSITY: DIVISION	1.1		1.7		0.5	
.CLASS	1.1		1.7		0.5	
..ORDER	1.3		1.9		1.4	
...FAMILY	2.1		2.4		1.9	
....GENUS	2.3		2.5		2.0	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...CHLOROCOCCACEAE						
....TETRAEDRON	--	-	--	-	b	0
...DICTYOSPHAERIACEAE						
....DICTYOSPHAERIUM	13	1	--	-	--	-
...MICRACTINIACEAE						
....MICRACTINIUM	--	-	--	-	1300	2
...OOCYSTACEAE						
....FRANCEIA	--	-	--	-	b	0
....OOCYSTIS	--	-	39	8	420	1
...SCENEDESMACEAE						
....COELASTRUM	--	-	--	-	500	1
....SCENEDESMUS	--	-	--	-	b	0
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	13	1	39	8	b	0
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	64	5	--	-	b	0
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	64	5	13	3	2300	3
....COCCONEIS	--	-	13	3	--	-
...CYMBELLACEAE						
....CYMBELLA	26	2	--	-	--	-
...FRAGILARIACEAE						
....ASTERIONELLA	77	6	26	6	--	-
....FRAGILARIA	140	10	--	-	--	-
....SYNEDRA	--	-	--	-	b	0
...GOMPHONEMATACEAE						
....GOMPHONEMA	13	1	26	6	--	-
...NAVICULACEAE						
....NAVICULA	100	7	13	3	--	-
...NITZSCHIACEAE						
....NITZSCHIA	90	7	26	6	b	0
CRYPTOPHYTA (CRYPTOMONADS)						
.CRYPTOPHYCEAE						
..CRYPTOMONADALES						
...CRYPTOCHRYSIDACEAE						
....CHROOMONAS	--	-	--	-	b	0
...CRYPTOMONADACEAE						
....CRYPTOMONAS	--	-	13	3	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..NOSTOCALES						
...HAMMATOIDEACEAE						
....RAPHIDIOPSIS	--	-	--	-	23000a	31
...NOSTOCACEAE						
....ANABAENA	--	-	--	-	2300	3
....CYLINDROSPERMUM	--	-	--	-	8800	12
..OSCILLATORIALES						
...OSCILLATORIACEAE						
....LYNGBYA	770a	56	--	-	35000a	47
....OSCILLATORIA	--	-	240a	53	--	-
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....TRACHELOMONAS	--	-	13	3	--	-
PYRRHOPHYTA (FIRE ALGAE)						
.DINOPHYCEAE						
..DINOKONTAE						
...PERIDINIACEAE						
....PERIDINIUM	--	-	--	-	b	0

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent
(b) Observed organism, may not have been counted: Less than 1/2 percent

09317997 HUNTINGTON CREEK NEAR HUNTINGTON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)
NOV						
17...	1500	.472	.472	.020	.000	.00
JUL						
14...	1600	.236	.236	.110	.000	.00

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	COAL IN BOTTOM MATE-RIAL (GM/KG)
OCT						
20...	1530	65	7.5	29	5.1	12.0
NOV						
17...	1500	28	.0	54	4.1	--
DEC						
07...	1245	32	.5	20	1.7	--
JAN						
16...	0945	29	.0	5	.39	--
FEB						
16...	1445	34	3.0	11	1.0	--
MAR						
15...	1100	25	3.5	49	3.3	--
APR						
17...	0900	66	6.5	477	85	--
MAY						
22...	0915	84	6.5	54	12	--
JUN						
26...	1515	111	16.5	628	188	--
JUL						
14...	1600	159	15.5	89	38	--
AUG						
13...	1500	105	14.0	1220	346	--
SEP						
05...	1630	107	14.0	1830	529	--

09319000 EPHRAIM TUNNEL NEAR EPHRAIM, UTAH
(Transmountain diversion)

LOCATION.--Lat 39°19'47", long 111°25'51", in SE¼SE¼SE¼ sec.14, T.17 S., R.4 E., Sanpete County, Hydrologic Unit 14060009, at east tunnel portal, 9.0 mi (14.5 km) 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 (2,955.006 m) NGVD of 1929. (Levels by U.S. Geological Survey, Topographic Division.)

REMARKS.--Records poor. 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 (4.02 m^3/s) June 6, 1964, gage height, 5.43 ft (1.655 m); no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 79 ft^3/s (2.24 m^3/s) June 7; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	7.2	77	4.6	.70	.00
2							---	9.2	66	4.4	.66	.00
3							---	18	61	4.1	.61	.00
4							---	22	58	3.9	.56	.00
5							---	21	67	3.6	.52	5.0
6							---	21	72	3.4	.47	1.7
7							---	20	79	3.2	.47	.80
8							---	19	72	3.9	.47	3.5
9							---	18	61	3.4	.38	1.2
10							---	17	51	2.9	.38	.30
11							---	17	38	3.5	.38	.00
12							---	17	30	2.6	.38	.00
13							---	16	24	2.3	.35	.00
14							---	16	20	2.1	.32	.00
15							---	17	14	2.2	.29	.00
16							---	15	12	1.9	.27	.00
17							---	11	12	1.9	.24	.00
18							---	10	11	1.9	.22	.00
19							---	8.9	11	1.6	.20	.00
20							---	7.0	11	1.4	1.9	.00
21							---	5.2	10	1.4	.00	.00
22							---	5.2	8.9	1.3	.00	.00
23							---	6.1	8.2	1.2	.00	.00
24							---	9.8	7.0	1.1	.00	.00
25							---	20	6.7	1.0	.00	.00
26							---	37	6.4	.96	.00	.00
27							---	63	5.8	.90	.00	.00
28							.78	67	5.8	.85	.00	.00
29							1.9	69	5.2	.82	.00	.00
30							4.6	68	5.0	.78	.00	.00
31							---	75	---	.74	.00	---
TOTAL							---	732.6	916.0	69.85	9.77	12.50
MEAN							---	23.6	30.5	2.25	.32	.42
MAX							---	75	79	4.6	1.9	5.0
MIN							---	5.2	5.0	.74	.00	.00
AC-FT							---	1450	1820	139	19	25

09323000 SPRING CITY TUNNEL NEAR SPRING CITY, UTAH
(Transmountain diversion)

LOCATION.--Lat 39°25'34", long 111°21'51", in NW¼SW¼SE¼ sec.16, T.16 S., R.5 E., Sanpete County, Hydrologic Unit 14060009, at west portal of tunnel, 11 mi (18 km) 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 (2,999 m) 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 (0.09 m) 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 (3.14 m3/s) July 23, 1965; possibly no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum recorded discharge, 49 ft^3/s (1.39 m^3/s) June 8, gage height, 2.47 ft (0.753 m); minimum recorded, 0.82 ft^3/s (0.023 m^3/s).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	4.1	13	5.0	1.9	1.2
2							---	4.6	14	5.1	1.8	1.1
3							---	3.5	15	4.6	1.8	1.1
4							---	3.2	18	4.3	1.7	1.1
5							---	3.5	20	4.2	1.7	2.3
6							---	3.3	22	4.3	1.6	1.5
7							---	3.1	29	4.0	1.6	1.2
8							---	3.2	39	3.8	1.6	1.7
9							---	3.4	39	3.8	1.5	2.0
10							---	3.7	35	3.8	2.1	1.3
11							---	3.9	30	4.0	1.8	1.2
12							---	3.6	24	3.8	2.0	1.2
13							---	3.4	19	3.5	1.7	1.2
14							---	3.9	16	3.2	1.6	1.1
15							---	4.4	14	3.1	1.6	1.0
16							---	4.0	12	3.1	1.5	1.0
17							---	3.6	11	3.0	1.5	1.0
18							---	3.2	11	3.0	1.4	.97
19							---	3.5	10	2.7	1.4	.95
20							---	3.3	9.4	2.7	1.4	.95
21							---	3.2	9.0	2.6	1.4	.95
22							---	3.1	8.5	2.4	1.6	.92
23							---	3.1	7.7	2.3	1.4	.91
24							---	3.4	7.1	2.3	1.3	.94
25							---	3.8	6.4	2.2	1.3	.91
26							---	4.5	6.2	2.1	1.3	.88
27							---	6.0	6.0	2.1	1.3	.86
28							2.9	7.0	5.8	2.0	1.3	.86
29							3.3	8.2	5.3	2.0	1.3	.85
30							3.7	9.8	5.1	2.0	1.3	.86
31							---	11	---	1.9	1.2	---
TOTAL							---	135.5	467.5	98.9	47.9	34.01
MEAN							---	4.37	15.6	3.19	1.55	1.13
MAX							---	11	39	5.1	2.1	2.3
MIN							---	3.1	5.1	1.9	1.2	.85
AC-FT							---	269	927	196	95	67

09323900 JOES VALLEY RESERVOIR NEAR ORANGEVILLE, UTAH

LOCATION.--Lat 39°17'20", long 111°16'10", in NW¼NE¼ sec.5, T.18 S., R.6 E., Emery County, Hydrologic Unit 14060009, on Seeley Creek 5.2 mi (8.4 km) upstream from Cottonwood Creek, and 12.6 mi (20.3 km) west of Orangeville.

DRAINAGE AREA.--146 mi^2 (378 km^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 (67.3 hm^3) between elevations 6,910.0 and 6,989.7 ft (2,106.17 and 2,130.46 m) above mean sea level. Dead storage, 870 acre-ft (1.1 hm^3) between elevations 6,817.0 and 6,866.5 ft (2,077.82 and 2,092.91 m). Inactive storage, 6,980 acre-ft (8.6 hm^3) between elevations 6,866.5 and 6,910.0 ft (2,092.91 and 2,106.17 m). 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, 64,950 acre-ft (80.1 hm^3) June 19, 1975; minimum observed since reservoir was first filled, 7,710 acre-ft (9.5 hm^3) Oct. 1, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 53,920 acre-ft (66.5 hm^3) June 12, 15, elevation, 6,982.1 ft (2,128.14 m); minimum observed, 42,100 acre-ft (51.9 hm^3). Sept. 30, elevation, 6,970.1 ft (2,124.49 m).

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

6,970	42,010	6,980	51,700
6,975	46,660	6,985	57,090

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	45510	---	---	44850	---	46570	49940	---	---	43550
2	---	---	---	45320	45040	---	---	---	50250	---	---	---
3	49840	45610	---	---	---	---	44660	---	---	51700	47840	---
4	---	---	---	---	---	---	---	47940	---	---	47640	43270
5	---	---	45510	45320	---	---	---	48230	51380	---	---	---
6	49330	---	---	---	45040	44760	44660	---	---	51180	---	---
7	49230	45610	---	---	---	---	---	---	---	50970	47150	---
8	---	---	45510	---	---	---	---	48530	52640	---	---	42910
9	---	---	---	45230	45040	44760	---	---	---	---	---	---
10	48630	45610	---	---	---	---	44660	---	---	50660	46660	42910
11	---	---	---	---	---	---	---	48730	---	---	46470	43000
12	---	---	45420	45230	---	---	---	---	53920	---	---	---
13	---	---	---	---	44940	44660	44660	---	---	50450	46080	---
14	47940	45610	---	---	---	---	---	---	---	50350	45890	43000
15	---	---	---	---	---	---	---	48830	53920	---	---	---
16	---	---	45420	45130	---	44660	44850	---	---	---	---	---
17	47350	45510	---	---	---	---	---	---	---	50250	45610	---
18	---	---	---	---	---	---	---	48730	---	---	45510	42910
19	---	---	45420	45130	---	---	---	48730	53810	---	---	---
20	46760	---	---	---	44940	44660	45230	48630	---	49940	---	---
21	46470	45510	---	---	---	---	---	---	---	49840	45040	42910
22	---	---	45420	---	---	---	---	48530	53600	---	---	42910
23	---	---	---	45130	44850	44660	---	---	53490	49540	---	---
24	46180	45610	---	---	---	44660	45040	---	---	---	44660	---
25	---	---	---	---	---	---	---	---	---	---	---	42640
26	---	---	45420	45130	---	---	---	48430	53060	---	---	---
27	45700	---	---	45130	44850	44660	45610	---	---	48830	---	---
28	45610	45510	---	---	a44850	---	---	---	---	---	44100	42370
29	---	---	45420	---	---	---	---	48930	52430	---	---	---
30	45610	a45510	---	45130	---	44660	a46330	---	52320	---	---	42100
31	45610	---	a45370	a45100	---	a44660	---	a49600	---	48330	43730	---
(†)	6973.9	---	---	---	----	---	---	---	6980.6	6976.7	6971.9	6970.1
(‡)	-4640	-100	-140	-270	-250	-190	+1670	+3270	+2720	-3990	-4600	-1630

CAL YR 1980 . . . . . (‡) +4680
WTR YR 1981 . . . . . (‡) -8150

(†) ELEVATION, IN FEET, AT END OF MONTH
(‡) CHANGE IN CONTENTS, IN ACRE-FEET
(a) NO GAGE-HEIGHT READING, CONTENTS INTERPOLATED

09324200 COTTONWOOD CREEK ABOVE STRAIGHT CANYON, NEAR ORANGEVILLE, UTAH

LOCATION.--Lat 39°18'26", long 111°11'02", in SE¼NE¼ sec.36, T.17 S., R.6 E., Emery County, Hydrologic Unit 14060009, on left bank 9.9 mi (15.9 km) upstream from mouth, 2.5 mi (4.0 km) north from Ephraim-Castle Dale road, 10.6 mi (17.1 km) northwest of Orangeville.

DRAINAGE AREA.--21.9 mi^2 (56.7 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to September 1981 (discontinued) (seasonal).

GAGE.--Water-stage recorder. Altitude of gage is 6,940 ft (2,120 m) from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 22 ft^3/s (0.623 m^3/s) June 5, 1980; no flow Aug. 5, 6, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.4 ft^3/s (0.125 m^3/s) Sept. 9, gage height, 1.32 ft (0.402 m); no flow Aug. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.2						.90	.85	.56	.40	.31
2	1.2	1.2						1.1	.93	.58	.39	.31
3	1.2	1.2						1.1	.91	.68	.31	.31
4	1.2	1.1						.98	.83	.58	.26	.33
5	1.3	1.1						.91	.81	.57	.20	.78
6	1.3	1.2						.95	.90	.49	.14	.65
7	1.2	1.2						.90	.89	.42	.23	.54
8	1.1	1.2						.94	.72	.43	.26	.99
9	1.2	1.2						.97	.68	.61	.26	1.3
10	1.2	1.2						.98	.72	.65	.28	.96
11	1.2	1.2						.96	.68	.63	.31	.76
12	1.8	1.2						.89	.68	.69	.35	.77
13	1.5	1.2						.90	.77	.55	.42	.69
14	1.5	1.0						.94	.78	.49	.39	.54
15	1.6	.87						1.0	.68	.40	.35	.52
16	1.4	.73						1.0	.65	.40	.35	.48
17	1.4	.63						.98	.63	.44	.30	.32
18	1.3	.56						.98	.58	.50	.21	.28
19	1.3	.51						.90	.60	.48	.24	.44
20	1.3	.48						.98	.67	.40	.21	.51
21	1.2	.48						1.0	.66	.35	.24	.39
22	1.2	.48						.95	.49	.33	.43	.52
23	1.1	.49						.98	.47	.47	.35	.34
24	1.0	.53						1.0	.51	.51	.31	.47
25	1.1	.56						1.0	.45	.49	.26	.40
26	1.2	.54						.99	.48	.46	.28	.50
27	1.2	.54						1.1	.62	.33	.24	.43
28	1.1	.54						1.0	.63	.28	.24	.42
29	1.1	.54						.97	.46	.33	.34	.33
30	1.2	.54						.97	.53	.35	.39	.46
31	1.2	---						.99	---	.28	.23	---
TOTAL	38.9	25.42						30.21	20.26	14.73	9.17	16.05
MEAN	1.25	.85						.97	.68	.48	.30	.54
MAX	1.8	1.2						1.1	.93	.69	.43	1.3
MIN	1.0	.48						.89	.45	.28	.14	.28
AC-FT	77	50						60	40	29	18	32

09324200 COTTONWOOD CREEK ABOVE STRAIGHT CANYON, NEAR ORANGEVILLE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to current year.
SEDIMENT DATA: November 1978 to current year, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SP SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
22...	1100	1.3	660	8.5	12.0	5.0	10.0	100	--	340	43
NOV											
20...	1515	.48	660	8.4	4.5	1.0	11.5	103	.99	310	37
MAY											
25...	1500	1.0	610	8.5	20.0	11.0	8.6	99	.81	310	57
JUN											
28...	1800	.60	540	8.7	22.0	17.0	7.4	97	--	270	40
JUL											
15...	1545	.24	540	8.6	30.0	21.5	6.8	98	--	260	46
AUG											
08...	1600	.30	530	8.5	31.0	21.5	7.3	106	.68	270	50
SEP											
03...	1500	.41	500	8.8	25.5	16.5	7.6	--	--	250	--
07...	1615	.36	560	8.6	18.0	14.0	8.3	101	--	270	32

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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY FIELD (MG/L AS CACO3)
OCT										
22...	--	60	45	22	12	.5	2.0	350	6	290
NOV										
20...	--	55	41	20	12	.5	2.7	360	5	300
MAY										
25...	47	50	44	20	12	.5	.8	290	9	250
JUN										
28...	66	39	41	17	12	.5	1.6	240	20	230
JUL										
15...	--	39	40	17	12	.5	2.2	240	10	220
AUG										
08...	--	37	42	17	12	.5	2.2	260	4	220
SEP										
03...	--	34	39	15	12	.5	2.2	--	--	--
07...	--	49	35	14	10	.4	2.8	270	10	240

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	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)
OCT										
22...	--	1.8	72	14	.2	7.2	322	401	.44	1.1
NOV										
20...	270	2.1	57	14	.2	6.8	371	362	.50	.48
MAY										
25...	260	1.6	69	12	.1	6.7	341	361	.46	.92
JUN										
28...	200	.9	58	12	.1	7.0	299	314	.41	.48
JUL										
15...	--	1.0	58	12	.1	6.9	290	303	.39	.19
AUG										
08...	--	1.4	53	15	.1	6.8	306	306	.42	.25
SEP										
03...	--	--	53	14	.1	5.8	293	--	.40	.32
07...	--	1.2	50	11	.2	6.7	300	312	.41	.29

09324200 COTTONWOOD CREEK ABOVE STRAIGHT CANYON, NEAR ORANGEVILLE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	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)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
NOV											
20...	.020	.02	.48	.50	.03	.47	.52	.020	.06	.010	--
MAY											
25...	.060	--	.36	.42	.00	.51	.30	.030	.09	.010	.60
JUN											
28...	--	--	--	--	--	--	--	--	--	--	1.2
JUL											
15...	--	--	--	--	--	--	--	--	--	--	1.6
AUG											
08...	.030	--	.54	.57	.15	.42	.26	.020	.06	.020	--

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)
OCT											
22...	1100	--	--	--	--	--	--	--	--	40	--
NOV											
20...	1515	3	--	1	100	40	60	0	<1	200	3
MAY											
25...	1500	1	0	1	100	10	90	0	<1	20	0
JUN											
28...	1800	--	--	--	--	--	--	--	--	30	--
JUL											
15...	1545	--	--	--	--	--	--	--	--	20	--
AUG											
08...	1600	1	0	2	--	--	--	10	<1	30	1
SEP											
03...	1500	--	--	--	--	--	--	--	--	20	--
07...	1615	--	--	--	--	--	--	--	--	30	--

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (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)
OCT											
22...	--	--	--	--	--	--	--	400	--	<10	--
NOV											
20...	<1	20	--	10	5	--	1	3200	--	<10	9
MAY											
25...	<1	10	0	10	4	3	1	150	130	20	0
JUN											
28...	--	--	--	--	--	--	--	70	--	<10	--
JUL											
15...	--	--	--	--	--	--	--	190	180	10	--
AUG											
08...	<1	30	20	10	5	3	2	100	--	<10	5
SEP											
03...	--	--	--	--	--	--	--	240	--	<10	--
07...	--	--	--	--	--	--	--	3200	3200	14	--

DATE	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)	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)
OCT											
22...	--	--	--	--	--	30	30	5	--	--	--
NOV											
20...	--	0	20	10	10	90	90	3	.1	--	.0
MAY											
25...	0	2	10	0	30	10	8	2	.1	.1	.0
JUN											
28...	--	--	--	--	--	0	--	<1	--	--	--
JUL											
15...	--	--	--	--	--	10	6	4	--	--	--
AUG											
08...	1	4	--	--	--	10	9	1	.0	.0	.0
SEP											
03...	--	--	--	--	--	10	7	3	--	--	--
07...	--	--	--	--	--	80	80	3	--	--	--

09324200 COTTONWOOD CREEK ABOVE STRAIGHT CANYON, NEAR ORANGEVILLE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	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, 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, DIS-SOLVED (UG/L AS ZN)
OCT 22...	--	--	--	--	--	--	--	--	--	--	--
NOV 20...	7	--	0	1	--	1	400	50	350	30	<3
MAY 25...	1	1	0	1	0	1	360	0	360	10	<3
JUN 28...	--	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	--	--	--	--	--	--
AUG 08...	1	1	0	1	0	1	--	--	--	10	<3
SEP 03...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--

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)
NOV 20...	1515	5.3	4.0	.00	8
MAY 25...	1500	6.3	.3	.00	3
AUG 08...	1600	1.7	.1	.00	13

DATE	TIME	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)
AUG 08...	1600	<13	<.4	<5.6	<.4	<5.4	<.4

09324200 COTTONWOOD CREEK ABOVE STRAIGHT CANYON, NEAR ORANGEVILLE, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	OCT 22,80		JUN 28,81		JUL 15,81		AUG 8,81		SEP 7,81	
TIME	1100		1800		1545		1600		1615	
TOTAL CELLS/ML	51		190		170		950		530	
DIVERSITY: DIVISION	0.0		0.0		0.0		0.9		0.8	
.CLASS	0.0		0.0		0.0		0.9		0.8	
..ORDER	1.0		0.0		0.0		1.5		0.8	
...FAMILY	1.5		0.9		1.2		2.2		2.2	
....GENUS	1.5		0.9		1.2		2.2		2.2	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....MELOSIRA	26a	50	--	-	--	-	28	3	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	26	13	26a	15	55	6	72	14
...CYMBELLACEAE										
....CYMBELLA	--	-	--	-	--	-	28	3	--	-
...FRAGILARIACEAE										
....SYNEDRA	--	-	--	-	--	-	--	-	57	11
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	--	-	--	-	28	3	--	-
...NAVICULACEAE										
....GYROSIGMA	--	-	--	-	--	-	14	1	--	-
....NAVICULA	13a	25	13	7	26a	15	55	6	190a	35
...NITZSCHIACEAE										
....NITZSCHIA	13a	25	150a	80	120a	69	120	13	72	14
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....AGMENELLUM	--	-	--	-	--	-	110	12	--	-
..OSCILLATORIALES										
...OSCILLATORIACEAE										
....OSCILLATORIA	--	-	--	-	--	-	510a	54	140a	27

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organism, may not have been counted: Less than 1/2 percent.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	CHLOR-B PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	BIOMASS CHLOROPHYLL RATIO PERIPHYTON (UNITS)
JUL 15...	1545	19.8	16.9	.200	.000	14500
AUG 08...	1600	31.3	29.8	.240	.000	6250

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	COAL IN BOTTOM MATERIAL (GM/KG)
OCT 22...	1100	1.3	5.0	56	.20	44.0
NOV 20...	1515	.48	1.0	396	.51	--
MAY 25...	1500	1.0	11.0	48	.13	--
JUN 28...	1800	.60	17.0	4	.01	--
JUL 15...	1545	.24	21.5	21	.01	--
AUG 08...	1600	.30	21.5	4	.00	--
SEP 07...	1615	.36	14.0	156	.15	--

09324200 COTTONWOOD CREEK ABOVE STRAIGHT CANYON, NEAR ORANGEVILLE, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
MAY 25...	1500	1.0	11.0	3	6	16	29

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
MAY 25...	33	38	50	67	88	100

09324500 COTTONWOOD CREEK NEAR ORANGEVILLE, UTAH

LOCATION.--Lat 39°16'00", long 111°07'45", in NE¼SW¼SW¼ sec.10, T.18 S., R.7 E., Emery County, Hydrologic Unit 14060009, on left bank 2 mi (3 km) upstream from Grimes Wash, and 5 mi (8 km) northwest of Orangeville.

DRAINAGE AREA.--208 mi^2 (539 km^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 (1,844 m) 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 good except those for periods of no gage-height record, Dec. 8 to Jan. 15, which are poor. Flow regulated by Joes Valley Reservoir, 09323900, (see preceding page) 8 mi (12 km) 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.--61 years (1909-20, 1921-27, 1932-70, 1975-81), 95.0 ft^3/s (2.69 m^3/s), 68,800 acre-ft/yr (84.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,220 ft^3/s (204 m^3/s) Aug. 1, 1964, gage heights, 9.05 ft (2.758 m) from high-water mark, at site then in use, from slope-area measurement of peak flow; minimum observed, 1.2 ft^3/s (0.034 m^3/s) Apr. 8, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 372 ft^3/s (10.5 m^3/s) Sept. 10, gage height, 3.41 ft (1.039 m) from floodmarks, no peak above base of 900 ft^3/s (25.5 m^3/s); minimum, 12 ft^3/s (0.34 m^3/s) Jan. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	40	26	23	23	26	22	77	143	152	96	110
2	102	40	26	23	22	27	22	77	148	152	96	110
3	102	36	26	23	22	25	22	77	153	152	96	110
4	102	29	26	22	21	26	21	82	153	152	96	110
5	102	28	26	22	20	27	21	96	153	152	96	110
6	102	29	26	22	19	26	23	96	149	152	96	110
7	118	29	25	22	21	26	30	96	149	124	96	110
8	126	29	24	22	22	26	29	96	149	109	96	110
9	127	29	23	22	22	25	33	96	148	103	96	221
10	127	29	22	23	24	25	35	96	153	103	96	238
11	127	28	22	23	24	26	36	98	153	99	96	40
12	132	29	22	23	24	24	35	118	151	98	96	40
13	129	28	23	23	24	25	35	136	153	99	105	38
14	129	28	24	22	28	27	32	136	153	88	116	35
15	130	28	22	23	27	26	37	136	155	80	116	35
16	134	28	23	24	27	26	32	136	155	72	87	43
17	134	28	23	22	27	26	29	136	156	68	89	43
18	134	29	24	22	27	27	29	136	160	72	89	40
19	134	27	23	22	27	27	29	140	158	72	97	40
20	134	27	24	22	27	27	31	141	156	72	110	40
21	122	27	24	22	28	26	38	140	156	81	110	40
22	108	27	23	24	27	26	40	141	154	93	110	62
23	106	27	22	21	26	26	41	142	154	95	110	62
24	105	28	22	14	26	24	41	142	154	96	110	62
25	105	27	23	15	26	22	41	143	154	96	110	70
26	105	25	23	21	26	22	40	143	154	96	110	70
27	106	26	24	21	25	22	40	143	154	96	110	70
28	85	26	25	22	25	22	75	151	152	96	110	110
29	48	25	23	23	---	22	77	143	152	96	110	90
30	46	25	23	23	---	22	77	143	152	96	110	84
31	40	---	22	23	---	20	---	143	---	96	110	---
TOTAL	3403	861	734	679	687	774	1093	3776	4584	3208	3171	2453
MEAN	110	28.7	23.7	21.9	24.5	25.0	36.4	122	153	103	102	81.8
MAX	134	40	26	24	28	27	77	151	160	152	116	238
MIN	40	25	22	14	19	20	21	77	143	68	87	35
AC-FT	6750	1710	1460	1350	1360	1540	2170	7490	9090	6360	6290	4870

CAL YR 1980 TOTAL 42484.3 MEAN 116 MAX 820 MIN 6.8 AC-FT 84270
WTR YR 1981 TOTAL 25423.0 MEAN 69.7 MAX 238 MIN 14 AC-FT 50430

09324500 COTTONWOOD CREEK NEAR ORANGEVILLE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.
SEDIMENT DATA: October 1975 to current year, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 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)
OCT 15...	1130	130	385	8.5	8.5	8.0	200	8	--	43	22	12
NOV 25...	1300	27	380	8.6	2.0	2.5	200	0	--	40	24	12
JAN 15...	1100	26	410	8.4	4.5	.0	230	28	--	45	28	16
MAR 17...	1530	28	390	7.8	5.5	6.5	220	--	--	44	26	15
APR 14...	1600	31	400	7.9	26.0	14.0	210	--	24	43	26	17
MAY 14...	1550	130	360	7.8	21.5	13.0	200	--	14	42	24	12
JUN 17...	1700	153	340	8.4	25.0	15.0	200	--	27	41	23	11
JUL 16...	1200	66	360	8.1	23.0	11.5	200	--	18	43	22	12
AUG 06...	1530	97	355	8.0	35.0	17.0	200	--	15	42	22	11

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)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT 15...	12	.4	1.0	--	24	5.2	.2	4.7	228	.31	80.0
NOV 25...	12	.4	1.1	200	27	5.7	.2	3.5	234	.32	17.2
JAN 15...	13	.5	1.0	200	39	6.0	.2	3.8	259	.35	17.9
MAR 17...	13	.4	1.0	190	39	6.7	.2	3.0	250	.34	18.6
APR 14...	15	.5	1.2	190	38	7.4	.2	3.0	250	.34	21.1
MAY 14...	11	.4	.9	190	28	5.1	.0	2.8	229	.31	80.4
JUN 17...	11	.3	1.0	170	26	4.5	.1	3.1	212	.29	87.6
JUL 16...	12	.4	1.0	180	30	4.6	.1	3.9	225	.31	40.3
AUG 06...	11	.4	1.0	180	20	4.5	.5	3.7	213	.29	55.6

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT 15...	.20	.40	.010	.70
NOV 25...	--	.00	.030	--
JAN 15...	.01	.05	.020	--
MAR 17...	--	.29	.020	.70
APR 14...	--	.04	.010	.90
MAY 14...	--	.03	.040	.70
JUN 17...	--	.04	.010	.70
JUL 16...	--	.08	.030	.70
AUG 06...	--	.06	.000	--

09324500 COTTONWOOD CREEK NEAR ORANGEVILLE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
NOV 25...	1300	70
JAN 15...	1100	20
MAR 17...	1530	30
APR 14...	1600	10
MAY 14...	1550	20
JUN 17...	1700	20
JUL 16...	1200	10
AUG 06...	1530	10

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 15...	1130	130	8.0	108	38
MAR 17...	1530	28	6.5	11	.82
APR 14...	1600	31	14.0	63	5.3
JUN 17...	1700	153	15.0	39	16
JUL 16...	1200	66	11.5	81	14

09326500 FERRON CREEK (UPPER STATION) NEAR FERRON, UTAH

LOCATION.--Lat 39°06'15", long 111°12'47", in SW¼SE¼ sec.2, T.20 S., R.6 E., Emery County, Hydrologic Unit 14060009, on right bank 1.8 mi (2.9 km) upstream from Dry Wash and 4.5 mi (7.2 km) west of Ferron.

DRAINAGE AREA.--138 mi^2 (357 km^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 (3 km) downstream published as Ferron Creek near Ferron, Apr. 1909 to Oct. 1911, not equivalent because of diversions 1.5 mi (2.4 km) 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 (1,893 m) 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 (2.4 km) downstream at different datum.

REMARKS.--Records good except those for winter period, 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 (2.4 km) below station.

AVERAGE DISCHARGE.--46 years, 66.0 ft^3/s (1.869 m^3/s), 47,820 acre-ft/yr (59.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,180 ft^3/s (118 m^3/s) Aug. 27, 1952, gage height, 9.71 ft (2.960 m), site and datum then in use, from rating table extended above 400 ft^3/s (11.3 m^3/s) on basis of slope-area measurements at gage heights 8.70 ft (2.652 m) and 9.71 ft (2.960 m); site and datum then in use; no flow Oct. 19-21, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 348 ft^3/s (9.86 m^3/s) Aug. 15, gage height, 3.97 ft (1.210 m), may have been exceeded by floods during Sept., no peak above base of 600 ft^3/s (17.0 m^3/s); minimum daily, 7.00 ft^3/s (0.198 m^3/s) Jan. 4, 5, Feb. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	20	15	8.0	9.0	9.4	14	188	225	47	18	18
2	20	19	14	9.0	9.0	9.2	13	207	225	49	19	17
3	20	18	15	8.0	10	9.2	13	209	233	44	18	19
4	20	19	15	7.0	10	9.8	12	137	216	40	17	20
5	20	19	14	7.0	9.0	10	12	113	223	38	16	100
6	20	18	13	8.0	10	9.6	15	103	227	37	15	190
7	20	18	12	9.0	9.0	9.4	18	92	220	37	15	40
8	20	19	11	11	10	10	16	86	212	34	15	35
9	19	18	11	11	11	10	24	79	203	34	15	220
10	18	18	10	12	11	9.7	34	89	187	36	16	35
11	19	18	12	11	10	9.4	38	99	170	34	19	25
12	31	18	12	11	9.0	9.2	35	84	151	38	19	15
13	29	18	12	10	8.0	10	37	86	136	35	20	14
14	23	12	12	9.0	7.0	13	45	101	124	30	18	14
15	24	11	13	10	9.0	12	76	108	111	28	34	13
16	22	10	14	11	10	12	66	91	102	27	19	15
17	22	9.0	13	11	11	10	70	81	97	27	17	14
18	22	10	12	12	10	12	72	76	91	29	16	14
19	22	10	13	12	10	11	71	85	84	25	16	14
20	21	10	14	10	10	9.8	46	83	81	24	16	14
21	21	11	13	9.0	9.0	10	45	80	75	22	15	14
22	22	12	12	8.0	9.0	11	49	79	71	22	18	14
23	17	13	13	8.0	10	12	67	80	66	22	67	13
24	17	12	12	9.0	10	12	98	85	62	22	18	14
25	19	12	12	9.0	10	12	111	118	58	22	17	14
26	21	14	11	9.0	10	12	112	154	56	21	16	14
27	19	13	10	9.0	10	13	94	243	55	20	18	13
28	18	14	9.0	10	10	12	101	215	53	19	17	13
29	20	14	9.0	10	---	12	120	209	50	19	18	14
30	21	14	10	10	---	15	158	210	47	19	20	14
31	20	---	9.0	9.0	---	14	---	221	---	18	19	---
TOTAL	647	441.0	377.0	297.0	270.0	339.7	1682	3891	3911	919	601	983
MEAN	20.9	14.7	12.2	9.58	9.64	11.0	56.1	126	130	29.6	19.4	32.8
MAX	31	20	15	12	11	15	158	243	233	49	67	220
MIN	17	9.0	9.0	7.0	7.0	9.2	12	76	47	18	15	13
AC-FT	1280	875	748	589	536	674	3340	7720	7760	1820	1190	1950

CAL YR 1980	TOTAL	36649.0	MEAN	100	MAX 698	MIN 8.2	AC-FT	72690
WTR YR 1981	TOTAL	14358.7	MEAN	39.3	MAX 243	MIN 7.0	AC-FT	28480

09327550 FERRON CREEK BELOW PARADISE RANCH, NEAR CLAWSON, UTAH

LOCATION.--Lat 39°07'09", long 110°59'20", in SW¼SE¼ sec.35, T.19 S., R.8 E., Emery County, Hydrologic Unit 14060009, on left bank 5.5 mi (8.8 km) southeast of Clawson.

DRAINAGE AREA.--221 mi^2 (572 km^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 (1,707 m) from topographic map.

REMARKS.--Records good except those for winter period, which are poor.

AVERAGE DISCHARGE.--6 years, 39.5 ft^3/s (1.119 m^3/s), 28,620 acre-ft/yr (35.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,980 ft^3/s (56.1 m^3/s) June 20, 1980, gage height, 5.59 ft (1.704 m); no flow on many days.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 140 ft^3/s (3.96 m^3/s), and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Sept. 5	2100	*796	22.5	4.56	1.390
Sept. 9	0600	247	7.00	3.65	1.112

Minimum, 2.00 ft^3/s (0.057 m^3/s) Apr. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	17	11	8.6	10	8.5	5.5	3.4	7.2	12	7.1	11
2	15	17	10	8.7	11	12	5.9	3.5	7.8	13	7.0	10
3	15	16	11	8.5	10	12	6.1	3.4	6.6	10	6.6	10
4	15	16	12	8.6	11	11	5.6	3.4	4.1	8.6	5.3	10
5	15	16	12	8.6	10	10	5.5	3.7	4.0	7.2	4.5	42
6	16	16	11	8.4	11	11	5.8	3.7	3.8	6.6	5.0	53
7	16	15	10	8.6	10	12	5.7	3.2	4.2	5.7	7.4	14
8	16	13	9.0	9.0	11	11	5.6	3.9	4.7	4.9	8.4	23
9	15	14	10	9.6	12	10	5.9	4.5	3.7	4.1	7.8	123
10	15	14	10	9.0	11	10	5.8	4.7	4.3	9.0	5.8	43
11	16	13	11	10	11	10	4.0	4.3	4.1	15	10	21
12	18	14	10	10	9.5	10	3.6	3.2	3.8	15	11	13
13	19	14	10	9.0	10	11	3.2	2.8	4.0	19	9.4	13
14	18	12	11	8.0	11	17	3.2	3.2	5.7	18	24	12
15	29	11	11	10	9.4	13	4.0	3.8	6.3	12	15	11
16	20	10	10	9.0	9.6	8.6	3.9	3.9	5.1	10	14	10
17	19	10	10	12	10	7.5	3.7	4.5	5.9	9.7	13	9.4
18	20	11	9.8	11	9.6	6.6	4.1	4.9	6.8	10	11	9.1
19	20	12	10	13	8.6	6.5	4.6	3.4	7.2	9.1	11	8.5
20	20	12	10	17	9.3	6.7	4.1	3.7	5.4	8.2	10	8.3
21	20	10	10	16	9.0	6.2	4.0	6.1	4.9	7.5	13	7.8
22	18	12	9.1	15	8.5	5.6	3.7	4.9	6.4	7.2	17	7.3
23	16	11	9.8	15	9.0	6.1	3.2	4.1	6.8	7.8	14	5.6
24	15	13	10	14	8.7	6.2	3.7	4.5	7.7	7.6	12	5.6
25	16	10	11	12	8.2	5.8	3.4	5.4	7.9	6.6	12	5.6
26	17	11	10	11	9.6	6.1	2.9	5.2	7.7	6.6	10	5.8
27	18	10	9.6	10	8.9	6.5	3.1	7.1	8.6	5.6	10	6.0
28	16	10	9.2	12	8.2	6.5	3.0	6.3	11	4.6	9.6	6.2
29	16	11	9.0	11	---	6.0	2.6	7.3	19	3.6	9.6	6.2
30	16	12	8.8	11	---	6.9	2.7	6.8	12	5.3	11	6.4
31	16	---	8.6	10	---	5.9	---	7.1	---	6.4	13	---
TOTAL	537	383	313.9	333.6	275.1	272.2	128.1	139.9	196.7	275.9	324.5	516.8
MEAN	17.3	12.8	10.1	10.8	9.83	8.78	4.27	4.51	6.56	8.90	10.5	17.2
MAX	29	17	12	17	12	17	6.1	7.3	19	19	24	123
MIN	15	10	8.6	8.0	8.2	5.6	2.6	2.8	3.7	3.6	4.5	5.6
AC-FT	1070	760	623	662	546	540	254	277	390	547	644	1030

CAL YR 1980 TOTAL 39160.0 MEAN 107 MAX 1700 MIN 5.0 AC-FT 77670
WTR YR 1981 TOTAL 3696.7 MEAN 10.1 MAX 123 MIN 2.6 AC-FT 7330

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, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 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)
DEC												
03...	1600	12	2900	8.3	11.0	4.0	1200	900	--	230	150	310
JAN												
15...	1430	25	3180	8.4	8.0	.0	1300	950	--	220	180	310
MAR												
17...	1330	7.7	3910	8.4	4.5	5.5	1500	--	--	250	220	520
APR												
14...	1330	4.0	3950	8.0	21.0	15.5	1500	--	1200	240	220	460
MAY												
14...	1230	2.8	4280	8.1	22.0	14.0	1500	--	1200	240	230	570
JUN												
17...	1400	6.4	2970	8.2	27.0	20.0	1200	--	880	200	160	300
JUL												
16...	1630	12	2890	8.1	23.0	26.0	1000	--	730	170	150	340
AUG												
06...	1300	5.3	3370	8.2	36.0	23.0	1300	--	1100	200	200	370
SEP												
16...	1130	11	2770	8.3	27.5	17.0	1100	--	830	190	150	260

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)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
DEC											
03...	36	3.9	10	290	1400	42	.4	9.5	2330	3.2	76.1
JAN											
15...	34	3.8	6.3	340	1500	42	.5	11	2480	3.4	166
MAR											
17...	42	5.8	8.1	360	2100	85	.4	10	3410	4.6	71.0
APR											
14...	40	5.2	8.0	330	2000	56	.4	7.1	3190	4.3	34.2
MAY											
14...	44	6.3	9.1	360	2200	70	.3	7.2	3540	4.8	27.0
JUN											
17...	36	3.8	5.9	280	1400	42	.5	4.4	2280	3.1	39.5
JUL											
16...	41	4.6	8.4	310	1300	42	.5	13	2210	3.0	71.0
AUG											
06...	38	4.4	9.0	250	1600	47	.5	4.0	2580	3.5	37.0
SEP											
16...	34	3.4	6.2	260	1200	52	.5	8.1	2020	2.8	61.1

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
DEC				
03...	--	1.1	.030	--
JAN				
15...	1.4	1.4	.010	--
MAR				
17...	--	.34	.030	6.0
APR				
14...	--	.05	.020	6.0
MAY				
14...	--	.05	.050	6.8
JUN				
17...	--	.07	.020	4.4
JUL				
16...	--	.11	.040	6.3
AUG				
06...	--	.04	.000	--
SEP				
16...	--	.18	.020	--

09327550 FERRON CREEK BELOW PARADISE RANCH, NEAR CLAWSON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
DEC 03...	1600	250
JAN 15...	1430	250
MAR 17...	1330	300
APR 14...	1330	310
MAY 14...	1230	390
JUN 17...	1400	300
JUL 16...	1630	350
AUG 06...	1300	370
SEP 16...	1130	300

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
MAR 17...	1330	7.7	5.5	48	1.0
APR 14...	1330	4.0	15.5	42	.45
JUL 16...	1630	12	26.0	486	16
SEP 16...	1130	11	17.0	48	1.5

09328000 SAN RAFAEL RIVER NEAR CASTLE DALE, UTAH

LOCATION.--Lat 39°08'37", long 110°53'50", in SE¼NW¼ sec.27, T.19 S., R.9 E., Emery County, Hydrologic Unit 14060009, on left bank 1.7 mi (2.7 km) downstream from Ferron Creek and 8.3 mi (13.4 km) southeast of Castle Dale.

DRAINAGE AREA.--930 mi^2 (2,410 km^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 (1,620 m) from topographic map. Prior to July 11, 1956, at site 0.7 mi (1.1 km) upstream at different datum. July 11, 1956 to September 30, 1964, at site 0.6 mi (1.0 km) 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.--26 years (1947-64, 1972-81) 104 ft^3/s (2.94 m^3/s), 75,300 acre-ft/yr (92.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,510 ft^3/s (128 m^3/s) June 1952, gage height, 7.56 ft (2.304 m), site and datum then in use; no flow several days in 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 618 ft^3/s (17.5 m^3/s) Sept. 6, gage height, 4.95 ft (1.509 m), no peak above base of 1,000 ft^3/s (28.3 m^3/s); minimum, 3.8 ft^3/s (0.108 m^3/s) Aug. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	87	63	67	37	31	30	17	39	36	11	29
2	61	87	62	68	40	38	29	18	52	46	10	23
3	65	87	63	63	36	64	31	18	69	46	9.3	21
4	63	84	64	56	44	47	35	23	52	37	7.1	18
5	55	81	61	47	40	41	32	26	42	34	5.6	104
6	58	79	57	41	46	40	33	28	37	31	4.4	200
7	65	79	55	44	44	50	38	28	35	25	6.0	68
8	70	78	48	45	44	40	40	29	32	24	9.9	96
9	66	72	52	47	48	37	36	30	33	18	11	274
10	69	78	56	51	46	34	32	27	31	20	8.2	133
11	71	74	69	48	48	36	32	25	27	53	13	160
12	89	75	59	48	39	40	30	24	25	74	21	153
13	119	76	65	46	44	45	28	23	20	78	16	68
14	106	74	59	47	52	105	24	24	21	64	30	54
15	174	69	62	45	42	95	26	21	29	45	63	50
16	147	64	63	48	44	53	28	25	37	32	60	42
17	139	64	65	46	42	47	24	25	35	30	35	38
18	127	62	64	41	42	39	20	24	34	28	28	32
19	129	73	58	51	42	41	21	24	37	28	26	31
20	132	74	58	54	41	42	24	26	35	22	25	30
21	135	67	57	45	35	41	21	46	32	24	35	30
22	128	69	56	45	33	36	22	44	36	17	103	29
23	118	67	55	45	39	36	19	36	32	13	54	24
24	116	71	52	37	35	38	17	33	26	15	41	24
25	109	58	60	34	32	32	17	33	30	18	37	32
26	111	64	58	33	36	30	17	33	30	17	32	29
27	115	58	56	32	35	28	16	53	33	14	25	28
28	112	61	56	44	33	32	17	54	35	13	24	26
29	97	63	53	42	---	30	20	58	47	10	23	25
30	88	63	53	42	---	32	17	54	45	9.4	22	30
31	87	---	57	36	---	34	---	46	---	11	28	---
TOTAL	3083	2158	1816	1438	1139	1334	776	975	1068	932.4	823.5	1901
MEAN	99.5	71.9	58.6	46.4	40.7	43.0	25.9	31.5	35.6	30.1	26.6	63.4
MAX	174	87	69	68	52	105	40	58	69	78	103	274
MIN	55	58	48	32	32	28	16	17	20	9.4	4.4	18
AC-FT	6120	4280	3600	2850	2260	2650	1540	1930	2120	1850	1630	3770

CAL YR 1980 TOTAL 69831.0 MEAN 191 MAX 1900 MIN 24 AC-FT 138500
WTR YR 1981 TOTAL 17443.9 MEAN 47.8 MAX 274 MIN 4.4 AC-FT 34600

09328100 SAN RAFAEL RIVER AT SAN RAFAEL BRIDGE CAMPGROUND, NEAR CASTLE DALE, UTAH

LOCATION.--Lat 39°04'51", long 110°39'56", in NE¼SE¼ sec.15, T.20 S., R.11 E., Emery County, Hydrologic Unit 14060009, on left bank 80 ft (24.4 m) downstream from San Rafael River Bridge, 21 mi (34 km) southeast of Castle Dale, 52 mi (84 km) northwest of Green River.

DRAINAGE AREA.--1,284 mi^2 (3,326 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,100 ft (1,554 m) from topographic map.

REMARKS.--Records good except those of no gage-height record, Dec. 8 to Jan. 31, which are poor.

AVERAGE DISCHARGE.--6 years, 76.8 ft^3/s (2.175 m^3/s), 55,640 acre-ft/yr (68.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,630 ft^3/s (131 m^3/s) Sept. 10, 1980, gage height, 11.08 ft (3.377 m) 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 (14.2 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
July 14	unknown	1,190	33.7	7.10	2.164
Aug. 15	2200	2,060	58.3	7.72	2.353
Aug. 30	2400	705	20.0	5.59	1.704
Sept. 6	0500	*2,550	72.2	8.38	2.554
Sept. 9	2230	1,020	28.9	6.19	1.887

Minimum discharge, 3.2 ft^3/s (0.091 m^3/s) Aug. 7 and 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	71	57	58	32	37	31	17	48	32	7.1	90
2	59	71	59	64	34	38	28	18	52	29	14	45
3	61	71	64	62	38	69	28	19	78	33	8.2	35
4	64	70	60	52	36	71	31	21	74	33	5.9	32
5	56	66	64	42	38	58	33	22	59	26	4.7	69
6	55	66	59	38	40	54	28	25	50	25	4.2	599
7	62	66	54	42	40	58	33	25	44	22	3.5	100
8	69	66	45	44	42	60	37	26	39	19	3.4	95
9	68	60	49	45	69	51	39	27	39	20	4.6	377
10	66	62	52	48	58	45	31	28	41	19	5.4	264
11	67	64	58	45	35	43	29	24	34	20	5.4	170
12	81	60	54	45	38	48	28	23	31	55	9.0	164
13	128	64	60	44	42	51	28	22	27	76	11	89
14	115	66	58	38	58	105	26	21	18	80	15	92
15	276	62	58	44	66	108	24	23	22	52	216	56
16	261	57	60	45	55	72	28	22	30	44	186	55
17	135	51	62	44	57	60	26	26	33	37	63	45
18	114	48	60	40	54	53	23	24	30	87	47	40
19	110	48	56	43	52	47	22	24	33	66	39	37
20	110	64	56	42	52	47	23	23	35	26	39	36
21	114	60	54	43	45	45	23	34	29	21	61	38
22	110	66	54	42	42	43	21	50	29	21	59	35
23	101	70	52	39	43	37	20	42	34	15	67	32
24	95	67	50	34	42	37	18	37	25	13	45	30
25	95	59	56	31	38	37	17	34	26	14	39	32
26	93	55	56	27	39	31	16	33	30	17	36	34
27	99	50	54	24	42	28	16	40	43	13	32	32
28	95	51	54	38	39	30	16	66	40	11	42	31
29	89	61	52	38	---	31	18	61	91	9.6	34	30
30	73	58	52	38	---	29	18	68	44	8.4	40	30
31	71	---	52	35	---	34	---	70	---	7.4	164	---
TOTAL	3049	1850	1731	1314	1266	1557	759	995	1208	951.4	1310.4	2814
MEAN	98.4	61.7	55.8	42.4	45.2	50.2	25.3	32.1	40.3	30.7	42.3	93.8
MAX	276	71	64	64	69	108	39	70	91	87	216	599
MIN	55	48	45	24	32	28	16	17	18	7.4	3.4	30
AC-FT	6050	3670	3430	2610	2510	3090	1510	1970	2400	1890	2600	5580

CAL YR 1980	TOTAL	75319.0	MEAN	206	MAX	2080	MIN 30	AC-FT	149400
WTR YR 1981	TOTAL	18804.8	MEAN	51.5	MAX	599	MIN 3.4	AC-FT	37300

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, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 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)
OCT 14...	1200	118	3770	8.3	14.5	11.0	1300	970	--	230	170	490
NOV 24...	1230	65	3340	8.3	4.5	1.0	1200	930	--	230	150	360
JAN 12...	1200	47	3370	8.3	7.5	.5	1100	900	--	190	150	360
MAR 16...	1300	68	5510	8.5	12.5	8.0	1800	--	--	270	270	870
APR 13...	1300	29	3870	8.3	22.0	16.5	1400	--	1100	230	190	500
MAY 13...	1230	22	4600	8.1	16.0	15.0	1500	--	1300	260	210	620
JUN 16...	1300	31	3520	8.2	23.5	18.0	1300	--	1000	220	170	410
JUL 15...	1430	57	2880	8.2	30.0	23.5	1100	--	830	220	130	320
AUG 05...	1315	4.7	4250	8.2	35.0	24.0	1500	--	1300	270	210	500
SEP 16...	0900	51	3250	8.3	20.0	16.0	1200	--	1000	240	150	350

DATE	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)	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)
OCT 14...	45	6.0	12	300	--	1900	57	.5	6.9	3050	4.2	972
NOV 24...	39	4.5	9.5	--	260	1400	45	.3	8.1	2360	3.2	414
JAN 12...	42	4.7	5.8	--	190	1600	42	.4	8.7	2470	3.4	311
MAR 16...	51	9.0	11	--	300	2900	150	.4	7.9	4660	6.3	849
APR 13...	44	5.9	7.2	--	240	2000	49	.3	4.7	3130	4.3	248
MAY 13...	47	6.9	9.7	--	260	2600	62	.2	4.4	3920	5.3	236
JUN 16...	41	5.0	8.0	--	230	1800	49	.3	5.0	2800	3.8	237
JUL 15...	39	4.2	9.6	--	250	1400	44	.4	11	2290	3.1	351
AUG 05...	41	5.5	11	--	210	2300	51	.5	6.6	3480	4.7	43.8
SEP 16...	38	4.4	9.2	--	190	1600	64	.4	10	2540	3.5	350

DATE	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)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT 14...	--	.20	.43	.010	9.0
NOV 24...	--	--	.81	.030	--
JAN 12...	--	.73	.75	.030	--
MAR 16...	--	--	.85	.040	8.2
APR 13...	--	--	.26	.020	5.4
MAY 13...	--	--	.03	.040	7.2
JUN 16...	--	--	.11	.020	6.0
JUL 15...	--	--	.21	.030	7.2
AUG 05...	14.0	--	.11	.000	--
SEP 16...	--	--	.21	.010	--

09328100 SAN RAFAEL RIVER AT SAN RAFAEL BRIDGE CAMPGROUND, NEAR CASTLE DALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	BORON, DISSOLVED (UG/L AS B)
OCT 14...	1200	290
NOV 24...	1230	250
MAR 16...	1300	340
APR 13...	1300	350
MAY 13...	1230	400
JUN 16...	1300	340
JUL 15...	1430	340
AUG 05...	1315	420
SEP 16...	0900	330

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
OCT 14...	1200	118	11.0	861	274	46	51	62	73	91	99	100
MAR 16...	1300	68	8.0	869	158	30	39	46	53	84	100	--
APR 13...	1300	29	16.5	32	2.5	--	--	--	--	--	--	--
JUN 16...	1300	31	18.0	558	47	--	--	--	--	--	--	--
JUL 15...	1430	57	23.5	2060	315	40	54	78	93	98	100	--
SEP 16...	0900	51	16.0	914	126	43	56	84	96	99	100	--

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UTAH

LOCATION.--Lat 38°51'30", long 110°22'10", in SE¼SE¼NW¼ sec.34, T.22 S., R.14 E., Emery County, Hydrologic Unit 14060009, on left bank 300 ft (91 m) upstream from bridge on State Highway 24, 14.0 mi (22.5 km) southwest of Green River, and 34.3 mi (55.2 km) upstream from mouth.

DRAINAGE AREA.--1,628 mi^2 (4,217 km^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 (1,277 m) 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 (2 km) upstream.

REMARKS--Records good except those for winter period and no gage-height record, Aug. 17 to Sept. 30, which are poor. Diversions above station for irrigation of about 42,000 acres (170 km^2). 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.--45 years (1909-18, 1945-81), 145 ft^3/s (4.11 m^3/s), 105,100 acre-ft/yr (130 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,000 ft^3/s (340 m^3/s) Sept. 2, 1909, gage height, 12.7 ft (3.87 m) site and datum then in use, from rating curve extended above 3,100 ft^3/s (87.8 m^3/s); no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 900 ft^3/s (25.5 m^3/s) Sept. 7, no peak above base of 1,300 ft^3/s (36.8 m^3/s); minimum, 4.1 ft^3/s (0.116 m^3/s) Aug. 8, 13, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	107	63	50	33	57	35	14	47	34	6.6	190
2	48	105	62	61	41	57	34	17	37	27	6.1	100
3	37	104	65	61	39	62	35	38	33	22	6.0	45
4	39	104	66	52	46	75	37	21	40	20	8.4	40
5	36	100	62	46	49	88	35	16	44	22	8.8	35
6	47	95	56	40	50	59	38	16	36	19	8.3	90
7	52	93	52	42	52	56	41	17	31	16	8.2	900
8	64	90	47	44	54	57	43	20	27	15	6.8	150
9	74	90	52	46	60	59	40	20	24	12	4.4	110
10	74	86	48	47	80	50	39	20	22	74	4.2	400
11	71	85	52	45	70	45	35	21	21	55	4.2	270
12	72	88	56	49	50	44	30	21	20	24	4.2	220
13	87	84	58	45	56	46	29	18	16	178	4.2	210
14	157	77	52	43	50	55	28	17	15	107	7.5	120
15	148	79	56	45	64	147	28	17	14	61	14	130
16	459	76	58	46	90	100	34	17	13	44	218	110
17	315	70	60	44	56	54	26	18	15	32	100	100
18	238	66	56	40	50	47	29	16	21	86	70	105
19	193	66	54	46	48	45	26	17	21	119	50	100
20	179	63	52	49	45	46	25	16	19	62	45	100
21	177	73	48	44	43	45	23	17	21	30	45	105
22	159	76	48	43	41	43	23	18	21	23	70	80
23	157	74	46	42	37	41	23	27	17	23	200	60
24	150	83	46	36	36	43	24	28	19	18	80	54
25	142	76	44	33	44	40	21	25	21	15	35	50
26	139	70	46	32	52	35	18	23	14	11	25	54
27	135	66	52	31	54	34	17	22	14	11	24	56
28	139	63	48	40	57	36	17	32	25	13	30	52
29	133	62	47	32	---	34	17	45	26	10	35	45
30	126	68	47	32	---	36	14	41	36	10	30	40
31	109	---	48	31	---	37	---	44	---	9.0	45	---
TOTAL	3996	2439	1647	1337	1447	1673	864	699	730	1202.0	1203.9	4121
MEAN	129	81.3	53.1	43.1	51.7	54.0	28.8	22.5	24.3	38.8	38.8	137
MAX	459	107	66	61	90	147	43	45	47	178	218	900
MIN	36	62	44	31	33	34	14	14	13	9.0	4.2	35
AC-FT	7930	4840	3270	2650	2870	3320	1710	1390	1450	2380	2390	8170

CAL YR 1980	TOTAL	78387.0	MEAN	214	MAX	2500	MIN 30	AC-FT	155500
WTR YR 1981	TOTAL	21358.9	MEAN	58.5	MAX	900	MIN 4.2	AC-FT	42370

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, bi-weekly (discontinued).
WATER TEMPERATURES: July to September 1949, October 1950 to September 1962, October 1964 to September 1978, daily.
SUSPENDED-SEDIMENT DISCHARGE: March 1948 to September 1949, October 1950 to September 1959, daily, October 1975 to current year, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT												
24...	1315	148	2620	8.1	13.0	6.0	9.4	1000	750	--	190	130
NOV												
19...	1515	80	3360	8.2	10.0	.5	12.4	1300	1000	--	250	170
DEC												
17...	1430	40	3410	8.1	10.0	1.0	11.6	1300	990	--	240	170
JAN												
28...	1530	46	3320	8.1	11.0	3.0	12.0	1200	980	--	230	160
FEB												
25...	1500	44	3610	8.2	19.0	8.0	9.9	1300	1000	--	240	170
MAR												
25...	1400	40	4040	8.2	18.0	14.0	8.7	1400	--	1100	240	190
APR												
29...	1500	18	4820	8.0	30.5	24.0	7.6	1700	--	1400	300	220
MAY												
29...	1230	40	4050	8.0	23.0	18.5	7.8	1400	--	1100	250	180
JUN												
24...	1500	16	3370	8.0	39.0	31.0	7.0	1200	--	950	200	160
JUL												
29...	1330	12	4150	7.9	35.5	28.0	7.3	1700	--	1400	310	220
AUG												
26...	1530	24	3720	8.0	37.0	27.0	6.4	1300	--	1100	330	120
SEP												
21...	1410	98	3450	8.0	30.5	20.0	6.3	1300	--	1100	270	160

DATE	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)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT												
24...	310	40	4.2	8.1	260	1300	43	.3	6.6	2150	2.9	859
NOV												
19...	400	39	4.8	10	300	1600	57	.1	7.0	2680	3.6	579
DEC												
17...	420	41	5.1	8.0	310	1700	53	.3	8.6	2790	3.8	301
JAN												
28...	390	41	4.8	7.4	250	1600	54	.2	8.0	2600	3.5	323
FEB												
25...	440	42	5.3	7.9	270	1800	62	.2	7.0	2890	3.9	339
MAR												
25...	510	44	6.0	8.0	260	2100	86	.3	6.5	3300	4.5	354
APR												
29...	560	42	6.0	12	260	2500	100	.3	6.0	3860	5.3	186
MAY												
29...	470	43	5.5	11	240	1900	63	.3	5.4	3020	4.1	326
JUN												
24...	410	43	5.2	10	210	1600	69	.3	6.2	2580	3.5	111
JUL												
29...	460	37	4.9	13	240	2300	90	.3	12	3550	4.8	115
AUG												
26...	460	43	5.5	13	170	1900	81	.6	8.6	3020	4.1	197
SEP												
21...	390	39	4.6	12	220	1800	85	.5	9.8	2860	3.9	760

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, 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, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT 24...	.030	.04	1.1	1.10	1.3	.23	.24	5.9	.220	.67	--
NOV 19...	.000	.00	.73	.73	1.3	.57	.55	5.8	.020	.06	--
DEC 17...	.040	.05	.54	.58	1.3	.75	.73	5.9	.100	.31	--
JAN 28...	.100	.12	.33	.43	1.2	.78	.79	5.4	.050	.15	5.5
FEB 25...	.050	--	.67	.72	1.3	.59	.60	5.8	.090	.28	5.9
MAR 25...	.060	--	.73	.79	1.0	.25	.26	4.6	.050	.15	6.0
APR 29...	.370	--	1.1	1.50	1.8	.29	.30	7.9	.070	.21	9.0
MAY 29...	.100	--	1.2	1.30	1.3	.04	.02	5.9	2.10	6.4	8.2
JUN 24...	.080	--	.78	.86	.88	.02	.06	3.9	.030	.09	7.5
JUL 29...	.170	--	.62	.79	.90	.11	.12	4.0	.030	.09	--
AUG 26...	.140	--	7.0	7.10	8.0	.87	.87	35	3.20	9.8	--
SEP 21...	.080	--	.51	.59	.69	.10	.11	3.1	<.010	--	--

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)
OCT 24...	1315	280	4	0	0	0	10	3400

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)
OCT 24...	12	200	130	.2	4	12	3	40

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT 24...	1315	180
NOV 19...	1515	290
DEC 17...	1430	290
FEB 25...	1500	250
MAR 25...	1400	310
APR 29...	1500	440
MAY 29...	1230	360
JUN 24...	1500	360
JUL 29...	1330	370
AUG 26...	1530	310
SEP 21...	1410	360

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
OCT 24...	1315	7.2	.8
MAR 25...	1400	12	.1
JUN 24...	1500	12	2.0
SEP 21...	1410	7.8	<40

DATE	TIME	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)
OCT 24...	1315	15.7	14.7	.510	.030	1960

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 24...	1315	148	6.0	418	167
NOV 19...	1515	80	.5	577	125
DEC 17...	1430	40	1.0	556	60
JAN 28...	1530	46	3.0	74	9.2
FEB 25...	1500	44	8.0	59	6.9
MAR 25...	1400	40	14.0	478	51
APR 29...	1500	18	24.0	687	33
MAY 29...	1230	40	18.5	2450	265
JUN 24...	1500	16	31.0	446	19
JUL 29...	1330	12	28.0	660	21
AUG 26...	1530	24	27.0	4500	294
SEP 21...	1410	98	20.0	6770	1800

09329050 SEVEN MILE CREEK NEAR FISH LAKE, UTAH

LOCATION.--Lat 38°37'40", long 111°38'50", in SE¼SW¼SW¼ sec.13, T.25 S., R.2 E., Sevier County, Hydrologic Unit 14070003, on left bank 0.4 mi (0.6 km) upstream from bridge on State Highway 25, about 0.7 mi (1.1 km) upstream from Johnson Valley Reservoir, and 3.5 mi (5.6 km) northeast of north end of Fish Lake.

DRAINAGE AREA.--24.0 mi^2 (62.2 km^2).

PERIOD OF RECORD.--October 1964 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 9,200 ft (2,804 m) from topographic map.

REMARKS.--Records good except those for winter period, which are poor.

AVERAGE DISCHARGE.--17 years, 14.1 ft^3/s (0.399 m^3/s), 10,220 acre-ft/yr (12.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 225 ft^3/s (6.37 m^3/s) May 29, 1979, gage height, 3.30 ft (1.006 m); minimum, 1.9 ft^3/s (0.054 m^3/s) Nov. 16, 17, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 80 ft^3/s (2.27 m^3/s), 170 ft^3/s (4.81 m^3/s) Apr. 30, gage height 2.95 ft (0.899 m); minimum, 3.9 ft^3/s (0.11 m^3/s) Oct. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	11	8.6	7.8	6.7	7.1	7.7	81	22	8.5	6.4	6.6
2	10	10	8.3	7.6	6.8	7.2	7.8	76	21	8.2	6.4	6.5
3	10	10	8.3	7.6	6.9	7.3	7.8	70	24	7.9	6.3	6.3
4	10	13	8.6	7.6	6.9	7.2	7.9	33	18	7.4	6.3	6.2
5	10	13	8.6	7.6	7.0	7.3	8.0	29	16	7.3	6.0	6.6
6	10	10	8.6	7.6	7.1	7.4	8.2	26	15	7.3	5.5	9.0
7	10	9.7	8.3	7.6	7.1	7.5	8.3	20	14	7.3	6.0	7.7
8	10	9.2	8.0	7.6	7.1	7.5	8.3	18	13	7.1	6.0	7.7
9	11	9.2	8.0	7.6	7.2	7.4	8.5	17	13	7.3	6.0	9.2
10	9.7	9.2	8.0	7.6	7.0	7.5	8.9	23	14	7.7	6.3	8.4
11	9.4	8.6	8.0	7.3	7.3	7.5	10	26	13	7.4	6.8	6.9
12	14	8.9	8.3	7.3	7.3	7.5	10	22	12	7.6	6.8	7.0
13	12	9.2	8.0	7.3	7.3	7.5	11	21	11	8.0	6.7	7.7
14	12	9.2	8.0	7.3	7.3	7.4	12	28	11	7.1	6.9	7.5
15	10	9.1	8.0	7.3	7.3	7.5	13	24	11	7.0	7.9	7.6
16	10	9.0	8.0	7.3	7.3	7.6	34	23	11	6.8	8.3	6.5
17	11	9.0	8.0	7.1	7.4	7.5	43	20	10	7.1	7.0	6.5
18	11	9.0	8.0	7.1	7.5	7.5	42	19	9.9	9.5	6.6	6.4
19	10	9.1	8.0	7.1	7.5	7.5	39	19	9.9	7.3	6.6	6.2
20	10	9.2	7.8	7.1	7.0	7.5	26	16	9.5	6.9	6.6	6.5
21	10	9.1	8.0	7.3	7.1	7.5	28	20	9.1	6.8	6.7	6.5
22	9.7	9.2	7.8	7.1	7.3	7.5	34	35	8.8	6.7	6.6	6.5
23	9.7	9.1	8.0	7.0	7.3	7.5	53	28	8.8	6.7	6.9	6.3
24	14	9.1	8.0	7.0	7.3	7.6	68	25	8.7	7.1	7.0	6.3
25	13	9.1	7.8	7.1	7.2	7.6	81	24	8.7	6.6	6.3	6.4
26	9.2	9.0	7.8	6.9	7.2	7.6	72	22	8.5	6.6	6.8	6.2
27	9.2	8.9	8.0	6.9	7.2	7.6	64	24	8.7	6.5	6.9	6.2
28	14	8.9	7.8	6.9	7.2	7.7	67	26	9.1	6.4	7.0	6.2
29	16	8.6	7.8	6.9	---	7.7	79	24	8.5	6.5	7.6	6.2
30	13	8.6	7.3	6.9	---	7.8	92	24	8.4	6.5	7.0	6.2
31	12	---	7.8	6.7	---	7.8	---	26	---	6.3	6.7	---
TOTAL	339.9	284.2	249.5	225.1	200.8	232.3	959.4	889	365.6	223.4	206.9	206.0
MEAN	11.0	9.47	8.05	7.26	7.17	7.49	32.0	28.7	12.2	7.21	6.67	6.87
MAX	16	13	8.6	7.8	7.5	7.8	92	81	24	9.5	8.3	9.2
MIN	9.2	8.6	7.3	6.7	6.7	7.1	7.7	16	8.4	6.3	5.5	6.2
AC-FT	674	564	495	446	398	461	1900	1760	725	443	410	409

CAL YR 1980 TOTAL 6193.6 MEAN 16.9 MAX 128 MIN 6.9 AC-FT 12280
WTR YR 1981 TOTAL 4382.1 MEAN 12.0 MAX 92 MIN 5.5 AC-FT 8690

09330000 FREMONT RIVER NEAR BICKNELL, UTAH

LOCATION.--Lat 38°18'25", long 111°31'03", in SW¼NE¼NW¼ 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 (4.7 km) southeast of Bicknell along Highway U-24.

DRAINAGE AREA.--751 mi^2 (1,945 km^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 (2,109 m) from topographic map. May 1909 to Dec. 1912, staff gage near present site at different datum. Oct. 1937 to June 28, 1949, staff gages on two canals and river station about 0.25 mi (0.65 km) 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 (183 m) further downstream from water-stage recorder at datum 1.67 ft (0.509 m) lower.

REMARKS.--Records good except those of no gage-height record, Jan. 30 to Mar. 9, and July 10 to Sept. 21, which are poor. Diversions for irrigation of about 10,600 acres (429 km^2) above station. Flow regulated by Fish Lake and Johnson and Forsythe Reservoirs.

AVERAGE DISCHARGE.--26 years (1909-12, 1937-43, 1946-58, 1976-81), 86.2 ft^3/s (2.44 m^3/s), 62,450 acre-ft/yr (77.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,200 ft^3/s (34.0 m^3/s) Apr. 5, 1942, gage height, 5.8 ft (1.77 m), site and datum in use (from floodmarks), from rating curve extended above 700 ft^3/s (19.8 m^3/s); minimum observed, 18 ft^3/s (5.10 m^3/s) June 2, 4, 13-15, 17, 18, 1912.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 282 ft^3/s (7.99 m^3/s) July 9, gage height, 2.30 ft (0.701 m) from high-water mark; minimum daily, 46 ft^3/s (1.30 m^3/s) June 14, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	80	82	80	84	84	87	87	53	56	54	57
2	64	75	81	82	82	83	86	84	53	60	54	57
3	64	75	89	80	82	83	86	66	53	65	55	57
4	64	76	88	84	82	84	87	63	50	66	55	57
5	63	76	77	79	80	84	87	63	47	67	56	62
6	63	78	77	72	80	84	87	60	49	71	55	86
7	63	76	76	74	79	83	87	56	49	70	56	64
8	63	73	79	77	78	84	86	63	47	64	56	55
9	64	71	69	78	84	84	86	56	48	81	56	53
10	64	72	72	77	83	84	86	57	48	70	56	98
11	64	73	76	76	81	85	87	56	48	58	56	68
12	67	74	80	81	80	84	87	56	49	95	60	65
13	72	76	82	85	79	84	87	51	48	90	69	64
14	72	71	77	80	80	91	86	50	46	70	60	62
15	73	72	84	83	82	92	86	52	49	60	57	62
16	71	73	86	84	82	87	86	55	50	52	57	62
17	70	75	88	85	81	82	86	52	49	89	57	62
18	69	77	89	82	80	82	87	49	47	74	56	61
19	68	78	86	82	81	89	87	55	48	64	54	60
20	69	83	84	87	82	86	86	62	48	52	53	59
21	69	83	85	83	84	81	86	60	47	52	53	58
22	69	87	86	81	84	87	86	55	47	52	54	58
23	67	87	84	79	83	87	86	55	46	53	56	56
24	67	86	79	83	83	87	86	54	48	56	58	60
25	69	77	85	78	83	87	87	70	50	55	60	58
26	74	86	85	73	84	87	86	53	51	54	58	56
27	75	82	82	74	84	86	86	50	54	54	57	58
28	73	85	85	84	85	87	89	63	65	53	57	58
29	74	86	81	83	---	87	88	60	66	53	57	58
30	75	89	76	84	---	87	92	54	59	53	57	56
31	78	---	78	88	---	87	---	53	---	53	57	---
TOTAL	2121	2352	2528	2498	2292	2649	2602	1820	1512	1962	1756	1847
MEAN	68.4	78.4	81.5	80.6	81.9	85.5	86.7	58.7	50.4	63.3	56.6	61.6
MAX	78	89	89	88	85	92	92	87	66	95	69	98
MIN	63	71	69	72	78	81	86	49	46	52	53	53
AC-FT	4210	4670	5010	4950	4550	5250	5160	3610	3000	3890	3480	3660

CAL YR 1980 TOTAL 23476 MEAN 64.1 MAX 245 MIN 41 AC-FT 46560
WTR YR 1981 TOTAL 25939 MEAN 71.1 MAX 98 MIN 46 AC-FT 51450

09330230 FREMONT RIVER NEAR CAINEVILLE, UTAH

LOCATION.--Lat 38°16'40", long 111°04'00", in NE¼NE¼NE¼ sec.20, T.29 S., R.8 E., Wayne County, Hydrologic Unit 14070003, on right bank 2.0 mi (3.2 km) downstream from Pleasant Creek, 4.5 mi (7.2 km) southwest of Caineville, and 9.8 mi (15.8 km) east of Fruita, Utah.

DRAINAGE AREA.--1,208 mi^2 (3,129 km^2).

PERIOD OF RECORD.--March 1967 to current year.

GAGE.--Water-stage recorder and bubble gage. Altitude of gage is 4,750 ft (1,448 m) from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--14 years, 67.2 ft^3/s (1,903 m^3/s), 48,690 acre-ft/yr (60.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,000 ft^3/s (113 m^3/s) Sept. 5, 1981, gage height, 6.90 ft (2.103 m), on basis of slope-area measurement of peak flow; minimum observed, 10 ft^3/s (0.283 m^3/s) June 9, 1981.

EXTREMES FOR CURRENT YEAR.--Peak above base of 500 ft^3/s (14.2 m^3/s); and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
July 12	1700	1,390	39.4	4.31	1.31
July 17	1830	1,080	30.6	3.86	1.18
Sept. 5	2100	*4,000	113	6.90	2.10
Sept 9	1730	3,150	89.2	6.18	1.88

Minimum observed discharge, 10 ft^3/s (0.283 m^3/s) June 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	71	78	93	69	82	69	48	29	37	31	46
2	48	69	74	95	80	86	65	49	29	34	31	41
3	49	67	80	92	84	84	65	44	29	31	31	41
4	50	67	82	95	84	84	65	35	25	27	34	36
5	50	67	84	95	82	82	64	32	23	26	38	240
6	46	65	82	86	84	84	64	30	20	34	32	215
7	49	65	78	85	84	86	62	29	17	34	39	74
8	49	65	76	84	82	84	65	27	15	29	38	120
9	49	60	76	84	92	82	64	31	12	35	36	338
10	49	60	76	76	88	80	61	27	14	79	51	167
11	47	62	76	80	86	80	58	28	14	29	49	110
12	52	62	78	80	82	80	57	26	12	96	72	74
13	60	64	80	84	90	80	56	26	12	79	51	68
14	59	62	86	80	93	82	55	25	15	65	74	61
15	62	59	86	83	90	84	55	26	14	46	32	58
16	64	67	86	84	88	84	54	30	17	38	27	55
17	59	70	86	84	88	80	54	36	16	72	25	52
18	62	71	88	82	88	76	53	29	16	96	25	44
19	60	73	86	82	86	80	52	28	16	42	28	46
20	58	73	86	86	86	80	51	29	17	35	29	44
21	54	75	86	86	78	76	50	35	18	32	41	41
22	56	85	88	82	80	76	50	30	18	29	35	42
23	54	82	88	82	84	78	49	30	19	29	46	41
24	54	82	84	84	84	76	48	26	20	42	38	42
25	58	74	86	82	82	73	47	26	22	43	62	41
26	64	78	88	78	84	73	47	38	21	31	44	39
27	71	76	86	82	80	76	46	32	24	28	43	38
28	69	77	86	82	80	76	46	35	38	25	46	38
29	65	77	88	88	---	73	45	40	56	23	51	40
30	71	78	84	86	---	71	45	31	40	21	53	41
31	69	---	90	76	---	69	---	34	---	24	61	---
TOTAL	1755	2103	2578	2618	2358	2457	1662	992	638	1291	1293	2333
MEAN	56.6	70.1	83.2	84.5	84.2	79.3	55.4	32.0	21.3	41.6	41.7	77.8
MAX	71	85	90	95	93	86	69	49	56	96	74	338
MIN	46	59	74	76	69	69	45	25	12	21	25	36
AC-FT	3480	4170	5110	5190	4680	4870	3300	1970	1270	2560	2560	4630

CAL YR 1980 TOTAL 25350 MEAN 69.3 MAX 675 MIN 12 AC-FT 50280
WTR YR 1981 TOTAL 22078 MEAN 60.5 MAX 338 MIN 12 AC-FT 43790

09330230 FREMONT RIVER NEAR CAINEVILLE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967-72, 1977 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: March 1967 to September 1969.
SUSPENDED-SEDIMENT DISCHARGE: March 1967 to May 1972, October 1977 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 31.0°C Aug. 12, 1967; minimum, 0.0°C on many days during winter period each year.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 129,000 mg/L July 20, 1969; minimum daily mean, 2 mg/L several days in September 1978, June 28, 1980.
SEDIMENT LOADS: Maximum, 239,000 tons (216,800 tonnes) Sept. 9, 1980; minimum daily, 0.07 ton (0.06 tonne) June 28, 1980.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 88,000 mg/L Sept. 9; minimum daily mean, 72 mg/L Oct. 25, 26.
SEDIMENT LOADS: Maximum, 80,300 tons (72,800 tonnes) Sept. 9; minimum daily, 4.5 ton (4.1 tonnes) June 18.

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	170	22	105	20	200	42	177	44	190	35	195	43
2	170	22	111	21	180	36	181	46	210	45	150	35
3	160	21	122	22	165	36	185	46	278	63	122	28
4	150	20	130	24	170	38	186	48	255	58	124	28
5	150	20	148	27	173	39	186	48	255	56	121	27
6	150	19	183	32	168	37	185	43	260	59	115	26
7	145	19	204	36	167	35	175	40	260	59	103	24
8	140	19	220	39	170	35	170	39	252	56	110	25
9	105	14	228	37	200	41	170	39	255	63	110	24
10	105	14	229	37	209	43	195	40	258	61	109	24
11	105	13	232	39	225	46	185	40	250	58	110	24
12	105	15	233	39	261	55	208	45	259	57	115	25
13	102	17	250	43	285	62	220	50	261	63	110	24
14	100	16	295	49	301	70	215	46	254	64	100	22
15	100	17	340	54	275	64	207	46	259	63	88	20
16	102	18	345	62	253	59	218	49	285	68	92	21
17	96	15	320	60	235	55	217	49	280	67	95	21
18	104	17	294	56	210	50	216	48	290	69	95	19
19	102	17	293	58	190	44	225	50	315	73	105	23
20	103	16	289	57	165	38	233	54	340	79	120	26
21	80	12	283	57	135	31	238	55	355	75	165	34
22	78	12	275	63	140	33	248	55	355	77	190	39
23	75	11	270	60	140	33	265	59	355	81	205	43
24	73	11	272	60	138	31	290	66	340	77	225	46
25	72	11	270	54	141	33	286	63	318	70	240	47
26	72	12	262	55	143	34	283	60	280	64	215	42
27	90	17	255	52	144	33	275	61	250	54	165	34
28	80	15	252	52	145	34	315	70	215	46	110	23
29	88	15	240	50	148	35	314	75	---	---	100	20
30	120	23	243	51	151	34	262	61	---	---	90	17
31	110	20	---	---	155	38	221	45	---	---	107	20
TOTAL	---	510	---	1366	---	1294	---	1580	---	1760	---	874

09330230 FREMONT RIVER NEAR CAINEVILLE, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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	155	29	208	27	400	31	500	50	301	25	4600	571
2	218	38	180	24	358	28	480	44	304	25	2000	221
3	225	39	165	20	350	27	450	38	302	25	1800	199
4	220	39	185	17	343	23	420	31	320	29	1600	156
5	215	37	176	15	338	21	420	29	330	34	33000	21400
6	205	35	170	14	335	18	420	39	350	30	79000	45900
7	202	34	171	13	332	15	490	45	370	39	44000	8790
8	200	35	172	13	331	13	470	37	330	34	52000	16800
9	197	34	171	14	330	11	7200	680	340	33	88000	80300
10	200	33	170	12	301	11	9000	1920	2400	330	60000	27100
11	201	31	165	12	242	9.1	6800	532	6200	820	1000	297
12	201	31	175	12	213	6.9	48000	12400	7000	1360	260	52
13	202	31	165	12	208	6.7	52000	11100	5800	799	270	50
14	204	30	165	11	180	7.3	1300	228	5500	1100	280	46
15	199	30	172	12	175	6.6	1200	149	5000	432	298	47
16	205	30	170	14	108	5.0	800	82	6000	437	302	45
17	220	32	175	17	110	4.8	34000	6610	5800	391	306	43
18	225	32	230	18	105	4.5	74000	19200	5700	385	311	37
19	225	32	172	13	112	4.8	14000	1590	5700	431	320	40
20	222	31	168	13	118	5.4	2100	198	5700	446	320	38
21	220	30	165	16	130	6.3	1800	156	6100	675	298	33
22	225	30	160	13	152	7.4	1700	133	5900	558	288	33
23	240	32	155	13	168	8.6	1600	125	7800	969	275	30
24	245	32	168	12	180	9.7	1700	193	5900	605	300	34
25	240	30	171	12	183	11	2600	302	6900	1160	342	38
26	225	29	198	20	188	11	1600	134	6100	725	330	35
27	218	27	235	20	185	12	890	67	6200	720	315	32
28	215	27	233	22	195	20	740	50	5900	733	305	31
29	205	25	235	25	350	53	650	40	6100	840	300	32
30	180	22	240	20	590	64	500	28	6800	973	300	33
31	---	---	240	22	---	---	400	26	7300	1200	---	---
TOTAL	---	947	---	498	---	462.1	---	56256	---	16363	---	202463

TOTAL LOAD FOR YEAR: 284373.1 TONS.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
SEP 02...	0830	41	15.5	2380	263	5	7	10	26	73	95	100

09330500 MUDDY CREEK NEAR EMERY, UTAH

LOCATION.--Lat 38°58'55", long 111°14'55", in NE¼NW¼NE¼ sec.21, T.21 S., R.6 E., Emery County, Hydrologic Unit 14070002, on left bank 100 ft (30 m) upstream from Emery Canal and 4.1 mi (6.6 km) north of Emery.

DRAINAGE AREA.--105 mi^2 (270 km^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 (1,951 m) 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 (2 km) upstream at different datums. June 29, 1949 to May 1, 1957, water-stage recorder at site 100 ft (30 m) upstream at datum 2.89 ft (0.881 m) higher prior to Mar. 20, 1953, and at datum 1.89 ft (0.6 m) higher thereafter.

REMARKS.--Records good except those for winter period, which are poor. One small diversion for irrigation and two storage reservoirs (total capacity 700 acre-ft (0.86 m)) above station.

AVERAGE DISCHARGE.--35 years (1910-13, 1949-81), 37.3 ft^3/s (1.056 m^3/s), 27,020 acre-ft/yr (33.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,340 ft^3/s (94.6 m^3/s) May 10, 1952, gage height, 11.14 ft (3.395 m), present datum from rating curve extended above 400 ft^3/s (11.3 m^3/s) on basis of slope-area measurement of peak flow; no flow Apr. 13-16, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 400 ft^3/s (11.3 m^3/s), 1,840 ft^3/s (52.1 m^3/s) Sept. 5, gage height, 8.18 ft (2.493 m); minimum daily, 4.0 ft^3/s (0.11 m^3/s) Jan. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	9.0	13	5.0	7.0	9.0	9.1	52	65	33	27	44
2	28	9.0	11	6.0	7.0	9.0	10	54	68	34	27	45
3	40	9.0	12	5.0	8.0	9.0	7.8	59	70	33	26	45
4	40	10	13	5.0	8.0	8.0	7.4	45	66	32	25	45
5	40	10	12	5.0	7.0	9.0	9.6	40	66	28	21	90
6	40	10	11	4.0	8.0	8.0	15	37	68	26	23	180
7	40	10	10	6.0	7.0	8.0	16	33	68	26	33	70
8	39	9.8	9.0	6.0	8.0	9.0	13	33	71	26	31	60
9	40	9.9	9.0	6.4	9.0	9.0	21	30	72	26	30	240
10	47	9.9	8.0	6.6	9.0	8.0	24	32	71	28	48	39
11	46	10	9.0	6.6	8.0	8.0	22	34	70	26	48	35
12	51	11	10	6.6	7.0	7.0	20	31	66	28	46	33
13	38	12	10	6.4	5.0	7.0	20	31	64	30	45	30
14	34	9.9	10	6.6	6.0	7.0	24	34	64	27	45	30
15	34	9.0	10	6.8	7.0	9.1	46	38	60	27	44	30
16	34	8.0	11	7.0	8.0	8.7	33	35	57	26	43	29
17	29	8.0	12	7.0	9.0	7.8	31	33	53	25	43	28
18	28	8.0	10	7.0	8.0	9.6	32	31	51	25	45	28
19	28	9.0	11	8.0	8.0	7.8	32	32	31	20	45	28
20	28	9.0	12	8.0	8.0	7.8	21	34	24	17	45	27
21	28	9.0	11	7.0	7.0	6.3	23	33	24	19	46	25
22	28	10	10	7.0	7.0	8.2	26	33	25	21	46	25
23	26	11	11	7.0	8.0	8.7	34	33	35	32	47	25
24	26	10	10	7.0	8.0	9.1	45	32	39	31	46	24
25	26	10	11	7.0	8.0	9.6	50	34	27	27	45	23
26	28	11	9.0	7.0	9.0	11	44	38	38	24	43	22
27	26	10	8.0	7.0	9.0	10	40	61	30	22	45	21
28	24	11	6.0	8.0	9.0	8.9	41	67	33	22	44	21
29	13	12	6.0	8.0	---	9.6	45	68	35	26	44	20
30	10	12	7.0	8.0	---	11	50	65	33	26	45	20
31	8.0	---	6.0	7.0	---	8.9	---	64	---	27	45	---
TOTAL	972.0	296.5	308.0	205.0	217.0	267.1	811.9	1276	1544	820	1236	1382
MEAN	31.4	9.88	9.94	6.61	7.75	8.62	27.1	41.2	51.5	26.5	39.9	46.1
MAX	51	12	13	8.0	9.0	11	50	68	72	34	48	240
MIN	8.0	8.0	6.0	4.0	5.0	6.3	7.4	30	24	17	21	20
AC-FT	1930	588	611	407	430	530	1610	2530	3060	1630	2450	2740

CAL YR 1980 TOTAL 22119.6 MEAN 60.4 MAX 316 MIN 6.0 AC-FT 43870
WTR YR 1981 TOTAL 9335.5 MEAN 25.6 MAX 240 MIN 4.0 AC-FT 18520

09331850 CONVULSION CANYON NEAR EMERY, UTAH

LOCATION.--Lat 38°54'23", long 111°24'40", in NE¼SW¼SE¼ sec.12, T.22 S., R.4 E., Sevier County, Hydrologic Unit 14070002, on left bank about 3.5 mi (5.6 km) downstream from Acord Lake junction, 9.5 mi (15.3 km) to I-70, 30 mi (48 km) southwest of Emery.

DRAINAGE AREA.--21.5 mi^2 (55.7 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to September 1981 (seasonal).

GAGE.--Water-stage recorder. Altitude of gage is 7,120 ft (2,170 m) from topographic map.

REMARKS.--Records good.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5.1 ft^3/s (0.144 m^3/s) Sept. 8, gage height, 1.20 ft (0.366 m); minimum daily, 0.09 ft^3/s (0.003 m^3/s) July 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.2						1.5	1.4	1.3	1.4	1.4
2	1.0	1.3						1.0	1.7	.70	1.4	1.4
3	1.3	1.4						.70	1.3	.72	1.3	.95
4	1.3	1.4						1.5	1.6	1.4	1.0	1.4
5	1.3	1.2						1.4	1.4	1.4	1.3	1.3
6	1.3	1.2						1.6	1.4	1.4	1.1	.84
7	1.3	1.4						1.5	1.7	1.3	1.1	1.6
8	1.3	1.4						1.5	1.2	1.3	.85	1.4
9	1.4	1.4						1.5	1.3	1.0	1.3	1.3
10	1.5	1.7						1.6	1.3	.91	1.3	1.4
11	1.8	1.5						1.3	1.6	.86	1.2	1.3
12	1.5	1.6						1.1	.65	1.3	1.4	.83
13	1.3	1.4						.98	.56	1.3	.90	.57
14	1.4	1.1						1.4	1.2	.99	.68	1.3
15	1.2	1.1						1.6	1.6	1.3	1.4	1.3
16	1.6	.49						1.4	1.6	.65	1.3	.54
17	1.4	.68						.87	1.3	.62	1.3	1.0
18	1.2	1.1						1.4	1.6	1.3	1.3	1.0
19	1.1	1.2						1.6	.96	1.3	1.3	1.2
20	1.1	1.8						1.4	.67	1.3	1.3	.95
21	1.4	1.6						1.3	1.5	1.3	1.3	.95
22	1.1	1.2						1.6	1.5	1.2	1.4	1.1
23	.91	1.7						1.6	1.5	.85	1.4	1.1
24	1.2	1.4						1.5	1.4	.70	1.4	1.1
25	.91	1.6						1.4	1.4	.09	1.3	1.1
26	.86	1.6						1.5	1.4	1.1	.75	1.1
27	1.4	1.5						1.3	1.4	1.3	.73	1.1
28	.64	.94						1.1	1.4	1.3	1.1	1.1
29	1.1	.95						1.2	1.4	1.1	.64	1.2
30	1.5	1.4						1.6	1.4	1.3	1.1	.31
31	1.1	---						1.6	---	1.2	1.1	---
TOTAL	38.52	39.46						42.55	40.34	33.79	36.35	33.14
MEAN	1.24	1.32						1.37	1.34	1.09	1.17	1.10
MAX	1.8	1.8						1.6	1.7	1.4	1.4	1.6
MIN	.64	.49						.70	.56	.09	.64	.31
AC-FT	76	78						84	80	67	72	66

09331850 CONVULSION CANYON NEAR EMERY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1980 to September 1981.
SEDIMENT DATA: October 1980 to September 1981, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
22...	1700	.15	880	8.2	8.0	10.0	8.4	97	--	470	150
NOV											
19...	1200	.23	890	8.2	5.0	9.0	8.4	93	.48	430	100
MAY											
24...	1100	1.7	710	8.4	16.0	12.5	8.3	100	.56	340	100
JUN											
28...	1300	1.4	680	8.5	24.0	16.0	7.5	99	--	340	95
JUL											
15...	1215	1.3	680	8.4	30.0	15.0	8.0	101	--	320	98
AUG											
14...	1115	1.2	700	8.4	22.0	14.0	7.8	97	.37	320	92
SEP											
04...	1315	1.4	690	8.6	29.0	14.5	7.4	--	--	300	--
07...	1145	1.5	680	8.4	21.0	14.0	7.9	98	--	310	92

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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY FIELD (MG/L AS CACO3)
OCT										
22...	--	91	58	30	12	.6	3.8	390	0	320
NOV										
19...	--	86	51	25	11	.5	3.7	400	0	330
MAY										
24...	94	70	41	23	13	.5	2.6	290	2	240
JUN										
28...	130	67	41	23	13	.5	2.1	280	9	240
JUL										
15...	--	62	40	25	14	.6	2.5	260	5	220
AUG										
14...	--	63	39	25	15	.7	2.5	270	4	230
SEP										
04...	--	58	38	27	16	.8	2.0	--	--	--
07...	--	61	39	23	14	.6	2.8	260	3	220

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	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)
OCT										
22...	--	3.9	170	24	.3	12	492	581	.67	.20
NOV										
19...	300	4.0	140	22	.3	12	491	538	.67	.30
MAY										
24...	250	1.9	130	12	.2	10	417	440	.57	1.9
JUN										
28...	210	1.5	130	14	.2	11	389	435	.53	1.5
JUL										
15...	--	1.7	130	14	.2	12	344	419	.47	1.2
AUG										
14...	--	1.8	130	14	.3	11	432	423	.59	1.4
SEP										
04...	--	--	150	15	.2	12	430	--	.58	1.6
07...	--	1.7	120	14	.3	11	408	402	.55	1.7

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	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)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
NOV											
19...	.010	.01	.42	.43	.08	.35	.13	.010	.03	.010	--
MAY											
24...	.080	--	1.0	1.10	.57	.53	.03	.030	.09	.010	1.9
JUN											
28...	--	--	--	--	--	--	--	--	--	--	1.6
JUL											
15...	--	--	--	--	--	--	--	--	--	--	1.9
AUG											
14...	.020	--	.43	.45	.23	.22	.15	.110	.34	.020	--

09331850 CONVULSION CANYON NEAR EMERY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
OCT												
22...	1700	--	--	--	--	--	--	--	--	150	--	--
NOV												
19...	1200	1	--	3	100	20	80	0	<1	150	4	<1
MAY												
24...	1100	1	0	1	100	10	90	0	<1	190	0	<1
JUN												
28...	1300	--	--	--	--	--	--	--	--	240	--	--
JUL												
15...	1215	--	--	--	--	--	--	--	--	270	--	--
AUG												
14...	1115	1	1	0	--	--	--	0	<1	310	0	<1
SEP												
04...	1315	--	--	--	--	--	--	--	--	270	--	--
07...	1145	--	--	--	--	--	--	--	--	280	--	--

DATE	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (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)
OCT											
22...	--	--	--	--	--	--	170	150	20	--	--
NOV											
19...	0	--	0	1	--	1	200	--	<10	3	--
MAY											
24...	10	10	0	3	2	1	220	200	20	0	0
JUN											
28...	--	--	--	--	--	--	200	190	10	--	--
JUL											
15...	--	--	--	--	--	--	230	--	<10	--	--
AUG											
14...	10	0	10	4	3	1	800	--	<10	7	6
SEP											
04...	--	--	--	--	--	--	500	--	<10	--	--
07...	--	--	--	--	--	--	1200	--	<10	--	--

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)
OCT											
22...	--	--	--	--	30	10	20	--	--	--	--
NOV											
19...	0	20	0	20	30	20	10	.1	--	.0	2
MAY											
24...	2	10	0	30	30	20	10	.5	.1	.4	2
JUN											
28...	--	--	--	--	20	10	10	--	--	--	--
JUL											
15...	--	--	--	--	20	10	10	--	--	--	--
AUG											
14...	1	--	--	--	50	40	13	.1	.1	.0	7
SEP											
04...	--	--	--	--	30	20	9	--	--	--	--
07...	--	--	--	--	50	40	12	--	--	--	--

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)
OCT											
22...	--	--	--	--	--	--	--	--	--	--	--
NOV											
19...	--	1	0	--	0	480	0	500	50	--	<3
MAY											
24...	0	2	0	0	0	560	10	550	0	0	3
JUN											
28...	--	--	--	--	--	--	--	--	--	--	--
JUL											
15...	--	--	--	--	--	--	--	--	--	--	--
AUG											
14...	6	1	0	0	0	--	--	--	20	--	<3
SEP											
04...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--

09331850 CONVULSION CANYON NEAR EMERY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
NOV 19...	1200	2.6	.3	.00	2
MAY 24...	1100	8.4	.9	.00	9
AUG 14...	1115	1.3	1.6	.00	2

DATE	TIME	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)
AUG 14...	1115	<13	<1.3	<5.1	<.9	<4.9	<.8

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	OCT 22,80	JUN 28,81	JUL 15,81	AUG 14,81	SEP 7,81
TIME	1700	1300	1215	1115	1145
TOTAL CELLS/ML	180	140	660	150000	560
DIVERSITY: DIVISION	0.6	0.0	0.0	1.0	1.2
.CLASS	0.6	0.0	0.0	1.0	1.3
..ORDER	0.6	0.0	0.0	1.2	1.3
...FAMILY	0.6	0.4	0.9	1.4	2.1
....GENUS	0.6	0.4	0.9	1.4	2.1

ORGANISM	OCT 22,80 CELLS/ML	OCT 22,80 PERCENT	JUN 28,81 CELLS/ML	JUN 28,81 PERCENT	JUL 15,81 CELLS/ML	JUL 15,81 PERCENT	AUG 14,81 CELLS/ML	AUG 14,81 PERCENT	SEP 7,81 CELLS/ML	SEP 7,81 PERCENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...DICTYOSPHAERIACEAE										
....DICTYOSPHAERIUM	--	-	--	-	--	-	7200	5	--	-
...OOCYSTACEAE										
....OOCYSTIS	--	-	--	-	--	-	2200	1	--	-
...SCENEDESMACEAE										
....SCENEDESMUS	--	-	--	-	--	-	3300	2	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	42	7
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	--	-	--	-	--	-	20000	14	--	-
....STEPHANODISCUS	--	-	--	-	--	-	b	0	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	13	9	--	-	--	-	70	13
...FRAGILARIACEAE										
....SYNEDRA	--	-	--	-	27	4	--	-	--	-
...NAVICULACEAE										
....NAVICULA	--	-	--	-	55	8	b	0	14	2
...NITZSCHIACEAE										
....NITZSCHIA	26	14	130a	91	550a	83	--	-	270a	47
...SURIRELLACEAE										
....SURIRELLA	--	-	--	-	27	4	--	-	14	2
.CHRYSOPHYCEAE										
..OCHROMONADALES										
...OCHROMONADACEAE										
....OCHROMONAS	--	-	--	-	--	-	--	-	14	2
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....ANACYSTIS	150a	86	--	-	--	-	--	-	--	-
..OSCILLATORIALES										
...OSCILLATORIACEAE										
....OSCILLATORIA	--	-	--	-	--	-	110000<	73	140<	25

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organism, may not have been counted: Less than 1/2 percent.

09331850 CONVULSION CANYON NEAR EMERY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)
NOV						
19...	1200	.630	.551	.040	.000	1980
JUL						
15...	1215	7.95	5.75	2.33	.000	944
AUG						
14...	1115	104	95.4	8.19	<.010	1050
SEP						
07...	1145	1.97	1.81	1.06	<.010	151

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	COAL IN BOTTOM MATE-RIAL (GM/KG)
OCT						
22...	1700	.15	10.0	17	.01	28.0
NOV						
19...	1200	.23	9.0	32	.02	--
MAY						
24...	1100	1.7	12.5	84	.39	--
JUN						
28...	1300	1.4	16.0	46	.17	--
JUL						
15...	1215	1.3	15.0	99	.35	--
AUG						
14...	1115	1.2	14.0	142	.46	--
SEP						
07...	1145	1.5	14.0	180	.73	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
MAY							
24...	1100	1.7	12.5	9	18	39	60
JUN							
28...	1300	1.4	16.0	8	17	42	62

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
MAY						
24...	67	73	80	91	99	100
JUN						
28...	69	75	80	87	90	100

09331900 QUITCHUPAH CREEK NEAR EMERY, UTAH

LOCATION.--Lat 38°51'33", long 111°15'41", in SE¼SE¼NE¼ sec.32, T.22 S., R.6 E., Emery County, Hydrologic Unit 14070002, on left bank 4.2 mi (6.8 km) upstream from mouth, at the Consol coal mine, 4 mi (6.4 km) south of Emery.

DRAINAGE AREA.--104 mi2 (269 km2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1978 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,900 ft (1,798 m) from topographic map.

REMARKS.--Records good except those for winter period, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,590 ft^3/s (73.3 m^3/s) Sept. 8, 1981, gage height, 15.72 ft (4.791 m); minimum, 0.16 ft^3/s (0.005 m^3/s) Sept. 7, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 100 ft^3/s (2.83 m^3/s) and maximum discharge (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 14	0530	107	3.03	3.76	1.146
June 28	2030	932	26.4	8.25	2.515
Aug. 10	1745	202	5.72	4.20	1.280
Sept. 5	2045	1,750	49.6	12.30	3.749
Sept. 8	2045	*2,590	73.3	15.72	4.791

Minimum discharge, 0.66 ft^3/s (0.019 m^3/s) Aug. 10.

REVISIONS.--The maximum discharge for the water year 1980 has been revised to 586 ft^3/s (16.6 m^3/s) Sept. 9, 1980, gage height, 6.11 ft (1.862 m), superseding figure published in the report for 1980.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	12	5.4	4.2	4.3	6.4	5.9	4.1	4.2	3.0	.85	2.8
2	3.3	11	5.4	4.1	4.3	11	8.2	5.1	5.7	3.7	.75	2.4
3	5.8	11	5.4	4.1	4.3	8.6	6.1	5.7	7.0	2.3	.91	2.9
4	4.5	12	5.4	4.0	4.3	7.5	4.8	3.9	5.7	1.9	1.4	2.7
5	3.7	10	5.4	4.0	4.3	9.3	6.2	3.7	5.5	1.8	.79	235
6	4.3	8.2	5.4	4.0	4.3	7.3	7.0	4.2	4.6	3.1	1.6	47
7	4.3	8.4	5.4	3.9	4.3	7.4	9.8	3.9	5.1	3.1	1.8	3.1
8	3.7	7.8	5.4	3.9	4.4	7.2	6.7	4.7	4.4	1.7	1.4	442
9	4.6	7.8	5.3	3.9	4.4	6.3	6.5	4.1	3.1	2.3	.76	342
10	3.7	7.2	5.2	3.9	4.5	7.1	9.3	4.3	2.5	1.7	16	47
11	4.1	7.1	5.2	3.9	4.5	8.9	3.6	3.3	3.1	2.7	5.1	6.7
12	6.1	8.4	5.2	3.9	4.6	7.1	3.0	2.2	1.8	3.4	2.5	5.5
13	6.9	10	5.0	3.9	4.7	8.7	3.4	2.2	1.7	2.1	2.1	4.2
14	11	7.3	5.0	3.9	4.7	9.8	2.9	2.4	2.6	2.1	2.2	4.6
15	5.6	5.5	4.9	3.9	4.8	8.4	3.3	2.8	2.2	1.6	2.2	5.3
16	6.4	4.9	4.9	3.9	4.8	10	3.6	3.5	2.4	1.5	2.5	4.9
17	4.8	4.5	4.9	3.9	4.8	9.3	5.1	2.7	2.2	2.1	1.9	4.3
18	4.2	4.2	4.8	3.8	4.8	6.5	2.6	2.5	2.4	1.4	2.3	4.8
19	4.3	4.4	4.8	3.8	4.8	7.0	3.3	2.3	3.2	1.2	1.9	6.2
20	5.3	4.6	4.7	3.8	4.9	7.8	3.6	2.2	2.3	1.1	2.2	5.5
21	4.8	5.0	4.7	3.8	4.9	8.3	2.2	2.6	1.8	1.7	2.8	4.7
22	4.9	5.1	4.6	3.8	5.0	9.6	2.6	3.0	2.6	1.1	2.3	3.7
23	4.9	5.2	4.6	3.8	5.2	9.1	2.1	3.3	3.1	1.5	2.2	3.7
24	4.4	5.2	4.6	3.8	5.3	11	2.8	2.4	2.3	1.3	2.6	4.6
25	4.2	5.2	4.5	3.8	5.4	10	3.7	2.2	2.1	1.6	2.5	4.6
26	4.8	5.3	4.5	3.8	5.5	10	4.7	2.3	1.9	1.3	5.7	3.5
27	5.7	5.3	4.4	3.8	5.6	8.7	3.2	4.6	2.5	1.2	3.4	3.3
28	5.1	5.4	4.3	3.9	5.8	8.3	3.4	2.8	102	1.7	2.6	3.4
29	4.1	5.4	4.3	4.0	---	6.9	3.8	3.3	5.1	1.2	3.2	3.7
30	6.2	5.4	4.3	4.1	---	9.7	3.7	3.9	3.1	.86	2.4	2.5
31	7.7	---	4.2	4.2	---	7.3	---	4.5	---	1.4	2.3	---
TOTAL	157.1	208.8	152.1	121.5	133.5	260.5	137.1	104.7	198.2	58.66	83.16	1216.6
MEAN	5.07	6.96	4.91	3.92	4.77	8.40	4.57	3.38	6.61	1.89	2.68	40.6
MAX	11	12	5.4	4.2	5.8	11	9.8	5.7	102	3.7	16	442
MIN	3.3	4.2	4.2	3.8	4.3	6.3	2.1	2.2	1.7	.86	.75	2.4
AC-FT	312	414	302	241	265	517	272	208	393	116	165	2410

CAL YR 1980 TOTAL 4242.00 MEAN 11.6 MAX 263 MIN 2.4 AC-FT 8410
WTR YR 1981 TOTAL 2831.92 MEAN 7.76 MAX 442 MIN .75 AC-FT 5620

09331900 QUITCHUPAH CREEK NEAR EMERY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to current year.
SEDIMENT DATA: November 1978 to current year, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT 21...	1700	4.9	2420	8.4	11.0	13.0	8.2	98	2.4	760	420
NOV 19...	1630	12	2420	8.4	4.5	.5	10.8	92	--	700	340
DEC 08...	1345	9.1	1990	8.1	.0	.0	11.5	97	--	580	240
JAN 15...	1130	3.2	1670	8.4	9.0	.0	11.6	98	2.8	530	220
FEB 17...	1415	13	2540	8.4	14.0	4.0	10.7	101	--	480	87
MAR 16...	1200	11	2060	8.5	7.0	6.0	9.4	94	--	550	240
APR 16...	1515	2.4	2620	8.4	19.0	21.0	8.1	111	4.7	760	390
MAY 25...	1130	2.7	2910	8.4	21.5	16.5	11.2	145	--	780	440
JUN 27...	1600	3.0	5500	8.5	21.0	20.0	7.3	100	--	1100	740
JUL 16...	1115	1.5	2690	8.4	30.0	20.0	8.4	115	2.2	800	480
AUG 14...	1515	2.4	4300	8.3	28.0	21.5	7.1	100	--	860	510
SEP 04...	0945	1.1	3340	8.4	25.5	13.0	8.7	--	--	1100	--
08...	1315	15	1830	8.1	20.0	18.5	7.2	95	--	530	0

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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY FIELD (MG/L AS CACO3)
OCT 21...	--	140	99	310	47	4.9	6.7	410	2	340
NOV 19...	--	120	98	320	49	5.3	6.5	430	7	360
DEC 08...	--	110	73	230	46	4.2	4.9	410	0	340
JAN 15...	--	100	67	190	44	3.6	2.3	380	4	310
FEB 17...	--	84	65	250	53	5.0	3.0	470	3	390
MAR 16...	--	95	76	290	53	5.4	3.3	360	10	320
APR 16...	--	140	100	360	50	5.7	7.0	440	4	370
MAY 25...	450	130	110	420	54	6.6	7.9	400	6	340
JUN 27...	790	160	180	960	64	12	8.0	420	10	360
JUL 16...	--	160	97	340	48	5.2	6.7	380	3	310
AUG 14...	--	130	130	710	64	11	6.5	430	0	350
SEP 04...	--	200	140	480	49	6.4	7.4	--	--	--
08...	--	140	44	210	46	4.3	8.6	1180	0	960

09331900 QUITCHUPAH CREEK NEAR EMERY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALKALINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	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...	--	2.6	940	55	.5	5.8	1760	1770	2.4	23.3
NOV 19...	--	2.8	850	58	.5	11	1690	1680	2.3	54.8
DEC 08...	--	5.2	690	37	.5	9.0	1410	1360	1.9	34.6
JAN 15...	--	2.5	610	19	.4	8.8	1160	1190	1.6	10.0
FEB 17...	--	3.0	660	36	.4	8.6	1290	1340	1.8	45.3
MAR 16...	--	1.9	710	52	.5	8.2	1410	1420	1.9	41.9
APR 16...	--	2.9	1100	64	.5	9.7	2020	2020	2.8	13.1
MAY 25...	330	2.6	1300	72	.5	7.9	2220	2250	3.0	16.2
JUN 27...	350	2.2	2600	140	.7	9.9	4440	4280	6.0	36.0
JUL 16...	--	2.5	1100	66	.4	9.7	2070	1980	2.8	8.4
AUG 14...	--	3.4	1700	110	.8	12	3270	3010	4.5	21.2
SEP 04...	--	--	1400	82	.6	9.0	2690	--	3.7	8.0
08...	--	15	690	41	.4	7.6	1370	1720	1.9	55.5

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (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)	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)	POTASSIUM 40 DISSOLVED (PCI/L AS K40)
OCT 21...	.010	.01	.78	.79	.24	.55	1.8	.260	.80	.020	--
JAN 15...	.220	.27	.78	1.00	.34	.66	2.1	.260	.80	.000	--
FEB 17...	--	--	--	--	--	--	--	--	--	--	2.2
MAR 16...	--	--	--	--	--	--	--	--	--	--	2.5
APR 16...	.150	--	1.8	1.90	.00	1.9	2.8	.290	.89	.040	5.2
MAY 25...	--	--	--	--	--	--	--	--	--	--	5.9
JUN 27...	--	--	--	--	--	--	--	--	--	--	6.0
JUL 16...	.060	--	.94	1.00	.15	.85	1.3	.270	.83	.180	5.0

DATE	TIME	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, SUSPENDED RECOV. (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
OCT 21...	1700	--	--	--	100	0	100	--	--	--	320	--
NOV 19...	1630	--	--	--	--	--	--	--	--	--	290	--
DEC 08...	1345	--	--	--	--	--	--	--	--	--	210	--
JAN 15...	1130	--	--	--	--	--	--	--	--	--	140	--
FEB 17...	1415	--	--	--	--	--	--	--	--	--	200	--
MAR 16...	1200	--	--	--	--	--	--	--	--	--	240	--
APR 16...	1515	--	--	--	200	0	200	--	--	--	260	--
MAY 25...	1130	--	--	--	--	--	--	--	--	--	330	--
JUN 27...	1600	--	--	--	--	--	--	--	--	--	600	--
JUL 16...	1115	--	--	--	--	--	--	--	--	--	420	--
AUG 14...	1515	1	1	0	--	--	--	0	0	0	700	0
SEP 04...	0945	--	--	--	--	--	--	--	--	--	540	--
08...	1315	23	22	1	--	--	--	10	--	<1	210	2

09331900 QUITCHUPAH CREEK NEAR EMERY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (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)
OCT 21...	--	--	--	--	--	--	--	--	3700	3700	40	--
NOV 19...	--	--	--	--	--	--	--	--	12000	12000	30	--
DEC 08...	--	--	--	--	--	--	--	--	4500	--	<10	--
JAN 15...	--	--	--	--	--	--	--	--	6600	6600	30	--
FEB 17...	--	--	--	--	--	--	--	--	36000	36000	0	--
MAR 16...	--	--	--	--	--	--	--	--	7700	7700	20	--
APR 16...	--	--	--	--	--	--	--	--	19000	19000	30	--
MAY 25...	--	--	--	--	--	--	--	--	12000	12000	10	--
JUN 27...	--	--	--	--	--	--	--	--	1900	1900	30	--
JUL 16...	--	--	--	--	--	--	--	--	1300	1300	30	--
AUG 14...	0	0	10	10	0	8	7	1	3000	3000	50	8
SEP 04...	--	--	--	--	--	--	--	--	230	200	30	--
08...	0	2	150	140	10	160	160	2	150000	150000	50	300

DATE	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)	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)
OCT 21...	--	--	170	0	170	110	80	30	--	--	--	--
NOV 19...	--	--	--	--	--	220	200	20	--	--	--	--
DEC 08...	--	--	--	--	--	130	110	20	--	--	--	--
JAN 15...	--	--	--	--	--	140	120	20	--	--	--	--
FEB 17...	--	--	--	--	--	680	670	10	--	--	--	--
MAR 16...	--	--	--	--	--	160	140	20	--	--	--	--
APR 16...	--	--	170	10	160	260	230	30	--	--	--	--
MAY 25...	--	--	--	--	--	210	190	20	--	--	--	--
JUN 27...	--	--	--	--	--	70	40	30	--	--	--	--
JUL 16...	--	--	--	--	--	60	30	30	--	--	--	--
AUG 14...	5	3	--	--	--	90	70	20	.1	.1	.0	5
SEP 04...	--	--	--	--	--	30	0	30	--	--	--	--
08...	300	3	--	--	--	4400	4400	19	2.0	2.0	.0	220

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)
OCT 21...	--	--	--	--	--	2000	200	1800	--	--	--
NOV 19...	--	--	--	--	--	--	--	--	--	--	--
DEC 08...	--	--	--	--	--	--	--	--	--	--	--
JAN 15...	--	--	--	--	--	--	--	--	--	--	--
FEB 17...	--	--	--	--	--	--	--	--	--	--	--
MAR 16...	--	--	--	--	--	--	--	--	--	--	--
APR 16...	--	--	--	--	--	1600	0	1700	--	--	--
MAY 25...	--	--	--	--	--	--	--	--	--	--	--
JUN 27...	--	--	--	--	--	--	--	--	--	--	--
JUL 16...	--	--	--	--	--	--	--	--	--	--	--
AUG 14...	3	2	3	0	3	--	--	--	40	30	10
SEP 04...	--	--	--	--	--	--	--	--	--	--	--
08...	220	2	7	4	3	--	--	--	750	740	12

09331900 QUITCHUPAH CREEK NEAR EMERY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OIL AND GREASE TOTAL RECOV. GRAVI-METRIC (MG/L)
OCT 21...	1700	12	1.0	.00	12	0
JAN 15...	1130	8.1	1.3	.00	12	--
APR 16...	1515	8.3	2.2	.00	14	--
JUL 16...	1115	3.4	.4	.00	120	--

DATE	TIME	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)
AUG 14...	1515	<69	8.9	<33	7.8	<32	7.5

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO AUGUST 1981

DATE	OCT 21,80	JUN 27,81	JUL 16,81	AUG 14,81
TIME	1700	1600	1115	1515
TOTAL CELLS/ML	370	4200	530	190
DIVERSITY: DIVISION	1.0	0.8	0.2	0.4
.CLASS	1.0	0.8	0.2	0.4
..ORDER	1.2	1.1	0.2	0.4
...FAMILY	2.1	1.9	1.2	1.3
....GENUS	2.1	1.9	1.2	1.6

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CARTERIA	--	-	--	-	--	-	14	7
....CHLAMYDOMONAS	--	-	--	-	13	2	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	13	3	--	-	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	--	-	14	7
...CYMBELLACEAE								
....CYMBELLA	13	3	75	2	--	-	28	14
...FRAGILARIACEAE								
....SYNEDRA	13	3	75	2	--	-	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	13	3	--	-	13	2	--	-
...NAVICULACEAE								
....ENTOMONEIS	--	-	--	-	--	-	14	7
....NAVICULA	26	7	580	14	190a	37	120a	64
...NITZSCHIACEAE								
....NITZSCHIA	100a	28	2400a	57	310a	59	--	-
...SURIRELLACEAE								
....SURIRELLA	13	3	75	2	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	180a	48	--	-	--	-	--	-
..NOSTOCALES								
...NOSTOCACEAE								
....ANABAENA	--	-	500	12	--	-	--	-
..OSCILLATORIALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	450	11	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..DINOKONTAE								
...GLENODINIACEAE								
....GLENODINIUM	--	-	25	1	--	-	--	-

NOTE.--(a) Dominant organism: Equal to or less than 15 percent.
(b) Observed organism, may or may not have been counted: Less than 1/2 percent.

09331900 QUITCHUPAH CREEK NEAR EMERY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	CHLOR-B PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	BIOMASS CHLOROPHYLL RATIO PERIPHYTON (UNITS)
NOV						
19...	1630	.236	.236	.030	.000	.00
AUG						
14...	1515	5.83	5.75	.570	.060	140

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	COAL IN BOTTOM MATERIAL (GM/KG)
OCT						
21...	1700	4.9	13.0	819	11	3.00
NOV						
19...	1630	12	.5	1680	54	--
DEC						
08...	1345	9.1	.0	1100	27	--
JAN						
15...	1130	3.2	.0	1220	11	--
FEB						
17...	1415	13	4.0	4080	143	--
MAR						
16...	1200	11	6.0	1080	32	--
APR						
16...	1515	2.4	21.0	1260	8.2	--
MAY						
03...	1715	5.0	15.0	1400	19	--
25...	1130	2.7	16.5	1220	8.9	--
JUN						
12...	1130	2.1	18.5	842	4.8	--
27...	1600	3.0	20.0	1120	9.1	--
JUL						
16...	1115	1.5	20.0	566	2.3	--
AUG						
14...	1515	2.4	21.5	1060	6.9	--
SEP						
08...	1315	15	18.5	19200	778	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM
JUN											
27...	1600	3.0	20.0	5	14	33	57	63	74	89	100

09331950 CHRISTIANSEN WASH NEAR EMERY, UTAH

LOCATION.--Lat 38°51'41", long 111°15'07", in NE¼SE¼NW¼ sec.33, T.22 S., R.6 E., Emery County, Hydrologic Unit 14070002, on right bank 0.3 mi (0.5 km) upstream from mouth, at the Consol coal mine, 4.5 mi (7.2 km) south of Emery.

DRAINAGE AREA.--13.6 mi^2 (35.2 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,920 ft (1,804 m) 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 (43.6 m^3/s) Sept. 8, 1981, gage height, 8.83 ft (2.691 m); minimum, 0.29 ft^3/s (0.008 m^3/s) July 21-23, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 40 ft^3/s (1.13 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
June 28	1530	840	23.8	7.11	2.167
Sept. 5	1845	406	11.5	5.66	1.725
Sept. 8	1945	*1,540	43.6	8.83	2.691
Sept. 10	1900	161	4.56	4.26	1.298

Minimum, 0.29 ft^3/s (0.008 m^3/s) July 21-23.

REVISIONS.--Revised peak discharges and maximum (*) for water years 1979, 1980 and revised daily discharges, in cubic feet per second, for high-water periods in these years are given below. These figures supersede those published in the reports for 1979, 1980.

Peak discharge above base of 40 ft^3/s (1.13 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 2, 1978	1630	*53	1.50	2.53	0.771
May 13, 1980	0245	37	1.05	2.09	.637
July 8, 1980	1645	49	1.39	2.45	.746
Sept. 10, 1980	0745	*66	1.87	2.85	.869

Nov.	2, 1978	14	May	7, 1979	13	Apr.	27, 1980	15	July	12, 1980	15
	3	4.9		8	4.6		28	15		16	10
Mar.	6, 1979	8.8		9	3.9	May	12, 1980	18		17	6.2
	7	9.4		14	3.8		13	30		18	6.4
	8	9.5		15	4.2		14	20		19	5.5
	28	3.6		16	4.9		15	28		20	6.4
	29	4.9		20	16		16	31		21	7.8
	30	4.3	Apr.	22, 1980	15		29	15		22	7.3
	31	3.4		23	19	July	8, 1980	12	Sept.	8, 1980	5.3
May	4	14		24	10		9	14		9	19
	5	16		25	12		10	15		10	41
	6	17		26	14		11	15		11	9.6

09331950 CHRISTIANSEN WASH NEAR EMERY, UTAH--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	3.4	1.3	.77	.66	1.3	1.8	1.1	2.8	.53	.57	.43
2	1.2	3.2	1.3	.76	.68	1.3	1.8	1.2	2.1	.55	.63	.41
3	1.3	2.7	1.3	.76	.68	1.3	1.8	1.1	2.0	.57	.57	.41
4	1.4	2.6	1.3	.76	.66	1.4	1.4	1.4	1.9	.41	.50	.45
5	2.1	2.6	1.3	.74	.69	1.7	1.4	1.4	2.4	.42	.48	32
6	2.3	2.4	1.3	.70	.73	1.8	2.1	1.0	3.6	.43	.52	5.0
7	2.1	2.0	1.2	.64	.75	1.6	2.8	.82	2.8	.40	.55	2.1
8	2.4	1.3	1.1	.60	.78	1.5	2.2	.79	2.9	.41	.53	84
9	3.3	2.1	1.0	.55	.78	1.4	1.9	.92	3.0	.39	.48	30
10	3.7	3.6	.97	.50	.71	1.4	2.7	.98	3.4	.40	.59	11
11	3.6	4.6	.89	.48	.72	1.5	1.9	1.0	3.5	.37	.75	6.6
12	4.3	4.0	.84	.48	.78	1.4	2.1	1.0	4.4	.45	.68	6.8
13	6.8	2.5	.79	.49	.84	1.7	1.8	.98	5.1	.44	.57	6.0
14	5.8	2.2	.76	.50	.92	2.1	1.8	1.0	3.5	.38	.59	.89
15	7.6	1.5	.73	.50	1.0	1.5	1.1	1.3	2.8	.38	.55	.59
16	5.9	1.5	.72	.50	1.1	1.5	1.1	1.4	1.9	.37	.55	.61
17	6.5	1.6	.70	.50	1.2	1.6	1.1	1.0	2.8	.39	.52	.57
18	7.0	1.6	.69	.50	1.3	1.4	1.3	1.1	2.8	.37	.48	.57
19	7.6	1.7	.68	.50	1.3	1.6	1.0	1.2	1.9	.34	.47	.59
20	8.2	1.8	.68	.50	1.3	1.9	.92	1.1	2.5	.32	.47	.77
21	8.7	1.8	.68	.50	1.2	1.7	.82	1.4	1.6	.29	.55	.77
22	9.3	1.7	.68	.50	1.2	1.6	.83	1.1	1.4	.29	.52	.77
23	8.6	1.5	.68	.50	1.2	1.9	.87	1.5	1.5	.32	.52	1.1
24	6.8	1.4	.68	.50	1.3	1.8	1.2	1.7	1.2	.51	.50	1.6
25	7.8	1.4	.68	.51	1.3	1.8	1.4	1.3	1.1	.79	.47	1.1
26	9.3	1.3	.69	.52	1.3	1.9	1.2	1.4	.92	.77	.43	.70
27	7.3	1.3	.70	.54	1.3	1.8	1.2	2.0	1.0	.77	.43	.72
28	5.5	1.3	.73	.56	1.3	1.6	1.6	2.0	23	.59	.45	.77
29	5.8	1.3	.76	.58	---	1.5	1.1	2.6	1.1	.53	.47	.68
30	6.4	1.3	.79	.61	---	2.3	1.2	3.2	.59	.55	.45	.70
31	5.1	---	.78	.64	---	1.6	---	2.8	---	.53	.43	---
TOTAL	165.9	63.2	27.40	17.69	27.68	50.4	45.44	42.79	91.51	14.26	16.27	198.70
MEAN	5.35	2.11	.88	.57	.99	1.63	1.51	1.38	3.05	.46	.52	6.62
MAX	9.3	4.6	1.3	.77	1.3	2.3	2.8	3.2	23	.79	.75	84
MIN	1.2	1.3	.68	.48	.66	1.3	.82	.79	.59	.29	.43	.41
AC-FT	329	125	54	35	55	100	90	85	182	28	32	394

CAL YR 1980 TOTAL 1402.81 MEAN 3.83 MAX 41 MIN .45 AC-FT 2780
WTR YR 1981 TOTAL 761.24 MEAN 2.09 MAX 84 MIN .29 AC-FT 1510

09331950 CHRISTIANSEN WASH NEAR EMERY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to current year.
SEDIMENT DATA: December 1978 to current year, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
21...	1400	9.6	1500	8.3	14.0	5.5	10.1	100	2.7	530	250
NOV											
20...	1145	1.8	2970	8.1	8.0	.0	11.7	98	--	1200	790
DEC											
08...	1700	1.9	4630	8.2	-2.0	.0	11.5	98	--	1600	1200
JAN											
15...	1415	2.1	4400	8.2	11.0	.0	11.3	98	23	1400	1000
FEB											
17...	1115	1.2	3590	8.4	8.0	1.0	11.5	100	--	1200	870
MAR											
16...	1500	1.6	4120	8.5	10.0	6.0	10.0	101	--	1600	1100
APR											
16...	1130	1.3	5040	8.5	14.0	10.0	9.4	103	10	2100	1700
MAY											
24...	1430	2.6	2520	8.3	22.0	17.0	7.5	96	--	1000	670
JUN											
27...	1215	1.2	2970	8.6	20.0	19.5	8.3	112	--	990	670
JUL											
16...	1515	.40	4510	8.5	30.0	24.0	7.8	115	13	1400	1100
AUG											
14...	1300	.61	3900	8.4	23.5	22.0	7.2	103	--	1300	950
SEP											
04...	1045	.51	4070	8.5	25.0	15.0	8.4	--	--	1400	--
08...	1645	1.4	3630	8.2	20.0	18.5	7.6	100	--	1600	900

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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY FIELD (MG/L AS CACO3)
OCT										
21...	--	83	79	140	36	2.6	5.0	340	0	280
NOV										
20...	--	180	170	330	38	4.2	6.2	440	0	360
DEC										
08...	--	230	250	530	42	5.8	9.0	500	0	410
JAN										
15...	--	210	220	540	45	6.2	4.8	480	0	390
FEB										
17...	--	180	190	410	42	5.1	4.8	430	5	360
MAR										
16...	--	220	250	530	42	5.8	6.1	460	8	390
APR										
16...	--	340	310	600	38	5.7	8.2	520	11	440
MAY										
24...	710	160	150	230	33	3.1	8.4	420	0	350
JUN										
27...	690	150	150	360	44	5.0	6.3	360	14	320
JUL										
16...	--	200	230	580	46	6.6	8.8	360	10	310
AUG										
14...	--	180	200	460	44	5.6	6.4	410	11	350
SEP										
04...	--	210	210	550	46	6.4	9.2	--	--	--
08...	--	340	170	400	36	4.4	14	860	0	700

09331950 CHRISTIANSEN WASH NEAR EMERY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALKALINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	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...	--	2.7	510	22	.4	7.3	1060	1020	1.4	27.5
NOV										
20...	--	5.6	1300	41	.6	11	2410	2260	3.3	11.7
DEC										
08...	--	5.0	2200	73	.5	11	4080	3550	5.6	20.9
JAN										
15...	--	4.8	2100	64	.5	11	3850	3480	5.2	21.8
FEB										
17...	--	2.8	1600	51	.5	12	2980	2670	4.1	9.7
MAR										
16...	--	7.0	2000	29	.5	9.9	3610	3330	4.9	15.6
APR										
16...	--	2.7	2800	74	.6	12	4100	4450	5.6	14.4
MAY										
24...	310	3.0	1100	33	.4	9.5	2110	1880	2.9	14.8
JUN										
27...	300	1.6	1400	50	.4	9.1	2470	2320	3.4	8.0
JUL										
16...	--	1.9	2400	80	.5	9.8	3990	3750	5.4	4.3
AUG										
14...	--	2.8	1900	65	.5	13	3170	3040	4.3	5.2
SEP										
04...	--	--	2100	75	.6	8.6	3670	--	5.0	5.1
08...	--	8.7	1700	50	.4	8.9	3220	3110	4.4	12.2

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (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)	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)	POTASSIUM 40 DISSOLVED (PCI/L AS K40)
OCT											
21...	.000	.00	.92	.92	.00	.95	1.7	.240	.74	.010	--
JAN											
15...	.120	.15	1.2	1.30	.40	.90	22	.010	.03	.010	--
FEB											
17...	--	--	--	--	--	--	--	--	--	--	3.6
MAR											
16...	--	--	--	--	--	--	--	--	--	--	4.6
APR											
16...	.150	--	1.8	1.90	.40	1.5	8.5	.370	1.1	.020	6.1
MAY											
24...	--	--	--	--	--	--	--	--	--	--	6.3
JUN											
27...	--	--	--	--	--	--	--	--	--	--	4.7
JUL											
16...	.100	--	1.7	1.80	.50	1.3	12	.030	.09	.030	6.6

DATE	TIME	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, SUSPENDED RECOV. (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
OCT												
21...	1400	--	--	--	100	0	100	--	--	--	130	--
NOV												
20...	1145	--	--	--	--	--	--	--	--	--	280	--
DEC												
08...	1700	--	--	--	--	--	--	--	--	--	360	--
JAN												
15...	1415	--	--	--	--	--	--	--	--	--	350	--
FEB												
17...	1115	--	--	--	--	--	--	--	--	--	280	--
MAR												
16...	1500	--	--	--	--	--	--	--	--	--	340	--
APR												
16...	1130	--	--	--	200	0	200	--	--	--	490	--
MAY												
24...	1430	10	9	1	--	--	--	0	0	0	290	0
JUN												
27...	1215	--	--	--	--	--	--	--	--	--	330	--
JUL												
16...	1515	--	--	--	--	--	--	--	--	--	520	--
AUG												
14...	1300	1	0	1	--	--	--	0	0	0	390	0
SEP												
04...	1045	--	--	--	--	--	--	--	--	--	440	--
08...	1645	--	--	--	--	--	--	--	--	--	320	--

09331950 CHRISTIANSEN WASH NEAR EMERY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (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)
OCT 21...	--	--	--	--	--	--	--	--	3300	--	<10	--
NOV 20...	--	--	--	--	--	--	--	--	1300	1300	30	--
DEC 08...	--	--	--	--	--	--	--	--	3300	3300	50	--
JAN 15...	--	--	--	--	--	--	--	--	3300	3300	30	--
FEB 17...	--	--	--	--	--	--	--	--	3700	3700	20	--
MAR 16...	--	--	--	--	--	--	--	--	8800	8800	20	--
APR 16...	--	--	--	--	--	--	--	--	9200	9200	40	--
MAY 24...	0	6	50	40	10	35	33	2	39000	39000	50	20
JUN 27...	--	--	--	--	--	--	--	--	440	400	40	--
JUL 16...	--	--	--	--	--	--	--	--	200	170	30	--
AUG 14...	0	0	10	0	10	7	4	3	1100	1100	50	7
SEP 04...	--	--	--	--	--	--	--	--	730	710	20	--
08...	--	--	--	--	--	--	--	--	160000	160000	50	--

DATE	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	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)	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)
OCT 21...	--	--	100	10	90	160	130	30	--	--	--	--
NOV 20...	--	--	--	--	--	200	30	170	--	--	--	--
DEC 08...	--	--	--	--	--	370	70	300	--	--	--	--
JAN 15...	--	--	--	--	--	290	70	220	--	--	--	--
FEB 17...	--	--	--	--	--	280	90	190	--	--	--	--
MAR 16...	--	--	--	--	--	400	210	190	--	--	--	--
APR 16...	--	--	310	0	330	520	230	290	--	--	--	--
MAY 24...	18	2	--	--	--	1200	1100	110	.2	.2	.0	44
JUN 27...	--	--	--	--	--	60	20	40	--	--	--	--
JUL 16...	--	--	--	--	--	40	10	30	--	--	--	--
AUG 14...	7	0	--	--	--	120	40	80	.1	.1	.0	3
SEP 04...	--	--	--	--	--	60	30	30	--	--	--	--
08...	--	--	--	--	--	2800	2700	90	--	--	--	--

DATE	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	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)
OCT 21...	--	--	--	--	--	790	0	850	--	--	--
NOV 20...	--	--	--	--	--	--	--	--	--	--	--
DEC 08...	--	--	--	--	--	--	--	--	--	--	--
JAN 15...	--	--	--	--	--	--	--	--	--	--	--
FEB 17...	--	--	--	--	--	--	--	--	--	--	--
MAR 16...	--	--	--	--	--	--	--	--	--	--	--
APR 16...	--	--	--	--	--	2700	0	2800	--	--	--
MAY 24...	40	4	8	1	7	--	--	--	180	160	20
JUN 27...	--	--	--	--	--	--	--	--	--	--	--
JUL 16...	--	--	--	--	--	--	--	--	--	--	--
AUG 14...	0	4	17	2	15	--	--	--	190	170	20
SEP 04...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--

09331950 CHRISTIANSEN WASH NEAR EMERY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L)
OCT 21...	1400	11	1.1	.00	21	0
JAN 15...	1415	20	.9	.00	1	--
APR 16...	1130	10	1.4	.00	6	--
JUL 16...	1515	17	.3	.00	4	--

DATE	TIME	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)
AUG 14...	1300	<72	4.3	<30	6.7	<29	6.4

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO AUGUST 1981

DATE	OCT 21,80	JUN 27,81	JUL 16,81	AUG 14,81
TIME	1400	1215	1515	1300
TOTAL CELLS/ML	330	500	460	670
DIVERSITY: DIVISION	0.0	0.0	0.2	0.0
.CLASS	0.0	0.0	0.2	0.0
..ORDER	0.5	0.3	0.4	0.0
...FAMILY	2.0	1.8	2.3	2.2
....GENUS	2.3	1.8	3.0	2.4

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	13	3	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	13	4	26	5	13	3	--	-
....MELOSIRA	26	8	--	-	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	13	4	--	-	13	3	260a	40
....COCCONEIS	--	-	26	5	26	6	--	-
...CYMBELLACEAE								
....CYMBELLA	--	-	--	-	26	6	14	2
...DIATOMACEAE								
....DIATOMA	--	-	--	-	--	-	42	6
...FRAGILARIACEAE								
....FRAGILARIA	26	8	--	-	13	3	--	-
....SYNEDRA	--	-	--	-	26	6	28	4
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	--	-	26	6	--	-
...NAVICULACEAE								
....CALONEIS	--	-	--	-	--	-	14	2
....ENTOMONEIS	--	-	--	-	77a	17	14	2
....GYROSIGMA	13	4	--	-	13	3	--	-
....NAVICULA	140a	42	240a	49	130a	28	170a	25
...NITZSCHIACEAE								
....NITZSCHIA	90a	27	150a	31	90a	19	97	15
...SURIRELLACEAE								
....SURIRELLA	13	4	52	10	--	-	28	4

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organism, may or may not have been counted: Less than 1/2 percent.

09331950 CHRISTIANSEN WASH NEAR EMERY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)
AUG 14...	1300	8.50	8.11	1.96	.270	199

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	COAL IN BOTTOM MATE-RIAL (GM/KG)
OCT 21...	1400	9.6	5.5	618	16	--	--	--	--	--	--	--
NOV 20...	1145	1.8	.0	504	2.4	--	--	--	--	--	--	--
DEC 08...	1700	1.9	.0	973	5.0	--	--	--	--	--	--	--
JAN 15...	1415	2.1	.0	1040	5.9	--	--	--	--	--	--	--
FEB 17...	1115	1.2	1.0	604	2.0	--	--	--	--	--	--	--
MAR 16...	1500	1.6	6.0	1220	5.3	--	--	--	--	--	--	--
APR 16...	1130	1.3	10.0	1120	3.9	--	--	--	--	--	--	--
MAY 03...	1445	1.2	12.5	1090	3.5	--	--	--	--	--	--	--
24...	1430	2.6	17.0	3130	22	22	30	50	82	99	100	--
JUN 12...	1430	5.5	22.0	2800	42	--	--	--	--	--	--	--
27...	1215	1.2	19.5	510	1.7	--	--	--	--	--	--	--
JUL 16...	1515	.40	24.0	884	.95	--	--	--	--	--	--	--
AUG 14...	1300	.61	22.0	632	1.0	--	--	--	--	--	--	2.00
SEP 08...	1645	1.4	18.5	15200	57	--	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
MAY 24...	1430	2.6	17.0	18	33	45	59

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
MAY 24...	66	75	83	87	90	100

09332100 MUDDY CREEK BELOW INTERSTATE HIGHWAY I-70, NEAR EMERY, UTAH

LOCATION.--Lat 38°48'44", long 111°11'53", in SW¼NE¼SW¼ sec.13, T.23 S., R.6 E., Emery County, Hydrologic Unit 14070002, on left bank 0.1 mi (0.2 km) downstream from bridge on Interstate Highway I-70, 0.2 mi (0.3 km) downstream from Ivie Creek, and 12.2 mi (19.6 km) southeast of Emery.

DRAINAGE AREA.--418 mi^2 (1,083 km^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 (1,716 m) from topographic map.

REMARKS.--Records good except those for winter period, which are poor.

AVERAGE DISCHARGE.--19 years, 16.4 ft^3/s (0.464 m^3/s), 11,900 acre-ft/yr (14.7 hm^3/yr), includes record for station 09332500, 1950-61, 11 years, 15.4 ft^3/s (0.436 m^3/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,400 ft^3/s (266 m^3/s) Sept. 5, 1981, gage height, 11.25 ft (3.429 m) 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 (8.21 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 29	2130	292	8.27	2.83	0.863
June 28	1630	1,560	44.2	6.35	1.935
July 12	1700	1,210	34.3	5.72	1.743
Aug. 13	1800	324	9.18	2.89	.881
Aug. 21	1530	1,710	48.4	6.53	1.990
Sept. 5	2130	*9,400	266	11.25	3.429

Minimum daily discharge, 0.74 ft^3/s (0.021 m^3/s) Aug. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	22	18	14	3.6	3.8	13	5.6	5.9	3.3	1.0	12
2	8.0	21	17	13	3.8	3.6	12	5.8	6.3	4.6	.74	13
3	7.0	21	17	13	3.8	3.4	11	6.4	6.3	3.3	.74	14
4	6.0	20	16	13	4.0	3.8	10	5.2	6.1	2.0	1.1	14
5	5.4	21	15	13	3.2	4.0	9.0	5.5	5.7	1.9	.95	250
6	4.5	19	13	5.0	3.0	4.2	10	4.9	6.4	2.6	1.1	400
7	4.3	17	11	7.0	2.6	4.4	12	4.3	6.3	3.7	1.9	60
8	4.0	15	9.0	11	2.8	4.5	11	5.9	6.3	1.6	1.8	50
9	3.9	14	8.0	13	3.0	4.7	18	4.8	5.6	10	.87	160
10	4.3	13	7.0	12	3.4	4.9	28	5.8	4.9	4.6	12	90
11	3.9	14	8.0	12	2.6	6.4	9.2	4.1	5.6	2.7	11	35
12	5.0	15	9.0	11	2.2	9.0	9.0	2.8	5.1	44	5.8	30
13	7.0	16	10	13	2.4	15	8.9	2.3	4.6	11	14	19
14	11	14	11	12	2.6	36	8.3	3.5	4.6	5.0	4.8	21
15	15	6.3	13	11	2.8	24	6.4	3.2	3.5	3.5	4.1	8.8
16	16	5.0	15	12	2.8	16	6.3	5.6	2.6	1.6	5.8	6.2
17	14	5.9	14	13	3.0	9.0	6.4	3.5	3.0	1.9	1.8	4.8
18	13	6.1	13	12	3.0	11	6.0	3.4	3.6	1.8	1.5	4.8
19	14	9.4	15	13	3.2	9.9	5.9	3.5	4.5	1.1	1.1	5.3
20	14	13	14	14	3.2	11	6.4	3.6	3.2	.87	1.2	5.8
21	16	12	13	12	2.4	9.2	5.7	4.0	2.0	1.1	29	5.5
22	15	14	13	11	2.2	12	4.5	4.1	2.1	1.1	12	4.1
23	16	13	15	11	2.6	13	4.5	5.3	2.9	.87	11	4.3
24	13	12	13	12	2.8	13	5.1	4.2	2.2	1.1	11	5.0
25	13	11	14	10	3.0	12	6.1	2.7	1.9	2.9	12	5.3
26	15	14	14	5.0	3.4	13	5.9	3.9	1.4	1.4	20	4.1
27	15	15	14	4.0	3.6	13	5.1	5.8	1.5	1.5	18	3.7
28	16	16	15	4.0	3.6	12	5.4	5.8	84	1.4	12	3.5
29	16	17	14	6.0	---	7.3	5.4	12	24	1.7	12	4.1
30	19	18	13	5.0	---	14	5.0	6.3	5.0	.82	12	3.1
31	21	---	13	4.0	---	15	---	6.0	---	1.1	12	---
TOTAL	344.3	429.7	404.0	321.0	84.6	322.1	259.5	149.8	227.1	126.06	234.30	1246.4
MEAN	11.1	14.3	13.0	10.4	3.02	10.4	8.65	4.83	7.57	4.07	7.56	41.5
MAX	21	22	18	14	4.0	36	28	12	84	44	29	400
MIN	3.9	5.0	7.0	4.0	2.2	3.4	4.5	2.3	1.4	.82	.74	3.1
AC-FT	683	852	801	637	168	639	515	297	450	250	465	2470

CAL YR 1980 TOTAL 16190.10 MEAN 44.2 MAX 324 MIN 1.9 AC-FT 32110
WTR YR 1981 TOTAL 4148.86 MEAN 11.4 MAX 400 MIN .74 AC-FT 8230

09332700 MUDDY CREEK AT DELTA MINE, NEAR HANKSVILLE, UTAH

LOCATION.--Lat 38°33'47", long 110°57'13", in SE¼NE¼ sec.8, T.26 S., R.9 E., Emery County, Hydrologic Unit 14070002, on left bank 19 mi (30.6 km) northwest of Hanksville and 70 mi (113 km) northwest of Green River.

DRAINAGE AREA.--841 mi^2 (2,178 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,650 ft (1,417 m) from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--6 years, 21.9 ft^3/s (0.620 m^3/s), 15,870 acre-ft/yr (19.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,840 ft^3/s (193.7 m^3/s) Sept. 10, 1980, gage height, 9.60 ft (2.926 m) 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 (42.4 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 28	1530	1,910	54.1	5.38	1.640
Sept. 5	2430	*5,470	155	8.66	2.640

Minimum, no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	24	13	5.6	2.4	2.0	12	5.0	6.3	5.0	.20	.00
2	7.6	27	13	5.0	2.5	2.1	11	5.8	5.7	3.0	.10	.00
3	6.2	27	12	5.0	2.4	1.6	11	6.2	6.1	4.5	.00	.00
4	5.0	25	11	4.2	2.2	1.2	10	5.2	6.0	2.5	.00	.00
5	4.5	23	10	3.5	2.0	1.6	8.4	5.0	5.2	2.2	.00	23
6	4.2	21	9.0	3.2	1.6	1.8	8.2	5.2	4.1	.25	.00	900
7	4.0	16	7.0	3.9	1.4	1.8	9.0	3.4	4.7	.10	.00	200
8	3.9	12	6.0	4.3	1.6	2.5	8.0	2.4	4.2	.00	.00	150
9	4.7	11	5.4	4.5	2.0	4.0	13	2.0	4.1	.00	.00	100
10	4.0	10	5.0	4.0	2.2	8.0	12	3.0	3.6	.00	.00	400
11	5.0	12	5.6	4.4	1.4	10	15	2.4	2.9	2.1	27	250
12	4.7	13	6.0	4.2	1.0	12	12	2.6	2.1	1.1	20	110
13	6.0	14	7.0	4.0	1.2	13	11	1.7	2.2	350	11	90
14	10	15	8.0	4.2	1.4	17	10	1.1	1.9	60	34	52
15	17	14	9.0	4.5	1.4	33	11	.74	2.1	14	9.0	60
16	24	11	10	4.0	1.6	21	10	1.9	2.4	6.0	7.0	25
17	17	8.0	9.0	4.3	1.8	17	7.6	1.7	1.7	4.5	10	7.0
18	16	5.8	8.0	4.5	1.8	14	6.7	2.5	.70	6.0	2.5	5.0
19	15	8.1	9.0	4.3	1.8	12	8.5	1.5	.40	4.0	1.7	5.6
20	15	11	8.0	4.0	1.8	12	5.6	1.5	.35	2.0	.90	6.0
21	16	10	9.0	4.3	1.2	13	5.6	2.6	.35	1.5	1.1	6.4
22	17	12	8.0	4.6	.60	12	5.0	2.3	.35	1.8	70	4.1
23	17	11	8.0	4.2	.80	13	4.2	1.7	.40	2.5	30	4.3
24	17	8.0	9.0	4.0	1.0	14	4.4	1.7	.35	1.5	23	4.7
25	16	7.0	8.0	3.4	1.2	14	5.0	2.2	.30	2.0	23	5.0
26	16	9.0	9.0	3.0	1.4	15	5.4	1.8	.25	5.0	25	5.2
27	17	11	6.0	2.5	1.6	15	6.4	1.5	.23	2.0	40	3.7
28	17	12	6.0	2.5	1.6	14	5.6	72	1.9	2.5	23	4.1
29	18	13	6.0	3.0	---	13	4.8	9.1	220	2.0	17	3.5
30	19	14	5.6	2.5	---	11	5.2	13	45	3.0	1.4	3.2
31	22	---	5.4	2.4	---	13	---	12	---	.40	.20	---
TOTAL	374.3	414.9	251.0	122.0	44.90	334.6	251.6	180.74	335.88	491.45	377.10	2427.80
MEAN	12.1	13.8	8.10	3.94	1.60	10.8	8.39	5.83	11.2	15.9	12.2	80.9
MAX	24	27	13	5.6	2.5	33	15	72	220	350	70	900
MIN	3.9	5.8	5.0	2.4	.60	1.2	4.2	.74	.23	.00	.00	.00
AC-FT	742	823	498	242	89	664	499	358	666	975	748	4820

CAL YR 1980 TOTAL 23754.00 MEAN 64.9 MAX 2800 MIN .00 AC-FT 47120
WTR YR 1981 TOTAL 5606.27 MEAN 15.4 MAX 900 MIN .00 AC-FT 11120

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, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 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)
OCT												
08...	1130	3.7	5220	8.2	26.0	12.5	1700	1600	--	450	140	610
NOV												
14...	1200	15	3610	8.2	7.0	4.5	1100	900	--	230	120	450
MAR												
12...	1100	15	4370	8.3	10.5	7.0	1100	--	--	240	130	610
APR												
09...	1130	16	3290	8.3	20.0	15.0	970	--	790	190	120	430
MAY												
07...	1200	3.3	4550	8.2	14.0	7.5	1300	--	1200	300	140	670
JUN												
03...	1130	6.5	4280	8.1	23.0	17.0	1300	--	1100	280	140	610

DATE	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT										
08...	44	6.4	13	2000	570	.3	9.1	3870	5.3	38.6
NOV										
14...	48	6.0	8.3	1300	330	.4	6.9	2550	3.5	105
MAR										
12...	54	7.9	6.5	1400	600	.3	8.8	3110	4.2	127
APR										
09...	49	6.0	5.8	1200	310	.5	9.7	2380	3.2	99.6
MAY										
07...	52	8.0	9.2	1800	500	.4	8.0	3520	4.8	31.0
JUN										
03...	51	7.4	10	1800	470	.4	9.7	3420	4.7	59.6

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT			
08...	.31	.010	--
NOV			
14...	1.5	.010	--
MAR			
12...	1.2	.020	4.8
APR			
09...	1.2	.010	4.3
MAY			
07...	.65	.010	6.9
JUN			
03...	.87	--	7.5

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT		
08...	1130	330
NOV		
14...	1200	270
MAR		
12...	1100	300
APR		
09...	1130	270
MAY		
07...	1200	380
JUN		
03...	1130	420

09332700 MUDDY CREEK AT DELTA MINE, NEAR HANKSVILLE, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
NOV 14...	1200	15	4.5	344	14	--	--	--	--	--	--	--
MAR 12...	1100	15	7.0	669	27	--	--	--	--	--	--	--
APR 09...	1130	16	15.0	402	17	56	84	94	96	96	99	100
MAY 07...	1200	3.3	7.5	558	4.9	--	--	--	--	--	--	--
JUN 03...	1130	6.5	17.0	484	8.4	79	87	93	97	99	100	--

09333500 DIRTY DEVIL RIVER ABOVE POISON SPRING WASH, NEAR HANKSVILLE, UTAH

LOCATION.--Lat 38°05'50", long 110°24'27", in NE¼SW¼SE¼ sec.20, T.31 S., R.14 E., Garfield County, Hydrologic Unit 14070004, on right bank 0.25 mi (0.4 km) upstream from Poison Spring Wash and 25.5 mi (41.0 km) southeast of Hanksville.

DRAINAGE AREA.--4,159 mi^2 (10,772 km^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 and mercury manometer. Altitude of gage is 3,850 ft (1,173 m) from topographic map. Prior to July 15, 1964, at site 28 mi (45 km) downstream at different datum. July 15, 1964 to Dec. 14, 1976, approximately 1,200 ft (360 m) upstream at datum 4.83 ft (1.472 m) higher. Dec. 15, 1976 to Sept. 30, 1980 at site 400 ft (120 m) upstream at datum 4.28 ft (1.305 m) higher.

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

AVERAGE DISCHARGE.--33 years, 96.3 ft^3/s (2.727 m^3/s), 69,770 acre-ft/yr (86.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 35,000 ft^3/s (991 m^3/s) Nov. 4, 1957, gage height, 28.1 ft (8.56 m) from floodmarks, site and datum then in use, from rating curve extended above 9,000 ft^3/s (255 m^3/s) on basis of slope-area measurement at gage height 20.65 ft (6.294 m); no flow at times many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 2,700 ft^3/s (76.5 m^3/s), 18,300 ft^3/s (518 m^3/s) Sept. 6, gage height, 17.5 ft (5.337 m) from floodmarks; minimum, no flow Aug. 1-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	94	105	110	82	94	105	54	47	50	.00	9.0
2	66	96	102	115	92	128	105	56	50	43	.00	8.0
3	64	92	108	115	94	98	102	64	54	39	.00	9.0
4	62	92	110	115	94	96	100	54	50	35	.00	61
5	58	90	110	110	94	96	100	49	45	37	.00	300
6	58	88	100	105	94	138	100	47	50	19	.00	2700
7	58	88	110	105	94	98	98	43	26	9.0	.00	300
8	58	86	98	100	91	98	98	41	23	8.0	.00	160
9	64	82	98	100	100	97	98	45	21	10	.00	350
10	60	78	100	98	98	100	94	41	20	20	10	1500
11	74	86	100	94	98	130	90	40	19	30	30	400
12	78	90	96	94	94	110	83	38	17	45	50	250
13	80	98	96	94	104	120	80	37	17	500	40	100
14	98	98	100	92	106	135	78	35	20	160	39	70
15	86	94	100	96	100	160	76	40	21	40	90	86
16	84	96	100	96	98	120	74	50	22	12	45	35
17	82	96	100	96	98	110	71	43	20	7.0	27	28
18	82	94	98	96	98	100	70	42	17	10	30	32
19	76	98	98	96	96	102	69	40	18	5.2	35	34
20	74	100	98	110	96	102	66	45	18	3.7	45	42
21	66	105	100	120	94	100	64	42	18	2.2	60	26
22	69	110	100	130	96	100	64	40	20	2.7	99	31
23	72	126	100	129	96	98	62	38	21	3.5	50	33
24	74	130	98	128	96	98	62	37	23	3.0	60	27
25	69	100	100	120	94	98	60	36	25	5.0	35	31
26	88	105	98	110	118	112	58	50	29	6.2	40	26
27	90	105	98	100	108	120	56	68	40	3.2	50	23
28	94	110	100	98	94	125	56	130	50	4.0	40	25
29	96	110	100	98	---	113	54	60	300	3.1	25	24
30	90	110	100	110	---	128	52	52	90	5.0	15	23
31	94	---	105	100	---	107	---	54	---	1.5	10	---
TOTAL	2334	2947	3126	3280	2717	3431	2345	1511	1191	1122.3	925.00	6743.0
MEAN	75.3	98.2	101	106	97.0	111	78.2	48.7	39.7	36.2	29.8	225
MAX	98	130	110	130	118	160	105	130	300	500	99	2700
MIN	58	78	96	92	82	94	52	35	17	1.5	.00	8.0
AC-FT	4630	5850	6200	6510	5390	6810	4650	3000	2360	2230	1830	13370

CAL YR 1980 TOTAL 54734.50 MEAN 150 MAX 10000 MIN .00 AC-FT 108600
WTR YR 1981 TOTAL 31672.30 MEAN 86.8 MAX 2700 MIN .00 AC-FT 62820

09337000 PINE CREEK NEAR ESCALANTE, UTAH

LOCATION.--Lat 37°51'45", long 111°38'07", in SW¼NE¼SW¼ sec.12, T.34 S., R.2 E., Garfield County, Hydrologic Unit 14070005, on right bank 0.2 mi (0.3 km) upstream from unnamed right bank tributary and 7 mi (11 km) north of Escalante.

DRAINAGE AREA.--68.1 mi^2 (176 km^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 (1,951 m) from topographic map.

REMARKS.--Records good except those for winter periods, which are fair. No diversion above station. Some regulation from small reservoirs at headwaters.

AVERAGE DISCHARGE.--29 years, 4.43 ft^3/s (0.125 m^3/s), 3,210 acre-ft/yr (3.96 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,010 ft^3/s (28.6 m^3/s) Aug. 2, 1967, gage height, 7.72 ft (2.353 m), from rating curve extended above 35 ft^3/s (0.99 m^3/s) on basis of slope-area measurement at gage height 7.70 ft (2.347 m); no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 100 ft^3/s (2.83 m^3/s), and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
April 25	2130	168	4.76	4.07	1.24
July 13	1630	*713	20.2	6.71	2.04
Aug. 11	1400	117	3.31	3.30	1.00

Minimum daily, 1.4 ft^3/s (0.040 m^3/s) Nov. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	5.2	4.1	5.0	4.5	3.4	3.2	45	5.6	8.9	11	3.0
2	3.5	5.2	4.2	5.0	4.2	3.4	3.5	48	4.7	8.7	8.2	2.7
3	3.6	5.0	4.1	5.2	4.2	4.2	3.2	38	4.8	7.8	7.1	2.5
4	3.5	5.0	4.1	4.6	4.2	4.6	3.1	22	4.2	7.5	6.6	2.5
5	3.6	5.0	4.0	4.6	4.1	3.5	3.2	17	3.8	7.3	6.4	6.8
6	3.5	4.8	4.0	3.8	4.1	3.4	3.6	14	3.7	7.4	6.2	3.8
7	3.5	4.8	3.9	5.0	4.1	3.5	4.0	10	3.2	7.3	6.1	3.5
8	3.6	4.8	3.6	5.2	4.1	3.5	4.0	8.5	3.1	7.0	6.1	4.0
9	3.5	4.6	3.0	5.1	4.2	3.4	4.3	6.6	3.0	7.3	6.0	10
10	3.6	4.6	4.0	5.0	4.4	3.4	5.0	6.7	2.8	7.5	7.1	5.6
11	3.6	4.8	3.8	4.8	3.7	3.1	5.4	6.0	2.7	7.8	13	4.0
12	4.2	5.4	3.9	5.2	2.5	3.4	5.6	5.4	2.6	7.6	6.8	5.0
13	4.8	5.8	4.0	5.3	2.9	3.4	5.2	5.1	2.6	27	9.1	3.8
14	4.5	4.5	4.1	5.4	2.9	3.4	8.1	4.9	2.7	12	4.6	3.5
15	4.8	3.1	4.1	5.2	2.9	3.4	12	5.0	3.0	6.7	4.5	3.4
16	4.6	3.1	4.1	5.4	2.8	3.0	11	5.8	2.8	4.0	3.2	3.2
17	4.5	2.0	4.1	5.6	2.7	3.0	18	5.3	3.5	3.6	2.6	3.1
18	4.5	1.4	4.0	5.4	2.7	3.2	19	4.8	4.1	3.8	2.6	3.0
19	4.5	1.9	4.1	5.3	2.7	3.8	25	4.5	3.5	3.1	3.1	3.0
20	4.5	2.4	4.2	5.2	2.7	3.1	10	5.9	3.8	2.7	2.6	3.0
21	4.3	3.2	4.2	4.9	3.1	3.2	11	5.8	6.3	2.6	2.4	3.1
22	4.3	3.4	4.3	4.6	4.2	3.2	13	6.1	6.5	2.6	4.0	3.0
23	4.3	3.4	4.5	4.4	5.2	3.1	25	6.1	9.0	2.8	2.8	3.1
24	4.3	3.5	4.5	4.3	4.3	3.2	47	5.1	9.3	3.2	2.7	3.1
25	4.6	4.2	4.5	4.3	3.8	3.1	70	4.6	9.3	2.7	2.7	3.1
26	5.0	4.1	4.5	4.2	3.2	3.1	79	4.4	9.1	2.7	2.5	3.1
27	4.8	4.0	4.5	4.9	3.6	3.2	59	5.0	9.8	2.6	2.6	3.1
28	5.0	4.2	4.6	4.7	4.2	3.0	53	7.9	9.6	2.5	3.2	3.0
29	5.2	4.2	4.6	4.6	---	3.1	57	13	8.5	2.5	4.0	3.0
30	5.4	4.2	5.4	5.0	---	3.4	53	9.0	8.3	3.2	2.8	3.0
31	5.2	---	5.1	4.7	---	3.0	---	6.4	---	6.7	2.7	---
TOTAL	132.3	121.8	130.1	151.9	102.2	103.7	623.4	341.9	155.9	189.1	155.3	110.0
MEAN	4.27	4.06	4.20	4.90	3.65	3.35	20.8	11.0	5.20	6.10	5.01	3.67
MAX	5.4	5.8	5.4	5.6	5.2	4.6	79	48	9.8	27	13	10
MIN	3.5	1.4	3.0	3.8	2.5	3.0	3.1	4.4	2.6	2.5	2.4	2.5
AC-FT	262	242	258	301	203	206	1240	678	309	375	308	218

CAL YR 1980 TOTAL 2229.9 MEAN 6.09 MAX 56 MIN 1.4 AC-FT 4420
WTR YR 1981 TOTAL 2317.6 MEAN 6.35 MAX 79 MIN 1.4 AC-FT 4600

09337500 ESCALANTE RIVER NEAR ESCALANTE, UTAH

LOCATION.--Lat 37°46'41", long 111°34'26", in NE¼NW¼SE¼ sec.9, T.35 S., R.3 E., Garfield County, Hydrologic Unit 14070005, on left bank 150 ft (46 m) downstream from Pine Creek and 2 mi (3 km) northeast of Escalante.

DRAINAGE AREA.--320 mi^2 (829 km^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). WDR UT-73-1: 1972.

GAGE.--Water-stage recorder. Altitude of gage, 5,670 ft (1,728 m) from topographic map. Prior to Apr. 30, 1913, staff gage at approximately same site at different datum.

REMARKS.--Records poor except those for summer period, which are fair. Diversions above station for irrigation of about 2,300 acres (9.31 km^2) of crop and pastureland.

AVERAGE DISCHARGE.--25 years (1909-12, 1942-55, 1972-81), 15.0 ft^3/s (0.42 m^3/s), 10,870 acre-ft/yr (13.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,450 ft^3/s (97.7 m^3/s) Aug. 1953, day unknown, gage height, 9.9 ft (3.018 m) from outside high-water mark, from rating curve extended above 540 ft^3/s (15.3 m^3/s) on basis of slope-area measurements at gage heights, 5.50 ft (1.676 m) and 7.34 ft (2.237 m) from inside gage and 7.59 ft (2.313 m) from outside high-water mark, and logarithmic plotting; minimum 0.07 ft^3/s (0.002 m^3/s) Dec. 24, 1978, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 2,750 ft^3/s (77.9 m^3/s) July 13, gage height, about 8.5 ft (2.59 m) from outside high-water mark; minimum daily, 1.6 ft^3/s (0.045 m^3/s) Aug. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	8.6	9.2	14	8.5	7.5	6.2	84	6.5	6.5	13	7.4
2	7.6	8.6	9.3	14	8.5	7.4	6.3	74	4.8	15	32	6.9
3	7.6	8.7	9.4	14	8.3	7.3	6.4	69	5.0	7.8	19	7.8
4	7.5	8.7	9.8	14	8.3	7.1	6.4	50	4.8	5.0	7.8	5.1
5	7.5	8.7	9.9	14	8.2	6.9	6.5	30	3.7	3.7	4.2	77
6	7.5	8.6	9.9	15	8.2	6.2	6.6	14	3.5	3.7	3.9	79
7	7.5	8.6	9.9	15	8.2	5.8	6.6	9.4	3.2	3.7	3.9	40
8	7.6	8.6	9.8	15	8.2	5.8	6.6	6.0	3.5	3.7	3.0	20
9	7.6	8.6	9.7	15	8.2	5.8	6.6	5.2	3.5	11	3.0	73
10	7.6	8.6	8.6	15	7.5	5.8	6.8	5.2	3.7	2.7	6.5	40
11	7.7	8.8	8.8	15	7.0	5.9	7.2	5.6	4.5	1.9	14	22
12	8.4	8.8	9.5	15	7.2	5.9	7.8	5.2	4.5	2.5	8.8	52
13	8.6	8.7	9.6	15	7.3	5.9	8.2	5.0	4.2	59	15	27
14	8.7	8.5	9.9	15	7.4	5.9	8.5	4.7	3.9	50	34	9.9
15	8.6	7.8	11	14	7.5	6.0	9.8	4.4	4.2	18	8.3	9.9
16	8.5	6.8	11	14	7.4	6.0	11	4.7	4.2	8.8	1.9	7.4
17	8.4	6.6	12	14	7.4	6.0	15	4.8	3.9	8.3	1.9	5.8
18	8.3	7.2	12	13	7.5	5.9	18	4.9	3.0	10	1.8	5.0
19	8.2	7.8	12	13	7.5	5.9	26	4.8	3.0	5.8	2.3	4.8
20	8.2	8.2	12	12	7.5	5.9	15	6.5	2.8	4.8	2.0	4.5
21	8.2	8.3	12	12	8.3	5.9	10	5.8	2.8	4.5	2.5	4.8
22	8.2	8.4	12	11	9.4	5.9	10	14	3.0	4.8	3.9	4.5
23	8.1	8.5	12	11	8.4	5.9	17	4.5	3.0	6.5	9.9	4.2
24	8.1	8.6	12	10	8.0	6.0	38	2.7	2.8	3.7	6.1	4.2
25	8.4	8.9	12	9.8	7.0	6.0	59	2.9	2.5	2.7	3.2	4.2
26	9.8	9.0	12	9.8	7.8	6.0	70	3.9	2.3	2.2	1.6	3.9
27	9.0	9.1	13	8.5	7.7	6.1	56	3.7	2.5	2.5	2.0	3.2
28	8.7	9.2	13	8.6	7.7	6.2	51	5.0	6.9	1.9	16	4.2
29	8.7	9.2	13	8.3	---	6.2	56	10	18	2.3	12	3.7
30	8.7	9.2	13	8.5	---	6.2	59	7.8	6.1	2.7	6.9	3.9
31	8.7	---	14	8.5	---	6.1	---	5.8	---	3.7	6.5	---
TOTAL	253.8	253.9	341.3	391.0	220.1	191.4	617.5	463.5	130.3	269.4	256.9	545.3
MEAN	8.19	8.46	11.0	12.6	7.86	6.17	20.6	15.0	4.34	8.69	8.29	18.2
MAX	9.8	9.2	14	15	9.4	7.5	70	84	18	59	34	79
MIN	7.5	6.6	8.6	8.3	7.0	5.8	6.2	2.7	2.3	1.9	1.6	3.2
AC-FT	503	504	677	776	437	380	1220	919	258	534	510	1080

CAL YR 1980 TOTAL 5320.7 MEAN 14.5 MAX 270 MIN 1.6 AC-FT 10550
WTR YR 1981 TOTAL 3934.4 MEAN 10.8 MAX 84 MIN 1.6 AC-FT 7800

09368000 SAN JUAN RIVER AT SHIPROCK, NM
(National stream-quality accounting network, surveillance network, and radio chemical network station)

LOCATION.--Lat 36°47'32", long 108°43'54", in NW¼ sec.27, T.30 N., R.18 W., San Juan County, Hydrologic Unit 14080105, on left bank 3 mi (5 km) west of Shiprock, 6 mi (10 km) downstream from Chaco River, and at mile 215.0 (345.9 km).

DRAINAGE AREA.--12,900 mi^2 (33,400 km^2), approximately.

WATER-DISCHARGE RECORDS

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 (1,477.878 m) 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 (5 km) upstream at different datum. Oct. 26, 1933, to Sept. 30, 1936, water-stage recorder at present site at datum 3.31 ft (1.01 m) higher and Oct. 1, 1936, to Sept. 30, 1952, at datum 1.77 ft (0.54 m) higher. Supplementary water-stage recorders at nearby sites, same datum, used at times.

REMARKS.--Records good except those for September, which are fair, and those for July, which are poor. Since 1962 flow partly regulated by Navajo Reservoir (station 09355100). Diversions for irrigation of about 118,000 acres (480 km^2) 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.--55 years (water years 1927-81), 2,176 ft^3/s (61.62 m^3/s), 1,577,000 acre-ft/yr (1.94 km^3/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD (SINCE 1927).--Maximum discharge, about 80,000 ft^3/s (2,270 m^3/s) Aug. 11, 1929, gage height, 5.7 ft (1.73 m), site and datum then in use; minimum daily, 8 ft^3/s (0.23 m^3/s) Aug. 25, 26, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood occurred Oct. 6, 1911, and reached a stage of 22 ft (6.7 m), site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,450 ft^3/s (154 m^3/s) July 2, gage height, 6.12 ft (1.865 m), no peak above base of 6,000 ft^3/s (170 m^3/s); minimum daily, 231 ft^3/s (6.54 m^3/s) May 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1030	1600	1880	2070	1250	888	540	1120	2660	2020	730	800
2	1010	1620	1820	2080	1270	936	447	1820	2570	4000	690	832
3	1490	1630	1820	2080	1330	1000	449	1850	2730	2000	650	848
4	1490	1650	1790	2070	1360	984	469	2410	3530	1600	600	888
5	1440	1720	1830	2090	1380	920	482	2100	2580	1400	580	1130
6	1210	1790	1690	2090	1380	921	469	1600	2770	1200	615	2020
7	445	1830	1290	2100	1400	918	447	1260	3580	950	594	1480
8	534	1800	942	2060	1380	919	397	1020	4020	800	483	1620
9	969	1820	704	2050	1450	914	404	925	4140	700	494	1660
10	957	1850	653	2050	1470	941	377	772	3900	700	571	1350
11	970	1790	596	2010	1430	1020	330	620	3400	1100	879	1290
12	953	1760	607	2010	1450	1020	314	548	2990	1600	1180	1220
13	509	1760	684	2100	1440	1010	364	476	2580	1700	1270	1230
14	964	1730	967	2090	1460	1010	353	376	2130	2800	1130	1280
15	1120	1890	1420	2050	1480	1110	362	231	1740	2700	965	1360
16	1310	1990	1590	2020	1510	1070	410	338	1270	3300	887	1470
17	1370	1980	1610	2030	1520	995	425	669	1030	2500	824	1320
18	1430	1970	1660	2030	1490	1020	401	682	982	1900	830	1390
19	1420	1910	1690	1980	1270	989	695	566	1000	1500	904	1410
20	1360	1850	1870	1980	1160	999	760	485	818	1200	787	1330
21	1330	1950	2050	2020	1180	1030	692	603	818	1000	776	1310
22	1280	1960	2080	2020	1160	1010	619	659	825	700	697	1290
23	1240	1920	2080	1680	1150	997	561	606	783	600	660	1290
24	1330	1930	2110	1360	1140	976	604	580	673	500	669	1310
25	1400	1950	2150	1320	1110	988	610	510	519	520	713	1310
26	1470	1950	2140	1300	1140	791	744	579	465	600	805	1310
27	1580	1940	2060	1300	1040	541	918	734	529	800	760	1300
28	1600	1950	2060	1300	896	654	910	984	663	1450	822	1270
29	1650	1900	2050	1290	---	591	835	1730	687	1200	768	1270
30	1640	1870	2060	1260	---	559	881	2270	757	900	800	1230
31	1600	---	2050	1260	---	561	---	2240	---	800	808	---
TOTAL	38101	55260	50003	57150	36696	28282	16269	31363	57139	44740	23941	38818
MEAN	1229	1842	1613	1844	1311	912	542	1012	1905	1443	772	1294
MAX	1650	1990	2150	2100	1520	1110	918	2410	4140	4000	1270	2020
MIN	445	1600	596	1260	896	541	314	231	465	500	483	800
AC-FT	75570	109600	99180	113400	72790	56100	32270	62210	113300	88740	47490	77000

CAL YR 1980 TOTAL 974065 MEAN 2661 MAX 10400 MIN 445 AC-FT 1932000
WTR YR 1981 TOTAL 477762 MEAN 1309 MAX 4140 MIN 231 AC-FT 947600

09372200 McELMO CREEK NEAR BLUFF, UTAH

LOCATION.--Lat 37°13'13", long 109°11'05", in SW¼NW¼SW¼ sec.16, T.41 S., R.25 E., San Juan County, Hydrologic Unit 14080201, 0.5 mi (0.80 km) upstream from mouth, 0.25 mi (0.40 km) north of Aneth Utah Trading Post and 21 mi (33.8 km) southeast of Bluff, Utah.

DRAINAGE AREA.--721 mi^2 (1,870 km^2).

PERIOD OF RECORD.--Oct. 1, 1980 to September 1981.

GAGE.--Water-stage recorder and water-quality mini-monitor. Altitude of gage is 6,200 ft (1,890 m) from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 573 ft^3/s (16.2 m^3/s) July 12, gage height, 2.87 ft (0.875 m); minimum daily discharge, 5.8 ft^3/s (0.16 m^3/s) Apr. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	50	63	72	48	44	28	20	193	50	120	16
2	38	50	60	70	49	43	24	20	137	143	120	18
3	38	48	60	70	50	43	17	22	98	135	116	16
4	35	48	60	72	52	45	19	36	127	103	106	15
5	38	49	58	68	52	42	14	34	119	91	93	16
6	38	49	63	64	52	43	14	24	122	76	83	60
7	41	50	79	62	52	42	12	25	110	66	74	55
8	42	49	74	64	56	42	10	20	113	56	75	45
9	46	49	72	66	50	38	9.0	19	110	51	77	40
10	44	49	70	68	44	31	8.8	23	106	152	75	50
11	46	48	70	66	46	42	8.6	26	95	174	81	45
12	47	48	73	62	46	44	8.0	28	83	299	116	43
13	46	45	72	66	47	44	7.6	32	79	245	146	41
14	46	47	74	62	48	45	7.2	36	75	190	87	40
15	43	44	77	60	48	47	7.0	32	73	257	55	43
16	46	46	76	60	48	48	6.6	31	76	230	31	41
17	56	48	76	56	48	50	6.2	108	88	138	34	42
18	56	47	76	58	49	48	5.8	160	71	141	16	40
19	60	47	76	58	46	47	6.8	125	62	111	13	38
20	54	46	72	60	46	46	6.6	113	59	95	13	37
21	52	51	72	60	42	45	7.2	125	60	89	11	35
22	49	52	74	56	43	47	11	113	54	75	11	33
23	49	51	74	58	44	44	34	108	55	79	12	33
24	48	60	72	56	45	43	33	106	49	63	13	34
25	49	58	72	53	46	43	28	104	41	63	12	33
26	48	58	76	49	46	45	22	95	32	70	11	39
27	47	57	74	49	45	38	16	100	31	68	12	38
28	47	60	72	49	43	36	14	93	38	79	12	37
29	48	63	74	52	---	39	13	120	38	108	14	36
30	50	65	72	50	---	37	18	135	37	111	17	35
31	50	---	72	48	---	33	---	169	---	120	20	---
TOTAL	1435	1532	2205	1864	1331	1324	422.4	2202	2431	3728	1676	1094
MEAN	46.3	51.1	71.1	60.1	47.5	42.7	14.1	71.0	81.0	120	54.1	36.5
MAX	60	65	79	72	56	50	34	169	193	299	146	60
MIN	35	44	58	48	42	31	5.8	19	31	50	11	15
AC-FT	2850	3040	4370	3700	2640	2630	838	4370	4820	7390	3320	2170

WTR YR 1981 TOTAL 21244.4 MEAN 58.2 MAX 299 MIN 5.8 AC-FT 42140

09378100 NORTH CREEK ABOVE RANGER STATION, NEAR MONTICELLO, UTAH

LOCATION.--Lat 37°52'23", long 109°21'57", in SE¼SW¼ sec.26, T.33 S., R.23 E., San Juan County, Hydrologic Unit 14080203, on left bank 0.50 mi (0.80 km) northwest of Baker Ranger Station, 1.3 mi (2.1 km) west of Monticello.

DRAINAGE AREA.--8.68 mi^2 (22.5 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 7,180 ft (2,180 m) above mean sea level.

REMARKS.--Records good. Diversions above the gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 69 ft^3/s (1.95 m^3/s) May 11, 1980, gage height, 5.99 ft (1.826 m); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.95 ft^3/s (0.027 m^3/s) June 4, gage height, 4.08 ft (1.244 m), no peak above base of 30 ft^3/s (0.85 m^3/s); minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.07	.04	.17	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.07	.04	.07	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.07	.07	.11	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.07	.07	.32	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.07	.07	.43	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.07	.07	.44	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.07	.13	.48	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.07	.13	.41	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.07	.13	.03	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.07	.13	.02	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.07	.13	.02	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.07	.13	.02	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.07	.13	.01	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.07	.20	.01	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.07	.13	.34	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.07	.20	.51	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.07	.20	.06	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.07	.20	.02	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.07	.20	.02	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.07	.20	.02	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.07	.20	.02	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.07	.27	.03	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.07	.20	.03	.00	.00	.00
24	.00	.00	.00	.00	.00	.07	.07	.20	.03	.00	.00	.00
25	.00	.00	.00	.00	.00	.07	.06	.20	.03	.00	.00	.00
26	.00	.00	.00	.00	.00	.07	.04	.20	.02	.00	.00	.00
27	.00	.00	.00	.00	.00	.13	.04	.20	.02	.00	.00	.00
28	.00	.00	.00	.00	.00	.13	.04	.14	.01	.00	.00	.00
29	.00	.00	.00	.00	---	.13	.04	.13	.01	.00	.00	.00
30	.00	.00	.00	.00	---	.13	.04	.13	.00	.00	.00	.00
31	.00	---	.00	.00	---	.13	---	.22	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.86	1.94	4.69	3.71	.00	.00	.00
MEAN	.000	.000	.000	.000	.000	.028	.065	.15	.12	.000	.000	.000
MAX	.00	.00	.00	.00	.00	.13	.07	.27	.51	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.04	.04	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	1.7	3.8	9.3	7.4	.00	.00	.00

CAL YR 1980 TOTAL 1345.86 MEAN 3.68 MAX 44 MIN .00 AC-FT 2670
WTR YR 1981 TOTAL 11.20 MEAN .031 MAX .51 MIN .00 AC-FT 22

09378200 MONTEZUMA CREEK AT GOLF COURSE, AT MONTICELLO, UTAH

LOCATION.--Lat 37°51'38", long 109°20'30", in SW¼SE¼ sec.36, T.33 S., R.23 E., San Juan County, Hydrologic Unit 14080203, on left bank 1,000 ft (305 m) west of Highway 163, 0.85 mi (1.37 km) south of Monticello.

DRAINAGE AREA.--17.6 mi^2 (45.6 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 6,900 ft (2,103 m) above mean sea level.

REMARKS.--Records poor. There is a diversion 3/4 mile above gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 259 ft^3/s (7.33 m^3/s) May 11, 1980, gage height, 7.31 ft (2.228 m); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6.2 ft^3/s (0.18 m^3/s) July 16, gage height, 6.00 ft (1.829 m), no peak above base of 100 ft^3/s (2.83 m^3/s); minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.10	.08	.20	.07	.00	.22
2	.00	.00	.00	.00	.00	.00	.10	.08	.15	.03	.00	.21
3	.00	.00	.00	.00	.00	.00	.10	.10	.10	.01	.00	.18
4	.00	.00	.00	.00	.00	.00	.10	.25	.36	.00	.00	.17
5	.00	.00	.00	.00	.00	.00	.10	.10	.46	.00	.00	.20
6	.00	.00	.00	.00	.00	.00	.10	.10	.47	.00	.00	.38
7	.00	.00	.00	.00	.00	.00	.10	.18	.50	.00	.00	.22
8	.00	.00	.00	.00	.00	.00	.10	.18	.45	.00	.00	.22
9	.00	.00	.00	.00	.00	.00	.10	.18	.41	.00	.00	.22
10	.00	.00	.00	.00	.00	.00	.20	.18	.20	.00	.00	.24
11	.00	.00	.00	.00	.00	.00	.59	.18	.20	.00	.00	.23
12	.00	.00	.00	.00	.00	.00	.52	.18	.15	.00	.00	.30
13	.00	.00	.00	.00	.00	.00	.44	.18	.10	.50	.00	.32
14	.00	.00	.00	.00	.00	.00	.44	.25	.10	.35	.00	.25
15	.00	.00	.00	.00	.00	.30	1.9	.20	.37	2.3	.59	.25
16	.00	.00	.00	.00	.00	.50	1.4	.25	.53	2.0	.44	.22
17	.00	.00	.00	.00	.00	.20	1.2	.25	.20	.52	.30	.22
18	.00	.00	.00	.00	.00	.15	1.2	.25	.10	.35	.22	.22
19	.00	.00	.00	.00	.00	.10	1.7	.25	.10	.20	.30	.22
20	.00	.00	.00	.00	.00	.10	1.3	.25	.10	.13	.22	.22
21	.00	.00	.00	.00	.00	.10	.82	.25	.10	.09	.22	.17
22	.00	.00	.00	.00	.00	.10	.59	.30	.10	.00	.37	.15
23	.00	.00	.00	.00	.00	.10	.10	.25	.15	.00	.30	.17
24	.00	.00	.00	.00	.00	.15	.10	.25	.15	.00	.22	.21
25	.00	.00	.00	.00	.00	.15	.09	.25	.15	.00	.22	.22
26	.00	.00	.00	.00	.00	.15	.08	.25	.15	.00	.26	.21
27	.00	.00	.00	.00	.00	.18	.08	.25	.15	.00	.20	.15
28	.00	.00	.00	.00	.00	.18	.08	.19	.10	.00	.25	.15
29	.00	.00	.00	.00	---	.18	.08	.18	.10	.00	.37	.15
30	.00	.00	.00	.00	---	.18	.08	.18	.09	.00	.22	.17
31	.00	---	.00	.00	---	.18	---	.27	---	.00	.22	---
TOTAL	.00	.00	.00	.00	.00	3.00	13.89	6.29	6.49	6.55	4.92	6.46
MEAN	.000	.000	.000	.000	.000	.097	.46	.20	.22	.21	.16	.22
MAX	.00	.00	.00	.00	.00	.50	1.9	.30	.53	2.3	.59	.38
MIN	.00	.00	.00	.00	.00	.00	.08	.08	.09	.00	.00	.15
AC-FT	.00	.00	.00	.00	.00	6.0	28	12	13	13	9.8	13

CAL YR 1980 TOTAL 4695.50 MEAN 12.8 MAX 220 MIN .00 AC-FT 9310
WTR YR 1981 TOTAL 47.60 MEAN .13 MAX 2.3 MIN .00 AC-FT 94

09378630 RECAPTURE CREEK NEAR BLANDING, UTAH

LOCATION.--Lat 37°45'20", long 109°28'33", in NW¼NE¼NW¼ sec.11, T.35 S., R.22 E., San Juan County, Hydrologic Unit 14080201, on right bank 100 ft (30 m) below road fork, 1.9 mi (3.1 km) north of Manti-LaSal National Forest boundary, and 9.4 mi (15.1 km) north of Blanding.

DRAINAGE AREA.--3.77 mi^2 (9.76 km^2).

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

GAGE.--Water-stage recorder. Altitude of gage is 7,200 ft (2,195 m) from topographic map.

REMARKS.--Records fair except those for winter period and those of no gage-height record, Mar. 11 to Apr. 21 and June 10 to July 21, which are poor.

AVERAGE DISCHARGE.--16 years, 1.33 ft^3/s (0.038 m^3/s), 964 acre-ft/yr (1.19 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 142 ft^3/s (4.02 m^3/s) Oct. 20, 1972, gage height, 2.14 ft (0.653 m); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4.20 ft^3/s (0.119 m^3/s) Mar. 14; minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	1.7	.60	.24	.01	.00
2	.00	.00	.00	.00	.00	.00	.00	1.7	.50	.15	.01	.00
3	.00	.00	.00	.00	.00	.00	.00	1.6	.62	.06	.01	.00
4	.00	.00	.00	.00	.00	.00	.00	1.4	.40	.06	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.90	.28	.06	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.69	.19	.06	.00	.01
7	.00	.00	.00	.00	.00	.00	.00	.46	.23	.06	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.27	.19	.06	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.18	.19	.14	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.16	.19	.10	.00	.01
11	.00	.00	.00	.00	.00	.40	.00	.37	.16	.24	.02	.01
12	.00	.00	.00	.00	.00	2.1	.00	.11	.16	.36	.02	.01
13	.00	.00	.00	.00	.00	1.5	.00	.10	.14	.20	.02	.01
14	.00	.00	.00	.00	.00	4.2	.80	.11	.14	.34	.01	.00
15	.00	.00	.00	.00	.00	3.1	2.1	.13	.12	.50	.02	.00
16	.00	.00	.00	.00	.00	1.3	1.1	.16	.12	.52	.01	.00
17	.00	.00	.00	.00	.00	.80	.90	.80	.10	.60	.01	.00
18	.00	.00	.00	.00	.00	.30	1.3	.40	.10	.20	.01	.00
19	.00	.00	.00	.00	.00	.20	3.3	.32	.10	.10	.00	.00
20	.00	.00	.00	.00	.00	.10	2.2	.30	.10	.06	.00	.00
21	.00	.00	.00	.00	.00	.05	1.9	.28	.08	.03	.01	.00
22	.00	.00	.00	.00	.00	.00	1.9	.26	.08	.01	.01	.00
23	.00	.00	.00	.00	.00	.00	1.9	.24	.08	.01	.00	.00
24	.00	.00	.00	.00	.00	.00	2.1	.22	.08	.01	.00	.00
25	.00	.00	.00	.00	.00	.00	2.0	.22	.08	.01	.00	.00
26	.00	.00	.00	.00	.00	.00	2.6	.20	.08	.01	.01	.00
27	.00	.00	.00	.00	.00	.00	2.8	.18	.08	.01	.00	.00
28	.00	.00	.00	.00	.00	.00	2.2	.70	.08	.01	.00	.00
29	.00	.00	.00	.00	---	.00	1.9	.60	.26	.01	.00	.00
30	.00	.00	.00	.00	---	.00	1.9	.60	.10	.01	.00	.00
31	.00	---	.00	.00	---	.00	---	.75	---	.01	.00	---
TOTAL	.00	.00	.00	.00	.00	14.05	32.90	16.11	5.63	4.24	.18	.05
MEAN	.000	.000	.000	.000	.000	.45	1.10	.52	.19	.14	.006	.002
MAX	.00	.00	.00	.00	.00	4.2	3.3	1.7	.62	.60	.02	.01
MIN	.00	.00	.00	.00	.00	.00	.00	.10	.08	.01	.00	.00
AC-FT	.00	.00	.00	.00	.00	28	65	32	11	8.4	.4	.10

CAL YR 1980 TOTAL 1397.20 MEAN 3.82 MAX 50 MIN .00 AC-FT 2770
WTR YR 1981 TOTAL 73.16 MEAN .20 MAX 4.2 MIN .00 AC-FT 145

09378650 RECAPTURE CREEK BELOW JOHNSON CREEK, NEAR BLANDING, UTAH

LOCATION.--Lat 37°40'51", long 109°27'43", in NW¼NE¼ sec.2, T.36 S., R.22 E., San Juan County, Hydrologic Unit 14080201, on left bank 0.2 mi (0.3 km) downstream from Johnson Creek, 1.5 mi (2.4 km) upstream from U.S. Highway 163 and 4.3 mi (6.9 km) northwest of Blanding.

DRAINAGE AREA.--50.2 mi^2 (130.0 km^2).

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,120 ft (1,865 m) from topographic map.

REMARKS.--Records fair except those of no gage-height record, Mar. 15 to Apr. 21 and June 11 to July 21, which are poor.

AVERAGE DISCHARGE.--6 years, 9.52 ft^3/s (0.270 m^3/s), 6,900 acre-ft/yr (8.51 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 695 ft^3/s (19.7 m^3/s) Mar. 14, 1981, gage height, 5.67 ft (1.728 m); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 230 ft^3/s (6.51 m^3/s), 695 ft^3/s (19.7 m^3/s) Mar. 14, gage height, 5.67 ft (1.728 m); minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	9.9	.10	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	12	.07	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	12	.05	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	8.0	.05	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	6.0	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	5.8	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	5.0	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	3.6	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	2.4	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	2.2	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	4.1	.00	3.2	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	7.1	.00	2.0	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	6.8	.20	1.8	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	11	1.2	2.0	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	8.9	6.2	2.5	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	5.2	5.0	3.0	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	1.4	3.4	4.1	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	1.0	4.6	2.2	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.40	7.5	1.8	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.20	4.9	1.2	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.10	3.1	.80	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.10	2.7	.60	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.10	2.2	.40	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	3.0	.30	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	2.7	.30	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	5.9	.25	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	11	.20	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	10	.50	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	9.5	.23	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	9.5	.23	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.27	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	46.40	92.60	94.78	.27	.00	.00	.00
MEAN	.000	.000	.000	.000	.000	1.50	3.09	3.06	.009	.000	.000	.000
MAX	.00	.00	.00	.00	.00	11	11	12	.10	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.20	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	92	184	188	.5	.00	.00	.00

CAL YR 1980	TOTAL	7163.19	MEAN 19.6	MAX 180	MIN .00	AC-FT	14210
WTR YR 1981	TOTAL	234.05	MEAN .64	MAX 12	MIN .00	AC-FT	464

09378700 COTTONWOOD WASH NEAR BLANDING, UTAH

LOCATION.--Lat 37°33'38", long 109°34'41", in SW¼NE¼NW¼ 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 (3.4 km) downstream from Brushy Basin Canyon, and 7.0 mi (11.3 km) southwest of Blanding.

DRAINAGE AREA.--205 mi^2 (531 km^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 (1,565.980 m) NGVD of 1929. Prior to October 1964, crest-stage gage only, at site 300 ft (91 m) upstream at different datum; October 1964 to July 13, 1966, at site 50 ft (15 m) upstream at different datum. July 14, 1966 to Aug. 15, 1968, at same site at different datum.

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

AVERAGE DISCHARGE.--17 years, 8.64 ft^3/s (0.245 m^3/s), 6,260 acre-ft/yr (7.72 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,500 ft^3/s (581 m^3/s) Aug. 1, 1968, gage height, 20.68 ft (6.303 m); no flow during some periods each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 884 ft^3/s (25.0 m^3/s) Sept. 1, gage height, 4.24 ft (1.292 m), no peak above base of 900 ft^3/s (25.5 m^3/s); minimum, no flow Oct. 1-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	1.8	3.5	2.4	2.1	4.2	4.4	1.8	10	.39	.09	2.1
2	.00	1.8	3.3	2.8	2.2	4.4	4.2	1.6	4.1	.09	.09	5.2
3	.00	1.8	3.5	2.6	2.3	4.2	4.5	4.0	5.4	.09	.09	1.2
4	.00	1.8	2.6	3.0	2.5	4.2	4.7	2.9	12	.09	.09	.50
5	.00	1.8	2.5	2.6	2.5	4.4	3.6	2.4	2.8	.09	.09	8.8
6	.00	1.8	2.5	2.4	2.5	4.6	3.7	2.5	.58	.09	.09	3.1
7	.00	1.8	2.5	2.2	2.5	4.6	3.6	2.3	.12	.09	.09	1.4
8	.00	1.8	2.5	2.6	2.5	4.8	3.1	1.4	.12	.09	.09	.80
9	.00	2.0	2.5	2.8	2.5	5.0	3.1	.86	.12	.09	.09	.28
10	.00	2.4	2.5	3.0	2.0	5.8	3.1	.86	.12	.09	.09	.58
11	.00	2.4	2.5	3.2	2.0	11	3.1	.87	.12	1.2	12	.35
12	.00	2.4	2.5	3.4	2.0	13	2.8	1.1	.12	3.4	11	.20
13	.21	2.8	2.5	3.2	2.3	9.6	3.1	.77	.12	.85	4.2	.20
14	1.7	3.0	2.6	3.0	2.6	16	4.6	.62	.12	16	6.2	.20
15	2.2	2.6	2.8	3.2	3.0	15	32	.37	.12	24	7.4	.20
16	3.7	2.8	3.0	3.2	3.6	9.5	11	4.5	.12	28	2.8	.18
17	1.6	2.6	3.4	3.4	4.0	8.3	8.8	8.2	.12	65	1.2	.18
18	.87	2.4	3.3	3.2	4.0	6.6	15	7.1	.12	49	.85	.18
19	.86	2.8	3.0	3.4	4.0	5.8	42	6.6	.12	10	.20	.18
20	.86	3.0	2.8	3.4	4.0	6.6	14	6.4	.12	5.1	.18	.18
21	.85	3.2	3.0	3.4	3.6	6.5	7.9	5.8	.12	1.2	.15	.15
22	.85	3.0	3.5	3.4	3.4	5.0	7.0	5.4	.12	.13	.20	.15
23	.85	3.4	3.1	3.4	3.6	5.0	5.0	5.4	.12	.09	.19	.15
24	2.5	4.2	2.8	3.4	3.8	4.9	4.6	4.5	.12	.09	.17	.15
25	.81	3.6	2.6	3.2	3.8	4.2	3.9	4.2	.12	.09	.17	.15
26	1.2	3.2	2.8	3.0	3.4	4.4	2.9	4.2	.12	.09	.22	.12
27	3.8	3.6	2.4	3.0	3.2	4.5	2.4	3.8	.12	.09	.29	.12
28	2.7	3.8	3.0	3.0	4.0	7.5	2.9	16	.12	.09	.12	.12
29	1.8	4.0	2.6	2.8	---	7.2	2.3	10	1.3	.09	11	.12
30	1.8	3.8	2.4	2.6	---	6.3	1.8	10	.10	.09	2.4	.12
31	1.8	---	2.6	2.0	---	5.3	---	37	---	.09	4.3	---
TOTAL	30.96	81.4	87.1	92.2	83.9	208.4	215.1	163.45	38.92	205.89	66.14	27.36
MEAN	1.00	2.71	2.81	2.97	3.00	6.72	7.17	5.27	1.30	6.64	2.13	.91
MAX	3.8	4.2	3.5	3.4	4.0	16	42	37	12	65	12	8.8
MIN	.00	1.8	2.4	2.0	2.0	4.2	1.8	.37	.10	.09	.09	.12
AC-FT	61	161	173	183	166	413	427	324	77	408	131	54

CAL YR 1980	TOTAL	7516.21	MEAN 20.5	MAX 438	MIN .00	AC-FT	14910
WTR YR 1981	TOTAL	1300.82	MEAN 3.56	MAX 65	MIN .00	AC-FT	2580

09379500 SAN JUAN RIVER NEAR BLUFF, UTAH

LOCATION.--Lat 37°08'49", long 109°51'51", in SE¼NE¼NW¼ sec.7, T.42 S., R.19 E., San Juan County, Hydrologic Unit 14080205, on left bank 1,600 ft (490 m) downstream from Gypsum Creek, 1,800 ft (550 m) upstream from highway bridge, 20 mi (32 km) southwest of Bluff, at mile 113.5 (182.6 km).

DRAINAGE AREA.--23,000 mi^2 (60,000 km^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 (1,234 m) from levels of Topographic Division, USGS. Prior to Mar. 16, 1927, chain gages at sites about 1,700 ft (520 m) downstream at different datums.

REMARKS.--Records good. Diversions for irrigation of approximately 200,000 acres (80,900 hm^3) 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.--67 years, 2,538 ft^3/s (71.88 m^3/s), 1,839,000 acre-ft/yr (2.27 km^3/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--1914-17, 1927-81; maximum discharge, 70,000 ft^3/s (1,980 m^3/s) Sept. 10, 1927, gage height, 32.0 ft (9.75 m) from rating curve extended above 31,000 ft^3/s (878 m^3/s) and slope-area measurement at gage height 26.62 ft (8.114 m); 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.--Maximum discharge and peak above base of 8,000 ft^3/s (227 m^3/s), 9,260 ft^3/s (262 m^3/s) July 17, gage height, 9.95 ft (3.033 m); minimum, 453 ft^3/s (12.8 m^3/s) May 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1180	1690	1780	2050	1450	980	685	859	2120	770	866	1390
2	1150	1680	1770	2050	1460	923	673	972	2390	1690	804	1030
3	1100	1660	1740	2040	1420	959	643	1350	2350	3240	817	960
4	1220	1640	1720	2020	1420	1020	571	1710	2450	1900	749	964
5	1460	1660	1700	2040	1420	1060	572	1860	2900	1610	681	1060
6	1430	1670	1710	2020	1430	980	603	1860	2390	1450	601	3960
7	1330	1730	1480	2020	1460	969	606	1460	2300	1280	525	2280
8	1070	1710	1030	2040	1450	985	586	1260	2870	1070	600	1740
9	633	1690	840	2010	1470	986	569	1050	3230	925	605	1530
10	900	1690	700	2000	1510	977	540	931	3370	1270	537	1970
11	1110	1700	660	2020	1510	980	535	928	3240	1120	689	1600
12	1130	1680	660	2010	1470	1020	503	774	2960	1630	926	1490
13	1160	1670	800	2040	1460	1110	471	675	2740	2350	1670	1420
14	1090	1710	1100	2100	1470	1110	462	617	2570	3930	1470	1350
15	976	1680	1500	2090	1470	1110	535	552	2220	3330	1350	1440
16	1340	1740	1640	2050	1490	1150	528	518	1890	4340	1140	1410
17	1530	1810	1700	2060	1490	1190	537	459	1560	4670	1070	1420
18	1650	1800	1710	2050	1500	1100	544	626	1310	3260	944	1320
19	1630	1800	1720	2040	1470	1090	674	893	1110	2210	883	1280
20	1730	1840	1750	2060	1410	1070	694	815	1130	1870	923	1260
21	1590	1730	1830	2010	1180	1040	886	727	1060	1500	903	1220
22	1590	1800	1980	1960	1160	1030	865	690	921	1250	827	1190
23	1540	1840	1980	1950	1160	1040	792	780	903	981	832	1160
24	1540	1820	1980	1790	1150	970	736	793	888	865	751	1180
25	1550	1850	1980	1420	1150	946	704	753	814	743	728	1170
26	1620	1850	1990	1400	1120	926	698	695	704	774	698	1280
27	1580	1820	2000	1460	1140	967	704	648	572	801	718	1270
28	1640	1820	2010	1430	1150	728	833	725	524	995	812	1240
29	1670	1840	2060	1430	---	652	969	912	580	1480	762	1200
30	1680	1790	2050	1460	---	793	901	1370	670	1190	930	1150
31	1690	---	2030	1460	---	720	---	2120	---	976	867	---
TOTAL	42509	52410	49600	58580	38440	30581	19619	30382	54736	55470	26678	42934
MEAN	1371	1747	1600	1890	1373	986	654	980	1825	1789	861	1431
MAX	1730	1850	2060	2100	1510	1190	969	2120	3370	4670	1670	3960
MIN	633	1640	660	1400	1120	652	462	459	524	743	525	960
AC-FT	84320	104000	98380	116200	76250	60660	38910	60260	108600	110000	52920	85160

CAL YR 1980 TOTAL 1102569 MEAN 3012 MAX 9400 MIN 633 AC-FT 2187000
WTR YR 1981 TOTAL 501939 MEAN 1375 MAX 4670 MIN 459 AC-FT 995600

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 1976.
WATER TEMPERATURES: May 1944 to September 1961, October 1964 to current year.
SUSPENDED-SEDIMENT DISCHARGE: July 1929 to September 1980 (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 (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 (14,240,000 tonnes) Oct. 20, 1972; minimum daily, 0 tons (0 tonnes) on several days in 1934 and 1939.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,560 micromhos July 2; minimum daily, 460 micromhos Sept. 1.
WATER TEMPERATURES: Maximum daily, 29.0°C June 29; minimum daily, 0.5°C Dec. 23, Jan. 19, 30.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	NITRO-GEN DIS-SOLVED (MG/L AS N)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT 22...	1300	1600	740	7.8	16.0	9.5	170	9.4	.82	33
NOV 18...	1315	1730	650	8.1	5.0	2.0	25	12.5	1.0	--
DEC 16...	1300	1380	820	8.0	11.0	3.0	27	12.2	.99	15
JAN 27...	1300	1520	620	7.9	5.5	2.0	12	11.8	1.3	6
FEB 24...	1300	1090	670	8.1	11.5	7.0	12	10.0	.68	<1
MAR 24...	1330	990	820	7.9	19.0	12.5	720	9.1	1.4	32
APR 28...	1230	840	880	8.0	24.5	18.0	130	8.6	1.1	20
MAY 26...	1300	730	860	8.2	25.5	19.5	200	8.1	1.2	18
JUN 23...	1200	856	610	8.2	38.0	25.5	23	7.6	1.2	10
JUL 28...	1200	893	820	7.9	34.0	25.0	800	7.1	1.0	230
AUG 25...	1145	720	700	7.7	33.5	25.0	410	7.4	1.2	170
SEP 23...	1200	1130	640	7.8	26.5	20.0	180	7.6	.99	130

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L 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 22...	100	260	140	--	71	19	46	28	1.3	2.8
NOV 18...	--	230	120	--	61	18	49	32	1.4	2.5
DEC 16...	16	330	200	--	87	27	69	31	1.7	2.9
JAN 27...	12	230	140	--	64	18	51	32	1.5	2.3
FEB 24...	<1	260	150	--	70	21	58	32	1.6	2.3
MAR 24...	340	290	--	180	79	22	73	35	1.9	2.5
APR 28...	27	320	--	180	85	25	76	34	1.9	2.9
MAY 26...	48	340	--	210	94	26	68	30	1.6	3.5
JUN 23...	60	230	--	130	64	16	45	30	1.3	1.9
JUL 28...	--	290	--	160	80	22	60	31	1.6	3.4
AUG 25...	190	240	--	130	68	16	56	34	1.7	3.2
SEP 23...	280	240	--	120	71	16	46	29	1.4	2.6

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WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 22...	120	220	15	.4	8.3	484	456	.66	2080
NOV 18...	110	210	12	.2	7.1	434	427	.59	2030
DEC 16...	130	320	20	.3	6.1	645	613	.88	2390
JAN 27...	100	220	13	.3	8.7	434	439	.59	1780
FEB 24...	110	240	17	.2	4.5	485	480	.66	1430
MAR 24...	110	280	19	.4	9.1	550	555	.75	1470
APR 28...	140	310	18	.4	5.4	636	609	.86	1440
MAY 26...	130	310	18	.4	5.8	638	606	.87	1260
JUN 23...	100	210	14	.3	6.2	419	418	.57	968
JUL 28...	130	260	17	.4	10	580	533	.79	1400
AUG 25...	110	220	12	.5	10	482	454	.66	937
SEP 23...	120	210	14	.5	11	442	445	.60	1350

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	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)
OCT 22...	.010	.010	.01	.01	--	--	1.5	.48	1.50	1.0	.49
NOV 18...	.000	.000	.00	.00	--	--	.94	.82	.94	.12	.82
DEC 16...	.020	.020	.02	.03	--	--	.47	.33	.49	.14	.35
JAN 27...	.020	.030	.02	.04	.88	.86	.86	.83	.88	.02	.86
FEB 24...	.050	.000	--	.00	--	--	.60	.57	.65	.08	.57
MAR 24...	.080	.080	--	.10	--	--	1.4	.48	1.50	.94	.56
APR 28...	.050	.050	--	.06	--	--	1.2	.58	1.20	.57	.63
MAY 26...	.060	.100	--	.13	--	--	1.1	.61	1.20	.49	.71
JUN 23...	.070	.020	--	.03	--	--	.71	1.1	.78	.00	1.1
JUL 28...	.470	.240	--	.31	--	--	1.1	.37	1.60	.99	.61
AUG 25...	.120	.110	--	.14	--	--	1.4	.53	1.50	.86	.64
SEP 23...	.100	.100	--	.13	--	--	.65	.48	.75	.17	.58

DATE	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (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)	POTASSIUM 40 DISSOLVED (PCI/L AS K40)
OCT 22...	1.8	.33	.33	8.1	.090	.28	.030	--	--	--
NOV 18...	1.2	.22	.21	5.1	.040	.12	.030	--	--	--
DEC 16...	1.2	.66	.64	5.1	.110	.34	.020	--	--	--
JAN 27...	1.3	.40	.43	5.7	.060	.18	.020	--	--	1.7
FEB 24...	.72	.07	.11	3.2	.160	.49	.030	--	--	1.7
MAR 24...	2.3	.80	.84	10	.320	.98	.060	--	--	1.9
APR 28...	1.7	.46	.46	7.3	.230	.71	.030	.000	.00	2.2
MAY 26...	1.6	.44	.47	7.3	.380	1.2	.030	--	--	2.6
JUN 23...	.81	.03	.07	3.6	.090	.28	.010	--	--	1.4
JUL 28...	2.0	.38	.42	8.8	.700	2.1	.010	--	--	--
AUG 25...	2.0	.51	.51	8.9	.370	1.1	.050	--	--	--
SEP 23...	1.1	.39	.41	5.0	.050	.15	.010	--	--	--

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WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)
NOV 18...	1315	2	1	1	100	10	90	4	--	<1	0
FEB 24...	1300	2	1	1	200	100	70	0	0	2	10
MAY 26...	1300	4	2	2	200	0	200	0	--	<1	20
AUG 25...	1145	3	1	2	300	200	140	0	--	<1	20

DATE	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	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)
NOV 18...	0	0	1	<3	5	4	1	1500	1500	10	9
FEB 24...	10	0	1	<3	4	3	1	400	--	<10	12
MAY 26...	20	0	1	<3	11	8	3	5200	--	<10	9
AUG 25...	20	0	36	<3	27	16	11	13000	--	<10	15

DATE	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	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)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)
NOV 18...	8	1	80	80	2	.1	.1	.0	3	2
FEB 24...	11	1	30	30	3	.1	.1	.0	2	1
MAY 26...	6	3	180	180	1	.2	.0	.2	8	6
AUG 25...	14	1	450	450	2	.1	.1	.0	32	29

DATE	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)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV 18...	1	3	1	2	0	0	0	20	0	30
FEB 24...	1	3	0	3	2	2	0	30	0	30
MAY 26...	2	5	0	5	0	0	0	50	10	40
AUG 25...	3	3	0	3	1	1	0	90	50	38

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
OCT 22...	1300	8.7	--	--
NOV 18...	1315	--	3.0	.8
DEC 16...	1300	8.8	--	--
FEB 24...	1300	--	4.5	1.2
MAR 24...	1330	9.8	--	--
APR 28...	1230	6.8	--	--
MAY 26...	1300	--	9.0	2.7
JUN 23...	1200	10	--	--
JUL 28...	1200	11	--	--
AUG 25...	1145	--	3.4	3.5
SEP 23...	1200	8.5	--	--

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PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	NOV 18,80	MAR 24,81	MAY 26,81	JUN 23,81	JUL 28,81	SEP 23,81
TIME	1315	1330	1300	1200	1200	1200
TOTAL CELLS/ML	4300	4300	7800	60000	7100	2300
DIVERSITY: DIVISION	0.6	0.9	0.8	0.7	1.4	1.6
.CLASS	0.6	0.9	0.8	0.7	1.4	1.6
..ORDER	0.8	1.1	1.5	1.4	2.2	2.6
...FAMILY	2.9	2.5	2.8	1.5	2.5	3.7
....GENUS	2.9	2.5	3.0	1.5	2.6	4.0

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...CHLOROCOCCACEAE												
....SCHROEDERIA	--	-	--	-	--	-	930	2	--	-	--	-
...DICTYOSPHAERIACEAE												
....DICTYOSPHAERIUM	--	-	--	-	500	6	--	-	--	-	--	-
...HYDRODICTYACEAE												
....PEDIASTRUM	--	-	--	-	--	-	--	-	--	-	220	10
...OOCYSTACEAE												
....ANKISTRODESMUS	--	-	--	-	56	1	470	1	--	-	14	1
....CHODATELLA	69	2	--	-	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	470	1	700	10	--	-
...SCENEDESMACEAE												
....ACTINASTRUM	--	-	--	-	--	-	--	-	--	-	110	5
....COELASTRUM	--	-	--	-	1300a	17	--	-	--	-	--	-
....SCENEDESMUS	--	-	--	-	--	-	--	-	560	8	220	10
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	35	1	34	1	56	1	5100	9	980	14	270	11
..ZYGNEMATALES												
...DESMIDIACEAE												
....STAURASTRUM	--	-	--	-	--	-	--	-	--	-	14	1
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...BIDDULPHIACEAE												
....BIDDULPHIA	--	-	--	-	--	-	--	-	--	-	28	1
...COSCINODISCACEAE												
....CYCLOTELLA	--	-	34	1	1300a	17	42000a	70	980	14	70	3
....MELOSIRA	69	2	--	-	390	5	--	-	280	4	--	-
..PENNALES												
...ACHNANTHACEAE												
....COCCONEIS	--	-	34	1	--	-	--	-	--	-	42	2
....RHOICOSPHENIA	100	2	170	4	220	3	--	-	--	-	--	-
...CYMBELLACEAE												
....CYMBELLA	310	7	130	3	56	1	470	1	--	-	28	1
....RHOPALODIA	--	-	--	-	--	-	--	-	--	-	14	1
...DIATOMACEAE												
....DIATOMA	690a	16	710a	16	56	1	--	-	--	-	98	4
...FRAGILARIACEAE												
....FRAGILARIA	140	3	--	-	--	-	--	-	--	-	--	-
....SYNEDRA	69	2	100	2	--	-	--	-	--	-	14	1
...GOMPHONEMATACEAE												
....GOMPHONEMA	210	5	100	2	110	1	--	-	--	-	28	1
...NAVICULACEAE												
....NAVICULA	1400a	31	2000a	47	1700a	22	--	-	140	2	170	7
...NITZSCHIACEAE												
....NITZSCHIA	800<	19	--	-	1200a	16	8400	14	2400a	33	150	7
...SURIRELLACEAE												
....SURIRELLA	35	1	67	2	780	10	--	-	--	-	28	1
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....ANACYSTIS	--	-	--	-	--	-	1900	3	1100a	16	200	8
..NOSTOCALES												
...HAMMATOIDEACEAE												
....RAPHIDIOPSIS	--	-	--	-	--	-	--	-	--	-	98	4
...NOSTOCACEAE												
....ANABAENA	--	-	--	-	--	-	--	-	--	-	200	8
....APHANIZOMENON	--	-	--	-	--	-	--	-	--	-	210	9
...RIVULARIACEAE												
....CALOTHRIX	--	-	340	8	--	-	--	-	--	-	--	-
..OSCILLATORIALES												
...OSCILLATORIACEAE												
....OSCILLATORIA	420	10	540	13	--	-	--	-	--	-	84	4
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....EUGLENA	--	-	--	-	--	-	--	-	--	-	14	1
....TRACHELOMONAS	--	-	34	1	--	-	--	-	--	-	--	-

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organism, may or may not have been counted: Less than 1/2 percent.

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	670	660	667	640	630	639	620	610	619
2	---	---	---	670	660	665	650	630	640	620	610	619
3	---	---	---	670	650	664	650	640	645	620	610	619
4	---	---	---	670	660	660	650	640	644	620	610	618
5	---	---	---	670	650	661	650	640	645	620	610	619
6	---	---	---	670	650	659	650	640	642	630	610	620
7	---	---	---	660	650	654	650	640	645	630	620	621
8	---	---	---	650	650	650	650	640	645	620	610	620
9	---	---	---	660	650	650	650	640	645	630	620	620
10	---	---	---	660	640	650	660	640	652	620	610	617
11	---	---	---	650	640	646	710	660	685	620	610	618
12	---	---	---	650	640	643	740	710	724	630	610	614
13	---	---	---	650	630	630	740	720	735	630	610	615
14	---	---	---	---	620	620	740	730	736	620	610	614
15	---	---	---	600	600	600	750	740	743	620	600	612
16	---	---	---	600	490	586	750	740	747	630	610	613
17	---	---	---	610	600	603	750	730	744	620	610	612
18	---	---	---	650	620	620	730	680	706	630	610	614
19	---	---	---	650	640	648	690	650	664	630	610	614
20	---	---	---	650	640	643	650	640	645	620	610	616
21	---	---	---	640	630	640	650	630	639	620	610	618
22	---	---	---	640	630	640	640	630	639	620	610	619
23	---	---	---	640	620	635	640	630	636	630	610	621
24	---	---	---	640	620	638	640	630	633	630	610	621
25	---	---	---	650	630	639	630	620	629	630	610	623
26	---	---	---	650	640	645	630	620	624	630	620	625
27	---	---	---	650	640	642	630	620	622	630	620	629
28	610	590	595	650	630	643	630	610	620	650	630	638
29	670	---	---	650	630	638	620	610	619	670	650	655
30	680	660	670	640	630	637	620	610	619	680	480	646
31	680	660	670	---	---	---	620	610	617	680	480	653
MONTH	---	---	---	670	490	641	750	610	660	680	480	622
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	680	670	678	737	717	729	939	919	932	910	890	898
2	690	670	682	740	720	730	960	930	944	920	900	905
3	690	680	688	744	734	737	961	941	951	930	910	921
4	700	680	688	767	747	753	963	933	953	920	890	903
5	690	680	689	780	770	774	964	934	957	890	870	883
6	690	680	688	794	784	789	975	935	959	890	850	863
7	690	680	684	817	787	799	966	946	961	850	780	815
8	690	680	685	831	811	824	977	947	967	780	760	773
9	690	680	684	844	824	837	978	948	971	770	760	768
10	700	680	687	847	827	839	989	949	974	800	770	781
11	700	690	695	851	841	843	990	951	974	810	790	798
12	700	680	696	834	774	801	992	972	982	830	800	811
13	700	690	696	798	778	787	993	963	981	840	820	829
14	700	690	696	811	791	799	994	974	984	840	820	830
15	700	690	691	834	814	822	995	975	988	840	820	831
16	690	680	688	838	818	831	1010	966	990	840	830	837
17	690	680	688	831	801	816	1010	967	993	840	830	837
18	700	690	693	815	805	809	1010	988	996	900	830	847
19	700	680	689	838	808	826	1010	980	997	930	890	908
20	690	680	683	851	821	836	1000	921	970	940	920	932
21	690	680	682	835	805	819	942	912	933	910	900	905
22	680	670	674	818	808	814	963	933	948	910	890	907
23	680	670	674	822	812	815	984	954	965	920	910	917
24	680	670	676	825	720	814	965	875	913	920	890	899
25	683	673	679	831	811	819	887	867	877	890	870	882
26	687	677	681	832	822	829	878	858	871	890	---	---
27	710	490	687	833	823	828	879	859	867	876	856	866
28	734	703	719	835	825	829	920	850	877	897	857	878
29	---	---	---	836	816	829	900	880	888	887	867	875
30	---	---	---	907	837	875	900	890	895	878	868	873
31	---	---	---	928	908	919	---	---	---	878	868	875
MONTH	734	490	687	928	717	812	1010	850	949	940	760	862

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	879	859	869	---	---	---	781	771	779	880	460	620
2	879	859	867	1560	681	1500	797	777	787	500	480	495
3	880	860	868	1530	1390	1470	782	772	778	540	510	524
4	860	850	853	1380	1220	1290	777	687	726	560	550	554
5	861	841	844	1220	1180	1200	813	713	772	570	560	568
6	841	821	833	1240	1200	1220	918	828	871	570	550	564
7	842	822	830	1280	1240	1260	964	923	944	590	580	582
8	832	822	828	1290	1270	1280	989	959	975	610	590	599
9	833	813	824	1290	1260	1270	1000	964	990	610	590	607
10	823	793	804	1260	1210	1240	1010	1000	1010	630	600	617
11	804	784	788	1210	1160	1190	1020	995	1010	640	620	631
12	784	774	781	1160	1150	1160	1020	940	979	650	640	642
13	785	775	782	1170	1150	1160	956	926	938	660	640	653
14	795	775	786	1170	1130	1150	961	941	954	670	640	655
15	786	776	783	1140	1090	1110	956	936	949	660	640	648
16	786	776	781	1080	1030	1060	932	882	900	660	640	647
17	787	750	760	1030	1000	1010	887	827	852	660	640	652
18	787	770	740	1010	992	999	832	802	822	660	650	653
19	778	700	720	1010	993	997	818	788	805	670	640	654
20	788	678	765	995	975	985	803	783	793	670	630	647
21	789	650	680	976	936	957	808	788	796	650	630	641
22	799	650	660	937	907	922	794	764	773	650	630	639
23	800	630	630	908	888	896	779	759	774	650	640	633
24	651	611	629	900	870	883	765	625	667	651	631	640
25	643	613	629	861	771	821	710	630	672	652	642	644
26	---	---	---	832	712	748	700	670	700	653	623	644
27	---	---	---	744	664	694	710	670	700	654	644	649
28	---	---	---	855	705	760	710	700	707	655	646	653
29	---	---	---	795	765	773	800	720	766	667	647	655
30	---	---	---	791	771	782	760	720	734	658	638	652
31	---	---	---	786	776	780	900	750	823	---	---	---
MONTH	880	611	773	1560	664	1050	1020	625	831	880	460	622

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	9.0	7.5	8.5	4.5	3.0	3.5	4.0	3.5	3.5
2	---	---	---	9.5	8.0	9.0	4.5	3.0	4.0	4.0	3.0	3.5
3	---	---	---	9.5	8.5	9.0	5.5	4.5	5.0	4.5	3.5	4.0
4	---	---	---	10.0	8.5	9.5	5.5	4.5	5.0	5.0	3.5	4.5
5	---	---	---	10.5	9.0	10.0	6.0	5.0	5.5	4.5	4.0	4.5
6	---	---	---	10.5	9.5	10.5	6.5	5.5	6.0	4.5	3.5	4.0
7	---	---	---	10.5	9.5	10.0	6.5	5.5	6.0	4.0	3.0	3.0
8	---	---	---	10.5	9.5	10.0	5.5	4.5	5.0	3.0	2.0	2.5
9	---	---	---	10.0	9.0	9.5	5.0	4.0	4.5	2.5	1.5	2.0
10	---	---	---	9.5	8.5	9.5	4.0	2.5	3.0	2.5	1.5	2.0
11	---	---	---	10.0	8.5	9.0	3.0	1.5	2.0	3.0	2.0	2.5
12	---	---	---	10.5	9.0	10.0	2.5	1.5	2.0	3.5	3.0	3.0
13	---	---	---	---	9.5	10.0	3.0	2.0	2.5	5.0	3.5	4.5
14	---	---	---	---	---	8.5	3.0	1.5	2.5	4.5	3.5	4.0
15	---	---	---	---	---	7.0	3.5	1.5	2.5	4.0	2.5	3.5
16	---	---	---	6.5	5.5	5.5	4.0	2.5	3.0	3.5	2.5	3.0
17	---	---	---	5.0	3.5	4.0	4.0	3.0	3.5	4.0	2.5	3.5
18	---	---	---	3.5	2.0	2.5	4.0	3.5	4.0	4.0	2.5	3.5
19	---	---	---	3.0	1.5	2.5	4.5	3.5	4.0	4.5	.5	3.5
20	---	---	---	2.5	1.5	2.5	4.0	3.5	4.0	4.5	3.5	4.0
21	---	---	---	2.5	1.5	2.0	4.0	3.5	4.0	4.5	3.5	4.0
22	---	---	---	3.0	2.0	2.5	5.0	4.0	4.5	4.5	3.0	4.0
23	---	---	---	4.0	2.0	3.0	5.0	.5	4.5	4.0	2.5	3.5
24	---	---	---	5.5	4.0	4.5	4.5	4.0	4.5	4.0	2.5	3.5
25	---	---	---	5.0	3.5	4.5	4.0	3.5	4.0	4.0	2.5	3.5
26	---	---	---	4.5	3.5	4.0	4.0	3.0	3.5	3.5	2.5	3.0
27	---	---	---	4.0	3.0	3.5	4.5	3.5	4.0	3.5	2.0	2.5
28	8.0	8.0	8.0	4.0	2.5	3.0	4.5	3.5	4.0	4.0	3.0	3.5
29	8.0	6.5	7.5	4.0	2.5	3.5	4.5	3.5	4.0	5.0	3.5	4.5
30	8.5	7.0	7.5	4.0	3.5	3.5	4.5	3.5	4.0	5.0	.5	4.0
31	9.0	7.5	8.0	---	---	---	4.0	3.5	4.0	3.0	2.0	2.5
MONTH	---	---	---	10.5	1.5	6.5	6.5	.5	4.0	5.0	.5	3.5

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.0	1.5	2.5	9.5	8.0	9.0	13.0	9.0	11.0	23.5	19.5	21.5
2	2.5	1.5	2.5	9.0	8.5	8.5	13.5	10.5	12.0	23.0	20.0	21.0
3	2.5	1.5	2.0	9.5	7.0	8.5	11.5	8.5	10.0	20.5	19.0	20.0
4	3.0	1.5	2.0	9.5	7.0	8.5	11.0	7.5	9.0	19.0	17.0	18.0
5	3.0	1.5	2.5	10.0	8.0	9.0	12.0	7.0	10.0	18.5	17.5	18.0
6	3.0	2.0	2.5	10.0	8.5	9.0	14.0	9.5	11.5	18.0	16.5	17.0
7	3.5	2.0	3.0	9.5	8.0	9.0	15.0	11.5	13.5	17.5	15.0	16.5
8	4.0	2.5	3.0	10.5	7.5	9.0	16.5	12.0	14.0	16.5	15.0	15.5
9	4.5	4.0	4.0	10.5	8.0	9.5	17.5	13.0	15.5	16.5	13.5	15.0
10	4.5	3.5	4.0	11.5	9.5	10.5	18.0	14.0	15.5	18.0	14.0	16.5
11	3.5	2.0	2.5	11.0	9.5	10.0	17.0	13.0	15.0	18.5	16.0	17.5
12	4.0	1.5	2.5	10.5	8.0	9.5	16.5	13.5	14.5	17.5	15.5	16.5
13	5.0	3.0	4.0	10.5	8.5	9.5	19.0	13.5	16.0	19.0	15.0	17.0
14	6.0	4.0	5.0	10.5	9.5	10.0	17.0	15.0	16.0	21.0	16.0	18.0
15	7.0	5.0	6.0	11.0	8.5	10.0	17.5	12.5	15.0	18.0	15.5	16.5
16	7.5	6.0	7.0	11.5	10.0	10.5	19.5	14.5	17.0	15.5	12.5	14.0
17	8.0	6.5	7.5	11.0	9.0	10.0	21.0	17.0	18.5	17.0	11.5	14.5
18	8.5	7.0	8.0	9.5	7.5	8.5	20.0	17.5	18.5	19.5	14.5	17.0
19	9.0	7.5	8.5	9.0	7.5	8.5	18.0	15.5	16.5	18.5	17.5	18.0
20	10.0	8.5	9.0	9.0	7.5	8.5	17.0	14.5	15.5	17.5	14.0	16.0
21	8.0	6.5	7.0	9.0	5.5	7.5	17.5	14.0	16.0	16.5	12.5	14.5
22	7.0	5.0	6.0	10.5	7.5	9.0	18.0	15.0	16.5	19.0	15.0	17.0
23	7.5	5.0	6.0	12.0	9.0	10.5	19.0	15.0	17.0	19.5	17.0	18.0
24	8.0	5.5	7.0	13.0	10.5	11.5	20.0	16.0	18.0	20.5	16.5	18.5
25	8.5	6.5	7.5	12.5	10.0	11.5	21.0	17.5	19.0	20.5	18.5	19.5
26	8.5	7.0	7.5	12.5	10.5	11.5	20.5	17.0	18.5	19.5	18.5	19.0
27	7.5	6.0	7.0	11.0	8.5	9.5	19.5	16.5	18.0	22.0	17.0	19.5
28	9.0	6.5	8.0	10.0	8.0	9.0	21.0	16.5	18.5	22.5	19.0	20.5
29	---	---	---	12.5	8.0	10.0	21.5	18.0	20.0	21.5	19.5	20.5
30	---	---	---	11.5	9.0	10.5	22.0	18.5	20.5	22.0	18.5	20.5
31	---	---	---	11.0	7.5	9.5	---	---	---	21.0	20.0	20.5
MONTH	10.0	1.5	5.0	13.0	5.5	9.5	22.0	7.0	15.5	23.5	11.5	18.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.5	19.0	20.0	25.5	23.0	24.0	27.0	24.0	25.0	23.0	20.5	22.0
2	22.0	20.0	21.0	26.0	21.5	24.0	27.0	23.0	25.0	23.5	21.0	22.0
3	21.5	20.0	20.5	25.0	22.5	23.5	27.0	23.5	25.0	24.5	21.5	23.0
4	21.0	18.5	20.0	24.5	22.5	23.5	27.0	23.5	25.5	23.5	21.5	22.5
5	22.0	19.5	21.0	25.5	22.5	24.0	27.0	23.0	25.0	22.5	20.5	21.5
6	23.0	20.0	21.5	26.5	23.5	25.0	28.0	22.5	25.0	21.5	17.5	19.5
7	24.0	21.5	23.0	27.0	24.5	25.5	27.5	23.0	25.0	22.0	20.0	21.0
8	24.0	21.5	23.0	26.5	23.5	25.0	28.0	23.0	25.5	22.0	20.5	21.0
9	24.0	21.5	23.0	27.5	24.0	25.5	27.5	24.0	25.5	22.0	19.5	21.0
10	23.5	21.5	22.5	26.0	23.0	25.0	24.0	21.5	23.0	21.5	19.5	20.5
11	23.5	21.0	22.5	27.0	24.0	25.5	24.5	20.0	22.0	21.0	19.0	20.5
12	22.5	20.5	21.5	26.5	24.5	25.5	23.5	20.0	22.0	22.5	20.0	21.0
13	21.5	19.0	20.5	25.0	23.5	24.5	22.5	21.0	21.5	22.5	20.5	21.5
14	20.5	17.5	19.0	25.5	23.0	24.5	23.0	20.0	21.5	22.5	20.0	21.5
15	19.5	16.5	18.0	25.5	23.5	24.5	24.5	21.0	22.5	22.5	20.0	21.5
16	20.0	17.0	18.5	24.5	23.0	23.5	25.0	22.0	23.5	22.5	20.0	21.5
17	21.5	18.0	20.0	25.5	21.0	23.5	25.5	22.5	24.0	22.5	20.0	21.5
18	23.0	19.5	21.5	25.5	22.5	24.0	25.5	22.0	24.0	22.0	20.0	21.0
19	24.0	21.0	22.5	26.0	24.0	25.0	26.0	22.5	24.5	22.0	20.0	21.0
20	25.0	21.5	23.5	26.5	24.0	25.0	26.5	22.5	24.5	21.5	19.5	20.5
21	25.5	22.5	24.0	27.0	24.0	25.5	26.5	23.5	24.5	21.5	19.5	20.5
22	27.0	23.0	25.0	27.0	23.5	25.5	24.5	21.5	22.5	21.5	19.0	20.5
23	27.0	24.0	25.5	27.0	24.0	25.5	25.5	21.5	23.5	20.5	19.5	20.0
24	27.5	23.5	25.5	27.5	24.0	25.5	26.0	23.5	24.5	21.0	18.5	20.0
25	28.5	24.5	26.5	27.0	23.5	25.5	26.5	23.0	24.5	20.5	18.5	19.5
26	28.5	24.0	26.0	26.5	23.5	25.0	26.5	22.5	24.5	19.5	17.0	18.5
27	28.0	24.0	25.5	26.5	22.5	25.0	27.0	22.5	24.5	19.0	16.5	18.0
28	28.5	23.5	25.5	27.5	23.5	25.5	26.0	22.5	24.0	19.0	17.0	18.0
29	29.0	24.0	26.0	26.5	24.0	25.0	26.0	22.0	24.0	19.5	17.5	18.5
30	27.5	24.5	26.0	26.5	23.5	25.0	24.5	22.5	23.5	19.0	17.0	18.0
31	---	---	---	27.5	24.0	25.5	23.0	21.5	22.0	---	---	---
MONTH	29.0	16.5	22.5	27.5	21.0	25.0	28.0	20.0	24.0	24.5	16.5	20.5

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT						
22...	1300	1600	9.5	1070	--	4610
NOV						
18...	1315	1730	2.0	208	68	972
DEC						
16...	1300	1380	3.0	125	70	464
JAN						
27...	1300	1520	2.0	90	51	369
FEB						
24...	1300	1090	7.0	27	64	79
MAR						
24...	1330	990	12.5	1070	100	2860
APR						
28...	1230	840	18.0	380	95	862
MAY						
26...	1300	730	19.5	480	95	946
JUN						
23...	1200	856	25.5	159	74	367
JUL						
28...	1200	893	25.0	1650	88	3980
AUG						
25...	1145	720	25.0	880	98	1710
SEP						
23...	1200	1130	20.0	834	86	2550

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 (270 m) upstream from bridge on U.S. Highway 89, 1.4 mi (2.3 km) downstream from Wahweap Creek, 2 mi (3 km) northwest of Page, and 12 mi (19 km) downstream from Utah-Arizona State line.

DRAINAGE AREA.--111,700 mi^2 (289,300 km^2), approximately, including 3,959 mi^2 (10,254 km^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 (33,300 hm^3), consisting of the following: Dead storage, 1,998,000 acre-ft (2,460 hm^3) below elevation 3,370 ft (1,027 m)--sill of outlet gates; usable contents, 25,002,000 acre-ft (30,800 hm^3) between elevations 3,370 ft (1,027 m) and 3,700 ft (1,128 m)--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, 25,099,000 acre-ft (30,900 hm^3) June 28, 1980, elevation, 3,700.61 ft (1,127.946 m); minimum since power pool level was reached (Aug. 16, 1964), 4,166,000 acre-ft (5,140 hm^3) Mar. 18, 1965, elevation, 3,490.76 ft (1,063.984 m).

EXTREMES (at 2400) FOR CURRENT YEAR.--Maximum contents, 23,079,000 acre-ft (28,500 hm^3) Oct. 1, elevation, 3,687.76 ft (1,124.029 m); minimum, 20,751,000 acre-ft (25,600 hm^3) Sept. 30, elevation, 3,671.96 ft (1,119.213 m).

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

3,670	20,474,000	3,685	22,662,000
3,675	21,187,000	3,690	23,424,000
3,680	21,916,000		

RESERVOIR STORAGE, IN THOUSANDS OF ACRE FEET, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23079	22724	22322	22110	21830	21499	21583	21512	21607	21995	21569	20939
2	23069	22723	22310	22119	21809	21640	21580	21518	21623	21984	21548	20920
3	23060	22715	22301	22103	21784	21642	21566	21516	21652	21987	21518	20906
4	23054	22707	22292	22097	21765	21646	21569	21518	21676	21983	21493	20900
5	23038	22697	22278	22076	21759	21658	21570	21513	21700	21978	21468	21041
6	23020	22679	22254	22063	21744	21651	21563	21521	21730	21962	21455	20903
7	22997	22664	22244	22063	21734	21654	21570	21531	21762	21947	21417	20946
8	22974	22646	22226	22048	21719	21655	21564	21538	21788	21936	21393	20943
9	22953	22640	22210	22041	21709	21651	21560	21560	21816	21916	21374	20928
10	22929	22626	22185	22033	21700	21654	21559	21569	21849	21894	21349	20932
11	22913	22614	22162	22027	21686	21652	21557	21580	21883	21872	21325	20958
12	22906	22594	22146	22020	21674	21652	21551	21588	21914	21891	21307	20910
13	22895	22575	22138	22021	21671	21652	21550	21582	21942	21865	21291	20905
14	22865	22557	22134	22021	21662	21645	21544	21572	21978	21862	21274	20890
15	22838	22534	22124	22013	21652	21652	21543	21572	22001	21871	21264	20886
16	22825	22512	22128	22008	21649	21648	21540	21575	22018	21856	21255	20872
17	22824	22495	22130	21993	21648	21651	21534	21569	22036	21850	21228	20853
18	22830	22476	22125	21976	21648	21640	21531	21563	22036	21853	21212	20839
19	22836	22458	22107	21961	21651	21632	21535	21550	22044	21847	21195	20835
20	22829	22435	22095	21947	21646	21621	21531	21543	22051	21828	21173	20829
21	22819	22417	22095	21939	21648	21618	21531	21534	22052	21824	21153	20819
22	22813	22399	22092	21934	21649	21621	21522	21543	22050	21799	21144	20806
23	22797	22383	22098	21915	21651	21614	21522	21544	22044	21781	21120	20798
24	22782	22363	22090	21919	21655	21611	21515	21545	22042	21753	21102	20782
25	22768	22345	22095	21916	21652	21604	21515	21547	22038	21734	21079	20776
26	22760	22334	22097	21908	21645	21597	21515	21547	22030	21721	21062	20772
27	22756	22338	22100	21899	21639	21594	21509	21554	22030	21696	21034	20774
28	22744	22338	22103	21887	21635	21595	21509	21548	22026	21670	21012	20768
29	22742	22334	22103	21883	---	21592	21515	21550	22020	21642	20999	20761
30	22738	22332	22106	21871	---	21588	21512	21572	22005	21610	20983	20751
31	22732	---	22104	21852	---	21585	---	21586	---	21591	20962	---
MAX	23079	22724	22322	22119	21830	21658	21583	21588	22052	21995	21569	21041
MIN	22732	22332	22090	21852	21635	21499	21509	21512	21607	21591	20962	20751
(†)	3685.47	3682.81	3681.28	3679.57	3678.09	3677.75	3677.25	3677.76	3680.61	3677.79	3673.44	3671.96
(‡)	-351,000	-400,000	-228,000	-252,000	-217,000	-50,000	-73,000	+74,000	+419,000	-414,000	-629,000	-211,000

CAL YR 1980 . . . . . (‡) +251,000
WTR YR 1981 . . . . . (‡) -2,332,000

(†) Elevation, in feet, at end of month.
(‡) Change in contents, in acre-feet.

09380000 COLORADO RIVER AT LEES FERRY, AZ
(National stream-quality accounting network and pesticide station)

LOCATION.--Lat 36°51'53", long 111°35'15", in NE¼SE¼ sec. 13, T.40 N., R.7 E., Coconino County, Hydrologic Unit 14070006, in Navajo Indian Reservation, on left bank at head of Marble Gorge at Lees Ferry, just upstream from Paria River, 16 mi (26 km) downstream from Glen Canyon Dam, 28 mi (45 km) downstream from Utah-Arizona State line, and 61.5 mi (99.0 km) upstream from Little Colorado River.

DRAINAGE AREA.--111,800 mi^2 (289,600 km^2), approximately, including 3,959 mi^2 (10,254 km^2) in Great Divide basin in southern Wyoming which is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1895 to current year. Calendar year estimates and monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 859: 1921-23. WSP 1313: 1914-21.

GAGE.--Water-stage recorder. Datum of gage is 3,106.16 ft (946.758 m) NGVD of 1929. Prior to Jan. 19, 1923, non-recording gages or reference points within 400 ft (120 m) of present gage, at different datums.

REMARKS.--Water-discharge record excellent. Flow completely regulated by Lake Powell 16 mi (26 km) upstream since Mar. 13, 1963. Many diversions above Lake Powell for irrigation, municipal, and industrial use. No diversions or inflow between Lake Powell and the gage.

AVERAGE DISCHARGE.--51 years (water years 1912-62), 17,850 ft^3/s (505.5 m^3/s), 12,923,000 acre-ft/yr (15,900 hm^3/yr); 17 years (water years 1965-81), 12,220 ft^3/s (346.1 m^3/s), 8,853,000 acre-ft/yr (10,900 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 220,000 ft^3/s (6,230 m^3/s) June 18, 1921, gage height, 26.5 ft (8.08 m), from floodmarks, from rating curve extended above 120,000 ft^3/s (3,400 m^3/s) on basis of discharge computed for station near Grand Canyon; minimum daily, 700 ft^3/s (19.8 m^3/s) Jan. 23, 24, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1868, about 300,000 ft^3/s (8,500 m^3/s) July 7, 1884, gage height, 31.5 ft (9.60 m), present site and datum, from floodmark at mouth of Paria River, from rating curve extended above 120,000 ft^3/s (3,400 m^3/s) on basis of discharge computed for flood of June 18, 1921, for station near Grand Canyon.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,900 ft^3/s (733 m^3/s) July 20, gage height, 11.42 ft (3.481 m); minimum daily, 3,240 ft^3/s (91.8 m^3/s) Apr. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8160	12800	13300	6380	19300	4130	7550	8800	8790	10000	15300	14700
2	11100	10200	13700	10500	20600	6580	8590	8790	9880	8870	14700	12700
3	12200	13400	14100	11300	18600	6250	10800	7920	10100	8960	16700	12100
4	9520	13200	14200	11900	14800	5250	5870	10700	11200	7990	15700	10200
5	12600	15300	15200	15600	12300	5380	3240	11800	10700	8140	14800	6740
6	17300	16900	20300	16500	13300	7780	6420	12600	7460	12300	17300	6430
7	16400	17200	15700	10100	11700	6580	5410	8990	7180	14200	16700	6280
8	17900	16300	16200	13400	13400	4850	6170	8340	9000	14100	16400	11700
9	15300	15000	17500	13100	15000	8510	7210	7250	9190	16900	12500	12900
10	17900	16400	20800	14100	16800	7250	6820	7880	9980	15300	15500	14000
11	15800	15800	19300	10600	15300	8000	6460	7960	8650	15000	14200	15000
12	7410	18700	18200	10900	12400	7910	7020	9780	8470	10200	13300	12300
13	14200	18100	13200	9030	9750	9020	7590	10200	7210	13800	13400	10400
14	17900	21100	10100	9550	11300	9130	8320	10900	6210	14000	11800	13300
15	17500	20600	11600	10200	10900	6440	7710	11200	7170	10900	12200	11000
16	13400	16500	9190	11600	9950	6160	8150	8760	8070	11400	11900	15200
17	11100	18100	6770	16200	8170	7600	8180	8340	9190	13500	15100	15100
18	6530	17100	10500	14900	8590	11100	8990	11200	8880	9570	14300	15900
19	4180	18500	17400	14300	6570	9680	6060	12400	8290	10900	15000	9780
20	10400	19500	14600	15400	9360	9750	7390	12300	7300	16100	15800	7770
21	12400	18300	6830	13600	7720	7610	9610	9300	6710	17000	16000	12600
22	14700	16200	9310	9900	5230	5650	10600	7680	10400	16400	14700	14000
23	13300	17900	8630	11100	7290	8470	9840	6230	9790	17500	14100	11700
24	14400	17700	11200	11600	7260	8690	10500	6580	10400	16900	14900	11100
25	14800	17200	7220	8270	6790	8880	9700	6740	10500	13400	15900	9160
26	10400	17100	9510	13000	10500	9430	8070	9780	11300	13200	15100	7870
27	11600	7930	7440	11700	9550	7800	10500	7620	8490	15300	17000	6810
28	11300	9930	7880	11900	10400	6840	8970	7600	7040	16600	13800	9470
29	9040	9520	8170	12000	---	4230	8150	7320	10400	19100	12200	9530
30	11200	9380	8500	14900	---	9790	8400	6710	7740	19800	12600	10600
31	11800	---	9300	12300	---	8490	---	7080	---	19000	16500	---
TOTAL	391740	471860	385850	375830	322830	233230	238290	278750	265690	426330	455400	336340
MEAN	12640	15730	12450	12120	11530	7524	7943	8992	8856	13750	14690	11210
MAX	17900	21100	20800	16500	20600	11100	10800	12600	11300	19800	17300	15900
MIN	4180	7930	6770	6380	5230	4130	3240	6230	6210	7990	11800	6280
AC-FT	777000	935900	765300	745500	640300	462600	472600	552900	527000	845600	903300	667100

CAL YR 1980 TOTAL 5711530 MEAN 15610 MAX 34500 MIN 1130 AC-FT 11330000
WTR YR 1981 TOTAL 4182140 MEAN 11460 MAX 21100 MIN 3240 AC-FT 8295000

09382000 PARIA RIVER AT LEES FERRY, AZ

LOCATION.--Lat 36°52'20", long 111°35'38", in NW¼NE¼ sec.13, T.40 N., R.7 E., Coconino County, Hydrologic Unit 14070007, on left bank 0.6 mi (1.0 km) northwest of Lees Ferry, and 1.1 mi (1.8 km) upstream from mouth.

DRAINAGE AREA.--1,410 mi^2 (3,652 km^2).

PERIOD OF RECORD.--October 1923 to current year.

REVISED RECORDS.--WSP 1925: 1958(M), drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,123.68 ft (952.098 m), revised, NGVD of 1929. Prior to Oct. 5, 1925, nonrecording gage at site 2,000 ft (610 m) upstream at different datum. Oct. 13, 1925, to Sept. 11, 1929, nonrecording gage at present site and datum.

REMARKS.--Records fair. Diversions above station for irrigation of about 3,300 acres (13.4 km^2).

AVERAGE DISCHARGE.--58 years, 30.0 ft^3/s (0.850 m^3/s), 21,740 acre-ft/yr (26.8 hm^3/yr); median of yearly mean discharges, 26 ft^3/s (0.74 m^3/s), 18,800 acre-ft/yr (23 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,100 ft^3/s (456 m^3/s) Oct. 5, 1925, gage height, 16.3 ft (4.97 m), from floodmark, from rating curve extended above 2,000 ft^3/s (57 m^3/s) on basis of float-area measurement of peak flow; maximum gage height, 16.65 ft (5.075 m) Sept. 9, 1980; minimum daily discharge, 1 ft^3/s (0.03 m^3/s) in most years prior to 1931.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,400 ft^3/s (39.6 m^3/s) and maximum discharge (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Aug. 14	0500	*2,110	59.8	10.66	3.249
Sept. 7	0330	1,970	55.8	10.45	3.185

Minimum daily, 4.9 ft^3/s (0.139 m^3/s) Aug. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	21	26	24	23	21	24	8.0	43	17	5.0	57
2	16	25	26	24	18	25	21	8.0	38	16	8.0	38
3	16	24	24	26	20	47	21	8.0	27	12	6.0	20
4	15	22	27	25	22	35	25	6.0	17	10	5.2	15
5	15	22	27	26	23	28	20	6.2	13	8.0	6.0	15
6	14	22	32	24	23	33	19	5.8	11	8.0	5.2	108
7	16	22	32	20	23	59	17	5.4	10	6.0	4.9	375
8	17	21	32	23	24	36	17	5.2	5.0	6.0	4.9	83
9	17	23	31	21	26	34	17	5.2	5.0	28	5.0	39
10	16	24	22	22	29	28	16	5.4	5.0	87	6.3	40
11	17	23	18	22	26	27	16	5.2	5.0	39	244	42
12	17	21	20	23	18	32	13	5.2	5.0	25	329	26
13	24	24	26	30	24	27	13	5.2	5.0	173	160	126
14	39	26	32	26	22	39	12	5.2	5.0	162	650	34
15	41	24	26	25	24	49	12	5.8	5.0	283	298	145
16	47	21	28	24	24	46	12	14	5.0	40	75	32
17	36	20	27	25	23	36	13	44	5.0	303	23	15
18	27	20	26	26	22	31	14	21	5.0	41	10	15
19	24	20	26	25	22	26	19	11	5.0	20	11	15
20	20	21	26	24	21	25	51	9.6	5.0	18	8.0	10
21	22	24	25	24	21	26	57	25	5.0	12	10	10
22	23	25	26	24	19	21	28	46	5.0	10	24	10
23	24	27	26	22	18	18	20	23	5.0	8.0	10	10
24	20	28	26	23	18	17	17	19	5.0	6.0	108	10
25	20	26	25	24	19	17	13	14	5.0	5.0	20	10
26	20	19	25	23	19	17	10	9.3	5.0	5.0	15	10
27	20	26	27	22	23	18	10	7.5	7.8	5.0	10	8.0
28	20	26	26	22	23	22	10	11	21	5.0	10	8.0
29	20	29	26	26	---	24	10	28	38	5.0	10	8.0
30	20	26	26	26	---	26	10	21	26	5.0	10	8.0
31	21	---	24	26	---	26	---	41	---	5.0	10	---
TOTAL	681	702	816	747	617	916	557	434.2	346.8	1373.0	2101.5	1342.0
MEAN	22.0	23.4	26.3	24.1	22.0	29.5	18.6	14.0	11.6	44.3	67.8	44.7
MAX	47	29	32	30	29	59	57	46	43	303	650	375
MIN	14	19	18	20	18	17	10	5.2	5.0	5.0	4.9	8.0
AC-FT	1350	1390	1620	1480	1220	1820	1100	861	688	2720	4170	2660

CAL YR 1980 TOTAL 24206.6 MEAN 66.1 MAX 2700 MIN 4.0 AC-FT 48010
WTR YR 1981 TOTAL 10633.5 MEAN 29.1 MAX 650 MIN 4.9 AC-FT 21090

09403550 SINK VALLEY WASH NEAR GLENDALE, UTAH

LOCATION.--Lat 37°19'19", long 112°27'49", in NE¼SW¼NW¼ sec.19, T.40 S., R.5 W., Kane County, Hydrologic Unit 15010003, on left bank, 2.1 mi (3.4 km) upstream from mouth, 9 mi (15 km) southwest of Alton.

DRAINAGE AREA.--16 mi^2 (41.4 km^2).

PERIOD OF RECORD.--October 1980 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,380 ft (1,945 m) from topographic map.

REMARKS.--Gage-height record good. Daily discharge record not published as all visits to station were observations of no-flow, so a stage-discharge relationship was not developed. Gage-height record on file in District Office. Short period of runoff occurred on May 28, July 16, Aug. 13, 15, Sept. 6, 14.

EXTREMES FOR CURRENT YEAR.--**Maximum discharge, unknown,** occurred July 16; no flow most of year.

09403600 KANAB CREEK NEAR KANAB, UTAH

LOCATION.--Lat 37°06'02", long 112°32'50", in NE¼NE¼SW¼ 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 (91 m) upstream from Tiny Canyon and 3.5 mi (5.6 km) north of Kanab.

DRAINAGE AREA.--198 mi^2 (513 km^2).

PERIOD OF RECORD.--July 1959 to Sept. 1968 (peaks only). Jan. 1979 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage, 5,060 ft (1,542 m) 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 OUTSIDE PERIOD OF RECORD.--Maximum discharge recorded by crest-stage gage 3,030 ft^3/s (85.5 m^3/s) Sept. 8, 1961, gage height, 19.80 ft (6.035 m) at different datum.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,060 ft^3/s (30.0 m^3/s) Apr. 6, 1980, maximum gage height, 3.77 ft (1.14 m) Sept. 10, 1980; minimum discharge, 3.4 ft^3/s (0.10 m^3/s) Nov. 11, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 200 ft^3/s (5.66 m^3/s) and maximum discharge, 220 ft^3/s (6.23 m^3/s) July 16, gage height 5.34 ft (1.628 m); minimum discharge, 3.7 ft^3/s (0.105 m^3/s) June 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	11	15	17	13	13	12	9.2	39	6.6	9.5	11
2	12	11	15	16	13	16	11	9.2	39	6.6	9.5	11
3	11	11	16	15	13	15	9.7	9.7	37	6.6	9.5	11
4	11	11	16	16	14	15	9.7	9.2	29	6.6	9.5	11
5	11	11	15	17	13	13	10	9.7	28	6.6	9.5	13
6	11	11	16	14	13	14	11	8.4	25	6.2	9.4	13
7	11	12	15	13	15	13	12	9.1	21	6.2	9.2	13
8	10	12	14	13	14	16	12	8.8	19	6.2	9.4	12
9	10	12	16	14	13	14	12	9.2	10	6.2	10	12
10	10	11	17	15	13	14	12	8.8	6.8	6.2	80	12
11	10	12	16	14	13	15	12	8.4	5.6	6.2	60	12
12	10	12	16	14	13	13	12	8.4	5.3	7.6	50	25
13	11	12	15	13	13	15	12	8.4	5.3	9.2	16	15
14	13	12	17	13	14	14	11	9.9	5.5	11	22	12
15	23	11	13	14	14	14	11	8.8	5.0	12	19	12
16	15	13	19	14	15	15	11	9.8	5.0	69	13	21
17	11	13	18	14	14	14	11	9.9	5.0	54	16	28
18	12	14	18	15	14	13	12	8.5	5.0	42	12	18
19	12	14	18	14	16	17	13	8.2	5.0	25	10	17
20	14	14	17	13	13	14	12	9.8	5.0	18	10	17
21	12	15	17	14	14	13	11	9.5	5.0	13	10	17
22	12	16	16	16	15	13	11	10	5.0	10	11	18
23	10	17	16	17	15	14	11	11	5.0	10	11	18
24	11	18	18	13	15	14	10	8.6	5.0	9.5	10	19
25	12	17	17	14	15	14	9.9	9.0	5.0	9.5	10	20
26	12	15	17	16	14	12	9.7	11	5.0	9.5	11	21
27	12	16	17	15	14	12	9.7	14	7.0	9.5	11	21
28	12	17	17	13	15	12	9.6	11	7.0	9.5	11	22
29	12	16	17	13	---	12	9.3	12	7.0	9.5	11	24
30	10	15	17	14	---	12	9.3	49	7.0	9.5	11	25
31	10	---	18	13	---	12	---	94	---	9.5	11	---
TOTAL	365	402	509	446	390	427	328.9	420.5	363.5	427.0	511.5	501
MEAN	11.8	13.4	16.4	14.4	13.9	13.8	11.0	13.6	12.1	13.8	16.5	16.7
MAX	23	18	19	17	16	17	13	94	39	69	80	28
MIN	10	11	13	13	13	12	9.3	8.2	5.0	6.2	9.2	11
AC-FT	724	797	1010	885	774	847	652	834	721	847	1010	994

CAL YR 1980 TOTAL 10546.2 MEAN 28.8 MAX 354 MIN 4.8 AC-FT 20920
WTR YR 1981 TOTAL 5091.4 MEAN 13.9 MAX 94 MIN 5.0 AC-FT 10100

09403670 THOMPSON CREEK NEAR GLENDALE, UTAH

LOCATION.--Lat 37°17'45", long 112°21'07", in NE¼NE¼NW¼ sec.31, T.40 S., R.4½ W, Kane County, Hydrologic Unit 15010003, on right bank about 2.4 mi (3.9 km) upstream from mouth and 17.5 mi (28.2 km) southeast of Alton.

DRAINAGE AREA.--19.2 mi^2 (49.7 km^2).

PERIOD OF RECORD.--October 1980 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,050 ft (1,844 m) from topographic map.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,030 ft^3/s (29.2 m^3/s) Aug. 14, gage height, 6.80 ft (2.073 m) from slope-area measurement; minimum daily, 0.23 ft^3/s (0.007 m^3/s) July 31 to Aug. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.45	.63						.45	1.3	.60	.23	.34
2	.46	.72						.45	1.0	.49	.23	.33
3	.47	.74						.28	.80	.42	.23	.32
4	.48	.53						.28	.70	.39	.23	.31
5	.49	.53						.45	.63	.37	.23	1.7
6	.50	.53						.60	.59	.36	.23	7.9
7	.52	.56						.53	.55	.34	.23	.86
8	.54	.64						.53	.52	.33	.23	.50
9	.54	.70						.45	.49	.33	.23	.45
10	.56	.72						.61	.47	.33	.30	.93
11	.50	.72						.61	.46	.33	2.7	.43
12	.80	.72						.61	.44	.41	1.6	1.4
13	.62	.72						.72	.43	.53	6.2	7.4
14	.62	.95						.72	.42	.98	40	2.5
15	.86	1.0						.84	.41	.43	10	1.0
16	.66	1.0						1.3	.40	.72	1.7	.45
17	.68	1.1						.84	.39	.53	.80	.32
18	.70	1.2						.84	.38	.41	.52	.28
19	.70	1.2						.84	.38	.34	.46	.32
20	.72	1.3						1.3	.37	.30	.42	.32
21	.74	1.2						1.1	.36	.28	.39	.32
22	.76	1.2						1.0	.36	.27	.37	.28
23	.78	1.1						.95	.35	.34	.36	.32
24	.85	1.1						.92	.36	.29	.35	.38
25	.87	1.0						.90	.35	.27	.34	.32
26	.72	1.0						1.2	.35	.25	.34	.32
27	.53	1.1						2.3	.42	.25	.34	.32
28	.74	1.1						1.9	.58	.24	.34	.32
29	.84	1.2						2.4	.48	.24	.34	.32
30	.84	1.2						4.5	.72	.24	.34	.32
31	.80	---						2.7	---	.23	.34	---
TOTAL	20.34	27.41						33.12	15.46	11.84	70.62	31.28
MEAN	.66	.91						1.07	.52	.38	2.28	1.04
MAX	.87	1.3						4.5	1.3	.98	40	7.9
MIN	.45	.53						.28	.35	.23	.23	.28
AC-FT	40	54						66	31	23	140	62

09403670 THOMPSON CREEK NEAR GLENDALE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1980 to September 1981 (discontinued).
SEDIMENT DATA: October 1980 to September 1981, monthly (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
23...	1500	.78	1800	8.2	14.5	12.0	8.2	94	--	890	--
DEC											
03...	1315	2.6	1680	8.2	12.0	2.0	10.9	98	.86	790	--
APR											
25...	1500	.55	1440	8.4	23.0	22.0	6.8	97	.97	700	290
JUN											
22...	1630	.36	1660	8.3	33.5	27.5	6.6	105	--	820	570
JUL											
13...	1745	.23	1900	8.4	27.0	24.0	6.6	99	--	890	570
AUG											
06...	1545	.15	1950	8.4	35.0	29.0	6.2	102	.87	900	720
07...	1130	.20	1980	8.1	30.0	23.5	6.6	--	--	950	--
SEP											
01...	1400	.34	2250	8.3	29.0	24.0	6.4	96	--	1200	1000

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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY FIELD (MG/L AS CACO3)
OCT										
23...	--	160	120	84	17	1.2	11	--	0	240
DEC										
03...	--	160	94	61	14	.9	11	--	0	240
APR										
25...	530	100	110	63	16	1.0	8.1	490	2	410
JUN										
22...	--	96	140	85	18	1.3	9.7	300	0	250
JUL										
13...	--	110	150	99	19	1.4	11	380	6	320
AUG										
06...	--	115	150	100	19	1.7	12	220	2	190
07...	--	132	150	120	21	2.0	11	--	--	--
SEP										
01...	1100	220	160	94	14	1.2	15	210	0	170

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	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)
OCT										
23...	--	--	810	20	.5	9.1	1370	--	1.9	2.9
DEC										
03...	240	--	640	17	.4	9.2	1250	--	1.7	8.8
APR										
25...	170	1.3	590	17	.4	9.3	1160	1000	1.6	1.7
JUN										
22...	--	2.4	750	21	.3	8.5	1330	1260	1.8	1.3
JUL										
13...	--	2.5	810	24	.3	9.7	1540	1410	2.1	.96
AUG										
06...	--	1.4	830	22	.3	10	1570	1350	2.1	.64
07...	--	--	910	26	.4	9.9	1670	--	2.3	.90
SEP										
01...	140	1.7	1200	30	.4	8.1	1980	1830	2.7	1.8

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	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)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
DEC											
03...	.390	.47	.71	1.10	.67	.43	.43	5.20	16	.070	--
APR											
25...	.080	--	2.4	2.50	2.1	.37	.60	1.90	5.8	.020	6.0
JUN											
22...	--	--	--	--	--	--	--	--	--	--	7.2
JUL											
13...	--	--	--	--	--	--	--	--	--	--	8.2
AUG											
06...	.050	--	.69	.74	.04	.70	.17	.080	.25	.010	--

09403670 THOMPSON CREEK NEAR GLENDALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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, SUS-PENDED RECOV. (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)
OCT 23...	1500	--	--	--	--	--	--	--	--	--	90	--
DEC 03...	1315	200	200	1	1100	1100	0	20	20	0	90	7
APR 25...	1500	18	16	2	0	0	100	0	0	0	250	0
JUN 22...	1630	--	--	--	--	--	--	--	--	--	130	--
JUL 13...	1745	--	--	--	--	--	--	--	--	--	160	--
AUG 06...	1545	1	0	1	--	--	--	0	0	2	160	0
07...	1130	--	--	--	--	--	--	--	--	--	160	--
SEP 01...	1400	--	--	--	--	--	--	--	--	--	150	--

DATE	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (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)
OCT 23...	--	--	--	--	--	--	--	--	89000	--	<10	--
DEC 03...	5	2	120	120	0	230	230	0	160000	160000	30	220
APR 25...	0	0	70	70	0	90	89	1	67000	67000	10	53
JUN 22...	--	--	--	--	--	--	--	--	7500	--	<10	--
JUL 13...	--	--	--	--	--	--	--	--	16000	16000	20	--
AUG 06...	0	2	20	10	10	7	3	4	1900	--	<10	4
07...	--	--	--	--	--	--	--	--	1400	--	<10	--
SEP 01...	--	--	--	--	--	--	--	--	97000	97000	20	--

DATE	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)	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)
OCT 23...	--	--	--	--	--	1700	1700	20	--	--	--	--
DEC 03...	220	2	230	130	100	3100	3100	10	.4	.4	.0	300
APR 25...	48	5	160	50	110	1100	1100	30	.2	.2	.0	80
JUN 22...	--	--	--	--	--	120	110	8	--	--	--	--
JUL 13...	--	--	--	--	--	220	200	20	--	--	--	--
AUG 06...	0	4	--	--	--	50	40	12	.0	.0	.0	7
07...	--	--	--	--	--	50	40	12	--	--	--	--
SEP 01...	--	--	--	--	--	1200	1200	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)
OCT 23...	--	--	--	--	--	--	--	--	--	--	--
DEC 03...	300	4	12	11	1	4100	2700	1400	110	100	10
APR 25...	80	0	0	0	1	1300	300	1000	290	270	20
JUN 22...	--	--	--	--	--	--	--	--	--	--	--
JUL 13...	--	--	--	--	--	--	--	--	--	--	--
AUG 06...	6	1	1	0	1	--	--	--	20	10	8
07...	--	--	--	--	--	--	--	--	--	--	--
SEP 01...	--	--	--	--	--	--	--	--	--	--	--

09403670 THOMPSON CREEK NEAR GLENDALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
DEC 03...	1315	7.0	--	.00	0
APR 25...	1500	4.6	14	.00	0
AUG 06...	1545	3.7	.5	.00	8

DATE	TIME	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)
AUG 06...	1545	<16	3.6	10	3.8	9.7	3.7

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO AUGUST 1981

DATE	JUN 22,81	JUL 13,81	AUG 6,81
TIME	1630	1745	1545
TOTAL CELLS/ML	910	3000	1300
DIVERSITY: DIVISION	1.2	0.4	1.1
.CLASS	1.2	0.4	1.1
..ORDER	1.2	0.4	1.1
...FAMILY	1.8	0.5	1.8
....GENUS	1.8	0.5	1.8

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...OOCYSTACEAE						
....ANKISTRODESMUS	280a	31	b	0	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	--	-	--	-	14	1
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..PENNALES						
...CYMBELLACEAE						
....CYMBELLA	--	-	41	1	--	-
...FRAGILARIACEAE						
....SYNEDRA	210a	23	41	1	96	8
...NAVICULACEAE						
....NAVICULA	--	-	55	2	180	14
...NITZSCHIACEAE						
....NITZSCHIA	350a	38	41	1	300a	24
...SURIRELLACEAE						
....SURIRELLA	--	-	b	0	14	1
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..OSCILLATORIALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	--	-	2800a	93	670a	53
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....EUGLENA	70	8	--	-	--	-

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organism, may or may not have been counted: Less than 1/2 percent.

09403670 THOMPSON CREEK NEAR GLENDALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)
DEC						
03...	1315	.236	.236	.000	.000	--
JUL						
13...	1745	49.8	46.9	3.19	.080	909
AUG						
06...	1545	5.12	4.96	.070	.000	2290

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	COAL IN BOTTOM MATE-RIAL (GM/KG)
OCT												
23...	1500	.78	12.0	14300	30	--	--	--	--	--	--	4.00
DEC												
03...	1315	2.6	2.0	18600	131	47	62	90	98	99	100	--
APR												
25...	1500	.55	22.0	5670	8.4	--	--	--	--	--	--	--
JUN												
22...	1630	.36	27.5	750	.73	--	--	--	--	--	--	--
JUL												
13...	1745	.23	24.0	468	.29	--	--	--	--	--	--	--
AUG												
06...	1545	.15	29.0	1360	.55	--	--	--	--	--	--	--
SEP												
01...	1400	.34	24.0	7540	6.9	--	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE-BED MATERIAL, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM
APR											
25...	1500	.55	22.0	7	26	73	92	95	96	97	100

09404450 EAST FORK VIRGIN RIVER NEAR GLENDALE, UTAH

LOCATION.--Lat 37°20'19", long 112°36'13", in SE¼NE¼NW¼ sec.14, T.40 S., R.7 W., Kane County, Hydrologic Unit 15010008, on right bank 50 ft (15 m) downstream from Lydia's Creek, and 1.0 mi (1.6 km) north of the town of Glendale on U.S. Highway 89.

DRAINAGE AREA.--69.2 mi^2 (179 km^2).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder and artificial concrete control. Altitude of gage is 5,900 ft (1,798 m) from topographic map.

REMARKS.--Records good. A few small diversions above station.

AVERAGE DISCHARGE.--15 years, 20.9 ft^3/s (0.592 m^3/s), 15,140 acre-ft/yr (18.7 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 640 ft^3/s (18.1 m^3/s) July 27, 1976, gage height, 4.14 ft (1.26 m); minimum, 6.3 ft^3/s (0.18 m^3/s) June 18, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 50 ft^3/s (1.42 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage (ft)	Gage (m)
Oct. 12	2030	55	1.56	1.44	0.439
May 31	2100	53	1.50	1.41	.430
Aug. 11	1500	*156	4.42	2.05	.625

Minimum, 9.4 ft^3/s (0.266 m^3/s) Aug. 6-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	22	22	22	22	24	23	18	21	12	10	12
2	21	22	22	22	22	28	23	19	20	12	10	12
3	21	22	22	22	23	25	26	18	19	12	10	12
4	21	21	23	23	22	24	24	18	17	12	10	12
5	21	21	24	22	22	24	23	17	16	12	10	14
6	21	21	24	22	22	25	23	17	15	11	9.9	14
7	21	21	23	21	22	26	23	16	14	11	9.6	14
8	21	21	23	21	22	27	22	16	14	11	9.7	13
9	21	21	22	21	23	26	22	16	13	11	9.6	13
10	21	20	22	21	23	25	21	16	13	11	13	13
11	21	20	22	21	22	25	21	15	13	11	29	13
12	27	22	23	23	23	25	20	15	13	12	19	16
13	27	24	23	23	23	27	21	15	13	12	14	14
14	23	23	22	22	24	29	21	15	13	13	14	13
15	24	23	23	22	24	28	21	17	13	11	13	13
16	24	23	24	22	24	28	20	20	12	20	13	13
17	23	22	23	23	24	27	18	18	12	16	12	13
18	23	22	23	22	23	25	27	17	12	13	12	13
19	23	21	23	22	23	24	36	17	12	12	12	13
20	23	21	22	22	22	26	27	24	12	12	12	13
21	22	21	22	22	21	27	24	20	12	12	12	13
22	22	22	22	21	21	27	22	18	12	11	12	13
23	22	22	22	21	21	28	21	17	12	11	12	13
24	22	22	22	22	21	26	21	17	12	11	12	13
25	21	21	22	21	21	25	20	17	12	10	12	13
26	23	21	22	20	23	26	20	18	12	10	12	13
27	23	21	22	21	22	29	19	22	12	10	12	13
28	23	23	22	22	23	29	18	22	13	10	12	13
29	22	23	22	23	---	27	17	23	13	10	12	13
30	22	23	21	23	---	25	18	21	13	10	12	13
31	22	---	21	21	---	24	---	23	---	10	12	---
TOTAL	692	652	695	676	628	811	662	562	410	362	383.8	393
MEAN	22.3	21.7	22.4	21.8	22.4	26.2	22.1	18.1	13.7	11.7	12.4	13.1
MAX	27	24	24	23	24	29	36	24	21	20	29	16
MIN	21	20	21	20	21	24	17	15	12	10	9.6	12
AC-FT	1370	1290	1380	1340	1250	1610	1310	1110	813	718	761	780

CAL YR 1980 TOTAL 17363.0 MEAN 47.4 MAX 285 MIN 20 AC-FT 34440
WTR YR 1981 TOTAL 6926.8 MEAN 19.0 MAX 36 MIN 9.6 AC-FT 13740

09405420 NORTH FORK VIRGIN RIVER BELOW BULLOCK CANYON, NEAR GLENDALE, UTAH

LOCATION.--Lat 37°25'06", long 112°47'59", in SW¼NW¼SE¼ sec.13, T.39 S., R.9 W., Kane County, Hydrologic Unit 15010008, on left bank 200 ft (61 m) below Bullock Canyon, 7.5 mi (12.1 km) south of Navajo Lake, 19 road mi (31 km) from Navajo Lake turnoff at U-14 and 10 mi (16 km) northwest of Glendale.

DRAINAGE AREA.--29.6 mi^2 (76.7 km^2).

PERIOD OF RECORD.--Oct. 1, 1974 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage, 6,420 ft (1,957 m) from topographic map.

REMARKS.--Records fair except for period of no gage-height record Oct. 3-28, which is poor.

AVERAGE DISCHARGE.--7 years, 18.6 ft^3/s (0.527 m^3/s), 13,480 acre-ft/yr (16.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge estimated, 225 ft^3/s (6.37 m^3/s) Oct. 2, 1977, gage height unknown; minimum, 2.6 ft^3/s (0.07 m^3/s) Aug. 3, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge determined before station was installed, 1,740 ft^3/s (49.3 m^3/s) Sept. 9, 1974 on basis of slope-area measurement at gage height 7.44 ft (2.27 m) from high-water marks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 30 ft^3/s (0.85 m^3/s), about 80 ft^3/s (2.27 m^3/s) Oct. 12, gage height unknown; minimum recorded 8.0 ft^3/s (0.23 m^3/s) Sept. 13, 16, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	20	20	17	18	15	20	20	22	11	9.3	8.9
2	15	19	19	18	17	16	21	21	21	11	9.3	9.4
3	15	19	20	18	18	16	24	21	20	11	9.4	8.8
4	15	19	20	18	18	16	22	23	18	11	9.2	8.5
5	14	19	20	18	19	16	22	16	17	12	9.4	10
6	14	19	20	17	17	17	21	14	16	12	9.4	12
7	14	19	19	17	17	17	21	13	16	12	10	11
8	14	20	19	18	17	16	21	12	16	12	11	9.9
9	14	20	18	18	18	17	19	11	16	12	11	9.9
10	14	19	18	18	17	17	18	10	16	12	15	9.2
11	14	19	18	18	17	18	19	9.5	16	12	12	8.7
12	38	24	19	18	17	19	18	9.0	15	13	12	8.6
13	30	21	19	19	17	18	17	8.5	15	15	11	8.4
14	22	20	18	19	17	17	17	8.5	16	14	10	8.4
15	23	19	20	18	17	19	18	10	17	12	9.4	8.4
16	24	18	22	18	19	21	18	14	18	12	9.6	8.2
17	24	18	21	18	20	20	18	14	17	12	9.6	12
18	23	19	21	20	19	18	32	12	18	12	9.4	9.8
19	23	20	20	19	16	18	38	13	19	11	9.4	8.9
20	22	20	19	18	15	17	33	20	19	11	9.1	8.9
21	21	20	19	18	14	18	31	19	19	11	9.8	9.1
22	21	20	19	18	14	20	28	16	19	11	10	8.9
23	20	20	18	17	13	21	26	15	19	11	9.7	8.9
24	20	20	18	17	13	22	25	14	19	11	9.5	9.4
25	19	20	18	17	13	22	25	13	19	11	9.3	8.9
26	19	20	18	17	13	22	23	14	18	11	9.4	8.9
27	19	20	18	17	14	21	22	23	16	11	9.5	8.6
28	19	20	18	18	14	22	21	25	13	11	9.3	8.6
29	19	20	18	18	---	22	21	24	12	10	9.1	8.6
30	19	20	18	19	---	23	20	23	12	10	9.4	8.6
31	19	---	18	18	---	19	---	22	---	9.5	9.3	---
TOTAL	602	591	590	556	458	580	679	487.5	514	357.5	308.8	276.4
MEAN	19.4	19.7	19.0	17.9	16.4	18.7	22.6	15.7	17.1	11.5	9.96	9.21
MAX	38	24	22	20	20	23	38	25	22	15	15	12
MIN	14	18	18	17	13	15	17	8.5	12	9.5	9.1	8.2
AC-FT	1190	1170	1170	1100	908	1150	1350	967	1020	709	613	548

CAL YR 1980 TOTAL 13928.0 MEAN 38.1 MAX 200 MIN 14 AC-FT 27630
WTR YR 1981 TOTAL 6000.2 MEAN 16.4 MAX 38 MIN 8.2 AC-FT 11900

09405450 NORTH FORK VIRGIN RIVER ABOVE ZION NARROWS, NEAR GLENDALE, UTAH

LOCATION.--Lat 37°23'26", long 112°49'30", in NW¼NW¼SW¼ sec.26, T.39 S., R.9 W., Kane County, Hydrologic Unit 15010008, on left bank 300 ft (91.4 m) below diversion, 10 mi (16.1 km) south of Navajo Lake, 22.5 road mi (36.2 km) from Navajo Lake turnoff at U-14 and 13.5 mi (21.7 km) northwest of Glendale.

DRAINAGE AREA.--45.5 mi^2 (118 km^2).

PERIOD OF RECORD.--Oct. 1, 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,000 ft (1,829 m) from topographic map.

REMARKS.--Records good. Several small diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 130 ft^3/s (3.68 m^3/s) Apr. 17, 1979, may have been exceeded by flood of Feb. 14, 1980, discharge unknown; minimum daily, 2.2 ft^3/s (0.062 m^3/s) Aug. 12, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 70 ft^3/s (1.98 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 12	1200	84	2.38	0.95	0.290
Sept. 12	1430	*128	3.62	1.27	.387

Minimum daily, 2.2 ft^3/s (0.06 m^3/s) Aug. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	19	19	19	18	16	21	20	18	10	6.8	5.8
2	15	19	19	19	17	17	21	21	18	11	6.1	6.1
3	15	19	19	18	17	16	22	21	15	11	6.1	6.1
4	15	19	19	19	18	16	22	20	15	10	6.1	6.1
5	14	18	19	19	18	16	21	15	16	10	4.9	7.3
6	14	19	20	18	17	16	21	14	16	11	5.3	9.3
7	14	17	20	18	17	16	22	14	15	11	4.7	7.7
8	14	17	21	18	17	15	21	13	15	11	4.8	7.7
9	14	17	22	18	17	16	19	11	16	10	4.2	7.3
10	14	17	22	18	17	16	21	9.7	16	10	13	7.8
11	14	17	21	18	16	17	20	10	16	9.6	6.9	7.8
12	38	21	21	19	17	16	19	9.4	15	11	2.2	12
13	24	21	21	19	16	17	18	8.8	15	10	3.6	6.4
14	22	19	20	19	17	17	19	8.7	16	10	6.3	5.8
15	24	17	20	19	17	18	19	11	17	9.6	11	6.3
16	26	18	20	18	19	20	19	15	18	9.2	7.7	6.1
17	26	18	20	20	20	18	19	14	17	9.6	7.7	8.2
18	25	18	20	19	18	16	33	12	18	9.1	7.7	8.0
19	23	18	20	19	16	17	41	13	18	9.5	7.3	7.0
20	22	18	20	18	14	18	33	21	18	8.9	7.0	7.0
21	21	18	20	18	14	19	29	18	18	8.3	7.3	7.0
22	21	18	20	18	14	19	26	15	18	8.1	7.7	7.1
23	20	19	20	17	14	22	25	15	18	9.0	7.3	7.1
24	20	19	19	18	13	23	24	14	18	7.7	7.3	7.2
25	19	19	20	18	13	22	24	13	18	7.0	7.0	7.0
26	19	19	20	17	14	21	23	15	15	7.6	7.0	6.7
27	19	19	20	17	14	22	22	23	9.6	8.5	6.3	6.7
28	19	18	20	18	14	22	21	23	9.6	8.9	6.3	6.4
29	19	18	19	18	---	23	20	22	11	8.1	6.1	6.3
30	20	18	19	19	---	22	20	20	11	7.7	5.8	6.2
31	19	---	19	18	---	19	---	20	---	7.7	5.8	---
TOTAL	604	551	619	568	453	568	685	479.6	474.2	290.1	203.3	213.5
MEAN	19.5	18.4	20.0	18.3	16.2	18.3	22.8	15.5	15.8	9.36	6.56	7.12
MAX	38	21	22	20	20	23	41	23	18	11	13	12
MIN	14	17	19	17	13	15	18	8.7	9.6	7.0	2.2	5.8
AC-FT	1200	1090	1230	1130	899	1130	1360	951	941	575	403	423

CAL YR 1980	TOTAL	14142.0	MEAN 38.6	MAX 200	MIN 14	AC-FT	28050
WTR YR 1981	TOTAL	5708.7	MEAN 15.6	MAX 41	MIN 2.2	AC-FT	11320

09405450 NORTH FORK VIRGIN RIVER ABOVE ZION NARROWS, NEAR GLENDALE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1974 to current year.

PERIOD OF DAILY RECORD.--October 1974 to September 1977. Monthly records, October 1977 to September 1979.

REMARKS.--Unpublished daily records of sediment are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 12,900 mg/L Oct. 2, 1976; minimum daily mean, 1 mg/L Oct. 20, 1975.
SEDIMENT LOADS: Maximum daily, 1,080 tons (980 tonnes) Oct. 2, 1976; minimum daily 0.02 ton (0.02 tonnes) Oct. 20, 1975.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,920 mg/L Sept. 17; minimum daily, 3 mg/L July 3, 7, 11.
SEDIMENT LOADS: Maximum daily, 102 tons (93 tonnes) Sept. 12; minimum daily 0.07 ton (0.007 tonne) Aug. 9.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	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)
OCT												
29...	1135	19	445	--	--	4.0	--	--	--	--	--	--
DEC												
01...	1130	19	--	--	--	1.5	--	--	--	--	--	--
JAN												
13...	1200	18	440	--	--	3.5	--	--	--	--	--	--
MAR												
19...	1125	17	550	--	--	4.0	--	--	--	--	--	--
APR												
09...	1110	17	520	--	--	7.0	--	--	--	--	--	--
22...	1154	27	520	8.5	--	11.0	--	260	--	59	28	7.5
MAY												
05...	1110	15	500	--	--	9.5	--	--	--	--	--	--
JUN												
02...	1015	18	445	--	--	9.5	--	--	--	--	--	--
JUL												
08...	1125	12	420	--	--	16.5	--	--	--	--	--	--
AUG												
05...	0850	6.3	430	--	--	9.0	--	--	--	--	--	--
20...	1120	7.5	420	8.4	28.0	16.0	8.0	230	54	54	24	8.1
26...	1145	6.9	415	8.4	--	16.5	--	230	48	50	25	7.7
SEP												
10...	--	7.7	430	--	--	--	--	--	--	--	--	--

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, 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)
OCT												
29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
01...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
13...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
19...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
09...	--	--	--	--	--	--	--	--	--	--	--	--
22...	6	.2	1.4	140	59	2.3	.3	9.1	300	--	.41	21.9
MAY												
05...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
02...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
08...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
05...	--	--	--	--	--	--	--	--	--	--	--	--
20...	7	.3	1.5	180	39	2.1	.1	12	--	250	.34	5.1
26...	7	.2	1.6	180	40	8.0	.1	13	234	254	.32	4.4
SEP												
10...	--	--	--	--	--	--	--	--	--	--	--	--

09405450 NORTH FORK VIRGIN RIVER ABOVE ZION NARROWS, NEAR GLENDALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	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)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
APR 22...	--	--	--	1.0
AUG 20...	.11	.010	.03	--

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)
APR 22...	1154	20	1400	1400	40	60	50	6
AUG 20...	1120	20	--	--	--	--	--	--
26...	1145	10	320	--	<10	20	20	4

SUSPENDED-SEDIMENT DISCHARGE, MONTHLY, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

MONTH	WATER DISCHARGE (CFS-DAYS)	SEDIMENT LOAD (TONS)
OCT.	604	66.00
NOV.	551	28.55
DEC.	619	*30.00
JAN.	568	*30.00
FEB.	453	*25.00
MAR.	568	*30.00
APR.	685	*100.00
MAY	479.6	148.30
JUN.	474.2	46.25
JUL.	290.1	12.47
AUG.	203.3	184.48
SEP.	213.5	257.96
TOTAL WATER YEAR 1981	5708.7	959.01

*Estimated.

09405500 NORTH FORK VIRGIN RIVER NEAR SPRINGDALE, UTAH

LOCATION.--Lat 37°12'35", long 112°58'40", in NW¼SW¼NW¼ sec.22, T.41 S., R.10 W., Washington County, Hydrologic Unit 15010008, on right bank in Zion National Park, 0.2 mi (0.3 km) downstream from point of diversion of Springdale Canal, 0.5 mi (0.8 km) downstream from Pine Creek, and 1.9 mi (3.1 km) northeast of Springdale.

DRAINAGE AREA.--344 mi^2 (891 km^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 (1,210 m) from topographic map. May 13, 1913 to June 30, 1914, nonrecording gage at site 3.2 mi (5.1 km) downstream at different datum. June 6, 1923 to Dec. 14, 1949, nonrecording gages at several sites within 0.8 mi (1.3 km) of present site at various datums.

REMARKS.--Records good. Figures given herein include Springdale Canal, which diverts water in NW¼NW¼ sec.22, T.41 S., R.10 W., for irrigation in vicinity of Springdale. Diversion above station for irrigation of about 1,400 acres (570 ha).

AVERAGE DISCHARGE.--56 years, 102 ft^3/s (2,889 m^3/s), 73,900 acre-ft/yr (91.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,150 ft^3/s (259 m^3/s) Dec. 6, 1966, gage height, 12.98 ft (3.956 m), from rating curve extended above 2,000 ft^3/s (56.6 m^3/s) on basis of drift measurement at gage height 6.7 ft (2.045 m), a slope-area measurement at gage height 10.25 ft (3.124 m); minimum observed, 20 ft^3/s (0.57 m^3/s) July 31, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,190 ft^3/s (62.0 m^3/s) July 15, gage height, 5.65 ft (1.722 m) from high-water mark; minimum daily, 40 ft^3/s (1.13 m^3/s) Aug. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	62	82	65	59	62	76	350	128	62	68	57
2	68	63	76	64	59	117	84	306	120	49	69	57
3	69	65	65	63	61	70	100	288	114	48	70	57
4	67	65	64	65	60	57	86	223	105	70	67	57
5	65	66	72	63	57	65	69	187	96	71	66	66
6	66	66	70	58	59	78	72	162	91	72	67	61
7	64	63	69	60	66	69	83	145	88	69	70	49
8	64	61	66	61	66	61	94	135	83	68	68	46
9	64	62	57	60	74	61	114	122	78	66	68	44
10	68	61	59	62	69	62	148	114	76	65	113	48
11	98	61	65	63	59	75	179	114	73	68	92	47
12	206	77	69	69	62	70	186	112	69	200	50	93
13	152	71	71	65	64	100	145	106	66	72	51	57
14	66	65	64	63	71	123	185	108	64	48	73	58
15	74	65	67	61	71	102	187	117	65	186	55	52
16	66	64	72	64	71	73	251	195	64	62	84	46
17	64	63	71	64	74	73	292	152	63	68	51	43
18	64	64	69	62	74	77	570	142	59	55	45	51
19	61	66	66	61	66	82	694	132	56	51	42	45
20	61	69	66	62	61	92	344	230	63	48	40	41
21	62	71	66	60	51	89	332	154	65	60	42	41
22	62	72	67	60	55	78	325	145	63	68	48	42
23	57	72	66	59	58	73	371	147	62	68	44	43
24	56	70	63	62	52	76	449	129	69	68	46	45
25	57	68	66	54	55	78	498	115	69	67	42	44
26	60	68	66	53	64	122	474	119	70	64	41	43
27	62	67	64	58	48	106	381	193	69	64	53	42
28	59	67	65	67	56	87	349	185	71	67	60	41
29	59	68	64	64	---	75	353	150	72	73	60	41
30	60	68	60	65	---	77	364	202	83	74	57	41
31	61	---	63	52	---	76	---	167	---	70	58	---
TOTAL	2228	1990	2070	1909	1742	2506	7855	5146	2314	2241	1860	1498
MEAN	71.9	66.3	66.8	61.6	62.2	80.8	262	166	77.1	72.3	60.0	49.9
MAX	206	77	82	69	74	123	694	350	128	200	113	93
MIN	56	61	57	52	48	57	69	106	56	48	40	41
AC-FT	4420	3950	4110	3790	3460	4970	15580	10210	4590	4450	3690	2970

CAL YR 1980 TOTAL 91269 MEAN 249 MAX 3000 MIN 49 AC-FT 181000
WTR YR 1981 TOTAL 33359 MEAN 91.4 MAX 694 MIN 40 AC-FT 66170

09406000 VIRGIN RIVER AT VIRGIN, UTAH

LOCATION.--Lat 37°11'53", long 113°12'22", in SE¼NW¼NE¼ sec.28, T.41 S., R.12 W., Washington County, Hydrologic Unit 15010008, on left bank 1.1 mi (1.8 km) west of Virgin and 2.3 mi (3.7 km) downstream from North Creek.

DRAINAGE AREA.--934 mi^2 (2,420 km^2).

PERIOD OF RECORD.--April 1909 to September 1971, Oct. 1, 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 (1,049 m) from topographic map. At present location Oct. 1, 1978, from Dec. 19, 1949 to Sept. 1971, directly across on right bank at different datum. Prior to Dec. 19, 1949, nonrecording gages at several sites within 3 mi (4.8 km) of present site at various datums.

REMARKS.--Records good. Diversions above station for irrigation.

AVERAGE DISCHARGE.--65 years, 206 ft^3/s (5.83 m^3/s), 149,200 acre-ft/yr (184 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,800 ft^3/s (646 m^3/s) Dec. 6, 1966, gage height, 18.00 ft (5.486 m) from rating curve extended above 5,000 ft^3/s (142 m^3/s) on basis of one slope-area measurement and one float measurement; minimum observed, 22 ft^3/s (0.623 m^3/s) July 10, 1920, June 11, 1921.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,600 ft^3/s (45.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 19	0730	2,110	59.8	5.40	1.646
July 15	1700	*3,650	103.0	6.52	1.987

Minimum, 53 ft^3/s (1.50 m^3/s) July 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	139	180	120	140	139	151	370	201	111	99	90
2	90	141	200	115	145	248	158	350	174	82	104	95
3	92	157	209	115	145	163	215	310	161	71	95	93
4	94	145	189	115	146	138	177	275	154	81	91	98
5	94	143	171	115	142	135	156	250	137	80	101	107
6	92	144	200	115	141	174	155	223	130	79	101	129
7	86	145	197	115	143	191	163	201	131	75	97	119
8	92	138	199	117	143	171	177	183	122	72	94	98
9	92	124	134	119	155	159	189	165	120	71	96	95
10	90	133	126	123	151	146	218	156	118	75	241	98
11	88	125	130	123	139	189	242	155	118	72	158	121
12	195	129	130	132	140	169	261	146	110	288	175	206
13	335	162	130	136	140	200	223	142	107	194	165	184
14	120	140	135	134	139	284	235	132	105	95	124	164
15	172	137	135	132	140	175	232	135	102	574	129	150
16	163	141	135	134	139	155	298	238	99	206	148	102
17	169	137	130	135	143	152	362	264	97	289	269	110
18	176	136	130	140	143	144	596	186	95	112	86	110
19	163	139	135	145	140	143	1090	177	90	91	72	116
20	150	151	135	144	135	163	495	302	91	76	77	104
21	142	150	130	143	129	173	456	205	96	83	78	104
22	138	143	130	141	126	154	398	205	91	104	84	102
23	139	143	125	140	128	152	413	208	86	104	105	123
24	136	154	125	142	124	157	471	173	92	97	90	138
25	132	137	125	137	119	154	523	156	104	104	86	128
26	130	148	125	129	141	165	530	145	101	98	89	106
27	130	150	120	128	146	277	464	281	97	93	93	106
28	135	142	120	141	140	191	407	275	100	96	98	118
29	130	148	120	146	---	175	350	251	100	94	101	112
30	130	170	120	158	---	170	350	254	127	99	106	106
31	135	---	120	145	---	158	---	285	---	95	100	---
TOTAL	4120	4291	4490	4074	3902	5364	10155	6798	3456	3861	3552	3532
MEAN	133	143	145	131	139	173	339	219	115	125	115	118
MAX	335	170	209	158	155	284	1090	370	201	574	269	206
MIN	86	124	120	115	119	135	151	132	86	71	72	90
AC-FT	8170	8510	8910	8080	7740	10640	20140	13480	6850	7660	7050	7010

CAL YR 1980 TOTAL 145025 MEAN 396 MAX 3000 MIN 86 AC-FT 287700
WTR YR 1981 TOTAL 57595 MEAN 158 MAX 1090 MIN 71 AC-FT 114200

09406300 KANARRA CREEK AT KANARRAVILLE, UTAH

LOCATION.--Lat 37°32'17", long 113°10'04", in SW¼SW¼NE¼ sec.35, T.37 S., R.12 W., Iron County, Hydrologic Unit 15010008, on left bank 1,100 ft (335 m) upstream from mouth of canyon and 0.7 mi (1.1 km) east of Kanarraville.

DRAINAGE AREA.--9.85 mi^2 (25.51 km^2).

PERIOD OF RECORD.--August 1959 to current year.

REVISED RECORDS.--WDR UT-79-1: 1979.

GAGE.--Water-stage recorder and artificial control. Altitude of gage is 5,730 ft (1,747 m) above mean sea level, from topographic map. August 1959 to Oct. 16, 1968 at site 1,200 ft (366 m) downstream at different datum; Oct. 16, 1968 to June 24, 1980 at site 300 ft (91 m) upstream at different datum.

REMARKS.--Records good except those of no gage-height record Oct. 1 to Dec. 19, which are poor. One small diversion 2 mi (3 km) above station diverts water from a spring for the water supply of Kannarraville. Total flow is usually diverted at mouth of canyon for irrigation.

AVERAGE DISCHARGE.--22 years, 4.18 ft^3/s (0.118 m^3/s), 3,030 acre-ft/yr (3.74 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 1,000 ft^3/s (28.3 m^3/s) Aug. 17, 1970, gage height, 2.25 ft (0.686 m), from floodmark; minimum, no flow on Jan. 23, 1978, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19 ft^3/s (0.538 m^3/s) Apr. 19, gage height, 1.85 ft (0.564 m), no peak above base of 100 ft^3/s (2.83 m^3/s); minimum, 1.90 ft^3/s (0.054 m^3/s) Aug. 3, 4, 6-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	3.0	3.0	3.3	2.8	3.1	2.9	8.1	5.2	2.7	2.2	2.2
2	2.7	3.0	3.0	3.3	2.8	3.3	3.1	7.8	4.9	2.7	2.1	2.3
3	2.7	3.0	3.0	3.5	2.8	3.3	3.1	6.8	4.9	2.7	2.1	2.2
4	2.7	3.0	3.4	3.3	2.8	3.1	2.7	5.9	4.6	2.7	2.1	2.1
5	2.7	3.0	3.2	3.3	2.8	3.1	2.9	5.5	4.6	2.6	2.1	2.2
6	2.7	3.0	3.2	3.1	2.8	3.3	3.1	5.4	4.6	2.6	2.1	2.5
7	2.7	3.0	3.1	2.9	2.9	3.5	3.3	4.9	4.9	2.7	1.9	2.7
8	2.7	3.0	3.1	3.0	2.9	3.3	3.5	4.9	4.6	2.6	1.9	2.5
9	2.8	3.0	3.1	2.9	2.9	3.1	4.3	4.6	4.3	2.6	2.6	2.7
10	2.8	3.0	3.1	2.8	2.9	3.1	4.3	4.6	4.3	2.6	5.5	2.5
11	3.0	3.0	3.1	2.9	3.1	3.1	4.6	4.6	4.3	2.6	2.9	2.4
12	5.0	3.4	3.1	3.0	2.9	2.8	4.3	4.3	4.3	2.6	2.6	2.4
13	3.1	3.0	3.1	3.0	2.9	2.8	4.3	4.3	4.0	2.6	2.4	2.9
14	2.9	3.0	3.1	3.0	2.9	3.2	4.3	4.3	3.8	2.6	2.5	2.9
15	2.9	3.0	3.1	3.1	3.1	2.9	5.2	4.6	3.8	2.4	2.8	2.8
16	2.9	3.0	3.1	3.1	3.1	3.0	5.8	4.9	3.8	2.7	2.7	2.6
17	2.9	3.0	3.1	3.1	3.1	2.9	6.5	4.9	3.8	2.9	2.6	2.7
18	2.9	3.0	3.1	3.1	3.1	2.6	9.5	4.6	3.5	2.6	2.6	2.6
19	2.9	3.0	3.1	3.1	3.1	2.6	10	4.3	3.5	2.4	2.5	2.6
20	2.9	3.0	3.1	3.1	3.1	2.7	7.6	6.1	3.3	2.4	2.4	2.5
21	2.9	3.0	3.1	3.1	3.1	2.7	7.2	5.5	3.1	2.4	2.5	2.5
22	2.9	3.0	3.1	3.1	3.1	2.6	8.1	5.8	3.1	2.4	2.4	2.4
23	2.9	3.0	3.1	3.1	3.1	2.7	9.8	5.2	3.1	2.4	2.4	2.4
24	2.9	3.0	3.1	3.1	3.1	2.9	11	4.9	3.1	2.4	2.4	2.5
25	3.0	3.0	3.1	3.0	2.9	3.1	10	4.6	2.9	2.4	2.4	2.5
26	3.3	3.0	3.1	2.9	3.3	3.3	9.6	4.6	2.7	2.4	2.4	2.4
27	3.2	3.0	3.1	2.9	3.3	3.5	9.5	5.2	3.1	2.2	2.3	2.6
28	3.0	3.0	3.1	2.9	3.1	3.1	9.6	5.2	3.1	2.2	2.4	2.6
29	3.0	3.0	3.1	3.0	---	3.1	9.1	5.2	2.7	2.2	2.3	2.6
30	3.0	3.0	3.1	3.1	---	3.1	8.6	4.9	2.7	2.1	2.3	2.6
31	3.0	---	3.3	2.9	---	2.7	---	5.2	---	2.2	2.2	---
TOTAL	91.7	90.4	96.5	95.0	83.8	93.6	187.8	161.7	114.6	77.6	76.6	75.4
MEAN	2.96	3.01	3.11	3.06	2.99	3.02	6.26	5.22	3.82	2.50	2.47	2.51
MAX	5.0	3.4	3.4	3.5	3.3	3.5	11	8.1	5.2	2.9	5.5	2.9
MIN	2.7	3.0	3.0	2.8	2.8	2.6	2.7	4.3	2.7	2.1	1.9	2.1
AC-FT	182	179	191	188	166	186	373	321	227	154	152	150

CAL YR 1980 TOTAL 2803.8 MEAN 7.66 MAX 62 MIN 2.3 AC-FT 5560
WTR YR 1981 TOTAL 1244.7 MEAN 3.41 MAX 11 MIN 1.9 AC-FT 2470

09406600 ASH CREEK RESERVOIR NEAR NEW HARMONY, UTAH

LOCATION.--Lat 37°24'38", long 113°14'05", in NE¼NE¼SE¼ sec.7, T.39 S., R.12 W., Washington County, Hydrologic Unit 15010008, on left bank 300 ft (91 m) west of Highway I-15, 5.9 mi (9.5 km) southeast of New Harmony.

DRAINAGE AREA.--133 mi^2 (344 km^2).

PERIOD OF RECORD.--Nov. 7, 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,655 ft (1,419 m) above mean sea level.

REMARKS.--Reservoir is formed by a porous earthfill dam. Capacity, 3,780 acre-ft (4.66 hm^3) between gage heights 36 ft (11.0 m), approximate bottom of reservoir, and 87 ft (26.5 m). Limited storage to a gage height of 60 ft (18.3 m). No dead storage. Reservoir dam is used for flood control and as a road base for Highway I-15. Capacity table furnished by Utah Dept. of Natural Resources and Energy.

REVISIONS.--Water year 1976.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 4,510 acre-ft (5.56 hm^3) Apr. 29, 1973, gage height, 76.1 ft (23.2 m); no contents at times in 1974, 1976, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,040 acre-ft (1.28 hm^3) Apr. 28, gage height, 51.8 ft (15.8 m); minimum, 180 acre-ft (0.22 hm^3) Nov. 23-29, gage height, 39.8 ft (12.1 m).

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

39	144	50	874
40	186	52	1,060
45	485		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	770	679	220	583	646	659	805	1020	713	427	293	450
2	760	679	240	592	646	676	798	1010	714	423	288	447
3	750	679	250	600	649	699	794	1000	705	418	285	446
4	740	679	260	610	651	704	789	997	693	413	280	443
5	730	679	270	619	652	704	782	980	679	408	276	441
6	720	679	280	627	654	708	774	960	662	403	271	450
7	700	679	290	633	656	715	766	940	645	397	266	816
8	690	679	300	642	657	729	758	920	627	391	260	814
9	679	679	310	644	659	734	750	920	611	386	254	818
10	679	679	320	645	664	733	741	910	594	380	334	817
11	679	679	340	645	664	734	731	900	579	375	470	808
12	679	679	350	646	664	737	721	880	564	369	472	806
13	679	678	360	649	664	741	713	864	548	364	473	806
14	679	676	380	651	663	774	702	847	538	360	472	763
15	679	674	390	652	662	816	693	833	529	356	472	751
16	679	672	410	652	661	828	684	825	522	352	479	724
17	679	669	430	652	660	828	674	826	515	347	478	710
18	679	668	450	653	659	823	674	816	508	346	477	696
19	679	667	465	652	656	817	816	803	501	349	475	688
20	679	621	471	651	655	817	946	800	494	346	474	682
21	679	380	480	648	652	831	977	824	486	342	472	677
22	679	183	490	645	650	832	994	822	480	338	472	667
23	679	180	501	633	649	827	1000	810	474	334	470	662
24	679	179	510	625	648	822	1010	795	467	330	468	651
25	679	180	520	626	645	815	1020	778	462	326	466	654
26	679	180	531	626	650	809	1020	763	456	321	464	643
27	679	180	540	627	657	813	1030	752	450	317	463	625
28	679	180	551	630	659	820	1040	742	443	312	461	627
29	679	181	559	634	---	821	1030	729	437	309	459	627
30	679	204	567	643	---	816	1030	716	432	304	456	627
31	679	---	575	644	---	811	---	703	---	298	453	---
MAX	770	679	575	653	664	832	1040	1020	714	427	479	818
MIN	679	179	220	583	645	659	674	703	432	298	254	441
(†)	47.5	40.3	46.2	47.0	47.2	49.2	51.7	47.8	44.1	41.9	44.5	46.8
(‡)	-101	-475	+371	+69	+15	+152	+219	-327	-271	-134	+155	+174

CAL YR 1980 . . . . . (‡) +75
WTR YR 1981 . . . . . (‡) -153

(†) GAGE HEIGHT, IN FEET, AT END OF MONTH
(‡) CHANGE IN CONTENTS, IN ACRE-FEET

09406700 SOUTH ASH CREEK BELOW MILL CREEK, NEAR PINTURA, UTAH

LOCATION.--Lat 37°21'50", long 113°20'01", in SW¼SW¼SE¼ sec.29, T.39 S., R.13 W., Washington County, Hydrologic Unit 15010008, on right bank 150 ft (46 m) downstream from Harmon Creek, and 3.5 mi (5.6 km) northwest of Pintura.

DRAINAGE AREA.--11.0 mi^2 (28.5 km^2).

PERIOD OF RECORD.--August 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,290 ft (1,612 m) from topographic map.

REMARKS.--Records good except for period of no gage-height record, June 18 to July 13, which are fair. No diversion above station.

AVERAGE DISCHARGE.--15 years, 7.11 ft^3/s (0.201 m^3/s), 5,150 acre-ft/yr (6.35 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,910 ft^3/s (54.1 m^3/s) Dec. 6, 1966, gage height, 5.83 ft (1.777 m); minimum, 0.21 ft^3/s (0.006 m^3/s) Aug. 14, 15, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 41.0 ft^3/s (1.16 m^3/s) Apr. 19, gage height, 2.24 ft (0.683 m), no peak above base of 100 ft^3/s (283 m^3/s); minimum, 0.93 ft^3/s (0.026 m^3/s) Aug. 30 to Sept. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUE

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	2.9	2.5	2.3	2.3	2.4	4.8	7.8	5.1	3.1	1.8	1.2
2	2.4	2.9	2.5	2.3	2.3	2.9	4.7	7.7	4.9	3.0	1.7	1.2
3	2.4	2.9	2.5	2.3	2.3	2.4	4.8	7.5	4.9	2.9	1.7	1.2
4	2.4	2.8	2.7	2.3	2.3	2.4	4.6	7.2	4.9	2.9	1.6	1.2
5	2.4	2.8	2.7	2.3	2.2	2.4	4.6	7.0	4.7	3.0	1.6	1.3
6	2.4	2.8	2.6	2.3	2.4	2.6	4.8	6.8	4.7	3.3	1.6	1.6
7	2.3	2.8	2.5	2.3	2.3	2.6	5.0	6.6	4.7	2.9	1.5	1.5
8	2.3	2.8	2.5	2.3	2.3	2.7	5.2	6.3	4.6	2.9	1.5	1.4
9	2.3	2.8	2.5	2.3	2.3	2.6	5.4	6.3	4.6	2.8	1.5	1.6
10	2.3	2.7	2.6	2.3	2.2	2.6	5.6	6.1	4.5	2.8	2.0	1.6
11	2.3	2.7	2.7	2.2	2.2	2.9	5.5	5.9	4.4	2.9	2.0	1.4
12	3.8	2.9	2.5	2.3	2.2	2.8	5.6	5.7	4.4	2.9	1.9	2.5
13	2.6	2.8	2.5	2.2	2.3	3.1	5.7	5.4	4.4	2.9	1.9	1.6
14	2.6	2.8	2.4	2.2	2.3	3.2	5.7	5.4	4.3	2.8	1.8	1.6
15	3.0	2.8	2.4	2.2	2.3	4.3	5.7	5.4	4.3	2.6	2.0	1.5
16	3.0	2.8	2.4	2.2	2.3	4.1	5.7	5.9	4.2	2.6	1.8	1.4
17	3.0	2.8	2.5	2.2	2.3	3.4	5.9	5.4	4.1	3.1	1.6	1.4
18	3.0	2.9	2.5	2.2	2.3	3.1	8.2	5.2	4.1	2.6	1.6	1.4
19	3.0	2.9	2.5	2.2	2.3	3.1	21	5.2	4.0	2.5	1.6	1.4
20	3.0	2.7	2.4	2.2	2.3	3.4	11	5.9	3.9	2.4	1.5	1.3
21	3.0	2.7	2.4	2.2	2.3	3.9	8.6	5.4	3.7	2.4	1.6	1.3
22	2.9	2.7	2.4	2.2	2.3	4.2	8.4	5.2	3.4	2.3	1.5	1.3
23	2.9	2.7	2.4	2.2	2.3	4.3	8.2	5.0	3.4	2.3	1.4	1.2
24	2.9	2.7	2.4	2.2	2.2	4.5	8.4	4.8	3.4	2.2	1.4	1.3
25	2.9	2.7	2.4	2.2	2.2	4.6	8.6	4.8	3.4	2.1	1.4	1.2
26	3.2	2.7	2.4	2.2	2.6	4.7	8.6	5.0	3.3	2.1	1.4	1.2
27	3.1	2.6	2.4	2.3	2.3	4.4	8.6	5.0	3.2	2.0	1.3	1.2
28	3.0	2.6	2.3	2.2	2.3	4.2	8.4	5.0	3.2	2.0	1.3	1.2
29	3.0	2.5	2.3	2.3	---	4.4	8.2	4.8	3.6	1.9	1.3	1.1
30	3.0	2.5	2.3	2.3	---	4.6	7.9	5.2	3.7	1.9	1.2	1.2
31	3.0	---	2.3	2.2	---	4.3	---	5.4	---	1.8	1.2	---
TOTAL	85.9	82.7	76.4	69.6	64.2	107.1	213.4	180.3	124.0	79.9	49.2	41.5
MEAN	2.77	2.76	2.46	2.25	2.29	3.45	7.11	5.82	4.13	2.58	1.59	1.38
MAX	3.8	2.9	2.7	2.3	2.6	4.7	21	7.8	5.1	3.3	2.0	2.5
MIN	2.3	2.5	2.3	2.2	2.2	2.4	4.6	4.8	3.2	1.8	1.2	1.1
AC-FT	170	164	152	138	127	212	423	358	246	158	98	82

CAL YR 1980 TOTAL 4717.8 MEAN 12.9 MAX 130 MIN 2.1 AC-FT 9360
WTR YR 1981 TOTAL 1174.2 MEAN 3.22 MAX 21 MIN 1.1 AC-FT 2330

09407200 ASH CREEK BELOW WEST FIELD DITCH, AT TOQUERVILLE, UTAH

LOCATION.--Lat 37°15'38", long 113°16'30", in SW¼NW¼SE¼ sec.35, T.40 S., R.13 W., Washington County, Hydrologic Unit 15010008, on left bank 400 ft (122 m) below the West Field Ditch diversion from Ash Creek, 0.5 mi (0.8 km) along turnoff from State Road 15 at north end of Toquerville.

DRAINAGE AREA.--190 mi^2 (492 km^2).

PERIOD OF RECORD.--November 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,440 ft (1,049 m) from topographic map.

REMARKS.--Records good. Figures given herein include West Field Ditch and Toquerville Spring pipeline, both of which divert water about 400 ft (122 m) above the station.

AVERAGE DISCHARGE.--8 years, 24.2 ft^3/s (0.685 m^3/s) 17,530 acre-ft/yr (21.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,850 ft^3/s (52.4 m^3/s) March 5, 1978; minimum daily, 4.4 ft^3/s (0.125 m^3/s) October 23-26, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 72 ft^3/s (2.04 m^3/s) Nov 20; minimum daily, 16 ft^3/s (0.453 m^3/s) Sept. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	23	22	23	18	20	20	20	20	18	18	18
2	23	23	23	22	18	20	20	20	18	18	19	18
3	23	23	22	22	22	20	20	19	18	18	19	18
4	23	23	22	22	21	20	20	19	18	18	19	18
5	23	23	23	21	22	20	20	19	18	19	18	18
6	23	23	22	21	28	21	19	19	18	18	19	18
7	23	23	22	22	28	21	19	19	18	17	18	17
8	23	23	22	22	24	21	20	19	19	18	18	18
9	24	23	21	22	23	20	20	19	19	18	18	16
10	24	23	22	22	21	20	20	19	18	18	23	16
11	24	23	22	22	20	20	20	18	18	18	19	17
12	27	23	22	23	20	20	20	19	18	18	18	17
13	26	23	22	23	20	20	20	18	18	18	18	17
14	23	23	22	22	21	20	20	18	18	18	18	17
15	23	23	22	23	21	22	20	18	18	18	18	17
16	23	22	22	23	21	21	19	20	18	18	18	17
17	23	22	22	23	21	20	19	20	18	18	18	17
18	23	22	22	23	20	19	19	18	18	18	19	17
19	23	22	22	23	20	19	40	18	18	17	18	17
20	23	34	22	21	20	20	24	20	18	17	18	17
21	23	63	22	19	20	19	24	20	18	18	18	17
22	23	43	22	18	20	20	23	19	18	19	18	17
23	23	25	24	19	20	19	22	18	18	19	18	17
24	23	25	25	19	20	19	22	18	18	18	18	17
25	23	24	25	19	20	19	22	18	18	18	18	17
26	23	24	25	18	20	20	22	18	18	18	18	17
27	23	25	25	18	20	20	22	19	18	18	18	17
28	23	25	25	19	20	19	21	19	18	18	18	17
29	23	25	25	17	---	19	21	18	18	18	18	17
30	23	24	25	18	---	20	20	19	18	18	18	17
31	23	---	25	17	---	19	---	21	---	18	18	---
TOTAL	723	770	709	646	589	617	638	586	544	558	569	515
MEAN	23.3	25.7	22.9	20.8	21.0	19.9	21.3	18.9	18.1	18.0	18.4	17.2
MAX	27	63	25	23	28	22	40	21	20	19	23	18
MIN	23	22	21	17	18	19	19	18	18	17	18	16
AC-FT	1430	1530	1410	1280	1170	1220	1270	1160	1080	1110	1130	1020

CAL YR 1980 TOTAL 15906 MEAN 43.5 MAX 374 MIN 13 AC-FT 31550
WTR YR 1981 TOTAL 7464 MEAN 20.4 MAX 63 MIN 16 AC-FT 14800

09408000 LEEDS CREEK NEAR LEEDS, UTAH

LOCATION.--Lat 37°16'03", long 113°22'12", in SW¼SE¼NE¼ sec.36, T.40 S., R.14 W., Washington County, Hydrologic Unit 15010008, on left bank 1,150 ft (351 m) upstream from Leeds Ditch diversion, 2.1 mi (3.4 km) north of Leeds, and 4.4 mi (7.1 km) upstream from mouth.

DRAINAGE AREA.--15.5 mi^2 (40.1 km^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 (1,219 m) from topographic map. Prior to June 1920, at various sites and datums about 600 ft (183 m) downstream; Oct. 28, 1964 to Aug. 20, 1967, water-stage recorder at site 1,000 ft (305 m) downstream at different datum.

REMARKS.--Records good. One diversion above station for domestic use.

AVERAGE DISCHARGE.--17 years, 7.60 ft^3/s (0.215 m^3/s), 5,510 acre-ft/yr (6.79 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,710 ft^3/s (76.7 m^3/s) Aug. 6, 1967, gage height, 5.78 ft (1.762 m), site and datum then in use; minimum recorded, 0.23 ft^3/s (0.007 m^3/s) Jan. 3, 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge measured, 2,980 ft^3/s (84.4 m^3/s) Aug. 12, 1964, gage height, 6.00 ft (1.829 m), from slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 43 ft^3/s (1.22 m^3/s) Aug. 10, gage height, 2.32 ft (0.707 m), no peak above base of 50 ft^3/s (1.42 m^3/s); minimum, 2.2 ft^3/s (0.062 m^3/s) Aug. 7-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	6.3	4.9	4.3	4.1	4.0	4.4	6.5	7.1	6.0	2.9	2.9
2	7.1	6.3	4.9	4.3	4.1	5.5	4.5	6.5	7.1	5.8	2.9	2.9
3	7.1	6.1	4.9	4.3	4.1	4.3	5.0	6.6	7.1	5.9	2.7	2.9
4	7.1	6.1	5.2	4.3	4.1	4.1	4.7	6.6	7.0	5.7	2.7	2.8
5	6.9	5.9	4.9	4.3	4.1	4.2	4.6	6.6	6.9	5.6	2.7	2.8
6	6.7	5.9	4.8	4.3	4.1	4.8	4.5	6.6	6.9	5.4	2.6	2.8
7	6.7	5.9	4.8	4.3	4.1	4.4	4.6	6.6	6.8	5.3	2.6	2.7
8	6.7	5.9	4.8	4.3	4.1	4.4	4.6	6.7	6.9	5.0	2.5	2.7
9	6.7	5.9	4.8	4.2	4.1	4.3	4.7	6.7	6.9	5.0	2.5	2.8
10	6.7	5.9	4.8	4.2	4.1	4.3	4.7	6.7	6.9	5.0	6.4	2.8
11	6.5	5.7	4.8	4.2	4.0	5.1	4.7	6.7	6.9	4.9	3.6	2.7
12	7.9	5.8	4.7	4.1	3.9	4.6	4.9	6.6	6.9	4.9	3.2	5.7
13	7.1	5.7	4.6	4.1	3.9	6.3	4.8	6.5	6.9	4.8	3.2	3.1
14	7.1	5.7	4.5	3.9	3.9	6.0	4.8	6.5	7.2	4.6	3.9	2.8
15	7.1	5.6	4.5	3.9	3.9	5.9	4.8	7.0	7.2	4.7	3.5	2.7
16	6.9	5.6	4.5	3.9	3.9	5.5	4.7	7.2	7.1	4.6	3.5	2.6
17	6.9	5.6	4.5	3.9	3.9	5.2	4.9	7.1	6.9	4.7	3.3	2.7
18	6.8	5.6	4.5	3.9	3.9	4.6	6.5	7.0	6.8	4.4	3.1	2.6
19	6.7	5.6	4.5	3.9	3.9	4.5	18	7.1	6.6	4.1	3.0	2.6
20	6.6	5.4	4.5	3.9	4.0	4.9	14	7.5	6.6	3.9	3.0	2.6
21	6.4	5.4	4.5	3.9	3.9	4.5	8.7	7.2	6.5	3.8	3.0	2.6
22	6.4	5.4	4.5	3.9	3.9	4.5	7.3	6.9	6.4	3.8	3.0	2.6
23	6.3	5.4	4.4	3.9	3.9	4.6	7.0	6.8	6.4	3.6	3.1	2.6
24	6.3	5.3	4.5	3.9	3.9	4.7	6.9	6.7	6.2	3.5	3.1	2.7
25	6.3	5.3	4.5	4.1	3.9	4.7	6.7	6.5	6.1	3.4	3.0	2.6
26	6.8	5.3	4.5	4.1	4.4	4.9	6.7	6.8	6.0	3.2	3.0	2.6
27	6.4	5.3	4.5	4.1	4.0	5.0	6.7	6.9	6.4	3.2	3.0	2.6
28	6.3	5.1	4.5	4.1	3.9	4.9	6.6	6.9	6.3	3.1	3.0	2.6
29	6.3	4.9	4.5	4.1	---	4.7	6.5	6.9	6.3	3.1	3.0	2.6
30	6.3	4.9	4.5	4.3	---	4.7	6.4	6.9	6.2	3.0	3.0	2.6
31	6.3	---	4.4	4.1	---	4.7	---	7.8	---	2.9	2.9	---
TOTAL	208.7	168.8	143.7	127.0	112.0	148.8	187.9	211.6	201.5	136.9	96.9	84.3
MEAN	6.73	5.63	4.64	4.10	4.00	4.80	6.26	6.83	6.72	4.42	3.13	2.81
MAX	7.9	6.3	5.2	4.3	4.4	6.3	18	7.8	7.2	6.0	6.4	5.7
MIN	6.3	4.9	4.4	3.9	3.9	4.0	4.4	6.5	6.0	2.9	2.5	2.6
AC-FT	414	335	285	252	222	295	373	420	400	272	192	167

CAL YR 1980 TOTAL 6692.0 MEAN 18.3 MAX 380 MIN 4.1 AC-FT 13270
WTR YR 1981 TOTAL 1828.1 MEAN 5.01 MAX 18 MIN 2.5 AC-FT 3630

09408150 VIRGIN RIVER NEAR HURRICANE, UTAH

LOCATION.--Lat 37°09'45", long 113°23'42", in NE¼NE¼SW¼ 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 (2.9 km) downstream from Quail Creek and 6.2 mi (10.0 km) west of Hurricane.

DRAINAGE AREA.--1,499 mi^2 (3,882 km^2) (revised).

PERIOD OF RECORD.--March 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,760 ft (841 m) from topographic map.

REMARKS.--Records good except those of no gage-height record, Oct. 27 to Dec. 2, which are poor.

AVERAGE DISCHARGE.--14 years, 237 ft^3/s (6.712 m^3/s), 171,700 acre-ft/yr (212 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,700 ft^3/s (530 m^3/s) Mar. 5, 1978, gage height, 16.28 ft (4.962 m); minimum, 23 ft^3/s (0.65 m^3/s) Aug. 22, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1909, 17.34 ft (5.285 m) Dec. 6, 1966, from floodmarks, discharge 20,100 ft^3/s (569 m^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,100 ft^3/s (59.5 m^3/s) (revised), and maximum(*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 19	0830	3,110	88.1	5.82	1.774
July 15	1930	*4,340	123	6.82	2.079

Minimum, 66 ft^3/s (1.86 m^3/s) July 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	170	225	170	183	195	212	389	234	110	80	86
2	110	175	235	174	186	311	212	340	208	80	79	91
3	114	180	186	164	188	256	280	326	183	73	84	88
4	112	180	180	160	191	211	263	267	163	75	83	92
5	109	185	208	161	187	201	220	234	139	86	78	99
6	110	190	213	158	187	259	206	216	129	88	78	137
7	107	190	203	160	192	257	203	194	118	85	83	129
8	108	180	201	161	192	248	211	183	115	82	80	107
9	112	175	184	161	207	234	223	175	105	79	80	102
10	110	165	170	158	204	218	242	163	102	81	263	104
11	112	165	175	167	191	270	262	155	99	85	316	108
12	235	165	179	174	191	260	280	140	95	188	138	127
13	419	190	180	179	188	272	246	138	117	288	184	277
14	189	170	182	174	190	445	245	128	91	92	137	177
15	212	170	176	170	191	267	247	128	91	656	134	228
16	201	170	181	169	189	234	287	176	92	335	123	122
17	192	170	186	167	196	229	367	257	88	378	301	113
18	194	175	188	170	194	216	566	174	88	154	134	104
19	198	180	184	168	190	213	1530	158	85	87	102	96
20	193	185	182	157	187	238	613	315	84	72	91	87
21	178	185	177	156	181	260	500	278	85	72	90	87
22	166	185	178	166	177	229	420	210	83	90	96	83
23	163	180	180	177	180	224	442	201	81	94	117	88
24	164	180	180	176	180	225	498	188	79	92	102	108
25	169	180	178	174	176	228	542	169	86	92	81	89
26	185	180	180	164	199	236	562	151	85	89	81	94
27	200	180	177	157	213	370	464	216	82	84	83	84
28	180	180	175	172	198	281	374	228	85	76	90	93
29	170	180	177	184	---	251	386	303	95	78	91	90
30	170	200	174	203	---	246	383	259	104	87	91	85
31	175	---	169	189	---	227	---	315	---	84	88	---
TOTAL	5162	5360	5763	5240	5328	7811	11486	6774	3291	4112	3658	3375
MEAN	167	179	186	169	190	252	383	219	110	133	118	113
MAX	419	200	235	203	213	445	1530	389	234	656	316	277
MIN	105	165	169	156	176	195	203	128	79	72	78	83
AC-FT	10240	10630	11430	10390	10570	15490	22780	13440	6530	8160	7260	6690

CAL YR 1980 TOTAL 192545 MEAN 526 MAX 4580 MIN 98 AC-FT 381900
WTR YR 1981 TOTAL 67360 MEAN 185 MAX 1530 MIN 72 AC-FT 133600

09408400 SANTA CLARA RIVER NEAR PINE VALLEY, UTAH

LOCATION.--Lat 37°23'00", long 113°28'57", in NW¼SE¼NE¼ sec.24, T.39 S., R.15 W., Washington County, Hydrologic Unit 15010008, in Dixie National Forest, on right bank 150 ft (46 m) upstream from highway bridge, 0.6 mi (1.0 km) downstream from Pine Valley Reservoir, 1.6 mi (2.6 km) southeast of town of Pine Valley, and 2.5 mi (4.0 km) upstream from Grass Valley Creek.

DRAINAGE AREA.--18.7 mi^2 (48.4 km^2).

PERIOD OF RECORD.--July 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,640 ft (2,023 m) from topographic map.

REMARKS.--Records good except for winter periods, which are poor. Flow slightly regulated by Pine Valley Reservoir. No diversion above station.

AVERAGE DISCHARGE.--22 years, 10.3 ft^3/s (0.286 m^3/s), 7,320 acre-ft/yr (9.03 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 776 ft^3/s (22.0 m^3/s) Dec. 6, 1966, gage height, 6.85 ft (2.088 m); minimum, 0.37 ft^3/s (0.010 m^3/s) Mar. 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 60 ft^3/s (1.70 m^3/s), 95 ft^3/s (2.69 m^3/s) Apr, 19, gage height, 2.68 ft (0.817 m); minimum, 1.2 ft^3/s (0.034 m^3/s) Sept. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	4.8	3.5	3.0	2.4	2.5	5.6	20	16	5.4	3.2	2.4
2	6.4	4.7	3.5	3.0	2.4	3.0	6.1	20	14	5.2	3.1	2.4
3	6.2	4.6	3.4	3.0	2.4	2.6	5.6	36	14	5.0	3.1	2.3
4	6.2	4.6	3.6	3.2	2.3	2.6	5.1	33	12	4.9	3.0	2.3
5	6.0	4.5	3.5	2.9	2.3	3.0	5.4	29	12	4.9	3.0	2.5
6	6.2	4.5	3.5	2.7	2.3	3.1	6.5	25	11	4.8	3.0	3.4
7	6.2	4.5	3.5	2.9	2.3	2.8	8.2	21	10	4.7	2.9	3.3
8	5.8	4.5	3.5	2.9	2.3	2.8	9.4	19	9.6	4.6	2.9	2.8
9	5.6	4.4	3.5	2.9	2.4	2.8	10	17	9.0	4.6	2.9	2.8
10	5.6	4.3	3.4	2.9	2.5	2.9	9.8	16	8.7	4.4	3.7	2.9
11	5.5	4.3	3.4	2.9	2.5	3.2	9.2	15	8.1	4.4	3.4	2.7
12	7.3	5.0	3.3	3.0	2.5	2.9	8.6	15	7.7	4.5	3.2	2.8
13	5.7	4.5	3.3	2.6	2.5	3.5	8.2	15	7.4	4.4	3.2	3.4
14	5.5	4.3	3.2	2.7	2.5	3.1	8.0	14	7.4	4.2	3.3	3.1
15	5.9	4.3	3.2	2.8	2.7	3.2	8.0	15	7.1	4.7	3.6	2.7
16	5.7	4.2	3.2	2.7	2.6	4.3	8.0	14	6.9	4.6	3.4	2.6
17	5.6	4.1	3.3	2.8	2.7	4.6	8.2	13	6.8	6.2	3.1	2.5
18	5.5	4.1	3.2	2.7	2.6	4.2	30	14	6.6	4.5	3.1	2.5
19	5.4	4.1	3.1	2.6	2.6	4.2	80	12	6.3	4.2	3.0	2.4
20	5.2	4.0	3.1	2.6	2.6	4.1	60	12	6.1	4.0	2.9	2.4
21	5.1	3.9	3.1	2.6	2.4	3.7	40	12	6.1	3.8	3.0	2.4
22	5.0	3.9	3.1	2.6	2.4	4.1	31	12	5.9	3.8	2.9	2.3
23	5.0	3.9	3.1	2.5	2.4	5.2	29	11	5.7	3.7	3.0	2.4
24	5.0	3.8	3.0	2.6	2.3	5.8	33	10	5.7	3.6	2.8	2.3
25	4.9	3.8	3.1	2.6	2.3	6.3	37	9.9	5.6	3.5	2.7	2.4
26	5.3	3.8	3.2	2.6	2.6	6.3	34	11	5.4	3.5	2.8	2.3
27	5.1	3.7	3.1	2.7	2.4	5.3	30	14	5.4	3.4	3.0	2.2
28	4.9	3.7	3.1	2.6	2.4	4.8	25	15	5.9	3.3	2.8	2.2
29	4.9	3.6	3.1	2.6	---	4.9	22	15	5.8	3.3	2.6	2.2
30	4.9	3.5	3.1	2.5	---	5.4	20	14	5.6	3.3	2.5	2.3
31	4.8	---	3.0	2.5	---	5.2	---	17	---	3.3	2.4	---
TOTAL	172.8	125.9	101.2	85.2	68.6	122.4	600.9	515.9	243.8	132.7	93.5	77.2
MEAN	5.57	4.20	3.26	2.75	2.45	3.95	20.0	16.6	8.13	4.28	3.02	2.57
MAX	7.3	5.0	3.6	3.2	2.7	6.3	80	36	16	6.2	3.7	3.4
MIN	4.8	3.5	3.0	2.5	2.3	2.5	5.1	9.9	5.4	3.3	2.4	2.2
AC-FT	343	250	201	169	136	243	1190	1020	484	263	185	153

CAL YR 1980 TOTAL 7428.9 MEAN 20.3 MAX 117 MIN 3.0 AC-FT 14740
WTR YR 1981 TOTAL 2340.1 MEAN 6.41 MAX 80 MIN 2.2 AC-FT 4640

09408500 SANTA CLARA-PINTO DIVERSION NEAR PINTO, UTAH
(Transmountain diversion)

LOCATION.--Lat 37°28'04", long 113°28'21", in SW¼SE¼NW¼ sec.19, T.38 S., R.14 W., Washington County, Hydrologic Unit 15010008, on right bank 0.2 mi (0.3 km) downstream from outlet of diversion tunnel and 6 mi (10 km) 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 (2,079 m) from topographic map. Prior to September 1962, at site 600 ft (183 m) 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.--21 years (1953-62, 1969-81) 3.29 ft^3/s (0.093 m^3/s), 2,380 acre-ft/yr (2.93 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 139 ft^3/s (3.94 m^3/s) Apr. 27, 1978, gage height, 2.32 ft (0.710 m); no flow for part of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 72 ft^3/s (2.03 m^3/s) May 12, gage height, 2.32 ft (0.707 m); minimum discharge, no flow for extended periods during year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	1.2	16	14	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	1.3	16	12	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	1.7	15	11	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	1.7	21	9.5	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	1.6	19	7.9	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	1.6	16	5.1	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	1.9	11	3.8	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	2.4	9.9	2.7	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	2.8	8.4	1.8	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	10	4.4	1.5	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	14	2.5	1.0	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	11	10	.20	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	9.2	4.4	.12	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	11	3.6	.06	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	9.9	4.0	.02	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	12	5.1	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.76	16	5.1	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.21	25	3.8	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.09	48	3.8	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.06	26	4.0	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.20	21	3.5	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.56	19	3.2	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	1.5	19	3.0	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	2.8	21	2.5	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	3.8	24	2.0	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	1.8	22	1.8	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	1.7	18	1.6	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	1.5	14	1.6	.00	.00	.00	.00
29	.00	.00	.00	.00	---	2.3	13	2.0	.00	.00	.00	.00
30	.00	.00	.00	.00	---	1.8	14	4.0	.00	.00	.00	.00
31	.00	---	.00	.00	---	1.3	---	15	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	20.38	393.3	223.2	70.70	.00	.00	.00
MEAN	.000	.000	.000	.000	.000	.66	13.1	7.20	2.36	.000	.000	.000
MAX	.00	.00	.00	.00	.00	3.8	48	21	14	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	1.2	1.6	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	40	780	443	140	.00	.00	.00

CAL YR 1980 TOTAL 2410.89 MEAN 6.59 MAX 80 MIN .00 AC-FT 4780
WTR YR 1981 TOTAL 707.58 MEAN 1.94 MAX 48 MIN .00 AC-FT 1400

09409880 SANTA CLARA RIVER AT GUNLOCK, UTAH

LOCATION.--Lat 37°16'55", long 113°46'00", in SW¼SW¼NW¼ 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 (0.8 km) below tailrace of powerhouse.

DRAINAGE AREA.--271 mi^2 (702 km^2).

PERIOD OF RECORD.--August 1969 to current year.

GAGE.--Water-stage recorder and artificial concrete control. Altitude of gage is 3,628 ft (1,106 m) from topographic map.

REMARKS.--Records fair except those of no gage-height record, Oct. 16 to Nov. 22, and Nov. 16 to Feb. 11, which are poor. Many diversions for irrigation above station. Flow regulated by several reservoirs and powerplant above station.

AVERAGE DISCHARGE.--12 years, 28.0 ft^3/s (0.793 m^3/s), 20,290 acre-ft/yr (25.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,810 ft^3/s (79.6 m^3/s) Feb. 14, 1980, gage height, 5.74 ft (1.750 m) from rating curve extended above 1,580 ft^3/s (44.7 m^3/s); no flow several days during 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 74 ft^3/s (2.10 m^3/s) Apr. 19, gage height, 3.49 ft (1.064 m); minimum daily, 2.0 ft^3/s (0.057 m^3/s) Sept. 16-23, 25-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	30	31	22	18	27	34	28	31	9.6	9.5	4.8
2	25	30	31	21	18	29	35	31	28	9.3	9.1	5.0
3	25	30	31	21	19	30	35	34	27	9.5	12	4.6
4	25	30	30	21	19	30	34	35	26	8.8	11	6.7
5	25	30	30	20	19	29	33	35	25	8.4	11	14
6	25	30	29	20	19	31	32	30	26	6.5	10	13
7	25	30	29	20	19	32	30	31	24	7.6	8.8	12
8	25	30	28	20	20	32	29	29	22	8.8	7.7	12
9	25	30	28	20	20	31	25	27	22	9.1	6.6	12
10	25	30	28	20	20	29	28	27	20	12	8.3	11
11	25	30	27	19	21	31	29	28	20	11	9.6	10
12	50	35	27	19	21	34	30	30	18	12	10	13
13	27	35	27	19	21	36	31	29	17	11	9.0	5.0
14	26	31	26	19	21	41	34	29	18	8.3	9.0	6.0
15	30	31	26	19	23	44	33	29	19	8.4	12	4.0
16	28	31	26	19	23	40	32	28	17	7.2	11	2.0
17	28	31	25	19	23	37	31	28	16	8.1	4.0	2.0
18	28	31	25	19	23	34	30	26	16	8.2	2.8	2.0
19	28	31	25	19	23	33	61	27	14	7.4	5.3	2.0
20	28	31	25	19	24	33	49	27	13	7.3	6.2	2.0
21	28	31	24	19	24	33	37	30	13	8.1	5.0	2.0
22	28	31	24	19	25	32	32	29	13	7.8	6.2	2.0
23	28	31	24	18	26	33	29	28	10	7.9	5.0	2.0
24	29	31	24	18	26	32	26	29	10	6.6	5.3	2.6
25	29	31	23	18	26	32	29	28	11	7.9	4.8	2.0
26	29	31	23	18	27	34	34	29	9.7	12	3.8	2.0
27	29	31	23	18	28	36	32	30	8.9	12	3.8	2.0
28	29	31	22	18	27	35	30	28	11	11	6.9	2.0
29	29	31	22	18	---	35	28	28	10	9.9	6.7	2.0
30	29	31	22	18	---	36	28	28	9.7	9.6	4.6	2.0
31	29	---	22	18	---	35	---	31	---	9.4	3.3	---
TOTAL	864	927	807	595	623	1036	980	906	525.3	280.7	228.3	163.7
MEAN	27.9	30.9	26.0	19.2	22.3	33.4	32.7	29.2	17.5	9.05	7.36	5.46
MAX	50	35	31	22	28	44	61	35	31	12	12	14
MIN	25	30	22	18	18	27	25	26	8.9	6.5	2.8	2.0
AC-FT	1710	1840	1600	1180	1240	2050	1940	1800	1040	557	453	325

CAL YR 1980 TOTAL 33613.2 MEAN 91.8 MAX 2040 MIN 5.6 AC-FT 66670
WTR YR 1981 TOTAL 7936.0 MEAN 21.7 MAX 61 MIN 2.0 AC-FT 15740

09410100 SANTA CLARA RIVER BELOW WINSOR DAM, NEAR SANTA CLARA, UTAH

LOCATION.--Lat 37°11'24", long 113°46'03", in SW¼SW¼NW¼ sec.28, T.41 S., R.17 W., Washington County, Hydrologic Unit 15010008, on left bank 900 ft (274 m) downstream from Winsor Dam, 0.6 mi (1.0 km) northwest of Shivwits Indian Village, and 7.5 mi (12.1 km) northwest of Santa Clara.

DRAINAGE AREA.--378 mi^2 (979 km^2).

PERIOD OF RECORD.--December 1971 to current year.

REVISED RECORDS.--WDR UT-73-1: 1972(M).

GAGE.--Water-stage recorder. Altitude of gage is 3,210 ft (978 m) from topographic map, prior to July 11, 1979 at several sites downstream at different datums.

REMARKS.--Records good except those of no gage-height record, Nov. 19 to Jan. 18, which are poor.

AVERAGE DISCHARGE.--9 years, 30.6 ft^3/s (0.867 m^3/s), 22,170 acre-ft/yr (27.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,700 ft^3/s (48.1 m^3/s) Mar. 28, 1979, gage height, 5.75 ft (1.753 m) from rating curve extended above 980 ft^3/s (27.8 m^3/s) slope-area measurement; no flow several days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 208 ft^3/s (5.89 m^3/s) Apr. 20, gage height, 3.51 ft (1.070 m); minimum, 0.24 ft^3/s (0.007 m^3/s) Oct. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	11	25	21	22	21	35	19	14	17	17	17
2	31	10	25	20	22	32	34	18	14	17	17	17
3	22	12	25	20	22	41	37	21	15	18	17	17
4	22	12	24	20	22	25	35	19	18	17	16	18
5	27	12	22	20	22	5.4	32	21	19	17	16	24
6	23	12	22	20	22	16	43	23	17	18	16	26
7	21	13	22	20	22	47	65	21	17	18	16	25
8	18	21	22	20	22	46	59	18	17	18	16	25
9	20	23	22	20	23	43	57	17	17	18	17	21
10	14	24	22	20	23	44	92	17	17	18	17	14
11	17	12	22	20	24	44	91	17	17	17	17	9.2
12	26	12	22	20	24	45	87	17	18	19	17	13
13	21	13	21	20	24	48	91	16	17	19	16	9.6
14	5.0	15	21	20	24	50	87	16	17	17	16	6.4
15	4.4	16	21	20	24	48	91	16	17	17	17	7.5
16	12	15	21	16	24	44	81	16	17	18	18	8.3
17	13	20	21	14	25	42	98	16	17	18	17	15
18	16	28	21	15	25	37	98	16	17	18	17	17
19	18	29	21	18	25	35	38	15	17	19	17	19
20	19	30	21	16	26	37	80	15	17	19	17	21
21	13	30	21	15	25	38	59	15	17	20	18	18
22	15	29	21	15	25	34	51	14	17	19	18	13
23	15	28	21	15	22	34	34	15	17	19	18	13
24	12	28	21	15	22	34	28	14	17	19	19	13
25	11	27	21	16	21	32	30	14	19	19	17	13
26	11	27	21	15	22	33	34	15	19	18	17	13
27	11	26	21	18	21	38	43	15	18	18	17	12
28	11	26	21	22	21	38	45	15	18	19	17	12
29	10	25	21	22	---	37	29	14	18	20	17	12
30	12	25	21	22	---	36	25	14	18	17	17	12
31	14	---	21	22	---	34	---	15	---	18	17	---
TOTAL	515.4	611	674	577	646	1138.4	1709	514	514	563	526	461.0
MEAN	16.6	20.4	21.7	18.6	23.1	36.7	57.0	16.6	17.1	18.2	17.0	15.4
MAX	31	30	25	22	26	50	98	23	19	20	19	26
MIN	4.4	10	21	14	21	5.4	25	14	14	17	16	6.4
AC-FT	1020	1210	1340	1140	1280	2260	3390	1020	1020	1120	1040	914

CAL YR 1980 TOTAL 34124.11 MEAN 93.2 MAX 1150 MIN .31 AC-FT 67690
WTR YR 1981 TOTAL 8448.80 MEAN 23.1 MAX 98 MIN 4.4 AC-FT 16760

09413200 VIRGIN RIVER NEAR BLOOMINGTON, UTAH

LOCATION.--Lat 37°04'14", long 113°34'55", in SE¼NW¼SW¼ sec.6, T.43 S., R.15 W., Washington County, Hydrologic Unit 15010010, on left bank 2.5 mi (4.0 km) south of St. George.

DRAINAGE AREA.--3,831 mi^2 (9,922 km^2).

PERIOD OF RECORD.--September 16, 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,530 ft (771 m) from topographic map, prior to Sept. 19, 1978 at site 1.5 mi (2.4 km) downstream at different datum.

REMARKS.--Records good except those of no gage-height record, Dec. 5 to Jan. 9, and Jan. 30 to Mar. 8, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 10,000 ft^3/s (283 m^3/s) Feb. 15, 1980; minimum, 5.8 ft^3/s (0.164 m^3/s) Sept. 21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,020 ft^3/s (114 m^3/s) July 15, gage height, 7.90 ft (2.408 m); minimum, 15 ft^3/s (0.425 m^3/s) July 4, Aug. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	138	221	180	205	210	245	339	199	28	21	32
2	26	127	208	180	200	350	217	312	168	29	23	30
3	35	134	215	175	200	300	284	305	143	22	25	39
4	24	130	238	175	200	240	295	280	117	16	24	35
5	60	134	240	170	200	220	174	239	105	26	23	42
6	56	134	240	170	200	210	154	209	88	25	21	153
7	59	150	230	170	205	270	174	192	66	22	20	85
8	59	158	220	165	210	300	170	174	64	26	21	87
9	59	158	205	160	210	315	138	156	46	23	25	66
10	66	166	190	151	215	379	162	126	41	31	255	63
11	59	170	190	157	210	462	183	136	57	22	957	51
12	217	178	190	171	205	472	196	128	48	43	179	55
13	363	231	190	162	200	391	191	89	33	290	145	224
14	124	215	195	167	200	597	191	80	45	76	107	111
15	130	196	195	166	200	368	204	88	40	360	132	299
16	154	196	200	169	205	310	222	128	44	520	156	96
17	142	200	200	169	205	290	300	230	36	562	231	64
18	134	211	195	168	205	259	402	122	35	179	161	37
19	142	204	190	180	200	250	1220	119	33	73	70	37
20	150	213	190	162	195	269	716	181	34	40	33	38
21	127	245	190	170	195	320	515	294	32	32	26	34
22	96	234	190	167	190	259	414	174	34	35	30	32
23	93	191	190	206	195	259	410	133	32	34	36	33
24	93	196	190	209	195	240	422	138	26	33	79	45
25	93	209	190	187	200	226	452	131	25	26	55	42
26	120	180	190	182	210	229	470	122	23	26	32	53
27	166	208	190	164	220	455	410	171	22	26	25	40
28	170	196	190	195	220	352	354	206	22	22	27	39
29	134	211	185	207	---	315	342	252	23	24	28	32
30	154	223	185	210	---	320	331	206	29	27	28	37
31	162	---	185	210	---	290	---	233	---	24	30	---
TOTAL	3497	5536	6217	5474	5695	9727	9958	5693	1710	2722	3025	2031
MEAN	113	185	201	177	203	314	332	184	57.0	87.8	97.6	67.7
MAX	363	245	240	210	220	597	1220	339	199	562	957	299
MIN	24	127	185	151	190	210	138	80	22	16	20	30
AC-FT	6940	10980	12330	10860	11300	19290	19750	11290	3390	5400	6000	4030

CAL YR 1980 TOTAL 231302 MEAN 632 MAX 5800 MIN 24 AC-FT 458800
WTR YR 1981 TOTAL 61285 MEAN 168 MAX 1220 MIN 16 AC-FT 121600

VIRGIN RIVER BASIN

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ

LOCATION.--Lat 36°53'30", long 113°55'25", in SW¼SW¼ sec.4, T.40 N., R.15 W., Mohave County, Hydrologic Unit 15010010, on right bank 0.5 mi (0.8 km) downstream from Beaver Dam Wash, 0.4 mi (0.6 km) upstream from Littlefield, and 36 mi (58 km) upstream from waterline of Lake Mead at elevation 1,221 ft (372.2 m) NGVD of 1929.

DRAINAGE AREA.--5,090 mi^2 (13,200 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to current year.

REVISED RECORDS.--WSP 959: 1932. WSP 979: 1930-31, 1933-37. WSP 1313: 1940(M).

GAGE.--Water-stage recorder. Datum of gage is 1,763.68 ft (537.570 m) NGVD of 1929. Prior to May 28, 1933, nonrecording gage at site 300 ft (91 m) upstream and May 28, 1933, to Nov. 7, 1939, at same site, both at datum 2.53 ft (0.771 m) higher. Nov. 8, 1939, to Mar. 31, 1942, nonrecording gage at same site at datum 2.00 ft (0.610 m) higher. Apr. 1, 1942, to Sept. 30, 1970, water-stage recorder at same site at same datum. Oct. 1, 1970, to Aug. 7, 1979 at site 300 ft (91 m) upstream at same datum.

REMARKS.--Records fair except for periods of no gage-height record, Oct. 25 to Nov. 20, Apr. 13-27, May 16-31, and Aug. 22 to Sept. 18, which are poor. Diversion above station for irrigation of about 23,200 acres (93.9 km^2).

AVERAGE DISCHARGE.--52 years, 234 ft^3/s (6.627 m^3/s), 169,500 acre-ft/yr (209 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,200 ft^3/s (997 m^3/s) Dec. 6, 1966, gage height, 15.66 ft (4.773 m), site then in use, from rating curve extended above 1,500 ft^3/s (42.5 m^3/s) on basis of slope-area measurement of peak flow; minimum, 38 ft^3/s (1.08 m^3/s) May 1, 10, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,260 ft^3/s (64.0 m^3/s) July 16, gage height, 6.70 ft (2.042 m), no peak above base of 3,000 ft^3/s (85 m^3/s); minimum daily, 72 ft^3/s (2.04 m^3/s) Aug. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	260	253	262	245	241	297	362	230	81	82	80
2	120	250	245	262	245	301	270	343	197	81	82	80
3	120	240	245	266	241	419	283	324	170	85	82	90
4	120	240	249	257	241	330	297	306	160	83	82	90
5	120	240	283	257	245	279	249	262	133	83	84	90
6	120	240	297	257	245	297	241	234	128	81	84	180
7	120	243	301	253	257	365	229	208	117	81	84	140
8	120	253	301	249	262	349	237	194	102	79	84	100
9	120	256	297	229	283	325	210	173	99	79	86	100
10	120	263	270	207	279	306	210	148	104	79	90	100
11	130	285	253	199	266	310	229	142	109	79	1240	100
12	180	310	257	210	257	370	249	136	104	79	365	150
13	250	400	262	203	253	330	250	120	83	233	183	250
14	450	270	274	203	241	535	250	107	83	154	150	200
15	350	270	274	207	253	419	250	104	83	97	143	350
16	380	273	274	207	257	360	250	170	83	837	167	100
17	400	280	274	207	249	334	450	250	81	408	244	96
18	330	285	274	207	245	315	700	200	79	237	192	90
19	300	280	274	210	233	297	1400	180	79	153	112	86
20	310	295	270	210	233	306	1000	250	81	104	93	88
21	270	310	266	203	245	334	800	300	81	90	88	88
22	257	280	266	203	237	310	500	250	81	84	85	80
23	241	278	262	214	237	301	500	180	81	86	83	78
24	241	274	266	237	222	292	510	170	81	86	200	78
25	230	270	274	233	225	283	520	153	81	84	150	93
26	250	268	283	218	207	266	530	145	81	82	95	95
27	270	264	274	214	257	389	540	200	81	82	76	97
28	280	261	274	214	245	386	388	220	81	82	72	88
29	270	259	274	233	---	334	382	270	81	84	74	90
30	250	256	274	257	---	334	362	240	81	84	76	86
31	270	---	262	262	---	330	---	250	---	84	78	---
TOTAL	7109	8153	8402	7050	6905	10347	12583	6591	3115	4121	4806	3433
MEAN	229	272	271	227	247	334	419	213	104	133	155	114
MAX	450	400	301	266	283	535	1400	362	230	837	1240	350
MIN	120	240	245	199	207	241	210	104	79	79	72	78
AC-FT	14100	16170	16670	13980	13700	20520	24960	13070	6180	8170	9530	6810

CAL YR 1980 TOTAL 236665 MEAN 647 MAX 8780 MIN 75 AC-FT 469400
WTR YR 1981 TOTAL 82615 MEAN 226 MAX 1400 MIN 72 AC-FT 163900

GREAT SALT LAKE BASIN

10010000 GREAT SALT LAKE, UTAH

LOCATION.--Lat 40°44'05", long 112°12'45", in NE¼SW¼NW¼ sec.17, T.1 S., R.3 W., Salt Lake County, Hydrologic Unit 16020204, at Salt Lake County Boat Harbor on southeast shore of lake, 17.1 mi (27.5 km) 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. WDR 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 (1,276.14 m) NGVD of 1929. October 1938 to April 15, 1967, at datum 4,186.9 ft (1,276.17 m) and April 15, 1967 to September 15, 1970, at datum 4,186.85 ft (1,276.15 m). 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 (1,282.72 m) NGVD of 1929, November 1877 to November 1879 at Farmington Bay at 4,206.9 ft (1,282.26 m) NGVD of 1929, November 1879 to April 1881 near Black Rock at 4,203.1 ft (1,281.10 m) NGVD of 1929, April 1881 to December 1899 at Garfield Landing at 4,198.5 ft (1,279.70 m) NGVD of 1929, and July 1903 to October 1938 at Saltair at 4,196.9 ft (1,279.22 m) NGVD of 1929. Staff gage at midlake October 1902 to September 1956 at 4,197.9 ft (1,279.52 m) 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 (1,283.48 m) June 30, 1876; minimum, 4,191.35 ft (1,277.523 m) Oct. 15, Nov. 1, 1963. Maximum elevation since 1851, 4,211.6 ft (1,283.70 m) in 1873, computed from traditional data by G. K. Gilbert and E. C. LaRue.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4,200.25 ft (1,280.236 m) June 15; minimum, 4,198.45 ft (1,279.688 m) Sept. 15.

GAGE HEIGHT AND ELEVATION, IN FEET, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Day		Gage height	Elevation
Oct.	1	12.30	4,199.10
	15	12.20	4,199.00
Nov.	1	12.20	4,199.00
	15	12.30	4,199.10
Dec.	1	12.45	4,199.25
	15	12.55	4,199.35
Jan.	1	12.70	4,199.50
	15	12.85	4,199.65
Feb.	1	13.00	4,199.80
	15	13.05	4,199.85
Mar.	1	13.05	4,199.85
	15	13.15	4,199.95
Apr.	1	13.20	4,200.00
	15	13.25	4,200.05
May	1	13.25	4,200.05
	15	13.15	4,199.95
June	1	13.30	4,200.10
	15	13.45	4,200.25
July	1	13.15	4,199.95
	15	12.80	4,199.60
Aug.	1	12.45	4,199.25
	15	12.10	4,198.90
Sept.	1	11.85	4,198.65
	15	11.65	4,198.45

10010050 GREAT SALT LAKE AT PROMONTORY POINT, UTAH

LOCATION.--Lat 41°12'55", long 112°29'55", in NE¼SW¼SE¼ sec.26, T.6 N., R.6 W., Box Elder County, Hydrologic Unit 16020310, at pipeline energy dissipator at head end of flume, 1.4 mi (2.3 km) west of Saline on south side of causeway, 500 ft (152 m) south of pumping plant, 27.3 mi (43.9 km) west of Ogden, and 31.1 mi (50.0 km) south of Thiokol.

PERIOD OF RECORD.--October 1968 to current year.

REVISED RECORDS.--WDR UT-75-1: 1968-1975.

GAGE.--Water-stage recorder on pier of pipeline energy dissipator. Datum of gage, 4,190.126 ft (1,277.150 m) NGVD of 1929. Levels from USGS BM 76FMK.

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, 4,202.25 ft (1,280.846 m) May 15, June 1, 1976; minimum, 4,194.30 ft (1,278.423 m) Oct. 1, 15, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4,199.85 ft (1,280.114 m) June 15; minimum, 4,198.20 ft (1,279.611 m) Sept. 15.

GAGE HEIGHT AND ELEVATION, IN FEET, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Day		Gage height	Elevation
Oct.	1	8.65	4,198.80
	15	8.55	4,198.70
Nov.	1	8.60	4,198.75
	15	8.65	4,198.80
Dec.	1	8.75	4,198.90
	15	8.90	4,199.05
Jan.	1	9.00	4,199.15
	15	9.10	4,199.25
Feb.	1	9.25	4,199.40
	15	9.35	4,199.50
Mar.	1	9.40	4,199.55
	15	9.50	4,199.65
Apr.	1	9.55	4,199.70
	15	9.60	4,199.75
May	1	9.40	4,199.70
	15	9.50	4,199.65
June	1	9.60	4,199.75
	15	9.70	4,199.85
July	1	9.55	4,199.70
	15	9.20	4,199.35
Aug.	1	8.80	4,198.95
	15	8.50	4,198.65
Sept.	1	8.20	4,198.35
	15	8.05	4,198.20

10010100 GREAT SALT LAKE NEAR SALINE, UTAH

LOCATION.--Lat 41°15'30", long 112°29'58", in NE¼SW¼SW¼ sec.11, T.6 N., R.6 W., Box Elder County, Hydrologic Unit 16020309, 3.4 mi (5.5 km) north of Saline at the Southern Pacific Causeway boat harbor, 27.4 mi (44.1 km) west of Ogden and 28.2 mi (45.4 km) south of Thiokol.

PERIOD OF RECORD.--April 1966 to current year.

REVISED RECORDS.--WDR UT-75-1: 1966-75.

GAGE.--Water-stage recorder on pier of boat harbor. Datum of gage, 4,189.976 ft (1,277.105 m) NGVD of 1929 by levels from U.S. Topographic Division, B.M. 78FMK.

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, 4,200.30 ft (1,280.251 m) May 1, 15, June 1, 1976; minimum, 4,192.70 ft (1,277.935 m) Oct. 15, Nov. 1, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4,198.65 ft (1,279.748 m) June 1; minimum, 4,197.40 ft (1,279.368 m) Sept. 15.

GAGE HEIGHT AND ELEVATION, IN FEET, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Day		Gage height	Elevation
Oct.	1	7.80	4,197.80
	15	7.70	4,197.70
Nov.	1	7.70	4,197.70
	15	7.75	4,197.75
Dec.	1	7.80	4,197.80
	15	7.85	4,197.85
Jan.	1	8.05	4,198.05
	15	8.10	4,198.10
Feb.	1	8.25	4,198.25
	15	8.35	4,198.35
Mar.	1	8.40	4,198.40
	15	8.50	4,198.50
Apr.	1	8.55	4,198.55
	15	8.60	4,198.60
May	1	8.60	4,198.60
	15	8.55	4,198.55
June	1	8.65	4,198.65
	15	8.60	4,198.60
July	1	8.40	4,198.40
	15	8.25	4,198.25
Aug.	1	7.95	4,197.95
	15	7.80	4,197.80
Sept.	1	7.55	4,197.55
	15	7.40	4,197.40

10010400 EAST FORK BEAR RIVER NEAR EVANSTON, WY

LOCATION.--Lat 40°52'25", long 110°47'00", in SE¼SW¼ sec.26, T.2 N., R.10 E., Summit County, Utah, Hydrologic Unit 16010101, Wasatch National Forest, on right bank 4.1 mi (6.6 km) upstream from mouth, 11.5 mi (18.5 km) upstream from Utah-Wyoming State line, and 28.7 mi (46.2 km) south of Evanston.

DRAINAGE AREA.--34.6 mi^2 (89.6 km^2).

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,760 ft (2,670 m) from topographic map.

REMARKS.--Records good except those for winter months and period of no gage-height record, Mar. 7 to Apr. 14, which are fair.

AVERAGE DISCHARGE.--8 years, 50.0 ft^3/s (1.42 m^3/s), 36,220 acre-ft/yr (44.7 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 784 ft^3/s (22.2 m^3/s) June 8, 1981, gage height, 4.20 ft (1.280 m); minimum, 4.5 ft^3/s (0.127 m^3/s) Apr. 17, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 784 ft^3/s (22.2 m^3/s) June 8, gage height, 4.20 ft (1.280 m); minimum, 6.7 ft^3/s (0.190 m^3/s) Feb. 18, 19, 20, 22, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	22	12	9.7	9.9	10	13	137	329	109	26	14
2	14	20	12	9.5	10	11	12	176	319	118	25	14
3	14	20	12	9.4	9.9	11	13	173	299	104	24	14
4	14	16	12	9.2	9.2	12	13	130	277	94	24	13
5	13	19	13	14	8.8	11	14	105	331	89	23	22
6	13	19	12	13	8.8	10	14	90	429	87	22	24
7	13	18	12	9.7	8.4	10	14	80	528	86	22	22
8	13	19	11	9.9	8.4	10	14	69	582	81	21	21
9	13	21	12	9.5	8.4	11	13	62	578	79	21	19
10	13	18	12	9.5	8.8	11	15	62	479	84	23	23
11	13	17	12	9.2	8.8	10	17	67	468	81	23	22
12	14	18	12	9.5	8.8	11	20	58	430	74	23	20
13	19	18	13	9.9	8.8	10	20	57	340	68	26	19
14	18	15	13	9.9	8.8	11	21	64	251	62	27	18
15	19	12	13	10	8.4	10	22	71	197	57	22	17
16	19	13	13	9.9	8.4	10	23	63	173	55	21	17
17	19	13	13	10	8.0	11	24	59	168	56	19	16
18	19	14	12	10	7.7	11	25	62	160	52	19	16
19	20	14	12	10	7.7	10	29	79	166	47	19	15
20	21	14	12	11	7.7	10	31	84	181	44	19	15
21	20	13	12	11	8.0	10	27	73	190	41	20	15
22	18	13	12	11	8.0	10	26	65	184	38	21	15
23	16	12	11	11	8.0	10	31	62	176	37	18	14
24	15	13	10	11	8.0	10	41	66	167	36	18	16
25	17	10	11	11	8.0	10	53	79	156	35	17	17
26	20	11	10	11	9.0	11	74	116	150	35	17	16
27	22	12	9.9	11	9.9	11	84	153	149	34	17	15
28	20	12	9.9	10	9.9	11	72	166	140	31	16	14
29	18	12	9.4	9.9	---	12	80	214	129	30	16	14
30	20	12	9.6	9.9	---	12	103	260	116	28	15	13
31	21	---	9.9	9.9	---	13	---	320	---	28	14	---
TOTAL	523	460	359.7	319.5	242.5	331	958	3322	8242	1900	638	510
MEAN	16.9	15.3	11.6	10.3	8.66	10.7	31.9	107	275	61.3	20.6	17.0
MAX	22	22	13	14	10	13	103	320	582	118	27	24
MIN	13	10	9.4	9.2	7.7	10	12	57	116	28	14	13
AC-FT	1040	912	713	634	481	657	1900	6590	16350	3770	1270	1010

CAL YR 1980 TOTAL 18768.4 MEAN 51.3 MAX 406 MIN 6.5 AC-FT 37230
WTR YR 1981 TOTAL 17805.7 MEAN 48.8 MAX 582 MIN 7.7 AC-FT 35320

10011200 WEST FORK BEAR RIVER AT WHITNEY DAM, NEAR OAKLEY, UTAH

LOCATION.--Lat 40°50'30", long 110°55'35", in NE¼ sec.9, T.1 N., R.9 E., Summit County, Hydrologic Unit 16010101, Wasatch National Forest, on left bank 1,380 ft (421 m) downstream from Whitney Dam, 7 mi (11 km) upstream from Deer Creek, and 21.5 mi (34.6 km) northeast of Oakley.

DRAINAGE AREA.--6.79 mi^2 (17.59 km^2).

PERIOD OF RECORD.--October 1963 to current year. Prior to October 1965 published as, "at Whitney Dam Site."

REVISED RECORD.--WDR UT-73: 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 (2,780 m) from topographic map.

REMARKS.--Records good except those for winter months, which are fair. Flow regulated by Whitney Reservoir, total capacity, 4,700 acre-ft (5.80 hm^3) since July 1966.

AVERAGE DISCHARGE.--15 years (water years 1967-81), 7.76 ft^3/s (0.220 m^3/s), 5,620 acre-ft/yr (6.93 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 145 ft^3/s (4.11 m^3/s) June 13, 1965; maximum gage height, 3.08 ft (0.939 m) June 26, 1967; no flow July 24 to Sept. 30, Nov. 16-29, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 50 ft^3/s (1.42 m^3/s) July 27, gage height, 2.22 ft (0.677 m); minimum daily, 0.25 ft^3/s (0.007 m^3/s) July 12 and Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.45	2.2	3.0	3.0	2.4	2.4	2.4	3.7	3.9	.53	46	43
2	.40	2.2	3.0	3.0	2.4	2.4	2.4	3.8	4.0	.47	45	43
3	.40	2.2	3.0	3.0	2.4	2.4	2.4	3.6	4.0	.45	24	41
4	.35	2.3	3.0	3.0	2.4	2.4	2.4	3.6	4.0	.41	8.6	39
5	.35	2.4	3.0	3.0	2.4	2.4	2.4	3.7	4.0	.40	8.6	37
6	.30	2.4	2.9	2.9	2.1	2.4	2.4	3.8	3.3	.35	8.6	36
7	.38	2.4	2.9	2.9	2.0	2.4	2.4	3.7	1.5	.35	8.6	20
8	1.2	2.4	2.9	2.9	2.1	2.4	2.4	3.7	1.4	.35	8.4	11
9	1.4	2.4	2.9	2.9	2.2	2.4	2.4	3.7	1.3	.30	8.4	11
10	1.4	2.4	2.9	2.9	2.2	2.4	2.4	3.8	1.3	.30	13	11
11	1.4	2.4	2.9	2.9	2.2	2.4	2.4	3.9	1.3	.30	16	11
12	1.5	2.4	2.9	2.9	2.2	2.4	2.4	3.7	1.1	.25	16	11
13	1.7	2.5	2.9	2.8	2.2	2.4	2.4	3.8	1.1	26	16	6.7
14	1.7	2.5	3.0	2.8	2.2	2.4	2.5	3.8	1.1	39	15	.65
15	1.7	2.7	3.0	2.8	2.2	2.4	2.5	3.9	1.1	39	15	.55
16	1.7	2.8	2.9	2.8	2.3	2.4	2.5	3.9	.96	39	15	.45
17	1.7	2.8	3.0	2.8	2.3	2.4	2.6	3.9	.96	39	15	.40
18	1.7	2.8	3.0	2.9	2.2	2.4	2.6	3.9	.96	39	15	.30
19	1.8	2.8	3.0	2.8	2.3	2.4	2.7	4.0	.85	38	15	.25
20	1.8	2.9	3.0	2.8	2.4	2.4	2.7	4.0	.85	38	15	.43
21	1.7	2.9	3.0	2.8	2.4	2.4	2.7	4.0	.75	36	14	1.7
22	1.7	2.9	3.0	2.8	2.4	2.4	2.7	4.0	.75	32	14	1.8
23	2.1	2.9	3.0	2.8	2.4	2.4	2.9	3.9	.70	32	12	1.9
24	2.2	2.9	3.0	2.7	2.4	2.4	3.1	3.7	.70	31	8.0	1.8
25	2.2	2.9	3.0	2.4	2.4	2.4	3.5	3.8	.70	31	8.0	1.7
26	2.2	2.9	3.0	2.4	2.4	2.4	3.7	4.0	.70	31	7.8	2.1
27	2.4	2.9	3.0	2.4	2.4	2.4	3.3	4.0	.70	41	7.8	1.6
28	2.4	2.9	3.0	2.4	2.4	2.4	3.4	4.1	.70	49	11	1.4
29	2.3	2.9	3.0	2.4	---	2.4	3.4	4.1	.70	48	45	1.3
30	2.2	2.9	3.0	2.4	---	2.4	3.6	4.1	.65	47	44	1.3
31	2.2	---	3.0	2.4	---	2.4	---	4.1	---	46	43	---
TOTAL	46.93	78.9	92.1	85.7	64.3	74.4	81.6	119.7	46.03	725.46	546.8	340.33
MEAN	1.51	2.63	2.97	2.76	2.30	2.40	2.72	3.86	1.53	23.4	17.6	11.3
MAX	2.4	2.9	3.0	3.0	2.4	2.4	3.7	4.1	4.0	49	46	43
MIN	.30	2.2	2.9	2.4	2.0	2.4	2.4	3.6	.65	.25	7.8	.25
AC-FT	93	156	183	170	128	148	162	237	91	1440	1080	675

CAL YR 1980 TOTAL 2853.40 MEAN 7.80 MAX 80 MIN .30 AC-FT 5660
WTR YR 1981 TOTAL 2302.25 MEAN 6.31 MAX 49 MIN .25 AC-FT 4570

10011400 WEST FORK BEAR RIVER BELOW DEER CREEK, NEAR EVANSTON, WY

LOCATION.--Lat 40°56'40", long 110°51'40", in NW¼SW¼ sec.6, T.2 N., R.10 E., Summit County, Utah, Hydrologic Unit 16010101, on left bank 0.8 mi (1.3 km) downstream from Deer Creek, 2.1 mi (3.4 km) upstream from mouth, and 22.9 mi (36.8 km) south of Evanston.

DRAINAGE AREA.--52.2 mi^2 (135.2 km^2).

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,190 ft (2,496 m) from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Whitney Reservoir, total capacity, 4,700 acre-ft (5.80 hm^3), since July 1966.

AVERAGE DISCHARGE.--8 years, 38.6 ft^3/s (1.09 m^3/s), 27,970 acre-ft/yr (34.5 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 511 ft^3/s (14.5 m^3/s) June 8, 1975, gage height, 4.00 ft (1.219 m); minimum, 2.0 ft^3/s (0.057 m^3/s) Aug. 11, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 316 ft^3/s (8.95 m^3/s) May 2, gage height, 3.37 ft (1.027 m); minimum, 7.9 ft^3/s (0.224 m^3/s) Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	14	18	14	14	16	19	178	219	29	50	47
2	8.8	14	18	15	13	17	18	224	205	36	49	46
3	8.7	14	18	15	12	16	19	209	204	33	35	44
4	8.5	15	15	15	12	18	20	126	180	27	17	42
5	8.7	16	13	14	12	18	20	128	187	22	16	49
6	8.6	16	13	14	13	18	20	120	198	20	15	45
7	8.9	17	13	14	14	17	20	85	202	19	14	33
8	10	20	13	14	15	16	20	77	204	18	14	20
9	10	18	13	14	15	16	20	69	189	20	13	23
10	11	18	14	14	13	17	29	80	158	22	17	28
11	11	18	15	14	12	16	35	109	141	21	21	27
12	11	20	16	14	14	16	44	74	127	20	21	25
13	15	20	16	14	15	17	43	66	121	34	24	23
14	14	18	16	14	16	17	51	86	106	60	24	14
15	15	15	16	14	17	17	46	108	94	60	21	13
16	13	16	17	14	17	17	49	87	79	60	20	13
17	12	17	17	14	17	18	57	82	70	57	18	12
18	12	18	17	14	17	17	57	96	66	54	21	12
19	12	18	18	14	16	16	52	116	60	50	23	11
20	12	18	18	14	15	16	49	127	57	47	23	10
21	12	18	18	14	14	16	46	115	54	45	23	10
22	12	18	18	14	14	15	45	92	50	43	23	11
23	11	17	18	14	14	14	50	83	46	41	24	10
24	10	16	18	14	15	15	67	94	44	40	16	11
25	11	14	18	15	16	15	85	130	42	39	16	12
26	12	14	17	15	17	15	94	188	38	38	16	11
27	14	15	17	16	16	16	89	179	36	46	16	10
28	13	15	16	17	16	17	83	186	35	55	16	9.6
29	12	16	15	18	---	18	116	194	32	54	46	9.3
30	13	18	14	17	---	19	148	209	29	52	51	8.9
31	14	---	14	16	---	19	---	237	---	51	50	---
TOTAL	353.0	501	497	453	411	515	1511	3954	3273	1213	753	639.8
MEAN	11.4	16.7	16.0	14.6	14.7	16.6	50.4	128	109	39.1	24.3	21.3
MAX	15	20	18	18	17	19	148	237	219	60	51	49
MIN	8.5	14	13	14	12	14	18	66	29	18	13	8.9
AC-FT	700	994	986	899	815	1020	3000	7840	6490	2410	1490	1270

CAL YR 1980 TOTAL 17293.1 MEAN 47.2 MAX 337 MIN 6.8 AC-FT 34300
WTR YR 1981 TOTAL 14073.8 MEAN 38.6 MAX 237 MIN 8.5 AC-FT 27920

10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE

LOCATION.--Lat 40°57'55", long 110°51'10", in SE¼ sec.30, T.3 N., R.10 E., Summit County, Utah Hydrologic Unit 16010101, on left bank just downstream from West Fork and 2.8 mi (4.5 km) upstream from Utah-Wyoming State line.

DRAINAGE AREA.--172 mi^2 (445 km^2).

PERIOD OF RECORD.--July 1942 to current year.

REVISED RECORDS.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,965 ft (2,427.7 m) from river-profile map.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated slightly by Whitney Reservoir, total capacity, 4,700 acre-ft (5.80 hm^3) since 1966. Three diversions above station for irrigation of about 265 acres (1.07 km^2) above and 2,600 acres (10.5 km^2) below station.

AVERAGE DISCHARGE.--39 years, 187 ft^3/s (5.30 m^3/s), 135,500 acre-ft/yr (167 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,980 ft^3/s (84.4 m^3/s) June 6, 1968, gage height, 3.79 ft (1.155 m); maximum gage height, 4.27 ft (1.301 m) June 6, 1957; minimum discharge determined, 12 ft^3/s (0.340 m^3/s) Nov. 9, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,100 ft^3/s (31.2 m^3/s), and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 2	2200	1140	32.3	3.02	0.920
May 31	2400	1380	39.1	3.33	1.015
June 9	0300	*2320	65.7	4.15	1.265

Minimum discharge, 21 ft^3/s (0.595 m^3/s) Mar. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	58	50	41	34	35	38	688	1160	292	118	103
2	46	54	49	40	33	38	40	886	1130	319	116	101
3	46	54	48	40	32	33	38	863	1090	295	118	101
4	46	50	48	39	34	39	39	552	966	248	89	101
5	44	56	50	40	35	38	47	492	1070	224	83	122
6	44	56	51	40	35	38	43	450	1270	215	79	136
7	44	56	51	38	35	34	45	353	1500	218	77	109
8	44	62	40	38	35	34	40	315	1580	203	77	91
9	42	62	42	38	35	38	44	281	1650	189	75	81
10	35	58	43	38	35	33	58	284	1360	197	85	83
11	35	56	44	38	33	36	72	348	1310	194	97	85
12	35	67	45	38	35	33	74	274	1260	183	95	75
13	54	62	46	38	34	35	81	251	1090	183	116	72
14	58	53	46	38	35	33	93	284	863	194	122	61
15	74	43	46	38	35	32	105	340	681	183	99	51
16	72	46	45	38	35	32	107	303	594	178	93	48
17	68	48	45	38	35	33	131	288	570	178	87	45
18	66	50	44	38	35	35	160	307	540	167	85	44
19	66	50	44	38	34	33	175	380	540	160	87	43
20	53	50	42	38	34	33	157	420	582	147	89	40
21	51	52	43	38	37	32	154	366	606	140	85	40
22	48	54	43	38	32	36	142	319	576	133	91	40
23	43	52	43	38	34	35	167	292	534	126	87	39
24	40	53	42	36	36	34	227	311	498	126	75	42
25	45	45	43	34	34	32	319	380	450	124	70	47
26	51	45	43	33	33	34	415	576	425	124	70	51
27	58	50	43	36	33	34	405	688	415	131	70	44
28	53	53	42	35	33	36	353	737	385	133	68	40
29	48	51	38	36	---	38	410	849	348	126	99	38
30	53	50	40	36	---	39	558	958	311	124	105	38
31	56	---	41	36	---	40	---	1130	---	122	105	---
TOTAL	1566	1596	1380	1168	960	1085	4737	14965	25354	5576	2812	2011
MEAN	50.5	53.2	44.5	37.7	34.3	35.0	158	483	845	180	90.7	67.0
MAX	74	67	51	41	37	40	558	1130	1650	319	122	136
MIN	35	43	38	33	32	32	38	251	311	122	68	38
AC-FT	3110	3170	2740	2320	1900	2150	9400	29680	50290	11060	5580	3990

CAL YR 1980 TOTAL 67365 MEAN 184 MAX 1360 MIN 25 AC-FT 133600
WTR YR 1981 TOTAL 63210 MEAN 173 MAX 1650 MIN 32 AC-FT 125400

10015700 SULPHUR CREEK ABOVE RESERVOIR, NEAR EVANSTON, WY

LOCATION.--Lat 41°08'38", long 110°48'19", in SE¼SW¼ sec.35, T.14 N., R.119 W., Uinta County, Hydrologic Unit 16010101, on right bank 1.2 mi (1.9 km) downstream from Willow Creek, 2 mi (3.2 km) upstream from Sulphur Creek Dam, and 11.5 mi (18.5 km) southeast of Evanston.

DRAINAGE AREA.--64.2 mi^2 (166.3 km^2).

PERIOD OF RECORD.--October 1957 to current year. Monthly discharge only for October and November 1957, published in WSP 1734.

REVISED RECORDS.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,180 ft (2,188 m) from topographic map.

REMARKS.--Records good except those for winter months, which are fair. Several diversions for irrigation above station.

AVERAGE DISCHARGE.--24 years, 15.8 ft^3/s (0.447 m^3/s), 11,450 acre-ft/yr (14.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,220 ft^3/s (34.6 m^3/s) Apr. 21, 1965, gage height, 6.02 ft (1.835 m); maximum gage height, 6.19 ft (1.887 m) Mar. 11, 1972 (backwater from ice); no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 301 ft^3/s (8.52 m^3/s) Apr. 12, gage height, 4.43 ft (1.350 m); no flow Aug. 24, 25, Sept. 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.23	.64	2.1	3.6	4.5	5.0	8.5	77	51	2.4	.29	.03
2	.23	.57	2.0	3.7	4.3	5.2	9.5	82	40	15	.35	.02
3	.23	.50	2.1	3.8	4.1	5.6	10	108	39	16	.38	.00
4	.23	.50	2.3	4.0	4.0	5.8	9.6	50	36	13	.38	.00
5	.23	.50	2.5	4.5	4.1	5.6	10	36	29	8.0	.32	.13
6	.23	.50	2.7	4.3	4.2	5.5	13	42	28	6.0	.32	.18
7	.23	.47	3.0	4.0	4.3	5.4	16	42	25	4.0	.26	.20
8	.20	.50	2.5	4.0	4.4	5.6	22	39	22	1.4	.29	.23
9	.20	.57	2.6	4.0	4.5	5.5	31	37	20	.92	.29	.23
10	.20	.50	2.7	4.0	4.3	5.4	66	28	16	.71	.23	.26
11	.23	.50	2.9	4.0	4.1	5.4	109	53	13	.71	.17	.32
12	.26	.71	3.1	4.0	4.2	5.6	144	48	9.7	.71	.12	.26
13	.44	.92	2.9	4.0	4.4	5.8	136	37	16	.47	.14	.23
14	.57	.71	2.7	4.0	4.5	7.0	107	28	19	.44	.85	.18
15	1.1	.64	2.9	4.0	4.4	6.6	117	38	20	.71	.29	.17
16	.92	.50	3.1	4.0	4.5	6.2	119	57	14	.41	.23	.17
17	.71	.47	3.3	4.1	4.7	5.8	93	81	8.0	.41	.17	.17
18	.64	.50	3.4	4.2	4.8	5.9	74	76	6.3	.57	.16	.17
19	.64	.50	3.3	4.3	5.0	6.0	75	62	6.3	.50	.12	.17
20	.57	.85	3.2	4.5	4.9	6.2	57	68	5.4	.78	.12	.14
21	.64	.99	3.3	4.7	4.8	6.0	43	56	5.4	.44	.11	.14
22	.71	.99	3.4	4.9	4.7	5.9	38	45	4.9	.38	.08	.14
23	.64	1.1	3.3	5.0	4.9	6.2	40	52	4.9	.35	.02	.14
24	.50	1.7	3.2	4.9	5.1	6.6	54	119	3.6	.38	.00	.14
25	.50	1.5	3.3	4.7	5.3	7.5	83	74	2.4	.57	.00	.16
26	.57	1.7	3.4	4.5	5.5	8.0	102	101	2.7	.78	.08	.17
27	.71	1.9	3.5	4.7	5.4	7.8	78	82	3.8	.71	.06	.17
28	.64	2.0	3.4	4.9	5.2	8.0	51	68	4.9	.47	.02	.16
29	.57	2.1	3.3	4.8	---	8.2	56	75	2.4	.41	.02	.16
30	.64	2.2	3.4	4.7	---	8.0	75	55	1.9	.35	.04	.12
31	.64	---	3.5	4.6	---	7.8	---	57	---	.32	.04	---
TOTAL	15.05	27.73	92.3	133.4	129.1	195.1	1846.6	1873	460.6	78.30	5.95	4.76
MEAN	.49	.92	2.98	4.30	4.61	6.29	61.6	60.4	15.4	2.53	.19	.16
MAX	1.1	2.2	3.5	5.0	5.5	8.2	144	119	51	16	.85	.32
MIN	.20	.47	2.0	3.6	4.0	5.0	8.5	28	1.9	.32	.00	.00
AC-FT	30	55	183	265	256	387	3660	3720	914	155	12	9.4

CAL YR 1980 TOTAL 6551.04 MEAN 17.9 MAX 290 MIN .08 AC-FT 12990
WTR YR 1981 TOTAL 4861.89 MEAN 13.3 MAX 144 MIN .00 AC-FT **9640**

10015900 SULPHUR CREEK BELOW RESERVOIR, NEAR EVANSTON, WY

LOCATION.--Lat 41°09'21", long 110°50'05", in SE¼SE¼ sec.28, T.14 N., R.119 W., Uinta County, Hydrologic Unit 16010101, on left bank 400 ft (122 m) downstream from Sulphur Creek Dam, 6.3 mi (10.1 km) upstream from mouth, and 10.5 mi (16.9 km) southeast of Evanston.

DRAINAGE AREA.--69.2 mi^2 (179.2 km^2).

PERIOD OF RECORD.--April 1958 to current year.

REVISED RECORDS.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete V-notch control. Altitude of gage is 7,120 ft (2,170 m) from topographic map.

REMARKS.--Records good. Flow regulated by Sulphur Creek Reservoir, capacity, 7,100 acre-ft (8.75 hm^3). Records prior to 1965 do not include flow over spillway of the dam.

AVERAGE DISCHARGE.--17 years (water years 1965-81), 23.3 ft^3/s (0.660 m^3/s), 16,880 acre-ft/yr (20.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD (SINCE 1966).--Maximum discharge, 425 ft^3/s (12.0 m^3/s) May 10, 1974, gage height, 3.71 ft (1.131 m); no flow at times each year except 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 186 ft^3/s (5.27 m^3/s) Apr. 13, gage height, 2.60 ft (0.792 m); no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	73	79	9.8	37	42
2	.00	.00	.00	.00	.00	.00	.00	73	67	13	37	41
3	.00	.00	.00	.00	.00	.00	.00	83	61	25	37	36
4	.00	.00	.00	.00	.00	.00	.00	88	61	28	37	18
5	.00	.00	.00	.00	.00	.00	.00	77	58	27	35	23
6	.00	.00	.00	.00	.00	.00	.00	72	54	29	33	23
7	.00	.00	.00	.00	.00	.00	.00	71	49	38	33	23
8	.00	.00	.00	.00	.00	.00	.00	71	39	35	33	20
9	.00	.00	.00	.00	.00	.00	.00	70	10	34	33	7.3
10	.00	.00	.00	.00	.00	.00	.00	59	14	34	32	6.8
11	.00	.00	.00	.00	.00	.00	29	6.2	17	34	33	6.4
12	.00	.00	.00	.00	.00	.00	92	6.9	17	33	40	3.7
13	.00	.00	.00	.00	.00	.00	159	12	18	33	44	.86
14	.00	.00	.00	.00	.00	.00	154	19	22	38	32	.77
15	.00	.00	.00	.00	.00	.00	143	25	29	47	22	.72
16	.00	.00	.00	.00	.00	.00	143	42	31	47	22	.67
17	.00	.00	.00	.00	.00	.00	143	64	25	46	23	.65
18	.00	.00	.00	.00	.00	.00	122	95	20	43	27	.80
19	.00	.00	.00	.00	.00	.00	107	89	18	39	27	.94
20	.00	.00	.00	.00	.00	.00	96	81	17	34	29	.95
21	.00	.00	.00	.00	.00	.00	83	74	15	19	46	.91
22	.00	.00	.00	.00	.00	.00	76	66	13	26	44	.98
23	.00	.00	.00	.00	.00	.00	73	59	11	32	42	.99
24	.00	.00	.00	.00	.00	.00	71	88	3.9	32	37	.99
25	.00	.00	.00	.00	.00	.00	71	93	5.1	31	55	1.1
26	.00	.00	.00	.00	.00	.00	74	96	6.0	31	54	1.0
27	.00	.00	.00	.00	.00	.00	76	98	5.9	31	53	.87
28	.00	.00	.00	.00	.00	.00	77	87	5.7	32	53	.00
29	.00	.00	.00	.00	---	.00	74	84	5.8	42	53	.00
30	.00	.00	.00	.00	---	.00	73	92	7.4	52	52	.00
31	.00	---	.00	.00	---	.00	---	95	---	46	42	---
TOTAL	.00	.00	.00	.00	.00	.00	1936.00	2109.1	784.8	1040.8	1177	263.40
MEAN	.000	.000	.000	.000	.000	.000	64.5	68.0	26.2	33.6	38.0	8.78
MAX	.00	.00	.00	.00	.00	.00	159	98	79	52	55	42
MIN	.00	.00	.00	.00	.00	.00	.00	6.2	3.9	9.8	22	.00
AC-FT	.00	.00	.00	.00	.00	.00	3840	4180	1560	2060	2330	522

CAL YR 1980 TOTAL 9178.44 MEAN 25.1 MAX 250 MIN .00 AC-FT 18210
WTR YR 1981 TOTAL 7311.10 MEAN 20.0 MAX 159 MIN .00 AC-FT 14500

10019500 CHAPMAN CANAL AT STATE LINE, NEAR EVANSTON, WY

LOCATION.--Lat 41°24'24", long 111°02'26", in SE¼ sec.36, T.17 N., R.121 W., Uinta County, Hydrologic Unit 16010101, on left bank at highway bridge, 6.5 mi (10.5 km) downstream from headgates, and 10 mi (16 km) northwest 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 (2,003 m) 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 (6 m) downstream at same datum.

REMARKS.--Records good except for winter months, which are fair. Canal diverts water from Bear River in NW¼ 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.--37 years (water years 1945-81), 19.9 ft^3/s (0.564 m^3/s), 14,420 acre-ft/yr (17.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 143 ft^3/s (4.05 m^3/s) June 24, 1970; no flow at times each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	28	.00	.00	.00	10	54	37	86	35	8.8	3.7
2	13	13	.00	.00	.00	12	61	41	74	34	5.0	4.3
3	13	9.9	.00	.00	.00	14	73	48	66	56	3.7	4.3
4	12	.00	.00	.00	.00	14	64	45	57	55	2.6	4.0
5	9.9	.00	.00	.00	.00	14	50	44	60	41	2.6	1.8
6	8.1	.00	.00	.00	.00	14	28	47	79	37	2.3	7.1
7	8.8	.00	.00	.00	.00	14	28	35	89	48	.96	14
8	9.2	.00	.00	.00	.00	14	28	16	97	47	.60	14
9	8.5	.00	.00	.00	.00	18	26	16	98	33	.60	13
10	9.2	.00	.00	.00	.00	20	34	15	105	23	.48	17
11	7.8	.00	.00	.00	.00	21	28	16	83	23	.60	20
12	7.4	.00	.00	.00	.00	22	9.6	16	90	21	.96	20
13	9.6	.00	.00	.00	.00	28	9.6	16	88	20	.72	16
14	15	.00	.00	.00	.00	37	12	40	71	17	1.8	14
15	23	.00	.00	.00	.00	42	10	81	54	15	6.0	13
16	28	.00	.00	.00	.00	50	9.6	83	74	15	4.0	8.5
17	26	.00	.00	.00	5.0	48	9.2	83	61	15	2.6	9.6
18	26	.00	.00	.00	10	39	8.5	90	53	17	3.4	9.9
19	26	.00	.00	.00	10	38	8.5	92	50	17	2.3	8.8
20	26	.00	.00	.00	10	40	7.4	81	50	11	2.0	8.1
21	28	.00	.00	.00	10	38	7.1	69	52	9.2	2.9	8.5
22	28	.00	.00	.00	10	31	6.7	66	50	6.4	2.3	7.4
23	28	.00	.00	.00	10	39	6.7	62	41	3.2	2.0	7.4
24	25	.00	.00	.00	10	48	8.8	62	39	.96	4.7	7.4
25	24	.00	.00	.00	10	46	9.6	64	35	2.0	3.7	7.1
26	26	.00	.00	.00	10	48	9.9	72	32	3.2	5.4	9.2
27	28	.00	.00	.00	10	54	9.6	84	33	3.7	5.0	11
28	26	.00	.00	.00	10	46	14	86	32	2.6	5.4	11
29	25	.00	.00	.00	---	51	37	91	29	1.8	5.4	8.8
30	26	.00	.00	.00	---	63	39	93	28	1.8	4.0	7.1
31	28	---	.00	.00	---	58	---	91	---	9.6	4.0	---
TOTAL	591.5	50.90	.00	.00	115.00	1031	706.8	1782	1856	624.46	96.82	296.0
MEAN	19.1	1.70	.000	.000	4.11	33.3	23.6	57.5	61.9	20.1	3.12	9.87
MAX	28	28	.00	.00	10	63	73	93	105	56	8.8	20
MIN	7.4	.00	.00	.00	.00	10	6.7	15	28	.96	.48	1.8
AC-FT	1170	101	.00	.00	228	2040	1400	3530	3680	1240	192	587

CAL YR 1980 TOTAL 6431.40 MEAN 17.6 MAX 134 MIN .00 AC-FT 12760
WTR YR 1981 TOTAL 7150.48 MEAN 19.6 MAX 105 MIN .00 AC-FT 14180

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UTAH

LOCATION.--Lat 41°26'04", long 111°01'01", in NW¼NW¼ sec.29, T.17 N., R.120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, on right bank 9.3 mi (15.0 km) upstream from Woodruff Narrows Dam and 10 mi (16 km) southeast of Woodruff.

DRAINAGE AREA.--752 mi^2 (1,948 km^2).

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,455 ft (1,967.5 m) from river-profile map.

REMARKS.--Records good except those for winter months, which are fair. Diversion for irrigation of about 43,500 acres (176 km^2) above station.

AVERAGE DISCHARGE.--20 years, 228 ft^3/s (6.46 m^3/s), 165,200 acre-ft/yr (204 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,340 ft^3/s (94.6 m^3/s) June 13, 1965, gage height, 5.89 ft (1.795 m); minimum, 0.1 ft^3/s (0.003 m^3/s) Aug. 24, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,860 ft^3/s (52.7 m^3/s) June 10, gage height, 5.06 ft (1.542 m); minimum, 0.78 ft^3/s (0.022 m^3/s) Aug. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	50	31	65	50	64	88	830	1410	49	2.5	4.3
2	11	60	36	65	50	65	103	992	1340	45	3.1	4.3
3	12	64	51	68	50	45	148	1300	1310	60	2.5	5.2
4	12	68	53	74	50	57	142	1190	1210	77	1.8	5.7
5	11	68	53	65	60	51	150	848	1100	65	1.0	8.0
6	8.9	70	50	60	60	46	150	744	1180	51	.86	7.0
7	8.0	70	50	49	60	50	100	672	1350	45	.86	19
8	8.4	72	50	45	60	38	190	604	1580	39	.94	23
9	8.4	74	50	50	60	37	180	556	1670	33	.94	22
10	7.5	77	45	50	60	37	180	480	1720	23	.94	16
11	8.4	74	50	50	50	42	440	502	1360	18	.94	13
12	8.4	75	50	50	55	46	610	514	1140	17	1.1	13
13	8.9	97	50	50	60	53	700	430	998	15	1.2	10
14	13	97	55	50	60	50	520	350	810	16	1.4	8.0
15	37	70	55	50	65	57	568	375	604	14	8.4	7.0
16	59	50	60	50	65	77	586	455	430	15	9.8	6.6
17	53	45	60	50	65	77	538	496	315	12	6.1	6.1
18	49	40	60	50	65	53	532	592	255	12	2.5	6.6
19	51	35	65	50	65	49	532	580	216	11	2.2	6.6
20	50	35	65	50	65	53	496	640	197	11	2.5	5.7
21	56	40	70	50	60	51	440	630	208	8.9	2.8	5.7
22	57	45	70	50	60	40	410	562	197	7.0	3.1	6.1
23	56	45	70	48	65	42	380	470	173	5.7	4.7	5.7
24	46	40	65	46	70	62	405	490	148	4.7	4.3	7.0
25	38	35	65	45	75	67	496	526	131	4.3	4.7	7.0
26	44	35	65	50	80	67	645	625	113	4.3	3.9	7.0
27	50	32	65	55	75	86	738	815	99	4.3	3.5	8.9
28	46	32	65	55	70	64	655	908	95	4.3	6.6	9.3
29	41	34	70	60	---	75	580	1020	86	3.9	5.7	9.3
30	41	32	65	60	---	108	678	1160	64	3.5	5.7	8.4
31	48	---	65	55	---	106	---	1250	---	2.8	4.7	---
TOTAL	959.9	1661	1774	1665	1730	1815	12380	21606	21509	681.7	101.28	271.5
MEAN	31.0	55.4	57.2	53.7	61.8	58.5	413	697	717	22.0	3.27	9.05
MAX	59	97	70	74	80	108	738	1300	1720	77	9.8	23
MIN	7.5	32	31	45	50	37	88	350	64	2.8	.86	4.3
AC-FT	1900	3290	3520	3300	3430	3600	24560	42860	42660	1350	201	539

CAL YR 1980 TOTAL 92051.70 MEAN 252 MAX 1720 MIN 5.5 AC-FT 182600
WTR YR 1981 TOTAL 66154.38 MEAN 181 MAX 1720 MIN .86 AC-FT 131200

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 1980 TO SEPTEMBER 1981

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)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD-NESS (MG/L AS CACO3)
OCT										
07...	1315	8.2	580	7.9	21.3	14.5	2.0	10.2	--	280
08...	1000	8.7	610	--	--	7.0	--	--	--	--
NOV										
13...	1110	92	360	8.6	-.5	3.5	--	10.6	--	--
19...	0845	37	580	--	--	.0	--	--	--	--
DEC										
17...	1445	60	440	--	--	--	3.0	--	3	230
JAN										
05...	1305	56	600	--	--	.0	--	--	--	--
21...	1400	50	495	8.6	4.5	1.0	--	13.2	2	230
FEB										
18...	1430	67	390	8.4	4.0	.5	40	11.8	K8	200
MAR										
18...	1400	51	510	8.5	3.5	6.0	35	10.2	K3	240
APR										
15...	1400	592	440	8.4	13.0	9.0	110	--	60	240
MAY										
04...	2000	979	255	--	--	8.5	--	--	--	--
13...	1330	445	280	8.5	18.0	9.0	15	9.4	K320	160
20...	1545	713	300	--	--	10.5	--	--	--	--
JUN										
01...	1130	1320	250	--	--	12.0	--	--	--	--
17...	1400	265	240	8.2	16.5	15.0	20	8.0	300	140
JUL										
15...	1415	13	520	8.3	23.0	23.5	--	8.6	K12	240
AUG										
19...	1320	2.5	--	--	--	23.5	--	--	--	--
19...	1400	2.5	540	--	21.0	22.5	--	8.2	--	220
SEP										
10...	1630	17	520	--	--	17.0	--	--	--	--
16...	1500	5.9	500	8.5	23.5	22.0	4.0	8.4	K15	230

DATE	HARD-NESS, NONCAR-BONATE (MG/L 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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)
OCT									
07...	34	58	33	32	20	.8	3.7	300	0
08...	--	--	--	--	--	--	--	--	--
NOV									
13...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
DEC									
17...	26	58	22	15	12	.4	1.8	230	9
JAN									
05...	--	--	--	--	--	--	--	--	--
21...	2	57	21	19	15	.5	2.5	260	9
FEB									
18...	0	47	20	17	15	.5	2.8	250	0
MAR									
18...	10	51	27	18	14	.5	2.8	280	0
APR									
15...	19	56	25	15	12	.4	2.4	270	0
MAY									
04...	--	--	--	--	--	--	--	--	--
13...	12	39	15	11	13	.4	1.3	180	0
20...	--	--	--	--	--	--	--	--	--
JUN									
01...	--	--	--	--	--	--	--	--	--
17...	17	42	8.4	7.0	10	.3	1.4	150	0
JUL									
15...	5	48	29	29	21	.8	3.7	280	3
AUG									
19...	--	--	--	--	--	--	--	--	--
19...	15	30	36	40	27	1.2	5.7	250	0
SEP									
10...	--	--	--	--	--	--	--	--	--
16...	25	41	30	31	22	.9	5.7	250	0

K Results based on colony count outside the acceptable range (non-ideal colony count).

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALKALINITY FIELD (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	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, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
OCT									
07...	250	6.0	49	34	.3	8.2	368	.50	8.2
08...	--	--	--	--	--	--	--	--	--
NOV									
13...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
DEC									
17...	200	--	18	23	.3	3.7	264	.36	42.8
JAN									
05...	--	--	--	--	--	--	--	--	--
21...	230	1.1	25	20	.4	4.6	290	.39	39.1
FEB									
18...	200	1.6	9.1	21	.2	.0	237	.32	42.9
MAR									
18...	230	1.4	18	26	.3	5.1	290	.39	39.9
APR									
15...	220	1.7	28	15	.2	15	290	.39	464
MAY									
04...	--	--	--	--	--	--	--	--	--
13...	150	.9	12	20	.2	2.2	188	.26	226
20...	--	--	--	--	--	--	--	--	--
JUN									
01...	--	--	--	--	--	--	--	--	--
17...	120	1.5	12	16	.2	7.1	160	.22	114
JUL									
15...	240	2.3	26	32	.4	1.0	310	.42	10.9
AUG									
19...	--	--	--	--	--	--	--	--	--
19...	200	--	40	42	.1	3.1	320	.44	2.2
SEP									
10...	--	--	--	--	--	--	--	--	--
16...	200	1.3	44	34	.1	6.4	320	.44	5.1

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)
OCT										
07...	.030	.04	.68	.71	.71	.00	.02	3.1	.000	.12
NOV										
13...	.030	.04	.38	.41	.41	.00	--	1.8	.100	.31
DEC										
17...	--	--	--	--	--	--	.06	--	.120	--
JAN										
21...	.050	.06	.28	.33	.33	.00	.00	1.5	.270	.64
FEB										
18...	--	--	--	--	--	--	.00	--	.040	--
MAR										
18...	.050	--	.78	.83	.83	.00	.18	3.7	.060	.15
APR										
15...	--	--	--	1.70	--	--	.03	--	.090	1.2
MAY										
13...	--	--	--	--	--	--	.05	--	.220	--
JUN										
17...	.110	--	1.1	1.20	1.2	.00	.08	5.3	.040	.34
JUL										
15...	.190	--	.67	.86	.91	.05	.26	4.0	.010	.15
AUG										
19...	.190	--	.80	.99	1.1	.10	.07	4.8	.050	.09
SEP										
16...	.090	--	.82	.91	.98	.07	.00	4.3	.040	.09

10020200 WOODRUFF NARROWS RESERVOIR NEAR WOODRUFF, UTAH

LOCATION.--Lat 41°30'10", long 111°00'55", in SE¼NW¼NW¼ 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 (9.0 km) upstream from Wyoming-Utah State line, and 7.7 mi (12.4 km) east of Woodruff.

DRAINAGE AREA.--784 mi^2 (2,031 km^2).

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

REVISED RECORDS.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder and mercury manometer. Datum of gage is 6,405 ft (1,952.2 m) from levels by Bureau of Reclamation.

REMARKS.--Records fair. Reservoir formed by earthfill, rock-faced dam. Storage began Jan. 5, 1962. Total capacity, 28,000 acre-ft (34.5 hm^3) below spillway crest. Total capacity increased to 57,300 in 1980. Gage height of spillway is 50.4 ft (15.36 m). Figures given herein represent total contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed contents, 59,790 acre-ft (73.7 hm^3) June 9, 1981, gage height, 51.5 ft (15.70 m); minimum observed, 880 acre-ft (1.09 hm^3) Sept. 15-25, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum observed contents, 59,790 acre-ft (73.7 hm^3) June 9, gage height, 51.5 ft (15.697 m); minimum observed, 4,420 acre-ft (5.45 hm^3) Oct. 8.

Capacity table (gage height, in feet, and total contents, in acre-feet)

12	3,810	26	15,670	40	36,160
14	5,030	28	17,870	42	39,840
16	6,280	30	20,280	44	43,720
18	7,900	32	23,080	46	47,620
20	9,520	34	25,900	48	51,920
22	11,360	36	29,330	50	56,400
24	13,380	38	32,750	52	60,920

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4700	6600	10500	13680	16800	20300	24630	49340	48690	44300	21800	17430
2	4700	6700	10700	13780	16900	20400	24770	51060	49980	43000	21700	17210
3	4600	6800	10800	13980	17000	20500	25050	53600	50840	41800	21500	17100
4	4600	7000	10900	14080	17100	20600	25340	55940	52100	40600	21390	17100
5	4500	7100	11100	14180	17200	20700	25620	57070	53030	39300	21200	16990
6	4500	7300	11100	14280	17300	20800	25900	58400	54300	38100	21100	16880
7	4500	7500	11200	14390	17400	20900	26070	59000	55900	36900	20900	16770
8	4420	7600	11300	14510	17500	20900	26420	59110	57800	35650	20800	16770
9	4500	7800	11400	14770	17700	20980	26760	58500	59790	34400	20600	16660
10	4500	8000	11400	14770	17800	21120	27100	58100	59700	33100	20500	16660
11	4500	8100	11500	14770	17900	21250	27960	57700	59700	32000	20300	16440
12	4500	8300	11600	14900	18000	21390	29160	57300	59110	31400	20200	16330
13	4500	8500	11700	14900	18100	21530	30530	56300	59000	30800	20000	16220
14	4600	8700	11700	15030	18200	21810	31550	54900	58900	30200	19900	16220
15	4700	8900	11800	15160	18400	21810	32580	53600	58800	29700	19700	16220
16	4800	9000	11900	15160	18500	21950	33600	52500	58600	29100	19600	16220
17	4900	9100	12000	15280	18600	22240	34620	51500	57800	28500	19500	16110
18	5100	9200	12100	15280	18700	22240	35650	50630	57000	27900	19300	16110
19	5200	9270	12200	15410	18900	22380	36680	49980	56300	27300	19200	16110
20	5300	9400	12300	15540	19000	22520	37550	49340	55500	26760	19000	16110
21	5400	9500	12400	15540	19100	22660	38280	48690	54800	26300	18900	16110
22	5500	9600	12500	15780	19200	22940	39060	47840	54000	25800	18800	16110
23	5600	9700	12670	15780	19400	22940	39840	46840	53200	25400	18600	16110
24	5700	9900	12770	15890	19500	23080	40810	46050	52360	24900	18500	16000
25	5800	10000	12970	16000	19700	23360	41580	45270	51300	24400	18300	15890
26	5900	10100	12970	16100	19800	23640	42940	45080	50100	23900	18200	15890
27	6000	10200	13170	16200	20000	23640	44100	45080	49000	23500	18100	15780
28	6100	10300	13280	16300	a20160	23790	45660	45270	47800	23000	17900	15780
29	6200	10400	13380	16400	---	24070	46640	45850	46700	22600	17800	15780
30	6300	a10450	13480	16600	---	24210	47620	46440	a45460	22200	17700	15780
31	a6440	---	13580	a16660	---	24490	---	47420	---	a21950	17540	---
MAX	6440	10450	13580	16660	20160	24490	47620	59110	59790	44300	21800	17430
MIN	4420	6600	10500	13680	16800	20300	24630	45080	45460	21950	17540	15780
(†)	---	---	24.2	---	---	33.0	46.0	45.9	---	---	27.7	26.1
(‡)	+1650	+4010	+3130	+3080	+3500	+4330	+23130	-200	-1960	-23510	-4410	-1760

CAL YR 1980 . . . . . (‡) +5140
WTR YR 1981 . . . . . (‡) +10990

(†) ELEVATION, IN FEET, AT END OF MONTH
(‡) CHANGE IN CONTENTS, IN ACRE-FEET

10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UTAH

LOCATION.--Lat 41°30'20", long 111°00'50", in NW¼NW¼ sec.32, T.18 N., R.120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, on right bank 1,100 ft (340 m) downstream from Woodruff Narrows Dam, 1.6 mi (2.6 km) upstream from Salt Creek, 5.4 mi (8.7 km) upstream from Wyoming-Utah State line, and 7.7 mi (12.4 km) east of Woodruff.

DRAINAGE AREA.--784 mi^2 (2,031 km^2).

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORD.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6,398.96 ft (1,950.403 m) NGVD of 1929 (levels by Utah Water Resources Division from Bureau of Reclamation bench mark). Prior to Sept. 26, 1962, at site 175 ft (53.3 m) upstream at same datum.

REMARKS.--Records good except those of no gage-height record, Mar. 12 to Apr. 14, which are fair. Flow regulated by Woodruff Narrows Reservoir (station 10020200) beginning January 1962. Diversions for irrigation of about 43,500 acres (176 km^2) above station.

AVERAGE DISCHARGE.--20 years, 223 ft^3/s (6.315 m^3/s), 161,600 acre-ft/yr (199 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,000 ft^3/s (85.0 m^3/s) June 14, 1965, gage height, 7.88 ft (2.402 m); no flow July 4, 5, 1962, Aug. 30, 31, Sept. 1, 2, 6, 7, 1979, Oct. 30, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,380 ft^3/s (39.1 m^3/s) June 11, gage height, 6.03 ft (1.838 m); minimum, no flow Oct. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	.10	.08	33	7.9	9.3	9.3	22	714	645	66	60
2	9.3	.12	.09	33	8.0	9.3	9.3	22	716	638	66	60
3	9.3	.19	.12	23	8.2	9.3	9.3	23	662	633	66	59
4	9.3	.08	.18	1.1	8.2	9.3	9.3	23	497	630	66	59
5	9.3	.13	16	.70	8.2	9.3	9.3	42	510	625	66	59
6	9.3	.14	31	.66	8.2	9.4	9.3	237	515	618	66	59
7	10	.10	30	.66	8.2	9.7	9.3	570	520	610	66	59
8	7.0	.10	30	.66	8.2	9.7	9.3	743	555	605	66	59
9	6.2	.11	31	.66	8.2	9.6	9.3	840	644	597	65	59
10	6.2	.14	31	3.1	8.2	9.4	9.3	708	1100	591	64	58
11	6.2	.16	31	7.2	8.2	9.3	9.3	650	1350	528	63	57
12	6.2	.16	31	7.2	8.2	9.3	9.3	727	1320	237	63	58
13	6.2	.17	31	7.2	8.3	9.3	9.3	901	1130	236	63	48
14	4.8	.15	32	7.4	8.5	9.3	9.3	996	949	236	63	11
15	.33	.15	32	7.4	8.5	9.3	9.3	983	777	234	62	11
16	.19	.09	32	7.4	8.6	9.3	12	981	633	233	62	10
17	.11	.18	32	7.4	8.7	9.3	19	982	803	233	62	10
18	.07	.19	32	7.4	8.7	9.3	19	973	735	233	62	10
19	.06	.15	32	7.4	8.8	9.3	19	964	681	232	62	10
20	15	.09	32	7.4	8.7	9.3	19	961	674	231	61	10
21	24	.09	33	7.4	8.8	9.3	19	960	672	230	61	13
22	25	.08	33	7.5	9.0	9.3	20	958	672	230	61	16
23	11	.08	32	7.7	9.0	9.3	20	958	673	230	61	16
24	.78	.10	32	7.7	9.0	9.3	20	952	671	229	61	27
25	4.3	.11	32	7.7	9.1	9.3	20	902	670	227	60	33
26	.49	.10	32	7.7	9.3	9.3	20	815	669	226	60	32
27	.49	.06	32	7.9	9.3	9.3	20	758	665	226	60	32
28	.36	.03	32	7.9	9.3	9.3	21	759	660	225	60	31
29	.16	.06	32	7.9	---	9.3	21	761	653	224	60	31
30	.07	.05	32	7.9	---	9.3	22	707	649	191	60	31
31	.09	---	32	7.9	---	9.3	---	710	---	66	60	---
TOTAL	191.10	3.46	840.47	255.14	239.5	289.6	430.5	21588	22139	11129	1944	1088
MEAN	6.16	.12	27.1	8.23	8.55	9.34	14.4	696	738	359	62.7	36.3
MAX	25	.19	33	33	9.3	9.7	22	996	1350	645	66	60
MIN	.06	.03	.08	.66	7.9	9.3	9.3	22	497	66	60	10
AC-FT	379	6.9	1670	506	475	574	854	42820	43910	22070	3860	2160

CAL YR 1980	TOTAL	91891.93	MEAN 251	MAX 1250	MIN .03	AC-FT	182300	
WTR YR 1981	TOTAL	60137.77	MEAN 165	MAX 1350	MIN .03	AC-FT	119300	

10020900 WOODRUFF CREEK BELOW RESERVOIR, NEAR WOODRUFF, UTAH

LOCATION.--Lat 41°28'06", long 111°18'50", in NE¼SE¼SW¼ sec.31, T.9 N., R.6 E., Rich County, Hydrologic Unit 16010101, on left bank 0.2 mi (0.3 km) downstream from Woodruff Creek Dam, 4.8 mi (7.7 km) upstream from Birch Creek, and 8.5 mi (13.7 km) southwest of Woodruff.

DRAINAGE AREA.--50.0 mi^2 (129.5 km^2).

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

REVISED RECORDS.--WDR UT-74-1: Drainage area. WDR UT-72: 1971.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,770 ft (2,063 m) from topographic map.

REMARKS.--Records good. Flow regulated by Woodruff Creek reservoir, total capacity, 4,100 acre-ft (5.06 hm^3) since Nov. 2, 1970.

AVERAGE DISCHARGE.--11 years, 25.7 ft^3/s (0.728 m^3/s), 18,620 acre-ft/yr (23.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 327 ft^3/s (9.26 m^3/s) May 16, 1971, gage height, 3.62 ft (1.103 m); no flow during winter months each year except 1972, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 122 ft^3/s (3.46 m^3/s) June 1; no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	7.1	.00	.00	.00	.00	.00	.17	122	3.6	.00	.00
2	8.0	7.1	.00	.00	.00	.00	.00	.18	120	3.6	.00	.00
3	8.0	7.1	.00	.00	.00	.00	.00	.18	119	3.8	.00	.00
4	8.0	7.1	.00	.00	.00	.00	.00	.18	117	3.8	.00	.00
5	8.0	7.1	.00	.00	.00	.00	.00	.20	117	3.8	.00	.00
6	7.7	7.1	.00	.00	.00	.00	.00	.20	115	3.8	.00	.00
7	7.5	7.1	.00	.00	.00	.00	.00	.22	113	4.1	.00	.00
8	7.6	7.1	.00	.00	.00	.00	.00	.28	111	4.3	.00	.00
9	7.5	7.1	.00	.00	.00	.00	.00	.28	110	4.3	.00	.00
10	7.9	7.1	.00	.00	.00	.00	.00	.29	108	4.2	.00	.00
11	8.0	7.0	.00	.00	.00	.00	.00	.35	105	4.1	.00	.00
12	8.0	.15	.00	.00	.00	.00	.00	.35	102	3.7	.00	.26
13	8.0	.00	.00	.00	.00	.00	.02	.40	100	3.6	.00	2.9
14	8.0	.00	.00	.00	.00	.00	.06	.44	97	3.6	.00	2.9
15	8.0	.00	.00	.00	.00	.00	.08	.50	94	3.5	.00	3.2
16	8.0	.00	.00	.00	.00	.00	.10	.52	90	3.4	.00	3.4
17	8.0	.00	.00	.00	.00	.00	.10	.52	87	3.4	.00	3.1
18	8.0	.00	.00	.00	.00	.00	.10	.55	84	3.2	.00	3.1
19	8.0	.00	.00	.00	.00	.00	.12	6.9	81	3.3	.00	3.4
20	8.0	.00	.00	.00	.00	.00	.12	19	76	3.4	.00	3.4
21	8.0	.00	.00	.00	.00	.00	.12	23	71	3.4	.00	3.6
22	8.0	.00	.00	.00	.00	.00	.12	29	66	3.4	.00	3.7
23	8.0	.00	.00	.00	.00	.00	.13	28	59	3.2	.00	3.7
24	8.0	.00	.00	.00	.00	.00	.14	32	4.4	3.1	.00	4.2
25	7.8	.00	.00	.00	.00	.00	.14	42	3.8	3.2	.00	5.9
26	7.5	.00	.00	.00	.00	.00	.14	55	3.6	3.1	.00	6.1
27	7.5	.00	.00	.00	.00	.00	.16	44	3.7	.06	.00	6.2
28	7.5	.00	.00	.00	.00	.00	.16	39	3.6	.00	.00	6.2
29	7.5	.00	.00	.00	---	.00	.16	36	3.6	.00	.00	5.9
30	7.5	.00	.00	.00	---	.00	.16	34	3.6	.00	.00	5.9
31	7.3	---	.00	.00	---	.00	---	99	---	.00	.00	---
TOTAL	242.8	78.15	.00	.00	.00	.00	2.13	492.71	2290.3	93.96	.00	77.06
MEAN	7.83	2.61	.000	.000	.000	.000	.071	15.9	76.3	3.03	.000	2.57
MAX	8.0	7.1	.00	.00	.00	.00	.16	99	122	4.3	.00	6.2
MIN	7.3	.00	.00	.00	.00	.00	.00	.17	3.6	.00	.00	.00
AC-FT	482	155	.00	.00	.00	.00	4.2	977	4540	186	.00	153

CAL YR 1980	TOTAL	13505.69	MEAN 36.9	MAX 278	MIN .00	AC-FT	26790	
WTR YR 1981	TOTAL	3277.11	MEAN 8.98	MAX 122	MIN .00	AC-FT	6500	

10026500 BEAR RIVER NEAR RANDOLPH, UTAH

LOCATION.--Lat 41°48'02", long 111°04'20", in SE¼NE¼ sec.7, T.12 N., R.8 E., Rich County, Hydrologic Unit 16010101, on left bank 3.7 mi (6.0 km) upstream from Twin Creek, 5.0 mi (8.0 km) upstream from Utah-Wyoming State line, and 11 mi (18 km) northeast of Randolph.

DRAINAGE AREA.--1,616 mi2 (4,185 km^2).

PERIOD OF RECORD.--October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft (1,889.8 m) from river-profile map. Prior to Aug. 17, 1971, 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records good except those for winter months, which are fair. Diversion for irrigation of about 94,500 acres (382 km^2) above station. Flow regulated by upstream reservoirs.

AVERAGE DISCHARGE.--38 years, 194 ft^3/s (5.49 m^3/s), 140,600 acre-ft/yr (173 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,660 ft^3/s (75.3 m^3/s) May 8, 1952; maximum gage height, 8.99 ft (2.740 m) June 17, 1965, site and datum then in use; minimum discharge, 1.6 ft^3/s (0.05 m^3/s) Nov. 12, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 856 ft^3/s (24.2 m^3/s) June 14, gage height, 4.95 ft (1.509 m); minimum, 7.2 ft^3/s (0.204 m^3/s) Sept. 19, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	58	64	80	60	76	66	7.9	287	227	171	9.6
2	29	58	60	82	56	76	65	7.9	258	234	129	11
3	30	58	62	80	52	76	63	8.7	248	257	98	11
4	50	58	65	78	50	76	62	8.3	275	276	89	12
5	34	58	63	52	48	80	61	8.3	235	293	95	18
6	32	58	58	48	50	78	58	9.2	179	298	84	18
7	31	57	50	46	54	76	56	8.3	171	277	77	13
8	24	62	45	44	52	76	50	7.9	176	273	81	9.2
9	23	65	55	45	54	76	46	8.3	202	277	80	8.7
10	23	66	65	46	50	76	47	9.2	218	262	79	8.7
11	32	68	75	45	45	75	50	15	226	256	70	8.9
12	34	72	73	44	50	73	50	18	329	296	50	8.6
13	37	77	71	42	48	71	42	17	570	322	51	8.3
14	39	70	68	50	50	69	40	16	813	255	57	8.1
15	46	62	72	52	52	68	39	21	710	214	55	8.1
16	51	62	74	54	54	66	37	29	531	201	53	8.3
17	48	62	76	56	60	65	35	63	416	191	51	9.1
18	46	62	75	60	58	62	34	131	376	206	49	8.9
19	46	62	74	60	62	61	34	174	382	178	45	8.0
20	45	62	72	60	66	62	31	195	334	216	35	7.7
21	44	62	76	60	64	64	31	289	303	203	30	7.9
22	47	62	80	60	62	63	31	347	265	222	30	7.9
23	50	63	82	55	60	62	30	445	213	224	31	8.1
24	51	62	78	60	64	60	29	487	200	200	30	8.5
25	53	62	80	58	68	60	27	491	186	192	27	7.9
26	66	58	82	60	72	59	25	417	186	189	21	21
27	79	60	80	62	74	62	25	418	210	189	21	10
28	74	64	82	64	76	68	25	422	238	187	14	9.2
29	66	69	78	62	---	68	11	386	238	181	10	9.0
30	63	68	76	64	---	69	7.9	358	263	187	9.6	9.0
31	58	---	78	62	---	68	---	313	---	185	9.6	---
TOTAL	1380	1887	2189	1791	1611	2141	1207.9	5136.0	9238	7168	1732.2	301.7
MEAN	44.5	62.9	70.6	57.8	57.5	69.1	40.3	166	308	231	55.9	10.1
MAX	79	77	82	82	76	80	66	491	813	322	171	21
MIN	23	57	45	42	45	59	7.9	7.9	171	178	9.6	7.7
AC-FT	2740	3740	4340	3550	3200	4250	2400	10190	18320	14220	3440	598

CAL YR 1980 TOTAL 95089.0 MEAN 260 MAX 1270 MIN 23 AC-FT 188600
WTR YR 1981 TOTAL 35782.8 MEAN 98.0 MAX 813 MIN 7.7 AC-FT 70980

10027000 TWIN CREEK AT SAGE, WY

LOCATION.--Lat 41°48'36", long 110°58'12", in NE¼SW¼SE¼ sec.7, T.21 N., R.119 W., Lincoln County, Hydrologic Unit 16010101, on right bank 0.5 mi (0.8 km) downstream from Bulldog Hollow, 0.5 mi (0.8 km) southwest of Sage, 0.8 mi (1.3 km) southeast of junction of U.S. Highway 30 and State Highway 89, and 5.0 mi (8.0 km) upstream from mouth.

DRAINAGE AREA.--246 mi^2 (637 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1943 to September 1962, July 1976 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,320 ft (1,926 m) from topographic map. Prior to Oct. 1, 1945, nonrecording gage at site 0.8 mi (1.3 km) upstream at different datum. Oct. 1, 1945 to Sept. 30, 1962, water-stage recorder at site 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records fair. Diversions for irrigation of about 1,100 acres (4.45 km^2) above station.

AVERAGE DISCHARGE.--24 years (water years 1944-62, 1977-81), 18.6 ft^3/s (0.527 m^3/s), 13,480 acre-ft/yr (16.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 853 ft^3/s (24.2 m^3/s) Apr. 23, 1980, gage height, 8.13 ft (2.478 m); minimum daily, 0.6 ft^3/s (0.02 m^3/s) Mar. 18, 1953, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 34 ft^3/s (0.96 m^3/s) May 22, gage height, 2.16 ft (0.658 m); minimum daily, 2.8 ft^3/s (0.079 m^3/s) Aug. 13, 17-19, Sept. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	17	12	10	8.8	14	14	8.5	6.3	5.0	3.6	3.0
2	16	15	12	10	7.7	14	13	7.7	6.0	5.5	3.4	3.0
3	15	14	12	10	6.9	14	12	9.2	10	6.0	3.4	3.0
4	12	13	13	10	6.0	14	11	7.4	11	7.0	3.4	3.0
5	12	14	13	8.0	6.0	14	11	6.0	11	6.5	3.4	3.0
6	11	13	11	6.0	6.0	14	12	6.9	10	6.0	3.4	3.0
7	11	15	8.8	5.0	7.1	14	12	11	9.6	6.0	3.4	3.0
8	11	14	7.1	5.0	7.1	14	12	11	9.2	6.0	3.4	3.0
9	12	15	7.7	5.0	6.9	14	12	10	8.5	6.0	3.4	3.0
10	12	15	7.4	5.0	6.6	14	12	9.2	8.5	5.5	3.2	3.0
11	12	15	7.7	5.0	5.7	14	13	13	8.5	5.5	3.2	3.0
12	12	16	8.8	5.0	6.6	14	12	15	8.8	5.0	3.0	3.0
13	14	15	7.4	5.0	6.0	14	12	13	8.5	5.0	2.8	3.0
14	14	13	7.4	5.0	7.0	15	12	12	8.5	5.0	3.0	3.0
15	17	11	7.7	5.0	8.0	15	11	13	8.1	4.9	3.2	3.0
16	18	11	8.5	6.0	10	16	10	14	8.1	4.7	3.2	3.2
17	18	11	8.8	6.0	12	14	10	13	7.7	4.7	2.8	3.0
18	16	11	9.0	8.0	13	14	8.8	12	7.5	4.9	2.8	2.8
19	15	12	9.0	8.0	14	14	9.2	11	7.0	4.7	2.8	3.0
20	15	11	9.0	8.0	14	15	11	10	7.0	4.7	3.0	3.0
21	14	12	9.0	8.5	12	14	10	12	7.0	4.5	3.0	3.0
22	14	15	10	7.4	12	14	9.6	28	6.5	4.5	3.0	3.2
23	14	13	10	6.6	13	14	9.6	21	6.5	4.5	3.0	3.4
24	14	12	10	9.2	14	14	10	17	6.0	4.3	3.0	3.6
25	14	11	10	10	14	14	10	13	6.0	4.7	3.0	3.6
26	14	11	10	8.8	15	14	9.2	13	6.0	5.2	3.0	3.4
27	15	9.6	10	8.5	14	15	8.8	13	5.5	5.7	3.0	3.6
28	14	12	10	9.2	14	16	9.2	10	5.5	5.5	3.0	3.8
29	13	13	10	9.2	---	15	8.8	9.2	5.0	4.9	3.0	3.8
30	15	14	10	8.8	---	16	9.2	7.4	5.0	4.7	3.0	3.6
31	16	---	10	8.5	---	15	---	6.9	---	4.1	3.0	---
TOTAL	437	393.6	296.3	229.7	273.4	446	324.4	363.4	228.8	161.2	96.8	95.0
MEAN	14.1	13.1	9.56	7.41	9.76	14.4	10.8	11.7	7.63	5.20	3.12	3.17
MAX	18	17	13	10	15	16	14	28	11	7.0	3.6	3.8
MIN	11	9.6	7.1	5.0	5.7	14	8.8	6.0	5.0	4.1	2.8	2.8
AC-FT	867	781	588	456	542	885	643	721	454	320	192	188

CAL YR 1980 TOTAL 17589.9 MEAN 48.1 MAX 778 MIN 4.5 AC-FT 34890
WTR YR 1981 TOTAL 3345.6 MEAN 9.17 MAX 28 MIN 2.8 AC-FT 6640

10027000 TWIN CREEK AT SAGE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year. Prior to 1981 water year, published in "Water Resources Data for Wyoming".

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT 07...	0900	11	960	7.9	7.5	7.0	16	10.0	400	180	83	46

DATE	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)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT 07...	52	22	1.1	3.9	220	250	38	.4	7.8	614	.84	17.9

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 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 07...	.030	.04	.68	.71	.80	.09	3.5	.060	.18

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
NOV 13...	1415	16	830	--	4.0	4.5
DEC 17...	1220	12	880	--	.0	2.0
JAN 21...	1210	13	1040	--	.0	.5
FEB 18...	1130	18	720	--	4.0	2.0
MAR 18...	1200	16	1080	--	1.0	1.0
APR 15...	1045	14	1050	--	13.0	8.0
MAY 13...	1200	11	1070	--	12.0	8.0
JUN 17...	1130	7.6	910	--	14.0	13.0
JUL 15...	1200	5.3	800	--	18.5	17.5
AUG 19...	1130	2.7	960	5.7	27.5	18.5
SEP 16...	1200	3.4	690	--	20.5	16.0

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (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)	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 SUS-PENDED RECOV-ERABLE (UG/L AS CD)
OCT 07...	0900	400	370	30	3	0	3	0	<1	90	0	0

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (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)
OCT 07...	2	0	0	0	4	1	3	520	510	10	2	0

10027000 TWIN CREEK AT SAGE, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, SUS-PENDED RECOV. (UG/L AS MO)
OCT 07...	2	60	10	50	50	30	20	.1	.1	.0	8	0

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	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, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 07...	10	0	0	0	2	0	2	.0	20	0	20

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
OCT 07...	0900	16	.3

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 17...	1220	12	2.0	138	4.5
JAN 21...	1210	13	.5	38	1.3
FEB 18...	1130	18	2.0	101	4.9
MAR 18...	1200	16	1.0	273	12
APR 15...	1045	14	8.0	223	8.4
MAY 13...	1200	11	8.0	52	1.5
JUN 17...	1130	7.6	13.0	100	2.1
JUL 15...	1200	5.3	17.5	53	.76
AUG 19...	1130	2.7	18.5	28	.20
SEP 16...	1200	3.4	16.0	18	.17

10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY

LOCATION.--Lat 41°56'20", long 110°59'05", in SE¼SE¼ sec.25, T.23 N., R.120 W., Lincoln County, Hydrologic Unit 16010102, 800 ft (243 m) downstream from Pixley Dam, 11 mi (18 km) south of Cokeville, and 17.5 mi (28.2 km) downstream from Twin Creek.

DRAINAGE AREA.--2,032 mi^2 (5,263 km^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 RECORD.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,185 ft (1,885.2 m) from river-profile map. Oct. 31, 1941 to Nov. 30, 1943, at site 200 ft (61 m) 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 (65.1 m^3/s) Mar. 25, 1956; minimum recorded, 0.24 ft^3/s (0.007 m^3/s) Apr. 26, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum recorded discharge, 432 ft^3/s (12.2 m^3/s) June 16, gage height, 4.66 ft (1.420 m); minimum recorded, 0.24 ft^3/s (0.007 m^3/s) Apr. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	.65	150	138	221	24
2							---	.60	139	94	189	24
3							---	.60	143	93	123	23
4							---	.60	182	98	107	24
5							---	.71	194	62	104	25
6							---	.81	145	126	104	32
7							---	.60	119	210	97	34
8							---	.65	108	278	94	32
9							---	.71	104	278	94	26
10							---	.71	110	304	92	24
11							---	.65	116	274	94	23
12							---	.71	119	268	95	20
13							---	.71	165	320	75	10
14							---	.65	243	406	76	8.9
15							---	.81	326	394	76	10
16							11	.71	416	374	76	11
17							13	.65	406	322	74	10
18							13	.71	358	296	72	8.3
19							13	.81	318	282	71	5.6
20							12	.81	300	266	66	4.6
21							12	4.2	268	256	58	4.2
22							12	18	247	262	54	6.2
23							12	41	198	292	52	11
24							13	82	153	284	55	14
25							7.3	133	143	268	55	15
26							.28	270	116	249	52	15
27							.42	262	108	241	44	22
28							.52	228	112	236	42	23
29							.52	214	119	230	38	17
30							.65	191	130	225	28	15
31							---	172	---	228	25	---
TOTAL							---	1629.06	5755	7654	2503	521.8
MEAN							---	52.6	192	247	80.7	17.4
MAX							---	270	416	406	221	34
MIN							---	.60	104	62	25	4.2
AC-FT							---	3230	11420	15180	4960	1030

10032000 SMITHS FORK NEAR BORDER, WY

LOCATION.--Lat 42°17'16", long 110°52'14", in NW¼ sec.33, T.27 N., R.118 W., Lincoln County, Hydrologic Unit 16010102, on left bank 4.5 mi (7.2 km) upstream from Howland Creek, 6 mi (10 km) downstream from Hobble Creek, and 12 mi (19 km) northeast of Border.

DRAINAGE AREA.--165 mi^2 (427 km^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 (2,036 m) from topographic map. Prior to Oct. 16, 1945, at site 0.8 mi (1.3 km) downstream at different datum.

REMARKS.--Records good except those for winter periods, which are fair. One diversion for irrigation of about 200 acres (809,000 m^2) above station.

AVERAGE DISCHARGE.--39 years, 194 ft^3/s (5.49 m^3/s), 140,600 acre-ft/yr (173 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,610 ft^3/s (45.6 m^3/s) June 18, 1971, gage height, 5.61 ft (1.710 m); minimum, 21 ft^3/s (0.59 m^3/s) Mar. 29, 1975, Jan. 24, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 481 ft^3/s (13.6 m^3/s) June 3; minimum, 43 ft^3/s (1.22 m^3/s) Feb. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	82	74	70	65	61	63	220	477	186	117	80
2	99	82	72	70	60	61	65	238	475	195	114	81
3	99	82	76	70	50	60	63	225	481	194	110	81
4	98	82	77	68	50	59	62	201	446	200	108	81
5	98	81	75	68	50	61	60	197	422	184	107	82
6	96	81	60	65	50	61	65	207	426	176	106	89
7	96	81	55	50	60	60	63	200	426	173	105	88
8	95	82	50	50	60	60	60	184	407	171	104	84
9	94	81	50	50	60	59	65	175	396	168	107	82
10	94	80	50	50	60	60	66	173	377	162	112	82
11	93	80	55	50	50	60	73	185	355	157	105	85
12	97	84	50	50	60	60	76	174	333	153	103	80
13	106	82	50	50	60	61	78	170	332	148	101	71
14	99	78	50	50	60	61	79	172	316	143	106	65
15	102	75	60	50	60	61	87	181	301	139	104	61
16	98	62	60	55	62	63	89	183	283	138	99	58
17	98	62	60	55	61	61	100	183	269	138	97	55
18	95	62	60	55	60	60	108	182	259	137	96	53
19	95	62	60	55	61	60	141	191	254	141	95	52
20	94	62	60	55	62	61	149	206	251	137	93	52
21	93	62	71	55	62	61	134	234	244	132	96	52
22	92	78	71	55	60	60	122	264	238	129	94	54
23	87	78	70	50	60	61	122	275	232	128	92	62
24	85	77	70	60	61	60	144	290	226	126	91	75
25	87	70	71	65	61	60	160	301	220	130	91	79
26	88	65	72	64	64	62	179	372	213	136	90	80
27	87	65	70	64	61	65	177	441	208	141	90	76
28	82	72	70	65	60	63	165	453	204	135	90	75
29	84	75	70	64	---	64	177	456	196	128	88	74
30	84	76	66	65	---	65	203	453	188	121	83	77
31	84	---	68	65	---	62	---	460	---	119	80	---
TOTAL	2899	2241	1973	1808	1650	1893	3195	7846	9455	4665	3074	2166
MEAN	93.5	74.7	63.6	58.3	58.9	61.1	107	253	315	150	99.2	72.2
MAX	106	84	77	70	65	65	203	460	481	200	117	89
MIN	82	62	50	50	50	59	60	170	188	119	80	52
AC-FT	5750	4450	3910	3590	3270	3750	6340	15560	18750	9250	6100	4300

CAL YR 1980 TOTAL 79602 MEAN 217 MAX 953 MIN 43 AC-FT 157900
WTR YR 1981 TOTAL 42865 MEAN 117 MAX 481 MIN 50 AC-FT 85020

10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY

LOCATION.--Lat 42°07'36", long 110°58'21", in SE¼NE¼ sec.28, T.25 N., R.119 W., Lincoln County, Hydrologic Unit 16010102, on left bank 1.1 mi (1.8 km) upstream from Wyman Dam, 2.8 mi (4.5 km) northwest of Cokeville, and 3.8 mi (6.1 km) downstream from Smiths Fork.

DRAINAGE AREA.--2,447 mi^2 (6,338 km^2).

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

REVISED RECORDS.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,140 ft (1,871 m) 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.--27 years, 423 ft^3/s (12.0 m^3/s), 306,500 acre-ft/yr (378 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,780 ft^3/s (107 m^3/s) Mar. 26, 1956, gage height, 7.54 ft (2.298 m); minimum, 31 ft^3/s (0.878 m^3/s) Oct. 4, 5, 6, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,010 ft^3/s (28.6 m^3/s) May 27, gage height, 4.74 ft (1.445 m); minimum, 81 ft^3/s (2.29 m^3/s) Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	141	210	189	210	170	204	154	149	812	310	292	84
2	146	210	210	200	140	204	160	156	766	327	281	86
3	146	207	210	200	140	204	159	181	800	268	235	92
4	207	207	213	210	140	198	150	168	777	288	185	93
5	195	204	207	200	140	192	145	159	781	296	176	99
6	187	204	192	160	150	192	161	167	719	326	176	108
7	181	204	180	150	160	201	207	179	661	353	176	113
8	175	204	150	150	150	198	171	168	620	488	163	112
9	173	201	140	150	162	195	161	164	578	463	154	113
10	168	204	140	150	150	201	166	190	545	482	154	113
11	166	201	150	150	150	201	184	204	534	440	155	117
12	172	210	160	150	152	178	187	202	498	418	166	115
13	192	219	160	160	150	147	177	217	496	413	153	110
14	192	213	170	170	162	150	152	200	567	543	139	104
15	207	198	187	170	160	161	145	200	661	553	140	95
16	210	190	200	170	162	163	148	207	781	552	139	93
17	213	180	207	170	170	164	153	211	861	477	136	90
18	213	190	200	178	162	156	147	205	791	425	131	85
19	210	195	201	180	159	156	155	201	714	407	128	84
20	210	210	200	170	175	164	193	209	671	372	127	84
21	213	210	210	170	201	192	184	268	620	356	120	86
22	210	219	204	170	210	172	172	315	570	345	113	86
23	201	216	201	170	210	166	143	332	528	357	107	85
24	198	204	201	181	210	171	145	409	437	373	104	84
25	201	170	204	175	210	164	165	587	390	353	107	89
26	207	180	216	174	204	161	168	832	353	337	107	93
27	207	200	216	166	210	176	148	964	315	328	103	96
28	213	216	225	167	210	178	143	938	294	317	101	102
29	216	204	230	169	---	178	134	899	292	314	98	103
30	229	201	220	173	---	168	136	870	292	301	92	103
31	219	---	210	178	---	154	---	840	---	300	86	---
TOTAL	6018	6081	6003	5341	4769	5509	4813	10991	17724	11882	4544	2917
MEAN	194	203	194	172	170	178	160	355	591	383	147	97.2
MAX	229	219	230	210	210	204	207	964	861	553	292	117
MIN	141	170	140	150	140	147	134	149	292	268	86	84
AC-FT	11940	12060	11910	10590	9460	10930	9550	21800	35160	23570	9010	5790

CAL YR 1980 TOTAL 217490 MEAN 594 MAX 2380 MIN 85 AC-FT 431400
WTR YR 1981 TOTAL 86592 MEAN 237 MAX 964 MIN 84 AC-FT 171800

10039500 BEAR RIVER AT BORDER, WY

LOCATION.--Lat 42°12'40", long 111°03'11", in NE¼NE¼ sec.15, T.14 S., R.46 E., Bear Lake County, Idaho, Hydrologic Unit 16010102, on left bank 0.2 mi (0.3 km) west of Wyoming-Idaho State line, 0.5 mi (0.8 km) west of Border, and 2.1 mi (3.4 km) upstream from Thomas Fork.

DRAINAGE AREA.--2,486 mi^2 (6,439 km^2).

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

REVISED RECORDS.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,051.63 ft (1,844.537 m) NGVD of 1929, unadjusted.

REMARKS.--Records good except those for winter months, which are fair. Natural flow of stream affected by regulation by upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--44 years, 418 ft^3/s (11.8 m^3/s), 302,800 acre-ft/yr (373 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,680 ft^3/s (104 m^3/s) May 11, 1952, gage height, 8.89 ft (2,710 m); minimum, 24 ft^3/s (0.68 m^3/s) Apr. 29, 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 904 ft^3/s (25.6 m^3/s) May 27, gage height, 4.13 ft (1.259 m); minimum, 58 ft^3/s (1.64 m^3/s) Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165	236	247	230	180	240	183	106	718	230	279	61
2	165	232	247	230	160	240	185	98	683	262	271	62
3	170	230	230	220	150	240	187	114	711	243	243	63
4	220	225	230	220	150	230	176	116	715	232	196	66
5	210	223	241	220	150	230	169	106	708	241	178	70
6	200	225	220	200	160	230	171	105	673	264	172	78
7	194	230	200	170	170	240	213	116	612	288	171	81
8	192	227	180	170	170	240	194	112	580	355	162	81
9	189	223	160	170	170	238	178	110	542	391	151	81
10	185	223	160	170	160	236	183	123	487	408	153	81
11	185	223	160	170	160	236	194	153	468	422	151	84
12	189	232	180	170	160	221	203	160	440	386	149	84
13	205	247	180	170	170	180	190	167	425	373	144	81
14	211	241	180	180	180	180	172	162	468	440	130	75
15	230	217	200	180	180	192	158	167	580	500	127	70
16	236	207	220	180	180	194	162	172	672	497	127	92
17	236	241	230	190	180	192	160	174	766	443	125	92
18	236	234	230	190	180	183	162	174	729	397	119	85
19	234	243	230	200	180	180	154	171	676	375	114	85
20	232	241	230	190	200	187	189	187	619	355	108	80
21	234	223	230	190	230	215	196	219	558	339	91	78
22	232	255	230	190	240	196	189	271	487	329	89	80
23	227	241	230	190	240	190	154	281	462	331	78	75
24	219	243	230	200	240	192	123	310	391	351	74	73
25	219	189	230	200	240	190	136	425	346	339	73	77
26	221	198	240	200	240	187	146	645	319	329	73	81
27	227	207	240	190	240	196	138	849	286	317	73	84
28	232	241	250	190	240	207	131	777	262	307	74	88
29	236	228	250	190	---	207	120	751	252	305	72	94
30	241	250	250	190	---	198	102	740	236	291	69	92
31	243	---	230	190	---	185	---	725	---	281	63	---
TOTAL	6615	6875	6765	5940	5300	6472	5018	8786	15871	10621	4099	2374
MEAN	213	229	218	192	189	209	167	283	529	343	132	79.1
MAX	243	255	250	230	240	240	213	849	766	500	279	94
MIN	165	189	160	170	150	180	102	98	236	230	63	61
AC-FT	13120	13640	13420	11780	10510	12840	9950	17430	31480	21070	8130	4710

CAL YR 1980 TOTAL 220713 MEAN 603 MAX 2680 MIN 90 AC-FT 437800
WTR YR 1981 TOTAL 84736 MEAN 232 MAX 849 MIN 61 AC-FT 168100

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 current year.
WATER TEMPERATURES: October 1965 to September 1976, January 1978 to current year.

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.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 790 micromhos, Apr. 8; minimum daily, 425 micromhos Dec. 26.
WATER TEMPERATURES: Maximum daily, 21.0°C many days during Aug; minimum daily, 0.0°C many days during Dec. and Feb.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	NITRO-GEN DIS-SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 07...	1700	176	560	7.9	18.0	13.5	7.0	9.0	.64	--	--	--
NOV 13...	1615	236	490	8.2	4.0	4.0	6.0	10.8	--	--	--	--
DEC 17...	1400	260	530	8.2	-3.0	.5	3.0	11.8	--	--	<1	K4
JAN 21...	1015	105	610	8.2	-5.0	.5	.90	12.2	.63	11	5	22
FEB 18...	1015	180	530	8.2	2.0	.0	--	11.4	--	8	2	35
MAR 18...	1030	185	550	8.5	3.0	2.0	7.0	11.4	.89	5	K5	20
APR 15...	1000	160	690	8.4	6.0	9.0	--	8.8	--	--	53	25
MAY 13...	1030	153	510	8.4	5.0	6.0	4.0	9.6	1.6	14	K120	35
JUN 17...	1030	767	600	8.1	15.0	12.0	60	7.7	--	--	300	100
JUL 15...	1030	483	610	8.0	13.5	17.5	48	6.4	1.1	23	440	310
AUG 19...	0900	120	600	6.0	15.0	18.0	10	6.4	--	--	K480	--
SEP 16...	1045	98	490	8.2	13.0	14.5	6.6	8.0	.48	32	K19	93

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L 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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY FIELD (MG/L AS CACO3)
OCT 07...	280	70	--	64	28	27	17	.7	3.6	250	0	200
NOV 13...	280	67	--	72	25	27	17	.7	1.4	260	0	210
DEC 17...	290	77	--	72	26	24	15	.6	.8	260	0	210
JAN 21...	270	49	--	68	24	23	16	.6	1.6	--	--	--
FEB 18...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 18...	240	35	--	68	17	28	20	.8	1.6	250	0	200
APR 15...	290	60	--	65	31	41	23	1.0	2.8	280	0	230
MAY 13...	260	--	85	68	23	26	17	.7	2.0	--	--	--
JUN 17...	310	62	--	69	34	39	21	1.0	3.9	290	6	250
JUL 15...	300	--	36	59	36	45	25	1.1	3.6	--	--	--
AUG 19...	290	52	--	70	28	36	21	.9	3.2	290	0	240
SEP 16...	240	--	50	58	23	29	21	.9	2.0	--	--	--

K Results based on colony count outside the acceptable range (non-ideal colony count).

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALKALINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	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 07...	--	5.0	78	30	.3	7.0	362	360	.49	172	20
NOV 13...	--	2.6	71	26	.0	6.5	--	360	.49	229	--
DEC 17...	--	2.6	66	28	.3	5.9	--	352	.48	247	--
JAN 21...	220	--	76	27	.2	7.9	373	361	.51	106	2
FEB 18...	--	--	--	--	--	--	--	--	--	--	3
MAR 18...	200	1.3	53	32	.3	4.8	364	320	.50	182	12
APR 15...	--	1.8	94	42	.3	14	--	430	.58	186	--
MAY 13...	180	--	81	26	.1	7.7	366	342	.50	151	27
JUN 17...	--	3.8	51	63	.3	12	--	420	.57	870	--
JUL 15...	260	--	35	38	.2	11	410	385	.56	535	162
AUG 19...	--	464	66	60	.2	8.8	--	420	.57	136	--
SEP 16...	190	--	69	28	.1	8.0	343	332	.47	90.9	18

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	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)	NITROGEN, TOTAL (MG/L AS N)
OCT 07...	.060	.050	.07	.06	.67	.59	.73	.09	.64	.73
NOV 13...	--	--	--	--	--	--	--	--	--	--
DEC 17...	--	--	--	--	--	--	--	--	--	--
JAN 21...	.070	.060	.08	.08	.41	.46	.48	.00	.52	.58
MAR 18...	.010	.030	--	.04	.78	.79	.79	.00	.82	.86
APR 15...	--	--	--	--	--	--	--	--	--	--
MAY 13...	.110	.080	--	.10	.46	1.4	.57	.00	1.5	.64
JUN 17...	--	--	--	--	--	--	--	--	--	--
JUL 15...	.210	.140	--	.18	.99	.86	1.20	.20	1.0	1.3
AUG 19...	--	--	--	--	--	--	--	--	--	--
SEP 16...	<.060	.060	--	.08	.53	.38	.56	.10	.46	.67

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE 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, 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)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)	
OCT 07...	--	--	.00	.02	3.2	2.40	.09	.010	--	
NOV 13...	--	--	--	3.2	--	.070	--	--	--	
DEC 17...	--	--	--	.28	--	.070	--	--	--	
JAN 21...	--	--	.10	.11	2.6	.060	.18	.050	--	
MAR 18...	--	--	.07	.13	3.8	.040	.18	.020	1.6	
APR 15...	--	--	--	.00	--	.030	--	--	--	
MAY 13...	--	--	.07	.06	2.8	.180	.55	.140	1.5	
JUN 17...	--	--	--	.14	--	.000	--	--	--	
JUL 15...	--	--	.08	.11	5.7	.230	.71	.030	2.7	
AUG 19...	--	--	--	.10	--	.050	--	--	--	
SEP 16...	.10	.010	.11	.02	3.0	.030	.09	<.010	--	

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)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)
OCT 07...	1700	--	--	--	--	--	--	--	--	--	--
JAN 21...	1015	1	0	1	100	0	100	0	0	3	0
MAR 18...	1030	1	0	1	100	0	100	0	--	<1	20
MAY 13...	1030	1	0	1	100	0	100	0	--	<1	0
SEP 16...	1045	2	0	2	100	2	98	0	0	3	0

DATE	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, SUS-PENDED RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	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)
OCT 07...	--	--	--	--	--	--	--	--	--	--	--
JAN 21...	0	0	0	0	4	5	4	1	230	210	20
MAR 18...	19	1	2	--	<3	3	2	1	700	680	20
MAY 13...	0	0	0	--	<3	4	2	2	360	--	<10
SEP 16...	0	0	0	0	0	4	3	1	350	340	13

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	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)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)
OCT 07...	--	--	--	--	--	--	--	--	--	--	--
JAN 21...	6	6	0	20	10	9	.0	.0	.0	0	0
MAR 18...	2	0	2	50	20	30	.1	.1	.0	1	1
MAY 13...	0	0	4	70	30	40	.2	.2	.0	3	1
SEP 16...	36	35	1	50	40	14	.2	.0	.5	1	1

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	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)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 07...	--	--	--	--	0	--	--	--	--	--
JAN 21...	0	1	0	1	0	0	1	10	0	10
MAR 18...	0	1	1	0	0	0	0	30	10	20
MAY 13...	2	0	0	0	0	0	0	20	10	10
SEP 16...	0	0	0	0	0	0	0	20	0	20

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
OCT 07...	1700	11	--	--
JAN 21...	1015	--	13	.2
MAR 18...	1030	--	6.1	.8
MAY 13...	1030	--	5.5	.2
JUL 15...	1030	.4	--	--
SEP 16...	1045	--	5.9	.3

10039500 BEAR RIVER AT BORDER, WY--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	OCT 7,80		MAR 18,81		JUL 15,81		SEP 16,81	
TIME	1700		1030		1030		1045	
TOTAL CELLS/ML	17000		450		4800		1200	
DIVERSITY: DIVISION	0.8		1.3		1.7		1.9	
.CLASS	0.8		1.3		1.7		1.9	
..ORDER	1.1		1.9		2.3		2.5	
...FAMILY	1.1		2.8		3.0		3.1	
....GENUS	1.2		2.8		3.3		3.4	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHLOROCOCCACEAE								
....SCHROEDERIA	--	-	--	-	39	1	--	-
...MICRACTINIACEAE								
....MICRACTINIUM	--	-	--	-	b	0	28	2
...OOCYSTACEAE								
....ANKISTRODESMUS	b	0	--	-	200	4	84	7
....SELENASTRUM	b	0	--	-	--	-	--	-
....TREUBARIA	--	-	--	-	b	0	14	1
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	78	2	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	--	-	110	10
....COELASTRUM	--	-	--	-	310	7	--	-
....SCENEDESMUS	b	0	100a	23	800a	17	220a	19
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	b	0	77a	17	39	1	56	5
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	1600	9	13	3	59	1	180a	15
....MELOSIRA	--	-	--	-	120	2	--	-
..PENNALES								
...CYMBELLACEAE								
....CYMBELLA	--	-	--	-	b	0	--	-
....EPITHEMIA	--	-	--	-	b	0	--	-
...DIATOMACEAE								
....DIATOMA	--	-	--	-	78	2	--	-
...FRAGILARIACEAE								
....SYNEDRA	--	-	26	6	--	-	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	13	3	39	1	--	-
...NAVICULACEAE								
....NAVICULA	--	-	90a	20	180	4	28	2
...NITZSCHIACEAE								
....NITZSCHIA	180	1	90a	20	820a	17	56	5
...SURIRELLACEAE								
....SURIRELLA	--	-	13	3	b	0	--	-
.CHRYSOPHYCEAE								
..OCHROMONADALES								
...OCHROMONADACEAE								
....OCHROMONAS	--	-	--	-	b	0	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	420	2	--	-	--	-	42	4
...CRYPTOMONADACEAE								
....CRYPTOMONAS	120	1	--	-	59	1	28	2
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	840	5	--	-	--	-	70	6
..NOSTOCALES								
...HAMMATOIDEACEAE								
....RAPHIDIOPSIS	--	-	--	-	--	-	210a	18
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	980a	20	--	-
..OSCILLATORIALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	14000a	80	--	-	820a	17	--	-

See footnote at end of table.

10039500 BEAR RIVER AT BORDER, WY--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	OCT 7,80		MAR 18,81		JUL 15,81		SEP 16,81	
TIME	1700		1030		1030		1045	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	--	-	14	1
....TRACHELOMONAS	b	0	13	3	39	1	28	2
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..DINOKONTAE								
...GLENODINIACEAE								
....GLENODINIUM	--	-	13	3	--	-	--	-

NOTE.-- (a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organism, may not have been counted: Less than 1/2 percent.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	510	590	580	500	580	560	710	550	710	720	---	550
2	570	580	570	580	580	560	700	560	710	720	560	550
3	570	580	580	490	495	560	740	570	710	720	520	550
4	570	570	560	560	455	560	740	540	650	720	540	530
5	560	570	550	630	550	560	740	570	710	720	570	520
6	570	580	540	640	560	560	740	580	670	720	600	530
7	580	570	550	540	560	570	740	630	650	750	580	500
8	570	580	520	620	620	560	790	640	680	750	620	510
9	580	540	570	640	600	570	700	640	680	710	620	520
10	560	580	580	640	590	570	---	640	680	760	610	510
11	580	530	640	640	620	610	700	610	630	760	630	510
12	570	560	600	640	500	610	700	610	630	760	610	510
13	520	580	660	640	550	610	700	610	640	730	530	500
14	550	540	560	640	610	610	720	620	640	760	590	470
15	580	550	540	640	560	600	710	620	630	700	590	490
16	570	550	560	640	560	610	710	620	640	720	640	580
17	580	580	600	630	560	620	700	620	760	760	640	500
18	580	540	640	610	580	620	710	620	740	730	620	500
19	540	530	650	550	550	630	630	790	750	730	610	460
20	600	580	650	610	560	600	650	620	750	730	620	520
21	600	540	510	580	550	710	640	620	730	750	620	550
22	600	760	620	580	560	700	650	780	750	570	620	560
23	600	610	530	560	560	700	640	780	750	570	520	560
24	590	610	620	580	560	710	630	780	750	570	620	530
25	600	530	590	570	560	710	650	780	720	570	550	560
26	590	570	425	580	560	710	650	780	720	570	590	560
27	580	580	430	580	560	710	570	690	740	560	480	580
28	580	570	690	580	570	700	570	780	740	570	500	580
29	580	530	520	590	---	710	570	700	750	570	550	580
30	580	570	520	590	---	710	570	680	740	560	520	580
31	580	---	620	475	---	710	---	---	---	490	520	---
MEAN	574	572	573	592	561	630	678	654	702	678	580	532

10039500 BEAR RIVER AT BORDER, WY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.5	6.0	.5	.5	.5	.5	8.0	15.0	18.0	15.5	---	20.0
2	12.0	6.0	.5	.5	.5	1.5	8.0	15.0	18.0	16.0	21.0	20.0
3	12.0	6.0	.5	.5	.5	1.5	8.0	14.5	18.0	16.5	21.0	20.0
4	12.0	6.5	.0	.5	.5	2.0	8.0	14.0	18.0	16.5	21.0	20.0
5	12.0	6.5	.0	.5	.5	2.0	8.0	14.0	17.5	16.5	21.0	20.0
6	12.0	7.0	.0	.5	.5	2.5	8.0	14.5	18.0	16.5	21.0	20.0
7	12.0	6.0	.0	.5	.5	3.0	7.0	14.5	18.0	17.0	21.0	20.0
8	12.0	6.0	.0	.5	.0	3.0	7.5	14.5	18.0	17.0	21.0	19.5
9	11.0	6.0	.0	.5	.0	3.0	7.5	14.5	18.0	17.0	21.0	19.5
10	11.0	5.5	.0	.5	.0	3.0	---	14.5	18.0	17.0	21.0	19.5
11	11.0	5.5	.0	.5	.0	4.0	8.0	10.0	17.5	17.0	21.0	19.5
12	9.5	5.5	.5	.5	.5	4.0	10.0	9.0	17.5	17.5	21.0	17.5
13	8.5	4.5	.5	.5	.5	4.0	10.0	10.5	16.0	17.5	20.0	17.5
14	8.5	4.0	.5	.5	.5	4.5	10.0	10.0	15.5	17.5	20.0	17.5
15	8.5	2.0	.0	.5	.5	4.5	10.5	10.5	15.5	17.5	20.5	15.5
16	8.0	1.5	.0	.5	.0	4.5	12.0	11.0	15.5	18.0	20.0	---
17	8.0	1.5	1.0	.5	.0	4.5	14.0	11.0	15.0	18.0	20.5	15.5
18	8.0	1.0	1.0	.5	.0	2.0	14.0	12.0	15.0	19.5	20.5	15.5
19	8.0	1.0	.5	.5	.0	6.0	15.5	12.0	15.0	19.5	18.0	15.5
20	8.0	1.0	.5	.5	.5	6.0	14.5	12.0	15.5	19.5	20.0	15.5
21	7.5	1.0	.5	.5	.5	6.5	15.0	13.5	15.5	19.5	20.0	15.0
22	7.5	1.0	.5	.5	.5	6.5	15.5	14.0	15.5	19.5	20.0	15.0
23	7.5	1.0	.5	.5	.5	6.5	15.5	16.0	15.5	19.5	20.0	15.0
24	7.5	1.0	.5	.5	.5	7.0	15.5	16.0	15.5	20.0	20.0	15.0
25	7.5	1.0	.5	.5	.5	7.5	15.5	16.5	15.5	20.0	20.0	15.0
26	5.5	.5	.5	.5	.5	7.5	16.0	17.0	15.5	20.0	20.5	15.0
27	5.5	.5	.5	.5	.5	7.5	15.0	17.0	15.0	20.5	20.5	15.0
28	5.5	.5	.5	.5	.5	7.0	15.5	17.0	15.0	20.5	20.5	15.0
29	5.5	.5	.5	.5	---	7.5	15.0	17.5	15.0	20.0	20.0	15.0
30	6.0	.5	.5	.5	---	8.0	15.0	18.0	15.0	20.5	20.0	14.5
31	6.5	---	.5	.5	---	8.0	---	---	---	20.5	20.0	---
MEAN	9.0	3.0	.5	.5	.5	4.5	12.0	14.0	16.5	18.5	20.5	17.0

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT						
07...	1700	176	13.5	57	86	27
NOV						
13...	1615	236	4.0	181	99	115
DEC						
17...	1400	260	.5	8	90	5.6
JAN						
21...	1015	105	.5	8	70	2.3
FEB						
18...	1015	180	.0	12	83	5.8
MAR						
18...	1030	185	2.0	15	89	7.5
APR						
15...	1000	160	9.0	74	93	32
MAY						
13...	1030	153	6.0	25	84	10
JUN						
17...	1030	767	12.0	228	93	472
JUL						
15...	1030	483	17.5	230	92	300
AUG						
19...	0900	120	18.0	63	72	20
SEP						
16...	1045	98	14.5	154	99	41

10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE

LOCATION.--Lat 42°24'10", long 111°01'30", in SE¼NW¼ sec.19, T.28 N., R.119 W., Lincoln County, Wyoming, Hydrologic Unit 16010102, on right bank 1.3 mi (2.1 km) upstream from State line, 1.5 mi (2.4 km) downstream from Giraffe Creek, and 3.5 mi (5.6 km) northeast of Geneva, Idaho.

DRAINAGE AREA.--113 mi^2 (293 km^2).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,280 ft (1,914 m) from topographic map. Prior to Aug. 23, 1957, at site 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records good except those for winter periods and no gage-height record, Oct. 1-8, Jan. 20 to Mar. 11, and Apr. 25 to May 5, which are fair.

AVERAGE DISCHARGE.--32 years, 54.0 ft^3/s (1.53 m^3/s), 39,120 acre-ft/yr (48.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,040 ft^3/s (29.5 m^3/s) May 14, 1971, gage height, 3.84 ft (1.170 m); minimum, 2.6 ft^3/s (0.074 m^3/s) Mar. 2, 1956, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 86 ft^3/s (2.44 m^3/s) May 26, gage height, 1.40 ft (0.427 m), no peak above base of 150 ft^3/s (4.25 m^3/s); minimum, 8.0 ft^3/s (0.227 m^3/s) several days during Sept.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	21	18	18	12	14	18	41	44	22	11	8.6
2	24	21	17	19	10	15	21	43	45	26	11	8.4
3	24	20	19	15	9.6	15	20	40	55	24	10	8.3
4	24	21	19	16	9.3	14	18	36	46	25	10	8.3
5	24	20	19	15	9.0	14	17	35	43	22	10	8.4
6	24	20	17	12	10	15	19	34	41	21	10	9.4
7	23	21	15	10	12	16	18	34	40	22	9.9	9.4
8	23	20	13	8.8	11	15	18	31	39	20	9.8	9.0
9	23	20	11	10	12	14	19	28	38	20	9.9	8.8
10	23	20	10	11	11	15	22	27	37	19	11	9.7
11	23	20	11	10	9.0	16	27	36	37	18	10	9.9
12	25	23	10	9.5	12	16	27	32	35	18	10	9.0
13	30	22	10	9.0	11	17	26	29	35	17	12	8.8
14	25	19	10	9.5	12	18	26	29	36	17	12	8.5
15	27	17	12	10	12	19	27	31	35	16	13	8.4
16	26	15	13	10	13	19	27	32	33	16	11	8.4
17	25	13	14	12	15	16	29	32	31	15	11	8.3
18	24	13	13	13	13	15	29	31	31	15	10	8.2
19	24	13	14	12	14	16	34	30	30	15	9.7	8.0
20	23	13	13	12	14	17	35	30	30	15	9.7	8.1
21	23	13	15	12	12	17	36	40	28	14	11	8.2
22	23	15	18	12	12	16	32	49	27	14	10	8.4
23	22	17	17	10	11	18	29	44	27	13	9.6	8.6
24	24	18	16	12	12	19	34	44	26	13	9.3	8.6
25	23	17	16	11	14	18	36	44	25	14	9.2	10
26	22	16	17	12	16	19	38	63	25	14	8.9	10
27	22	16	17	13	14	23	38	66	24	15	9.3	9.8
28	22	17	16	14	15	21	36	54	24	13	9.5	9.2
29	21	18	15	13	---	21	38	51	23	13	8.9	9.1
30	21	18	16	14	---	21	40	49	22	12	8.8	10
31	21	---	17	13	---	19	---	46	---	11	8.7	---
TOTAL	732	537	458	377.8	336.9	528	834	1211	1012	529	314.2	265.8
MEAN	23.6	17.9	14.8	12.2	12.0	17.0	27.8	39.1	33.7	17.1	10.1	8.86
MAX	30	23	19	19	16	23	40	66	55	26	13	10
MIN	21	13	10	8.8	9.0	14	17	27	22	11	8.7	8.0
AC-FT	1450	1070	908	749	668	1050	1650	2400	2010	1050	623	527

CAL YR 1980 TOTAL 27639.8 MEAN 75.5 MAX 605 MIN 9.9 AC-FT 54820
WTR YR 1981 TOTAL 7135.7 MEAN 19.5 MAX 66 MIN 8.0 AC-FT 14150

10044000 BEAR RIVER AT HARER, ID

LOCATION.--Lat 42°11'50", long 111°10'05", in NW¼ sec.23, T.14 S., R.45 E., Bear Lake County, Hydrologic Unit 16010102, on right bank 400 ft (122 m) downstream from Sheep Creek, 0.8 mi (1.3 km) north of Harer siding on Union Pacific (Oregon Short Line) Railroad, and 5 mi (8 km) southeast of Dingle.

DRAINAGE AREA.--2,839 mi^2 (7,353 km^2).

PERIOD OF RECORD.--June 1913 to current year. Monthly discharge only October 1916 to December 1918 published in WSP 1314.

REVISED RECORDS.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,000 ft (1,830 m) from topographic map. Prior to Aug. 24, 1914, staff gage at site 1,500 ft (457 m) downstream at different datum.

REMARKS.--Records good except those for winter months, 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.--68 years, 516 ft^3/s (14.6 m^3/s), 373,800 acre-ft/yr (461 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,440 ft^3/s (126 m^3/s) May 7, 1952, gage height, 11.04 ft (3.365 m); minimum daily, 26 ft^3/s (0.74 m^3/s) Aug. 21-27, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,060 ft^3/s (30.0 m^3/s) May 28, gage height, 5.27 ft (1.606 m); minimum daily, 89 ft^3/s (2.52 m^3/s) Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	196	287	251	261	224	252	247	130	812	211	307	91
2	197	278	253	256	206	254	243	129	771	254	292	89
3	198	272	250	255	196	251	247	118	762	291	283	90
4	198	268	247	259	192	248	243	124	777	265	248	92
5	243	264	252	252	184	242	231	128	760	260	201	95
6	236	262	268	251	183	241	222	132	744	263	184	100
7	232	264	258	241	189	241	226	138	673	289	181	107
8	224	273	244	218	200	256	261	138	617	301	181	114
9	222	257	233	206	204	263	229	133	559	424	173	115
10	220	255	210	207	205	261	217	131	531	423	167	118
11	218	252	206	206	194	257	225	146	512	466	153	120
12	222	254	209	204	181	250	239	162	479	437	151	124
13	243	263	207	207	185	239	241	175	441	398	155	124
14	258	262	216	212	194	227	228	181	442	403	155	122
15	275	241	228	216	203	201	199	177	511	496	145	115
16	288	235	232	218	206	265	191	178	610	534	140	107
17	291	234	234	223	210	260	191	188	754	536	152	118
18	293	266	237	227	211	249	193	193	835	486	142	123
19	291	265	240	234	212	238	194	200	813	445	135	120
20	286	272	237	233	217	241	190	227	786	416	131	116
21	283	271	238	221	219	252	228	275	668	387	129	114
22	290	254	239	221	228	275	250	332	572	380	113	113
23	283	274	241	221	246	255	223	344	522	369	107	114
24	277	287	250	219	250	251	187	348	448	388	100	113
25	269	272	255	227	249	250	161	415	377	390	96	113
26	271	233	259	228	248	247	169	620	347	381	95	114
27	280	234	265	224	252	255	158	958	305	369	97	117
28	278	245	268	224	250	273	154	968	264	336	98	116
29	283	257	273	229	---	278	157	896	229	326	97	119
30	285	254	270	233	---	283	138	850	218	322	96	124
31	295	---	267	236	---	262	---	829	---	311	93	---
TOTAL	7925	7805	7537	7069	5938	7817	6282	9963	17139	11557	4797	3357
MEAN	256	260	243	228	212	252	209	321	571	373	155	112
MAX	295	287	273	261	252	283	261	968	835	536	307	124
MIN	196	233	206	204	181	201	138	118	218	211	93	89
AC-FT	15720	15480	14950	14020	11780	15510	12460	19760	34000	22920	9510	6660

CAL YR 1980 TOTAL 268225 MEAN 733 MAX 3050 MIN 124 AC-FT 532000
WTR YR 1981 TOTAL 97186 MEAN 266 MAX 968 MIN 89 AC-FT 192800

10046000 RAINBOW INLET CANAL NEAR DINGLE, ID

LOCATION.--Lat 42°13'48", long 111°17'43", in SE¼ sec.3, T.14 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 1.5 mi (2.4 km) west of Dingle and 1.8 mi (2.9 km) 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 (1,805.03 m) NGVD of 1929 (by topographic survey). Prior to Oct. 1, 1923, at site 300 ft (91 m) downstream at different datum; Oct. 1, 1923 to Oct. 27, 1944, at site 0.5 mi (0.8 km) downstream at different datum.

REMARKS.--Records good. Canal diverts from Bear River at Stewart Dam in NE¼ 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.--59 years, 338 ft^3/s (9.57 m^3/s), 244,900 acre-ft/yr (302 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,180 ft^3/s (118 m^3/s) May 7, 1952, gage height, 8.62 ft (2.627 m); no flow Apr. 28, 1977 and Oct. 1, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 601 ft^3/s (17.1 m^3/s) May 28; minimum daily, 6.4 ft^3/s (0.181 m^3/s) Apr. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137	239	199	225	157	186	172	7.1	449	45	174	36
2	142	236	187	220	145	187	169	7.2	425	51	159	26
3	146	233	225	215	133	206	165	7.3	427	47	144	17
4	155	231	222	210	135	224	161	7.4	441	44	141	17
5	163	229	216	194	133	185	158	7.5	458	40	138	17
6	172	227	180	194	130	181	154	6.6	420	37	125	17
7	154	225	145	173	129	180	156	7.0	381	43	112	17
8	136	222	109	151	128	179	158	7.5	343	48	110	17
9	134	218	117	154	128	178	148	7.4	314	88	108	18
10	131	215	125	156	131	183	138	7.3	273	128	106	19
11	122	218	136	159	134	188	144	7.2	225	133	95	20
12	114	220	147	149	117	194	149	7.5	210	138	83	14
13	105	214	147	138	100	199	155	7.7	203	143	86	7.6
14	138	231	147	141	111	193	122	7.6	196	158	88	8.0
15	171	205	147	143	121	186	73	7.5	189	172	87	8.4
16	186	179	152	144	131	180	24	7.4	203	241	87	8.1
17	201	153	157	146	141	181	21	7.4	250	309	86	7.8
18	206	167	156	147	149	181	18	7.3	398	282	85	7.6
19	211	180	154	141	148	176	14	7.6	398	255	85	7.5
20	216	176	157	134	146	170	11	7.8	331	228	77	7.3
21	218	171	159	134	152	178	8.4	26	263	223	70	7.0
22	220	188	162	133	158	186	7.9	45	196	209	62	7.0
23	223	205	168	140	165	194	7.4	63	162	208	54	7.1
24	212	222	175	146	173	186	7.5	81	127	208	46	7.6
25	212	211	181	153	181	178	7.3	100	102	208	41	8.1
26	213	199	187	151	183	176	7.2	118	77	208	37	8.1
27	213	199	194	148	185	175	7.0	358	62	208	32	8.1
28	215	199	200	153	186	173	6.7	601	47	221	28	8.1
29	217	199	206	157	---	172	6.4	516	32	207	24	8.2
30	223	199	212	157	---	172	6.7	516	39	207	21	8.3
31	242	---	219	157	---	172	---	516	---	189	28	----
TOTAL	5548	6210	5288	4963	4030	5699	2382.5	3087.3	7641	4926	2619	374.9
MEAN	179	207	171	160	144	184	79.4	99.6	255	159	84.5	12.5
MAX	242	239	225	225	186	224	172	601	458	309	174	36
MIN	105	153	109	133	100	170	6.4	6.6	32	37	21	7.0
AC-FT	11000	12320	10490	9840	7990	11300	4730	6120	15160	9770	5190	744

CAL YR 1980 TOTAL 224284.0 MEAN 613 MAX 2950 MIN 83 AC-FT 444900
WTR YR 1981 TOTAL 52768.7 MEAN 145 MAX 601 MIN 6.4 AC-FT 104700

10046500 BEAR RIVER BELOW STEWART DAM, NEAR MONTPELIER, ID

LOCATION.--Lat 42°15'14", long 111°17'35", in NE¼ sec.34, T.13 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 300 ft (91 m) downstream from Stewart Dam and 4.5 mi (7.2 km) south of Montpelier.

DRAINAGE AREA.--2,853 mi^2 (7,389 km^2).

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only January 1922 to September 1945, published in WSP 1314.

REVISED RECORDS.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,950 ft (1,814 m) 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.--59 years, 44.9 ft^3/s (1.27 m^3/s), 32,530 acre-ft/yr (40.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,050 ft^3/s (86.4 m^3/s) June 3, 1923; no flow July 15, 1956, July 13, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 36 ft^3/s (1.02 m^3/s) Oct. 1, gage height, 1.02 ft (0.311 m); minimum, 2.6 ft^3/s (0.074 m^3/s) Sept. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	9.0	8.4	8.8	7.0	8.5	7.7	5.4	13	10	10	6.7
2	30	9.6	8.4	8.8	7.0	8.7	7.7	5.5	12	10	10	5.3
3	31	8.4	8.6	8.9	7.0	9.2	7.6	5.5	12	10	10	3.0
4	31	7.2	8.7	8.9	7.0	8.9	7.5	5.6	12	9.9	9.9	3.0
5	32	7.8	8.9	8.9	7.0	8.7	7.5	5.6	11	9.6	9.9	3.1
6	33	8.0	8.5	8.7	7.1	8.8	7.4	5.6	12	9.6	10	3.2
7	32	8.6	8.2	8.5	7.1	8.8	7.6	5.6	12	9.8	10	3.6
8	32	8.7	8.1	8.3	7.1	9.5	7.8	5.5	12	10	10	4.1
9	32	9.0	8.0	8.1	7.1	9.9	8.0	5.5	13	10	10	4.6
10	30	9.2	8.1	7.9	6.5	9.1	8.3	5.5	12	12	9.8	4.7
11	30	9.3	8.2	7.8	6.3	8.8	8.5	5.6	12	12	9.6	4.7
12	29	9.4	8.2	7.7	6.1	8.9	8.7	5.4	11	11	10	4.8
13	22	9.6	8.1	7.6	6.0	8.7	12	6.1	11	9.6	9.9	4.9
14	9.9	9.8	7.9	7.6	6.0	8.4	18	6.9	11	9.3	8.2	5.0
15	10	9.7	7.8	7.6	5.9	8.2	12	7.3	11	10	8.4	4.9
16	9.9	9.7	7.6	7.6	5.9	8.2	8.3	7.8	12	11	9.0	4.9
17	9.6	9.2	7.6	7.6	5.9	8.3	7.8	8.3	13	12	9.7	5.1
18	9.3	8.2	7.6	7.6	5.9	8.1	7.3	8.8	14	11	9.4	5.0
19	9.2	8.3	7.6	7.6	6.1	7.7	7.1	9.3	14	11	9.1	4.8
20	9.2	8.3	7.7	7.6	5.9	7.6	6.5	10	13	11	8.8	4.7
21	9.2	8.5	7.7	7.5	6.1	7.6	6.3	11	13	11	8.4	4.6
22	9.1	8.7	7.7	7.3	6.3	7.7	5.9	13	13	11	8.2	4.5
23	9.0	8.9	7.7	7.2	6.5	7.8	5.8	15	12	9.3	8.1	4.7
24	9.0	9.1	7.8	7.1	6.8	7.8	5.6	15	12	9.7	7.9	5.0
25	8.9	8.7	7.9	7.1	7.0	7.7	5.3	16	11	10	7.8	4.9
26	9.1	8.2	8.0	7.0	7.2	7.7	5.0	19	11	10	7.5	3.4
27	9.4	8.1	8.4	6.9	7.4	7.7	4.9	17	11	9.9	7.5	2.7
28	9.6	8.3	8.5	7.0	7.9	7.7	5.0	17	10	9.6	7.4	2.8
29	8.8	8.6	8.6	7.0	---	7.8	5.2	16	9.2	10	7.3	3.1
30	8.4	8.5	8.6	7.0	---	7.8	5.4	15	8.4	10	7.3	3.6
31	8.6	---	8.7	7.0	---	7.8	---	14	---	10	7.1	---
TOTAL	565.2	262.6	251.8	240.2	185.1	258.1	227.7	298.8	353.6	319.3	276.2	129.4
MEAN	18.2	8.75	8.12	7.75	6.61	8.33	7.59	9.64	11.8	10.3	8.91	4.31
MAX	35	9.8	8.9	8.9	7.9	9.9	18	19	14	12	10	6.7
MIN	8.4	7.2	7.6	6.9	5.9	7.6	4.9	5.4	8.4	9.3	7.1	2.7
AC-FT	1120	521	499	476	367	512	452	593	701	633	548	257

CAL YR 1980 TOTAL 7096.1 MEAN 19.4 MAX 79 MIN 3.0 AC-FT 14080
WTR YR 1981 TOTAL 3368.0 MEAN 9.23 MAX 35 MIN 2.7 AC-FT 6680

10055500 BEAR LAKE AT LIFTON, NEAR ST. CHARLES, ID

LOCATION.--Lat 42°07'160", long 111°18'52", in NE¼ 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 (5.6 km) east of St. Charles.

DRAINAGE AREA.--435 mi^2 (1,127 km^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 (1,798.3 m) 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 (1.75 km^3) between elevation 5,902.00 ft (1,798.930 m), lower limit of pumps, and 5,923.65 ft (1,805.529 m), 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 (1.75 km^3) June 10, 1923, elevation, 5,923.68 ft (1,805.538 m); no usable contents Nov. 9-19, 1935.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,181,000 acre-ft (1.46 km^3) Oct. 1, elevation, 5,920.23 ft (1,805.288 m); minimum, 882,500 acre-ft (1.09 km^3) Sept. 30.

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

5,915	821,000	5,919	1,095,000
5,916	888,600	5,920	1,165,000
5,917	956,900	5,921	1,235,000
5,918	1,026,000		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1181000	1121000	1090000	1058000	1048000	1053000	1069000	1070000	1076000	1081000	1013000	928900
2	1178000	1120000	1088000	1058000	1048000	1054000	1069000	1071000	1076000	1079000	1011000	926200
3	1175000	1118000	1087000	1057000	1048000	1054000	1069000	1071000	1077000	1078000	1009000	922700
4	1174000	1117000	1085000	1056000	1049000	1054000	1069000	1071000	1078000	1076000	1007000	919300
5	1173000	1116000	1084000	1056000	1049000	1055000	1069000	1071000	1080000	1074000	1005000	915200
6	1170000	1115000	1083000	1055000	1049000	1055000	1069000	1071000	1081000	1072000	1003000	913200
7	1168000	1115000	1081000	1054000	1049000	1056000	1069000	1071000	1081000	1070000	1000000	911800
8	1165000	1114000	1080000	1054000	1049000	1056000	1068000	1071000	1081000	1067000	997500	910500
9	1161000	1113000	1078000	1053000	1049000	1056000	1068000	1070000	1082000	1065000	994800	909100
10	1159000	1113000	1076000	1052000	1049000	1057000	1068000	1070000	1083000	1063000	991300	907700
11	1156000	1111000	1074000	1051000	1049000	1057000	1068000	1070000	1085000	1060000	987200	906400
12	1154000	1110000	1073000	1050000	1049000	1058000	1068000	1070000	1086000	1059000	983000	905700
13	1152000	1108000	1072000	1050000	1049000	1058000	1068000	1070000	1087000	1056000	979600	904300
14	1151000	1107000	1071000	1050000	1050000	1058000	1068000	1070000	1088000	1054000	976100	903000
15	1148000	1106000	1070000	1050000	1050000	1058000	1068000	1070000	1088000	1051000	972700	902300
16	1146000	1104000	1068000	1050000	1050000	1058000	1068000	1071000	1089000	1048000	968600	900900
17	1144000	1102000	1067000	1049000	1050000	1058000	1068000	1071000	1090000	1045000	964500	898800
18	1143000	1101000	1067000	1049000	1050000	1058000	1068000	1071000	1090000	1044000	960400	897500
19	1140000	1099000	1066000	1048000	1050000	1058000	1069000	1071000	1091000	1042000	956900	895400
20	1138000	1099000	1065000	1047000	1051000	1058000	1069000	1071000	1092000	1039000	953500	893400
21	1136000	1099000	1065000	1047000	1051000	1059000	1069000	1071000	1092000	1038000	950100	891300
22	1134000	1098000	1065000	1047000	1051000	1059000	1069000	1071000	1092000	1027000	948000	890000
23	1133000	1097000	1064000	1047000	1051000	1060000	1069000	1072000	1092000	1026000	948000	889300
24	1131000	1095000	1064000	1047000	1051000	1060000	1070000	1072000	1092000	1026000	946600	888600
25	1129000	1094000	1063000	1047000	1051000	1060000	1070000	1072000	1091000	1025000	945300	887900
26	1127000	1094000	1063000	1047000	1052000	1061000	1070000	1072000	1090000	1024000	943200	887900
27	1125000	1093000	1062000	1047000	1052000	1062000	1070000	1072000	1088000	1022000	940500	887200
28	1124000	1092000	1061000	1047000	1053000	1063000	1070000	1073000	1086000	1021000	937800	885900
29	1123000	1091000	1060000	1047000	---	1065000	1070000	1074000	1084000	1020000	935000	883800
30	1122000	1090000	1060000	1047000	---	1065000	1070000	1074000	1083000	1018000	933000	882500
31	1122000	---	1059000	1047000	---	1067000	---	1075000	---	1015000	931000	---
MAX	1181000	1121000	1090000	1058000	1053000	1067000	1070000	1075000	1092000	1081000	1013000	928900
MIN	1122000	1090000	1059000	1047000	1048000	1053000	1068000	1070000	1076000	1015000	931000	882500
(†)	5919.38	5918.93	5918.48	5918.31	5918.39	5918.59	5918.64	5918.71	5918.82	5917.85	5916.62	5915.91
(‡)	-60000	-32000	-31000	-12000	+6000	+14000	+3000	+5000	+8000	-68000	-84000	-48500

CAL YR 1980 . . . . . (‡) +120600
WTR YR 1981 . . . . . (‡) -299500

(†) ELEVATION, IN FEET, AT END OF MONTH
(‡) CHANGE IN CONTENTS, IN ACRE-FEET

10058600 BLOOMINGTON CREEK AT BLOOMINGTON, ID

LOCATION.--Lat 42°11'05", long 111°25'30", in SE¼SE¼ sec.21, T.14 S., R.43 E., Bear Lake County, Hydrologic Unit 16010201, on left bank 1 mi (2 km) west of Bloomington.

DRAINAGE AREA.--24.0 mi^2 (62.2 km^2).

PERIOD OF RECORD.--October 1960 to current year.

REVISED RECORDS.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder 4 ft (1.2 m) above 8-ft (2.44-m) concrete flume. Altitude of gage is 6,070 ft (1,850 m) from topographic map.

REMARKS.--Records good except those of no gage-height record Oct. 23 to Nov. 20, and Mar. 21 to Apr. 16, which are fair.

AVERAGE DISCHARGE.--21 years, 29.0 ft^3/s (0.821 m^3/s), 21,010 acre-ft/yr (25.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 248 ft^3/s (7.02 m^3/s) June 11, 1971, gage height, 4.66 ft (1.420 m); minimum, 9.4 ft^3/s (0.27 m^3/s) Jan. 27, 1961, Feb. 26, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 73 ft^3/s (2.07 m^3/s) May 25, gage height, 2.71 ft (0.826 m); minimum daily, 14 ft^3/s (0.396 m^3/s) Apr. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	21	20	18	16	16	16	29	37	21	19	17
2	25	21	20	18	16	16	17	32	37	21	19	17
3	25	20	20	18	16	16	17	30	49	21	18	17
4	25	21	20	18	16	16	16	27	37	21	18	17
5	25	20	20	18	16	16	15	27	34	21	19	17
6	25	20	19	16	16	16	16	26	32	20	18	17
7	24	21	18	17	16	16	15	25	31	20	18	17
8	24	20	18	17	16	16	15	23	30	20	18	17
9	24	20	19	17	16	16	16	22	31	20	18	17
10	24	20	19	17	16	16	16	22	29	20	18	17
11	24	20	19	17	16	16	16	25	28	20	18	17
12	25	21	19	17	16	16	15	23	27	20	19	17
13	25	21	19	17	16	16	15	21	27	20	18	17
14	24	19	18	17	16	15	15	22	27	20	18	17
15	25	20	19	17	16	16	15	24	26	19	18	17
16	24	20	18	17	16	16	15	23	25	20	18	17
17	24	20	18	17	16	16	14	22	25	20	18	17
18	23	20	18	17	16	16	17	21	24	20	18	17
19	23	20	18	17	17	16	21	22	24	19	18	17
20	23	20	18	17	16	16	19	24	23	19	18	17
21	23	20	18	17	16	16	21	34	23	19	18	17
22	23	21	19	16	16	16	18	63	23	19	18	17
23	22	20	18	16	16	16	18	44	22	19	18	17
24	24	20	18	17	16	17	20	42	22	19	18	17
25	23	19	19	17	16	16	22	45	22	19	17	18
26	22	20	20	16	16	16	24	59	22	19	17	17
27	22	20	19	16	16	19	24	50	22	19	17	17
28	22	20	19	17	16	18	23	43	21	19	17	17
29	21	20	18	17	---	18	26	43	21	19	17	17
30	21	20	18	17	---	18	28	41	21	19	17	17
31	21	---	18	16	---	17	---	42	---	19	17	---
TOTAL	730	605	581	526	449	506	545	996	822	611	555	511
MEAN	23.5	20.2	18.7	17.0	16.0	16.3	18.2	32.1	27.4	19.7	17.9	17.0
MAX	25	21	20	18	17	19	28	63	49	21	19	18
MIN	21	19	18	16	16	15	14	21	21	19	17	17
AC-FT	1450	1200	1150	1040	891	1000	1080	1980	1630	1210	1100	1010

CAL YR 1980 TOTAL 12697 MEAN 34.7 MAX 108 MIN 15 AC-FT 25180
WTR YR 1981 TOTAL 7437 MEAN 20.4 MAX 63 MIN 14 AC-FT 14750

10059500 BEAR LAKE OUTLET CANAL NEAR PARIS, ID

LOCATION.--Lat 42°13'00", long 111°20'35", in SW¼ sec.8, T.14 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 2,000 ft (610 m) downstream from headgates (at dike) and 3 mi (5 km) 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 (1,802.16 m) NGVD of 1929, unadjusted.

REMARKS.--Records good. 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.--59 years, 374 ft^3/s (10.6 m^3/s), 271,000 acre-ft/yr (334 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,870 ft^3/s (53.0 m^3/s) Aug. 8, 1924; minimum daily, 1 ft^3/s (0.28 m^3/s) for many days in 1937, 1954, 1959, 1961, 1964, 1977, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,450 ft^3/s (41.1 m^3/s) July 14, gage height, 18.23 ft (5.557 m); minimum daily, 5.5 ft^3/s (0.156 m^3/s) several days during Jan.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1170	823	706	680	5.7	6.9	7.9	7.9	11	1270	1100	662
2	1160	822	710	681	5.7	6.9	7.9	7.9	11	1290	1100	804
3	1140	826	708	677	5.7	7.0	7.9	7.9	11	1290	1100	927
4	1150	865	719	673	5.8	7.1	7.9	7.9	11	1290	1090	961
5	1150	880	677	668	5.8	7.1	7.9	7.9	11	1280	1090	770
6	1130	878	636	727	5.8	7.2	7.9	252	11	1310	1090	649
7	1100	833	635	712	5.9	7.2	7.9	259	11	1330	1090	606
8	1080	830	661	697	5.9	7.3	7.9	245	11	1390	1090	570
9	1030	851	747	689	5.9	7.4	7.9	229	11	1400	1120	551
10	1040	841	755	705	6.0	7.4	7.9	238	11	1400	1150	527
11	1050	836	705	703	6.0	7.5	7.9	328	11	1390	1180	513
12	1040	827	657	686	6.0	7.5	7.9	442	11	1390	1220	502
13	1040	809	659	632	6.1	7.6	7.9	437	11	1390	1180	491
14	1060	847	651	439	6.1	7.7	7.9	421	11	1420	1150	473
15	1060	852	660	399	6.1	7.7	7.9	425	11	1420	1090	465
16	1050	854	695	292	6.2	7.8	7.9	415	11	1390	1050	455
17	1090	852	696	306	6.2	7.8	7.9	410	11	1430	895	441
18	1110	876	702	358	6.2	7.9	7.9	11	11	1400	775	435
19	1120	901	708	402	6.3	7.9	7.9	11	11	1370	774	260
20	1120	917	688	399	6.3	7.9	7.9	11	11	1340	599	29
21	1130	829	679	74	6.4	7.9	7.9	11	11	1330	448	35
22	1120	757	673	5.5	6.5	7.9	7.9	11	11	1380	457	33
23	1110	783	679	5.5	6.5	7.9	7.9	11	851	1330	466	32
24	1130	855	698	5.5	6.6	7.9	7.9	11	1130	1280	471	30
25	1110	845	693	5.5	6.6	7.9	7.9	11	1250	1230	702	29
26	1090	756	692	5.5	6.7	7.9	7.9	11	1220	1170	949	27
27	1060	706	690	5.5	6.8	7.9	7.9	11	1240	1110	986	25
28	1050	704	684	5.5	6.8	7.9	7.9	11	1280	1030	1010	24
29	940	698	681	5.6	---	7.9	7.9	11	1290	1050	953	22
30	888	702	680	5.6	---	7.9	7.9	11	1270	1070	672	21
31	805	---	682	5.6	---	7.9	---	11	---	1100	609	---
TOTAL	33323	24655	21306	11654.3	172.6	235.7	237.0	4294.5	9773	40270	28656	11369
MEAN	1075	822	687	376	6.16	7.60	7.90	139	326	1299	924	379
MAX	1170	917	755	727	6.8	7.9	7.9	442	1290	1430	1220	961
MIN	805	698	635	5.5	5.7	6.9	7.9	7.9	11	1030	448	21
AC-FT	66100	48900	42260	23120	342	468	470	8520	19380	79880	56840	22550

CAL YR 1980 TOTAL 223794.0 MEAN 611 MAX 1590 MIN 3.0 AC-FT 443900
WTR YR 1981 TOTAL 185946.1 MEAN 509 MAX 1430 MIN 5.5 AC-FT 368800

10068500 BEAR RIVER AT PESCADERO, ID

LOCATION.--Lat 42°24'06", long 111°21'22", in SW¼SW¼SE¼ sec.6, T.12 S., R.44 E., Bear Lake County, Hydrologic Unit 16010202, on left bank at Pescadero, 400 ft (122 m) downstream from road bridge, 2 mi (3.2 km) downstream from Bennington Creek, and 6.5 mi (10.5 km) northwest of Montpelier.

DRAINAGE AREA.--3,705 mi^2 (9,596 km^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 (1,798 m) from topographic map.

REMARKS.--Records good. Flow regulated by Bear Lake (station 10055500) and diversions above station for irrigation.

AVERAGE DISCHARGE.--45 years, 596 ft^3/s (16.9 m^3/s), 431,800 acre-ft/yr (532 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,840 ft^3/s (109 m^3/s) June 10, 1923; minimum daily, 23 ft^3/s (0.65 m^3/s) Mar. 14-17, 1936.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,480 ft^3/s (41.9 m^3/s) July 17, gage height, 5.12 ft (1.561 m); minimum, 50 ft^3/s (1.42 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1250	901	773	781	110	119	131	87	268	1330	1070	554
2	1250	916	778	777	110	119	135	86	240	1330	1060	596
3	1260	910	790	780	100	123	125	85	260	1340	1040	753
4	1260	929	797	785	110	125	119	85	263	1340	1060	851
5	1260	953	796	783	116	123	111	79	248	1330	1070	880
6	1240	969	742	793	122	123	105	210	252	1340	1060	683
7	1200	961	775	792	117	127	96	266	277	1450	1060	587
8	1190	938	797	774	118	111	91	271	271	1450	1070	550
9	1140	950	743	768	124	105	93	266	260	1440	1060	528
10	1060	948	750	768	122	100	91	263	252	1430	1080	498
11	1080	951	750	779	120	91	86	291	248	1420	1120	482
12	1100	953	700	763	100	87	76	424	238	1410	1160	474
13	1120	951	700	743	110	86	73	450	255	1400	1180	462
14	1120	955	700	616	120	86	72	439	274	1390	1140	443
15	1130	966	700	523	130	86	77	443	243	1420	1100	431
16	1160	959	700	494	121	87	73	424	230	1430	1030	424
17	1160	972	750	399	123	90	73	416	219	1460	978	416
18	1190	959	750	388	120	90	78	439	212	1420	806	409
19	1220	977	790	420	111	90	94	235	228	1380	717	406
20	1230	1000	773	466	116	97	109	181	217	1360	712	201
21	1230	961	756	424	110	105	117	192	190	1330	528	89
22	1230	884	753	186	108	102	121	212	199	1340	439	79
23	1220	845	753	116	108	100	111	224	658	1330	431	73
24	1230	917	766	106	109	100	103	205	1030	1290	431	69
25	1230	927	778	103	114	100	99	192	1240	1240	443	68
26	1230	871	788	102	117	102	99	196	1320	1190	683	65
27	1220	793	792	109	117	108	93	226	1330	1130	863	64
28	1200	775	793	105	117	120	90	274	1330	1050	910	68
29	1090	774	786	105	---	123	87	291	1340	996	922	61
30	1030	774	781	106	---	122	87	300	1330	1040	857	52
31	927	---	780	108	---	118	---	288	---	1060	596	---
TOTAL	36457	27539	23580	14962	3220	3265	2915	8040	14922	40866	27676	11316
MEAN	1176	918	761	483	115	105	97.2	259	497	1318	893	377
MAX	1260	1000	797	793	130	127	135	450	1340	1460	1180	880
MIN	927	774	700	102	100	86	72	79	190	996	431	52
AC-FT	72310	54620	46770	29680	6390	6480	5780	15950	29600	81060	54900	22450

CAL YR 1980 TOTAL 299513 MEAN 818 MAX 1830 MIN 70 AC-FT 594100
WTR YR 1981 TOTAL 214758 MEAN 588 MAX 1460 MIN 52 AC-FT 426000

10072800 EIGHTMILE CREEK NEAR SODA SPRINGS, ID

LOCATION.--Lat 42°32'15", long 111°34'20", in SE¼ sec.20, T.10 S., R.42 E., Bear Lake County, Hydrologic Unit 16010202, on right bank just below Wilson Creek, 15 ft (5 m) below roadbridge, 0.3 mi (0.5 km) north of Eightmile Ranger Station, and 8.4 mi (13.5 km) south of Soda Springs.

DRAINAGE AREA.--22.6 mi^2 (58.5 km^2).

PERIOD OF RECORD.--October 1960 to current year.

REVISED RECORDS.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,170 ft (1,881 m) from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--21 years, 16.4 ft^3/s (0.464 m^3/s), 11,880 acre-ft/yr (14.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 209 ft^3/s (5.92 m^3/s) June 14, 1978, gage height, 2.39 ft (0.728 m); minimum, 0.73 ft^3/s (0.021 m^3/s) Nov. 17, 18, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 114 ft^3/s (3.23 m^3/s) June 2, gage height, 2.66 ft (0.81 m); minimum, 2.2 ft^3/s (0.062 m^3/s) Dec. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	5.0	4.4	6.9	5.1	4.7	5.7	22	61	15	5.9	3.2
2	5.8	5.0	4.2	6.9	4.9	4.7	6.3	25	64	15	5.8	3.3
3	5.7	4.7	4.4	6.6	4.4	4.9	6.0	22	68	14	5.4	3.2
4	5.4	5.1	4.2	7.2	4.2	5.1	5.7	22	64	13	5.4	3.2
5	5.3	5.1	4.0	6.6	3.8	5.4	5.4	23	63	13	5.2	3.3
6	5.2	5.1	3.8	4.7	3.4	5.4	5.1	23	61	12	5.1	3.3
7	5.1	4.9	3.2	3.9	4.0	5.7	5.4	22	57	12	5.0	3.2
8	5.1	5.4	3.0	3.7	4.0	5.4	5.4	20	57	12	4.9	3.1
9	5.0	5.1	2.8	3.6	3.8	5.4	5.1	18	57	11	4.9	3.1
10	4.9	5.1	2.7	3.6	3.6	5.4	6.0	17	53	11	4.9	3.0
11	4.8	5.1	3.0	3.8	3.6	5.4	7.2	18	50	11	4.8	2.8
12	5.0	6.0	3.2	3.3	3.4	5.7	7.8	17	50	10	4.9	2.7
13	5.1	6.0	2.8	2.9	3.2	5.1	7.5	15	50	9.9	4.8	2.7
14	5.4	5.4	2.5	3.1	3.6	5.1	7.8	14	45	9.7	4.7	2.7
15	6.0	4.4	2.7	3.6	3.4	5.7	8.5	16	40	9.6	4.3	2.7
16	6.2	4.4	2.8	3.7	3.0	6.0	9.6	14	37	9.0	4.3	2.8
17	6.2	4.4	3.0	3.5	3.2	5.7	10	14	33	9.0	4.4	2.7
18	6.2	4.2	3.4	3.4	3.0	5.4	10	12	31	8.9	4.4	2.7
19	5.9	4.2	3.4	3.2	3.4	5.1	14	12	28	8.6	4.2	2.8
20	5.9	4.2	4.0	3.5	4.0	5.4	14	13	26	8.3	4.2	2.8
21	5.5	4.4	4.2	3.2	3.8	5.4	18	24	24	7.7	3.8	2.9
22	5.2	4.4	4.7	4.1	4.0	5.4	16	57	23	7.6	3.6	2.9
23	5.5	4.4	5.7	3.8	4.2	5.4	14	53	21	7.5	3.4	3.0
24	5.5	4.4	6.6	3.7	4.4	5.4	16	51	20	7.3	3.3	3.0
25	5.3	3.8	7.8	3.6	4.4	5.1	17	51	19	7.2	3.2	3.0
26	5.1	4.0	8.5	3.4	4.7	5.1	19	57	18	6.6	3.1	3.0
27	5.5	4.2	7.8	3.3	4.4	5.4	20	61	17	6.4	3.2	3.0
28	5.2	4.4	6.9	3.4	4.4	5.4	20	60	16	6.2	3.2	2.9
29	5.2	4.2	6.0	3.2	---	5.7	20	60	16	6.2	3.2	2.9
30	4.9	4.4	6.6	3.4	---	5.7	21	62	15	6.1	3.2	2.9
31	5.1	---	6.6	4.6	---	5.7	---	63	---	5.9	3.2	---
TOTAL	168.0	141.4	138.9	127.4	109.3	166.4	333.5	958	1184	296.7	133.9	88.8
MEAN	5.42	4.71	4.48	4.11	3.90	5.37	11.1	30.9	39.5	9.57	4.32	2.96
MAX	6.2	6.0	8.5	7.2	5.1	6.0	21	63	68	15	5.9	3.3
MIN	4.8	3.8	2.5	2.9	3.0	4.7	5.1	12	15	5.9	3.1	2.7
AC-FT	333	280	276	253	217	330	661	1900	2350	589	266	176

CAL YR 1980 TOTAL 6678.1 MEAN 18.2 MAX 94 MIN 2.5 AC-FT 13250
WTR YR 1981 TOTAL 3846.3 MEAN 10.5 MAX 68 MIN 2.5 AC-FT 7630

10075000 BEAR RIVER AT SODA SPRINGS, ID

LOCATION.--Lat 42°36'50", long 111°34'58", in NW¼SW¼NW¼ sec.29, T.9 S., R.42 E., Caribou County, Hydrologic Unit 16010202, on left bank 800 ft (244 m) upstream from Bailey Creek road bridge and 2 mi (3 km) south of Soda Springs.

DRAINAGE AREA.--3,972 mi^2 (10,287 km^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.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,760 ft (1,756 m) 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 (244 m) 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.--28 years, 640 ft^3/s (18.1 m^3/s), 463,700 acre-ft/yr (572 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,380 ft^3/s (181 m^3/s) June 9, 15, 1896, gage height, 8.40 ft (2.560 m), datum then in use; minimum, 41 ft^3/s (1.16 m^3/s) Nov. 16, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,670 ft^3/s (47.3 m^3/s) Dec. 15, gage height, 4.99 ft (1.707 m); minimum, 93 ft^3/s (2.63 m^3/s) Feb. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1250	1010	888	861	153	225	227	188	475	1270	1080	617
2	1260	1010	894	857	170	226	247	189	441	1270	1090	633
3	1290	1010	900	859	201	228	243	192	490	1280	1080	722
4	1300	1010	910	862	211	229	229	187	494	1280	1050	850
5	1300	1040	915	851	211	229	219	185	438	1270	1060	911
6	1290	1050	885	854	233	228	212	201	416	1270	1060	849
7	1260	1050	893	877	212	227	197	372	429	1330	1070	684
8	1250	1030	790	931	235	228	185	405	439	1380	1080	638
9	1220	1020	646	927	225	213	185	394	436	1380	1080	603
10	1160	1030	697	913	147	205	187	387	417	1370	1090	576
11	1150	1030	967	956	187	199	186	418	398	1370	1110	559
12	1180	1040	1120	943	245	193	176	482	387	1360	1150	549
13	1200	1030	1150	900	247	186	164	582	385	1350	1170	537
14	1210	1030	1210	858	206	183	161	570	413	1340	1160	526
15	1210	1030	1320	708	222	180	163	563	410	1360	1130	516
16	1220	1030	1300	622	211	181	165	572	355	1380	1080	505
17	1230	1040	1340	555	236	186	164	575	332	1400	1030	497
18	1230	1050	1290	499	265	186	165	580	321	1400	939	487
19	1250	1050	1210	533	266	187	182	530	314	1360	800	477
20	1280	1070	1220	589	269	197	212	347	330	1340	769	418
21	1280	1080	1060	615	211	207	228	340	302	1310	716	226
22	1280	1020	952	465	224	210	244	435	273	1300	534	136
23	1260	957	930	250	219	202	230	440	438	1310	502	126
24	1270	980	912	214	230	200	214	430	929	1280	499	129
25	1270	1020	927	204	232	198	209	401	1160	1240	493	124
26	1270	999	953	196	240	198	197	427	1270	1220	586	121
27	1270	936	929	202	234	207	203	471	1290	1180	830	118
28	1250	887	901	200	226	227	200	479	1280	1110	927	112
29	1220	886	885	196	---	232	195	497	1280	1050	952	108
30	1140	891	872	198	---	239	192	502	1270	1050	942	103
31	1080	---	866	182	---	228	---	494	---	1080	766	---
TOTAL	38330	30316	30732	18877	6168	6464	5981	12835	17612	39890	28825	13457
MEAN	1236	1011	991	609	220	209	199	414	587	1287	930	449
MAX	1300	1080	1340	956	269	239	247	582	1290	1400	1170	911
MIN	1080	886	646	182	147	180	161	185	273	1050	493	103
AC-FT	76030	60130	60960	37440	12230	12820	11860	25460	34930	79120	57170	26690

CAL YR 1980 TOTAL 347332 MEAN 949 MAX 2220 MIN 77 AC-FT 688900
WTR YR 1981 TOTAL 249487 MEAN 684 MAX 1400 MIN 103 AC-FT 494900

10076400 SODA CREEK AT FIVEMILE MEADOWS, NEAR SODA SPRINGS, ID

LOCATION.--Lat 42°43'45", long 111°36'55", in SE¼NW¼ sec.13, T.8 S., R.41 E., Caribou County, Hydrologic Unit 16010202, on right bank 100 ft (30 m) southeast of Lau ranchhouse, 150 ft (46 m)) downstream from Schmidt ditch, and 5 mi (8.0 km) north of Soda Springs.

DRAINAGE AREA.--51.7 mi^2 (133.9 km^2).

PERIOD OF RECORD.--October 1964 to current year. April 1923 to October 1926 at this site published as "at Lau ranch"; records not equivalent owing to diversion in Schmidt ditch during irrigation season.

REVISED RECORDS.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,980 ft (1,822 m) from topographic map. April 1923 to October 1926 at different datum and Oct. 1, 1964 to Aug. 26, 1965 at site 400 ft (122 m) upstream at different datum.

REMARKS.--Records good except periods of missing record, which are poor. Records herein include flow in Schmidt ditch.

AVERAGE DISCHARGE.--17 years, 15.8 ft^3/s (0.447 m^3/s), 11,500 acre-ft/yr (14.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 121 ft^3/s (3.43 m^3/s) Apr. 14, 1976; maximum gage height, 4.01 ft (1.222 m) Apr. 2, 1965, site and datum then in use; no flow Dec. 24, 1966, Feb. 17, Nov. 11, 12, 1978, Mar. 30, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21 ft^3/s (0.59 m^3/s) May 26, gage height, 1.22 ft (0.372 m); minimum daily, 2.3 ft^3/s (0.065 m^3/s) July 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	12	9.2	7.8	7.0	8.0	14	11	11	4.2	2.6	3.0
2	15	12	8.9	7.8	6.5	8.0	16	11	12	4.2	2.6	2.9
3	15	12	10	7.8	6.5	8.5	16	11	14	4.1	2.9	3.0
4	15	12	10	7.8	6.5	9.0	15	11	12	4.0	2.9	3.0
5	15	12	11	7.8	6.5	9.5	14	10	11	4.0	2.9	3.0
6	14	12	10	7.6	7.0	9.5	14	11	10	4.0	2.9	3.0
7	14	12	9.9	7.8	7.5	10	13	11	11	4.0	2.9	3.0
8	14	12	9.5	7.8	7.0	9.5	13	11	9.0	3.5	2.4	2.7
9	14	12	7.7	7.6	6.5	9.5	13	11	9.5	3.5	2.4	2.7
10	14	12	8.5	7.6	6.5	9.5	13	10	8.5	3.5	2.4	2.7
11	14	12	8.7	7.3	6.0	9.5	13	12	8.0	3.5	2.4	2.7
12	14	12	8.7	7.3	6.5	9.5	12	13	7.0	3.1	2.7	2.7
13	14	12	8.4	7.3	6.5	10	12	12	8.0	3.1	2.7	2.7
14	15	12	8.1	7.0	6.5	9.5	12	12	7.5	3.1	2.7	2.7
15	15	12	7.6	7.0	6.5	10	12	12	7.5	3.1	2.7	2.7
16	15	11	7.3	4.4	6.5	11	12	13	7.0	2.6	2.7	2.7
17	15	11	7.3	4.9	7.0	10	11	14	7.0	2.6	2.4	2.7
18	14	9.9	7.3	6.0	7.0	10	11	13	6.5	3.1	2.4	2.7
19	14	9.2	7.3	7.0	7.0	10	12	12	6.0	3.1	2.4	2.7
20	14	9.5	7.0	7.0	7.5	11	12	12	6.0	2.6	2.7	2.4
21	14	9.2	6.8	8.0	7.0	11	15	13	5.5	2.6	3.0	2.4
22	14	9.5	7.0	8.0	7.0	10	14	16	5.0	2.6	3.0	2.4
23	13	9.2	6.8	8.0	7.5	10	13	15	5.0	2.6	3.0	2.4
24	13	9.2	6.5	8.0	8.0	11	13	14	5.0	2.6	3.0	2.4
25	13	8.9	7.0	8.0	8.0	11	13	14	4.8	2.6	3.0	2.4
26	13	8.7	8.4	8.0	8.5	12	12	18	4.6	2.6	2.7	2.7
27	13	8.7	8.4	7.8	8.0	13	12	18	4.6	2.6	2.7	2.4
28	12	8.7	8.1	7.5	8.0	14	11	14	4.4	2.6	2.7	2.4
29	12	8.7	7.8	7.0	---	14	11	12	4.1	2.3	2.7	2.7
30	12	9.2	7.8	8.0	---	14	11	12	3.9	2.4	3.0	2.7
31	12	---	7.8	7.5	---	14	---	12	---	2.6	3.0	---
TOTAL	430	320.6	254.8	228.4	196.5	325.5	385	391	225.4	97.0	84.5	80.6
MEAN	13.9	10.7	8.22	7.37	7.02	10.5	12.8	12.6	7.51	3.13	2.73	2.69
MAX	15	12	11	8.0	8.5	14	16	18	14	4.2	3.0	3.0
MIN	12	8.7	6.5	4.4	6.0	8.0	11	10	3.9	2.3	2.4	2.4
AC-FT	853	636	505	453	390	646	764	776	447	192	168	160

CAL YR 1980 TOTAL 4588.36 MEAN 12.5 MAX 93 MIN .50 AC-FT 9100
WTR YR 1981 TOTAL 3019.30 MEAN 8.27 MAX 18 MIN 2.3 AC-FT 5990

NOTE.--No gage-height record Jan. 18 to Mar. 23, May 31 to June 24, July 4-28, July 31 to Sept. 1, and Sept. 3-30.

10079500 BEAR RIVER AT ALEXANDER, ID

LOCATION.--Lat 42°38'42", long 111°41'51", in NE¼SW¼NW¼ sec.17, T.9 S., R.41 E., Caribou County, Hydrologic Unit 16010202, on right bank 600 ft (183 m) downstream from Soda hydroelectric plant of Utah Power & Light Co., 0.5 mi (0.8 km) southeast of Alexander, and 5 mi (8 km) downstream from Soda Creek.

DRAINAGE AREA.--4,099 mi^2 (10,616 km^2).

PERIOD OF RECORD.--March 1911 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,650 ft (1,722 m) 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.--70 years, 771 ft^3/s (21.8 m^3/s), 558,600 acre-ft/yr (689 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,740 ft^3/s (139 m^3/s) Mar. 31, 1911; maximum gage height, 15.95 ft (4.862 m) Dec. 11, 1919 (backwater from ice); minimum discharge, 15 ft^3/s (0.42 m^3/s) Aug. 24, 1979, when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,630 ft^3/s (46.2 m^3/s) July 29, gage height, 3.29 ft (1.003 m); minimum, 34 ft^3/s (0.96 m^3/s) Sept. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1220	1100	1020	1080	145	135	512	283	529	1280	879	836
2	1220	1080	1020	1070	573	540	422	208	512	1280	1060	563
3	1230	1080	1000	1080	239	559	444	176	588	1250	1130	781
4	1230	1070	985	1090	380	379	143	468	612	1260	1080	846
5	1230	1080	974	998	315	484	164	422	517	1270	1040	837
6	1230	1100	982	934	523	463	421	261	502	1280	1270	794
7	1220	1110	970	927	183	124	443	457	522	1290	1140	764
8	1220	1110	967	924	143	166	520	402	673	1310	1080	728
9	1220	1120	975	926	604	456	474	386	433	1330	1090	695
10	1220	1120	972	924	632	521	435	260	527	1330	1200	636
11	1230	1120	976	919	276	336	158	461	503	1340	1150	659
12	1230	1130	977	955	273	505	160	555	481	1360	1190	650
13	1240	1130	971	954	519	505	497	763	514	1350	1210	369
14	1230	1130	967	960	137	147	497	620	373	1370	1230	702
15	1220	1130	765	812	180	129	309	704	517	1390	1230	512
16	1230	1130	953	680	181	594	409	766	509	1350	1230	665
17	1230	1130	764	577	511	115	367	694	449	1400	1230	551
18	1230	1140	948	676	472	179	157	563	452	1350	1240	432
19	1230	1140	952	686	522	517	165	345	432	1350	1240	197
20	1230	1140	958	680	630	452	502	687	455	1360	1230	232
21	1230	1140	956	707	135	156	275	404	447	1370	1230	215
22	1280	1140	952	486	176	155	356	457	663	1370	1230	193
23	1360	1140	898	368	580	191	289	453	1090	1370	1210	193
24	1360	1130	945	355	411	481	364	640	1130	1080	1200	259
25	1370	1020	951	340	470	440	164	544	1230	940	1180	308
26	1370	1040	984	507	621	482	226	687	1270	1120	1160	307
27	1370	1030	1070	486	557	500	358	654	1220	1290	1170	283
28	1370	1030	1110	314	166	154	353	770	1200	1280	1110	201
29	1370	1020	1110	560	---	149	304	280	1240	1230	1110	203
30	1380	1010	1080	597	---	537	233	751	1260	1040	1110	277
31	1240	---	1080	183	---	535	---	548	---	881	1090	---
TOTAL	39240	32990	30232	22755	10554	11086	10121	15669	20850	39471	35949	14888
MEAN	1266	1100	975	734	377	358	337	505	695	1273	1160	496
MAX	1380	1140	1110	1090	632	594	520	770	1270	1400	1270	846
MIN	1220	1010	764	183	135	115	143	176	373	881	879	193
AC-FT	77830	65440	59970	45130	20930	21990	20070	31080	41360	78290	71300	29530

CAL YR 1980 TOTAL 391324 MEAN 1069 MAX 2280 MIN 23 AC-FT 776200
WTR YR 1981 TOTAL 283805 MEAN 778 MAX 1400 MIN 115 AC-FT 562900

10084500 COTTONWOOD CREEK NEAR CLEVELAND, ID

LOCATION.--Lat 42°19'57", long 111°46'27", in SW¼ sec.34, T.12 S., R.40 E., Franklin County, Hydrologic Unit 16010202, on right bank 500 ft (152 m) upstream from Cleveland irrigation canal, 2.5 mi (4.0 km) west of Cleveland, and 4 mi (6 km) downstream from proposed Cottonwood Dam.

DRAINAGE AREA.--61.7 mi^2 (159.8 km^2).

PERIOD OF RECORD.--November 1938 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,150 ft (1,570 m) 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 (16.3 km) above station for irrigation in Battle Creek basin in vicinity of Treasureton.

AVERAGE DISCHARGE.--42 years, 31.1 ft^3/s (0.881 m^3/s), 22,500 acre-ft/yr (27.7 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 788 ft^3/s (22.3 m^3/s) May 16, 1975, gage height, 4.01 ft (1.222 m); minimum, no flow Feb. 19, 20, 21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 200 ft^3/s (5.66 m^3/s), 322 ft^3/s (9.12 m^3/s) May 22, gage height, 3.09 ft (0.942 m); minimum discharge, 2.1 ft^3/s (0.059 m^3/s) Aug. 25, 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	10	9.5	15	10	13	21	31	62	7.6	4.0	2.5
2	9.6	10	9.5	14	9.6	13	23	29	57	9.6	4.0	2.5
3	8.8	10	9.5	13	9.2	14	22	25	77	9.2	3.8	2.5
4	8.3	10	9.5	14	9.2	15	20	20	54	8.4	3.8	2.5
5	8.0	10	10	13	9.2	16	20	15	44	8.8	3.8	2.7
6	7.7	10	9.0	13	10	16	21	14	38	9.2	3.6	2.7
7	7.7	10	8.0	10	11	17	20	15	36	8.8	3.6	2.7
8	7.7	10	7.0	9.2	10	16	20	16	33	8.4	3.4	2.5
9	8.0	10	6.7	9.2	10	16	21	12	33	8.8	3.6	2.7
10	7.9	10	6.3	9.6	10	16	25	11	30	9.6	3.4	2.5
11	8.0	10	5.9	8.4	9.0	16	34	12	27	8.0	3.4	2.5
12	8.1	12	5.9	7.0	10	16	36	12	22	7.0	3.2	2.5
13	9.8	12	6.2	6.6	10	17	36	11	26	6.2	3.2	2.5
14	9.6	10	6.5	6.6	10	16	35	10	23	6.6	3.2	2.5
15	13	9.0	7.0	7.0	10	17	41	14	23	6.2	3.2	2.5
16	12	8.5	7.5	7.0	10	18	46	16	20	5.9	2.9	2.5
17	11	8.5	8.6	7.3	11	16	44	16	18	6.2	2.7	2.5
18	11	8.5	9.9	9.2	11	16	45	16	16	6.6	2.7	2.5
19	11	8.5	11	10	11	16	85	13	15	6.2	2.7	2.5
20	11	8.5	11	10	12	18	85	15	15	5.9	2.7	2.5
21	10	8.5	11	11	11	18	93	76	14	5.6	2.7	2.5
22	10	9.0	12	11	11	16	78	266	13	5.2	2.5	2.5
23	10	9.0	13	11	12	17	69	164	12	5.2	2.5	2.7
24	10	9.0	13	12	13	18	74	134	12	4.8	2.5	2.5
25	10	8.5	14	11	13	18	68	132	11	4.8	2.5	2.7
26	10	8.0	18	11	14	18	62	187	10	4.8	2.5	2.7
27	10	8.0	17	11	13	19	57	158	9.5	4.8	2.5	2.7
28	10	8.5	16	11	13	20	47	126	9.0	4.5	2.5	2.7
29	10	9.0	15	10	---	23	41	106	8.0	4.3	2.5	2.7
30	10	9.0	14	10	---	23	34	88	7.3	4.3	2.5	2.7
31	10	---	15	10	---	21	---	71	---	4.0	2.5	---
TOTAL	297.9	282.0	322.5	318.1	302.2	529	1323	1831	774.8	205.5	94.6	77.2
MEAN	9.61	9.40	10.4	10.3	10.8	17.1	44.1	59.1	25.8	6.63	3.05	2.57
MAX	13	12	18	15	14	23	93	266	77	9.6	4.0	2.7
MIN	7.7	8.0	5.9	6.6	9.0	13	20	10	7.3	4.0	2.5	2.5
AC-FT	591	559	640	631	599	1050	2620	3630	1540	408	188	153

CAL YR 1980 TOTAL 14838.8 MEAN 40.5 MAX 402 MIN 5.9 AC-FT 29430
WTR YR 1981 TOTAL 6357.8 MEAN 17.4 MAX 266 MIN 2.5 AC-FT 12610

10086500 BEAR RIVER BELOW UTAH POWER & LIGHT CO.'S TAILRACE, AT ONEIDA, ID

LOCATION.--Lat 42°16'00", long 111°45'04", in NE¼SE¼NW¼ sec.26, T.12 S., R.40 E., Franklin County, Hydrologic Unit 16010202, on right bank 200 ft (61 m) downstream from tailrace of Oneida plant and 6 mi (10 km) south of Cleveland.

DRAINAGE AREA.--4,456 mi^2 (11,541 km^2).

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only October 1921 to September 1945, published in WSP 1314.

REVISED RECORDS.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,800 ft (1,460 m) 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.--60 years, 828 ft^3/s (23.45 m^3/s), 599,900 acre-ft/yr (740 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,480 ft^3/s (155 m^3/s) May 8, 1922; minimum, 3.0 ft^3/s (0.085 m^3/s) June 13, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,910 ft^3/s (82.4 m^3/s) July 31, gage height, 6.55 ft (1.996 m); minimum, 18 ft^3/s (0.51 m^3/s) Aug. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1750	1990	1150	1350	571	72	498	460	1080	1070	801	525
2	1310	909	1010	1400	216	156	788	64	705	1010	834	625
3	1280	1140	1320	1260	290	654	264	43	925	1020	972	536
4	1880	1690	1180	1230	296	450	647	350	366	978	1120	761
5	1090	1410	821	1230	663	1010	316	322	943	1140	1050	426
6	1530	600	1300	1020	265	293	360	247	550	1130	989	638
7	405	1370	820	1180	821	1010	327	96	530	1290	1170	535
8	1800	1280	887	1350	605	89	336	575	528	1160	946	585
9	908	1050	1380	736	719	345	469	224	660	781	1010	571
10	1650	1380	1080	1440	564	595	802	344	320	1340	1020	609
11	1280	1180	1140	1220	239	363	103	391	799	1010	1170	351
12	1340	1470	859	595	259	243	406	718	120	1060	1100	851
13	1660	1440	1080	1360	456	1090	328	958	379	1220	1240	568
14	1320	1720	1170	1160	105	420	804	1110	449	1170	1230	600
15	1380	1190	887	1270	268	276	908	659	512	1020	1140	353
16	1340	1180	1310	1060	490	183	903	668	257	1040	987	449
17	1330	1600	1110	622	315	215	522	270	343	851	1200	291
18	1830	1730	714	907	131	180	263	227	303	974	1160	759
19	1460	1340	1020	577	507	944	113	970	235	819	1660	173
20	1940	1190	1240	963	1100	230	610	162	174	407	496	177
21	1830	1520	1030	698	94	340	328	816	140	562	1050	186
22	1080	1150	1320	875	334	225	120	488	710	220	981	183
23	1680	982	1030	741	883	104	404	970	840	1020	1130	182
24	652	1340	1200	392	396	308	136	650	1210	987	1150	486
25	1640	1280	904	225	789	408	944	925	1150	800	1370	494
26	1870	1110	1260	273	350	525	161	891	1500	724	751	484
27	2020	1040	1160	549	1240	1090	570	1410	1240	704	804	171
28	979	1290	1390	477	157	384	285	891	1040	1160	901	210
29	1320	994	1480	862	---	148	304	875	670	1110	1050	353
30	2070	1280	1090	504	---	457	628	385	927	860	760	531
31	1080	---	1260	576	---	812	---	724	---	994	1190	---
TOTAL	44704	38845	34602	28102	13123	13619	13647	17883	19605	29631	32432	13663
MEAN	1442	1295	1116	907	469	439	455	577	654	956	1046	455
MAX	2070	1990	1480	1440	1240	1090	944	1410	1500	1340	1660	851
MIN	405	600	714	225	94	72	103	43	120	220	496	171
AC-FT	88670	77050	68630	55740	26030	27010	27070	35470	38890	58770	64330	27100

CAL YR 1980 TOTAL 435496 MEAN 1190 MAX 3040 MIN 39 AC-FT 863800
WTR YR 1981 TOTAL 299856 MEAN 822 MAX 2070 MIN 43 AC-FT 594800

10090500 BEAR RIVER NEAR PRESTON, ID

LOCATION.--Lat 42°10'05", long 111°50'59", in NW¼ sec.36, T.14 S., R.39 E., Franklin County, Hydrologic Unit 16010202, on left bank 600 ft (183 m) downstream from headgates of West Cache Canal, 5 mi (8 km) downstream from Mink Creek, 5 mi (8 km) north of Preston, and 5.5 mi (8 km) upstream from Battle Creek.

DRAINAGE AREA.--4,545 mi^2 (11,772 km^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. WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,524.8 ft (1,379.16 m) NGVD of 1929, unadjusted. October 1889 to September 1917, nonrecording gages at several sites within 5 mi (8 km) downstream at different datums.

REMARKS.--Records good. Station is below all irrigation diversions from Bear River in Idaho except Cub River pumps in SE¼ 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.--38 years (water years 1944-81), 864 ft^3/s (24.5 m^3/s), 626,000 acre-ft/yr (772 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD (since 1943).--Maximum discharge, 4,420 ft^3/s (125 m^3/s) Apr. 17, 1950, gage height, 5.61 ft (1.710 m); no flow Sept. 10-11, 1980.

1889-1917: Maximum flood occurred June 9, 10, 1907 about 8,500 ft^3/s (241 m^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 (2.755 m) Jan. 17, 18, 1917 (backwater from ice), site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,970 ft^3/s (84.1 m^3/s) May 26, gage height, 4.51 ft (1.375 m); minimum, 1.0 ft^3/s (0.028 m^3/s) Aug. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1740	1700	1250	1140	705	166	562	514	1380	878	668	994
2	1560	1330	1110	1490	230	574	691	149	1010	811	582	503
3	1360	1200	1110	1670	416	560	241	79	1230	885	930	406
4	2010	1630	1510	1080	376	600	697	207	691	838	909	671
5	1320	1500	1160	1390	698	700	195	146	1160	866	884	346
6	1520	777	1180	1160	334	500	446	117	829	1010	718	465
7	531	1120	1290	1270	900	650	180	57	754	1120	1100	460
8	1650	1370	1130	1340	639	400	388	202	738	966	769	466
9	1100	1390	1090	586	780	400	543	25	942	600	901	400
10	1840	1010	1180	1590	590	450	520	205	341	961	848	535
11	1180	1320	1400	1260	340	400	363	75	1060	1110	1010	327
12	1600	1260	1050	1010	318	600	353	264	213	904	1020	735
13	1630	1610	1060	1220	526	800	272	233	448	954	1070	331
14	1420	1230	1200	1930	142	400	750	253	504	994	1060	561
15	1430	1470	784	1920	315	380	1020	99	503	847	940	191
16	1290	1180	1210	1240	568	350	834	136	358	785	737	202
17	1450	1250	1670	755	345	320	628	69	384	694	1090	422
18	2060	1340	791	917	514	450	289	47	374	819	969	612
19	1340	1260	1160	144	319	600	99	156	114	729	1310	135
20	2250	1390	1060	194	971	250	592	57	193	280	625	81
21	1560	1040	1280	697	88	450	324	198	36	392	933	78
22	1120	1420	1150	977	604	250	94	430	547	84	861	91
23	1920	1410	1120	827	585	250	398	562	775	712	1000	72
24	491	1300	1370	431	453	320	239	549	944	852	834	397
25	1890	1370	886	268	707	378	879	737	1050	669	1190	374
26	1570	1320	1380	303	1110	604	241	1080	1290	595	603	390
27	2020	909	1490	599	399	963	549	1650	1140	598	565	150
28	1360	1360	1240	485	102	425	430	1310	877	967	946	81
29	1190	1290	1380	905	---	222	343	1210	469	968	924	133
30	1900	1040	1360	549	---	409	622	764	848	730	561	641
31	1410	---	1140	716	---	805	---	1040	---	752	578	---
TOTAL	46712	38796	37191	30063	14074	14626	13782	12620	21202	24370	27135	11250
MEAN	1507	1293	1200	970	503	472	459	407	707	786	875	375
MAX	2250	1700	1670	1930	1110	963	1020	1650	1380	1120	1310	994
MIN	491	777	784	144	88	166	94	25	36	84	561	72
AC-FT	92650	76950	73770	59630	27920	29010	27340	25030	42050	48340	53820	22310

CAL YR 1980 TOTAL 458687.7 MEAN 1253 MAX 3620 MIN 1.7 AC-FT 909800
WTR YR 1981 TOTAL 291821.0 MEAN 800 MAX 2250 MIN 25 AC-FT 578800

10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE

LOCATION.--Lat 42°00'47", long 111°55'14", in NW¼NE¼ sec.29, T.16 S., R.39 E., Franklin County, Idaho, Hydrologic Unit 16010202, on left bank 1,050 ft (320 m) downstream from inlet canal to Cub River pumps, 1.1 mi (1.8 km) downstream from Weston Creek, 1.8 mi (2.9 km) upstream from State line, and 3.5 mi (5.6 km) southeast of Weston.

DRAINAGE AREA.--4,881 mi^2 (12,642 km^2).

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

REVISED RECORDS.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,420 ft (1,347 m) from topographic map.

REMARKS.--Records fair. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--11 years, 1,175 ft^3/s (33.3 m^3/s), 851,300 acre-ft/yr (1.05 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,190 ft^3/s (119 m^3/s) June 12, 1971, gage height, 8.25 ft (2.515 m); minimum observed, 73 ft^3/s (2.07 m^3/s) June 29, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,730 ft^3/s (77.3 m^3/s) Oct. 20, gage height, 5.48 ft (1.670 m); minimum daily, 231 ft^3/s (6.54 m^3/s) June 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1480	1250	1320	1240	990	376	910	552	1310	753	501	1020
2	1830	1860	1210	1470	343	346	512	346	952	812	643	532
3	906	1100	1100	1660	359	336	645	285	1090	941	663	541
4	1660	1360	1540	1170	1110	894	655	359	935	756	850	582
5	1620	1660	1310	1440	1420	719	448	313	952	750	890	422
6	1300	1410	1060	1380	1260	897	557	283	785	972	680	498
7	1290	782	1500	1100	1000	594	537	269	925	863	898	467
8	1030	1600	1060	1290	854	788	538	443	603	1020	607	474
9	1880	1220	1080	1210	818	493	459	326	1050	955	840	433
10	1300	1110	1420	1170	630	492	567	254	541	561	905	389
11	1300	1360	1240	1250	614	583	885	365	848	842	798	580
12	1740	1460	1140	1370	453	473	395	602	459	886	1020	476
13	1490	1410	1120	926	519	677	398	659	451	1090	924	593
14	1490	1280	1180	1350	523	943	436	1070	545	811	783	487
15	1480	1540	1230	1250	428	448	1100	798	525	964	990	505
16	1630	1150	1030	1350	467	401	992	628	430	904	718	312
17	1580	1230	1490	1010	576	381	651	472	332	720	858	430
18	2240	1350	1110	806	456	364	565	377	449	381	900	304
19	974	1440	986	754	618	643	329	568	291	929	1180	642
20	2610	1240	1090	1180	523	775	487	564	231	534	1270	294
21	1270	1270	1310	682	1020	329	565	568	255	481	578	293
22	1590	1510	1150	1130	336	555	305	716	384	299	742	291
23	1860	1440	1380	810	858	318	382	1250	755	343	1040	281
24	926	1130	1180	950	722	317	342	1010	619	932	621	315
25	1670	1350	1080	397	565	356	428	1340	958	676	1240	406
26	1240	1330	1280	460	942	698	775	1410	1010	483	716	444
27	2470	1200	1500	658	878	771	475	1600	1270	853	622	423
28	1890	1150	1270	484	898	930	447	1660	905	526	806	281
29	662	1350	1420	630	---	407	490	1260	675	1030	983	286
30	1710	1090	1390	1020	---	434	635	960	632	727	665	500
31	2030	---	1190	686	---	711	---	1140	---	807	518	---
TOTAL	48148	39632	38366	32283	20180	17449	16910	22447	21167	23601	25449	13501
MEAN	1553	1321	1238	1041	721	563	564	724	706	761	821	450
MAX	2610	1860	1540	1660	1420	943	1100	1660	1310	1090	1270	1020
MIN	662	782	986	397	336	317	305	254	231	299	501	281
AC-FT	95500	78610	76100	64030	40030	34610	33540	44520	41980	46810	50480	26780

CAL YR 1980 TOTAL 496633 MEAN 1357 MAX 3920 MIN 120 AC-FT 985100
WTR YR 1981 TOTAL 319133 MEAN 874 MAX 2610 MIN 231 AC-FT 633000

10093000 CUB RIVER NEAR PRESTON, ID

LOCATION.--Lat 42°08'28", long 111°41'19', in SW¼ sec.5, T.15 S., R.41 E., Franklin County, Hydrologic Unit 16010202, Cache National Forest, on right bank 0.2 mi (0.3 km) upstream from headgates of Cub River-Worm Creek Canal, 0.7 mi (1.1 km) upstream from forest boundary, and 10 mi (16 km) east of Preston.

DRAINAGE AREA.--31.6 mi^2 (81.8 km^2).

PERIOD OF RECORD.--March 1940 to September 1952, October 1955 to current year.

REVISED RECORDS.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,285.1 ft (1,610.90 m) NGVD of 1929, unadjusted.

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

AVERAGE DISCHARGE.--38 years, 83.3 ft^3/s (2.36 m^3/s), 60,350 acre-ft/yr (74.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 803 ft^3/s (22.7 m^3/s) June 11, 1971; maximum gage height, 3.83 ft (1.167 m) June 2, 1943; no flow for part of Jan. 29, 1965, result of snowslide.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 520 ft^3/s (14.7 m^3/s) May 27, gage height, 2.32 ft (0.707 m); minimum daily, 13 ft^3/s (0.368 m^3/s) Feb. 3, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	25	21	19	16	18	25	202	421	80	44	34
2	30	25	22	19	16	18	25	247	407	78	44	33
3	30	25	21	19	13	18	25	236	438	76	43	33
4	29	25	22	19	14	18	24	193	408	73	43	33
5	29	25	22	19	15	18	23	185	366	71	42	33
6	28	25	21	18	16	18	23	169	347	70	41	33
7	28	25	21	18	16	18	22	149	328	68	41	32
8	28	25	16	18	16	18	22	128	298	66	40	32
9	28	25	16	18	16	18	22	106	290	64	40	32
10	28	24	18	17	16	18	23	101	269	63	40	32
11	27	24	20	17	13	18	26	110	235	61	40	31
12	28	26	20	17	15	18	28	101	217	60	39	31
13	28	25	21	17	15	18	28	92	203	59	39	31
14	28	24	21	15	15	18	29	93	189	57	39	30
15	30	24	21	17	15	18	32	118	168	56	39	30
16	30	23	21	18	15	19	35	120	150	56	38	30
17	29	23	21	18	16	19	40	120	141	55	38	30
18	28	23	22	18	16	18	48	120	134	54	38	29
19	28	23	21	18	16	18	65	130	129	53	37	29
20	28	22	21	18	17	20	70	150	127	52	37	28
21	31	22	21	18	16	21	75	300	123	51	37	28
22	27	23	21	18	16	21	70	480	117	50	36	28
23	26	22	21	18	16	23	66	400	111	50	36	28
24	25	22	20	19	16	23	67	309	105	49	36	28
25	25	21	21	18	17	24	84	316	99	48	36	29
26	25	21	20	18	18	24	125	483	95	48	35	28
27	25	21	20	19	18	26	139	499	93	47	35	27
28	24	21	19	19	18	26	126	461	89	46	34	27
29	25	21	19	19	---	27	127	430	85	46	34	27
30	26	21	19	19	---	28	155	404	82	45	34	27
31	26	---	19	18	---	26	---	419	---	45	34	---
TOTAL	857	701	629	560	442	633	1669	7371	6264	1797	1189	903
MEAN	27.6	23.4	20.3	18.1	15.8	20.4	55.6	238	209	58.0	38.4	30.1
MAX	31	26	22	19	18	28	155	499	438	80	44	34
MIN	24	21	16	15	13	18	22	92	82	45	34	27
AC-FT	1700	1390	1250	1110	877	1260	3310	14620	12420	3560	2360	1790

CAL YR 1980 TOTAL 35711 MEAN 97.6 MAX 602 MIN 15 AC-FT 70830
WTR YR 1981 TOTAL 23015 MEAN 63.1 MAX 499 MIN 13 AC-FT 45650

10099000 HIGH CREEK NEAR RICHMOND, UTAH

LOCATION.--Lat 41°58'40", long 111°44'40", in SW¼SE¼ sec.5, T.14 N., R.2 E., Cache County, Cache National Forest, Hydrologic Unit 16010202, on right bank near forest boundary, 2 mi (3.2 km) downstream from North Fork, and 5 mi (8.0 km) northeast of Richmond.

DRAINAGE AREA.--16.2 mi^2 (42.0 km^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 (1,600 m) from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--10 years (1946-52, 1972, 1979-81), 32.3 ft^3/s (0.915 m^3/s), 23,400 acre-ft/yr (28.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 355 ft^3/s (10.1 m^3/s) May 16, 1971, gage height, 2.80 ft (0.853 m); maximum gage height, 3.67 ft (1.119 m) Feb. 1-15, 1972, backwater from ice; minimum observed, 2.6 ft^3/s (0.074 m^3/s) Jan. 5, 1950, result of ice jam upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 100 ft^3/s (2.83 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 22	0600	303	8.58	2.60	0.792
May 26	2200	*317	8.98	2.64	.805

Minimum observed, 2.8 ft^3/s (0.079 m^3/s) Dec. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	11	9.0	8.5	7.1	11	17	79	170	34	17	12
2	13	11	9.0	8.5	6.0	11	16	86	148	33	17	12
3	12	11	9.0	8.5	5.0	11	16	77	162	32	16	12
4	12	11	9.0	8.3	5.5	11	15	66	149	31	16	12
5	12	11	9.0	8.2	6.0	11	14	63	140	30	16	11
6	12	11	9.0	8.1	6.5	11	13	60	135	29	16	11
7	12	11	7.0	7.9	6.9	11	13	54	131	28	16	11
8	12	11	6.0	7.5	6.8	11	13	50	123	28	16	11
9	12	11	6.0	7.0	7.0	10	13	46	118	27	16	11
10	12	11	6.0	7.0	7.1	10	14	44	108	27	15	11
11	12	11	6.5	7.0	5.0	10	19	47	95	27	15	11
12	13	11	7.5	7.0	6.5	10	23	44	90	26	16	11
13	12	11	8.3	7.0	7.0	10	25	42	87	26	16	11
14	12	11	8.2	6.0	7.0	10	27	42	76	25	15	11
15	12	10	8.2	6.5	7.0	10	30	46	67	26	15	11
16	12	9.5	8.2	7.0	7.0	11	33	46	62	24	15	11
17	12	9.0	8.2	7.0	7.4	11	38	47	59	23	14	11
18	12	9.0	8.2	7.3	7.6	11	43	48	56	22	14	11
19	12	9.0	8.2	7.3	7.8	11	58	52	54	22	14	11
20	12	9.0	8.2	7.3	8.7	11	52	56	53	22	14	11
21	12	9.0	8.2	7.0	8.8	12	49	89	52	21	14	11
22	11	9.5	8.2	7.0	8.8	12	49	259	51	21	14	11
23	11	9.5	8.2	7.0	8.8	12	47	199	49	20	14	11
24	11	9.0	8.2	7.0	9.1	14	53	137	48	20	14	11
25	11	8.5	8.3	7.0	9.8	16	63	136	46	19	13	12
26	11	8.5	8.8	7.0	11	16	67	212	44	19	13	12
27	11	8.5	8.8	6.9	11	16	55	280	42	19	13	11
28	11	8.5	8.7	6.7	11	16	55	220	40	18	13	11
29	11	8.5	8.5	7.0	---	17	59	183	38	17	12	10
30	11	9.0	8.5	7.0	---	19	68	170	36	17	12	10
31	11	---	8.5	7.3	---	19	---	176	---	17	12	---
TOTAL	365	298.0	251.6	225.8	213.2	382	1057	3156	2529	750	453	334
MEAN	11.8	9.93	8.12	7.28	7.61	12.3	35.2	102	84.3	24.2	14.6	11.1
MAX	13	11	9.0	8.5	11	19	68	280	170	34	17	12
MIN	11	8.5	6.0	6.0	5.0	10	13	42	36	17	12	10
AC-FT	724	591	499	448	423	758	2100	6260	5020	1490	899	662

CAL YR 1980 TOTAL 13547.5 MEAN 37.0 MAX 207 MIN 4.9 AC-FT 26870
WTR YR 1981 TOTAL 10014.6 MEAN 27.4 MAX 280 MIN 5.0 AC-FT 19860

10104700 LITTLE BEAR RIVER BELOW DAVENPORT CREEK, NEAR AVON, UTAH

LOCATION.--Lat 41°30'45", long 111°48'40", in SW¼SW¼ sec.14, T.9 N., R.1 E., Cache County, Hydrologic Unit 16010203, on right bank 0.65 mi (1.0 km) downstream from Davenport Creek and 1.5 mi (2.4 km) south of Avon.

DRAINAGE AREA.--61.6 mi^2 (159.5 km^2).

PERIOD OF RECORD.--October 1960 to current year. Published as "10105700 South Fork Little Bear River near Avon," 1960-62.

REVISED RECORDS.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,020 ft (1,530 m) from topographic map.

REMARKS.--Records good. A few small diversions for irrigation above station.

AVERAGE DISCHARGE.--21 years, 55.0 ft^3/s (1.56 m^3/s), 39,850 acre-ft/yr (49.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,200 ft^3/s (34.0 m^3/s) Jan. 14, 1980, gage height, 3.97 ft (1.210 m); minimum, 6.3 ft^3/s (0.18 m^3/s) Feb. 3, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 353 ft3/s (10.0 m^3/s) May 21, gage height, 1.85 ft (0.564 m); minimum, 9.1 ft^3/s (0.258 m^3/s) Sept. 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	28	29	28	25	30	58	80	74	25	18	17
2	29	28	29	28	23	30	63	86	73	25	16	17
3	29	28	32	27	23	30	51	84	75	25	17	15
4	29	28	36	28	23	30	41	71	63	24	16	10
5	28	28	35	27	23	29	38	65	58	24	15	13
6	29	28	31	26	26	29	40	63	54	24	14	16
7	28	28	29	25	26	29	38	61	51	23	14	16
8	28	29	25	24	25	29	37	58	48	23	16	16
9	28	28	25	25	26	29	41	52	46	22	18	17
10	28	29	26	25	24	29	47	50	44	20	18	18
11	28	29	28	25	23	29	57	62	42	20	18	18
12	28	34	29	25	27	29	50	54	40	20	18	17
13	29	31	28	24	26	30	47	51	43	20	18	17
14	30	30	28	23	26	30	46	50	40	20	18	16
15	33	27	28	24	26	32	48	60	39	20	18	16
16	31	27	28	24	27	33	49	58	37	20	18	16
17	31	27	28	27	31	33	54	63	36	20	17	16
18	31	28	28	26	29	31	58	57	34	20	17	16
19	30	28	28	26	32	34	75	55	33	19	16	16
20	30	28	28	25	33	46	70	64	32	19	17	16
21	29	28	28	25	28	48	68	158	31	18	16	16
22	28	28	31	25	27	42	61	151	30	17	14	16
23	28	28	30	25	28	38	57	114	30	18	16	16
24	28	29	28	26	30	37	63	105	29	17	16	17
25	28	27	33	25	29	37	76	103	28	18	16	18
26	30	28	35	25	42	41	84	143	27	18	16	18
27	29	28	33	25	36	46	82	118	26	19	16	17
28	28	28	31	26	32	61	74	108	26	18	16	17
29	28	28	29	26	---	63	72	98	25	18	16	17
30	28	29	28	27	---	67	76	89	25	16	16	17
31	28	---	28	26	---	58	---	84	---	17	16	---
TOTAL	898	852	912	793	776	1159	1721	2515	1239	627	511	488
MEAN	29.0	28.4	29.4	25.6	27.7	37.4	57.4	81.1	41.3	20.2	16.5	16.3
MAX	33	34	36	28	42	67	84	158	75	25	18	18
MIN	28	27	25	23	23	29	37	50	25	16	14	10
AC-FT	1780	1690	1810	1570	1540	2300	3410	4990	2460	1240	1010	968

CAL YR 1980 TOTAL 25912 MEAN 70.8 MAX 503 MIN 18 AC-FT 51400
WTR YR 1981 TOTAL 12491 MEAN 34.2 MAX 158 MIN 10 AC-FT 24780

10104900 EAST FORK LITTLE BEAR RIVER ABOVE RESERVOIR, NEAR AVON, UTAH

LOCATION.--Lat 41°31'06", long 111°42'49", in NW¼ sec.15, T.9 N., R.2 E., Cache County, Hydrologic Unit 16010203, on right bank 1.2 mi (1.9 km) upstream from Porcupine Creek, 1.7 mi (2.7 km) upstream from Porcupine Dam, 5.2 mi (8.4 km) east of Avon, and 7.2 mi (11.6 km) southeast of Paradise.

DRAINAGE AREA.--56.7 mi^2 (146.8 km^2).

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

REVISED RECORDS.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,398 ft (1,645.3 m) from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--18 years, 34.8 ft^3/s (0.986 m^3/s), 25,210 acre-ft/yr (31.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 760 ft^3/s (21.5 m^3/s) May 15, 1975, gage height, 3.66 ft (1.116 m); minimum, 2.2 ft^3/s (0.062 m^3/s) Feb. 26, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 178 ft^3/s (5.04 m^3/s) May 22, gage height, 2.17 ft (0.661 m); minimum, 3.4 ft^3/s (0.096 m^3/s) Feb. 3, 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	8.7	7.8	6.9	6.0	6.7	14	32	46	12	7.4	6.4
2	9.8	8.7	7.8	6.8	5.7	6.7	17	31	44	12	7.3	6.4
3	9.8	8.7	8.0	6.8	4.8	6.7	17	30	45	12	7.3	6.2
4	9.8	8.7	9.0	6.9	5.1	6.6	16	27	41	11	7.3	6.0
5	9.4	8.7	9.2	6.8	4.9	6.7	15	26	38	10	7.2	6.2
6	9.4	8.7	8.3	6.7	5.5	6.7	14	25	35	11	7.0	6.5
7	9.4	8.7	7.8	6.1	5.3	6.9	14	23	33	11	7.0	6.4
8	9.4	9.3	6.8	6.1	5.3	6.7	14	23	31	10	6.9	6.2
9	9.4	9.1	7.4	6.1	5.4	6.6	14	22	29	10	6.9	6.0
10	9.4	8.8	7.3	6.2	5.1	6.5	17	19	28	9.8	6.9	6.0
11	9.4	8.5	7.2	6.1	4.6	6.5	25	23	27	9.7	7.0	6.0
12	9.5	10	7.1	6.1	5.6	6.5	30	19	25	9.4	6.8	6.0
13	9.5	9.4	7.1	6.0	5.4	6.5	30	19	25	9.1	6.8	6.0
14	9.7	8.8	7.1	5.9	5.4	6.5	33	17	24	9.0	6.8	5.8
15	10	7.8	7.1	5.9	5.5	6.6	38	20	23	8.8	6.7	5.7
16	10	7.5	7.1	5.7	5.6	7.0	44	18	22	8.6	6.6	5.7
17	9.8	7.5	7.1	5.6	5.8	7.0	50	20	21	8.5	6.6	5.5
18	9.6	7.5	7.1	5.6	5.9	6.6	50	17	20	8.3	6.6	5.5
19	9.4	7.7	6.9	5.9	5.9	6.7	60	17	19	8.0	6.4	5.3
20	9.4	7.7	6.8	5.9	6.6	6.9	50	18	18	7.9	6.4	5.3
21	9.4	7.4	6.9	5.9	6.6	7.0	47	39	17	7.9	6.6	5.1
22	9.4	7.7	7.2	5.9	6.4	6.8	46	157	16	7.8	6.3	5.1
23	9.1	7.7	7.1	5.8	6.1	7.3	43	122	16	8.1	6.2	5.1
24	8.9	7.8	7.0	5.9	6.3	7.9	48	99	15	7.4	6.2	5.1
25	8.7	7.6	7.4	5.9	6.8	8.4	50	83	15	8.1	6.1	5.3
26	9.1	7.7	7.8	5.9	7.7	8.8	49	81	14	8.2	6.0	5.3
27	8.9	7.5	7.6	5.9	7.2	10	44	75	14	8.0	6.1	5.3
28	8.7	7.6	7.4	5.9	6.8	9.8	39	67	13	7.3	6.0	5.1
29	8.7	7.7	7.2	5.9	---	11	36	61	13	7.3	6.0	5.1
30	8.7	7.8	6.9	6.2	---	15	34	55	13	6.8	6.0	5.1
31	8.7	---	7.0	6.1	---	14	---	51	---	7.5	6.2	---
TOTAL	290.2	247.0	229.5	189.4	163.3	239.6	998	1336	740	280.5	205.6	170.7
MEAN	9.36	8.23	7.40	6.11	5.83	7.73	33.3	43.1	24.7	9.05	6.63	5.69
MAX	10	10	9.2	6.9	7.7	15	60	157	46	12	7.4	6.5
MIN	8.7	7.4	6.8	5.6	4.6	6.5	14	17	13	6.8	6.0	5.1
AC-FT	576	490	455	376	324	475	1980	2650	1470	556	408	339

CAL YR 1980 TOTAL 17586.0 MEAN 48.0 MAX 499 MIN 5.1 AC-FT 34880
WTR YR 1981 TOTAL 5089.8 MEAN 13.9 MAX 157 MIN 4.6 AC-FT 10100

10106000 LITTLE BEAR RIVER NEAR PARADISE, UTAH

LOCATION.--Lat 41°35'25", long 111°51'10", in SE¼ sec.20, T.10 N., R.1 E., Cache County, Hydrologic Unit 16010203, on right bank 1 mi (1.6 km) upstream from backwater of Hyrum Reservoir, 2 mi (3 km) northwest of Paradise, and 5 mi (8 km) downstream from East Fork.

DRAINAGE AREA.--198 mi^2 (513 km^2).

PERIOD OF RECORD.--January 1937 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,680 ft (1,426.5 m) from topographic map. Prior to Nov. 28, 1945, at site 150 ft (46 m) upstream at different datum. Nov. 28, 1945 to May 19, 1952 at present site at datum 1.50 ft (0.46 m) higher.

REMARKS.--Records good. Diversions above station for irrigation of about 10,000 acres (40.5 km^2), most of which is below station. Flow regulated slightly by trout farm about 2 mi (3 km) upstream and by Porcupine Reservoir, capacity 12,800 acre-ft (15.8 hm^3), since 1962. No diversion between station and Hyrum Reservoir.

AVERAGE DISCHARGE.--44 years, 89.5 ft^3/s (2.535 m^3/s), 64,840 acre-ft/yr (79.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,000 ft^3/s (56.6 m^3/s) Feb. 11, 1962, gage height, 6.52 ft (1.987 m), from rating curve extended above 600 ft^3/s (17.0 m^3/s); minimum, 4 ft^3/s (0.11 m^3/s) Aug. 14, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 432 ft^3/s (12.2 m^3/s) May 21, gage height, 6.23 ft (1.899 m); minimum, 18 ft^3/s (0.510 m^3/s) June 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	49	49	46	52	52	80	62	63	34	28	30
2	54	55	48	46	48	51	84	65	71	36	26	30
3	51	55	53	45	48	51	74	60	76	36	25	29
4	51	57	54	46	48	49	65	48	54	37	26	29
5	51	57	54	46	48	49	58	37	46	38	27	31
6	58	55	51	44	54	49	58	38	44	42	26	33
7	55	55	45	44	54	49	58	40	42	42	27	31
8	54	54	38	44	49	49	57	40	40	36	26	30
9	54	54	38	45	51	48	58	33	40	33	27	29
10	57	54	45	44	48	48	68	26	38	33	28	30
11	52	54	55	44	46	48	76	34	40	33	29	29
12	52	62	57	45	52	46	72	29	38	36	30	30
13	60	60	55	45	48	46	68	26	37	33	31	29
14	65	57	55	44	49	46	65	26	35	34	31	28
15	63	54	55	45	51	49	65	33	31	31	31	28
16	60	55	55	45	49	52	63	33	29	31	29	29
17	58	55	55	49	55	52	60	36	28	36	27	28
18	57	57	55	48	54	49	62	31	30	35	26	28
19	54	52	55	46	55	51	76	30	29	35	29	27
20	52	49	55	46	58	62	82	35	27	36	28	27
21	52	49	55	45	51	68	82	127	28	36	28	26
22	51	51	58	48	49	63	78	163	28	33	27	27
23	51	51	55	48	49	60	74	100	35	34	28	27
24	51	52	52	48	48	57	76	88	27	31	28	27
25	49	49	58	48	51	55	84	86	24	31	28	28
26	54	49	63	48	67	60	94	120	25	31	28	28
27	52	48	60	49	61	68	94	108	21	31	29	28
28	52	48	55	49	55	84	90	94	22	33	29	28
29	51	49	51	51	---	86	90	88	24	33	30	28
30	49	51	49	54	---	94	80	78	28	30	29	28
31	48	---	48	54	---	82	---	72	---	30	34	---
TOTAL	1673	1597	1631	1449	1448	1773	2191	1886	1100	1060	875	860
MEAN	54.0	53.2	52.6	46.7	51.7	57.2	73.0	60.8	36.7	34.2	28.2	28.7
MAX	65	62	63	54	67	94	94	163	76	42	34	33
MIN	48	48	38	44	46	46	57	26	21	30	25	26
AC-FT	3320	3170	3240	2870	2870	3520	4350	3740	2180	2100	1740	1710

CAL YR 1980 TOTAL 46209 MEAN 126 MAX 1010 MIN 35 AC-FT 91660
WTR YR 1981 TOTAL 17543 MEAN 48.1 MAX 163 MIN 21 AC-FT 34800

10108400 LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UTAH

LOCATION.--Lat 41°44'35", long 111°45'40", in NE¼NE¼ sec.31, T.12 N., R.2 E., Cache County, Hydrologic Unit 16010203, Cache National Forest, on left bank 487 ft (148 m) downstream from head and 3.8 mi (6.1 km) east of Logan.

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

GAGE.--Water-stage recorder and 8-ft (2.448-m) concrete Parshall flume. Datum of gage is 4,858.69 ft (1,480.929 m) NGVD of 1929 (Bureau of Public Roads bench mark).

REMARKS.--Records good except for periods of missing record Nov. 16-30, Dec. 14 to Feb. 2, which are poor.

AVERAGE DISCHARGE.--18 years, 24.9 ft^3/s (0.705 m^3/s), 18,040 acre-ft/yr (22.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 111 ft^3/s (3.14 m^3/s) May 23, 1963, May 28, 1966; no flow at times most years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	37	.64	2.0	4.0	4.0	2.9	28	35	63	35	31
2	38	30	.60	2.0	4.0	4.0	2.6	28	35	63	34	31
3	37	24	.60	2.0	3.8	4.0	2.6	32	35	63	34	32
4	38	24	.60	2.0	3.8	4.2	2.6	43	34	63	34	34
5	38	24	.60	2.0	3.8	4.2	2.6	43	.88	62	34	35
6	38	24	.60	2.0	3.7	4.2	2.5	43	.94	56	34	34
7	38	24	.60	2.0	3.7	4.2	1.9	42	.22	54	34	34
8	38	24	.60	2.0	3.7	4.2	.70	42	6.7	53	34	34
9	38	24	.60	2.0	3.7	4.2	.61	41	31	53	34	34
10	38	24	.60	2.0	3.7	4.2	.57	41	35	52	32	34
11	38	24	.60	2.0	3.8	3.9	.50	42	34	52	32	30
12	38	25	.60	2.0	3.7	3.7	.50	41	41	52	32	30
13	38	24	.60	2.0	3.7	3.7	.50	41	44	51	35	30
14	38	24	.60	2.0	3.9	3.7	1.7	41	44	49	35	30
15	38	24	.60	2.0	3.9	3.5	5.2	41	44	45	34	30
16	38	24	.60	2.0	4.0	3.5	8.3	41	43	43	34	30
17	38	24	.60	2.0	4.0	3.5	12	41	44	43	33	30
18	37	12	.60	3.0	4.0	2.7	14	41	43	42	33	30
19	37	1.0	.60	3.0	4.1	.88	15	41	49	42	32	30
20	37	1.0	.60	3.0	4.1	.78	14	41	60	42	32	30
21	37	1.0	.60	3.0	4.0	.70	14	41	63	42	31	30
22	37	1.0	1.0	3.0	4.0	.70	14	6.8	63	42	30	30
23	37	.90	2.0	3.0	4.1	.70	14	1.7	63	41	30	30
24	37	.90	2.0	3.0	4.2	.70	14	1.7	67	40	30	30
25	37	.80	2.0	3.0	4.1	1.6	14	1.7	71	40	30	30
26	37	.80	2.0	3.0	3.9	3.7	14	1.8	76	40	30	30
27	37	.70	2.0	3.0	4.0	3.5	15	1.6	82	40	30	30
28	37	.70	2.0	4.0	3.9	3.3	14	8.6	84	40	31	30
29	37	.70	2.0	4.0	---	3.3	15	25	80	38	31	30
30	37	.70	2.0	4.0	---	3.3	15	28	68	37	30	30
31	37	---	2.0	4.0	---	3.3	---	35	---	36	31	---
TOTAL	1163	450.20	31.64	80.0	109.3	96.06	234.28	946.9	1376.74	1479	1005	933
MEAN	37.5	15.0	1.02	2.58	3.90	3.10	7.81	30.5	45.9	47.7	32.4	31.1
MAX	38	37	2.0	4.0	4.2	4.2	15	43	84	63	35	35
MIN	37	.70	.60	2.0	3.7	.70	.50	1.6	.22	36	30	30
AC-FT	2310	893	63	159	217	191	465	1880	2730	2930	1990	1850

CAL YR 1980	TOTAL	10222.54	MEAN 27.9	MAX 84	MIN .00	AC-FT	20280
WTR YR 1981	TOTAL	7905.12	MEAN 21.7	MAX 84	MIN .22	AC-FT	15680

10109000 LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UTAH

LOCATION.--Lat 41°44'40", long 111°47'00", in NE¼ sec.36, T.12 N., R.1 E., Cache County, Hydrologic Unit 16010203, on right bank 0.5 mi (0.8 km) upstream from State dam, and 2.5 mi (4.0 km) east of Logan.

DRAINAGE AREA.--214 mi^2 (554 km^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.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,680 ft (1,426 m) from topographic map. Prior to May 7, 1913, nonrecording gage at various sites within 0.5 mi (0.8 km) 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: 68 years (water years 1914-81), 127 ft^3/s (3.597 m^3/s), 92,010 acre-ft/yr (113 hm^3/yr).
Combined river and canal: 85 years, 271 ft^3/s (7.67 m^3/s), 196,300 acre-ft/yr (242 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--River only: Maximum discharge, 2,000 ft^3/s (56.6 m^3/s) Mar. 21, 1916, gage height, 5.6 ft (1.71 m), datum then in use, from rating curve extended above 1,000 ft^3/s (28.3 m^3/s); minimum daily, 6 ft^3/s (0.17 m^3/s) Nov. 7, 1940.
Combined river and canal: Maximum discharge observed, 2,480 ft^3/s (70.2 m^3/s) May 24, 1907; minimum daily, 50 ft^3/s (1.42 m^3/s) Jan. 21, 1935.

EXTREMES FOR CURRENT YEAR.--River only: Maximum discharge, 628 ft^3/s (17.8 m^3/s) May 22, gage height, 4.07 ft (1.241 m); minimum, 69 ft^3/s (1.95 m^3/s) Jan. 8.
Combined river and canal: Maximum daily discharge, 599 ft^3/s (17.0 m^3/s) June 3; minimum daily, 95 ft^3/s (2.69 m^3/s) Feb. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	120	123	112	101	97	99	274	532	195	125	91
2	139	121	121	111	94	99	107	304	524	195	123	91
3	139	129	120	109	97	97	105	298	564	185	121	89
4	139	127	120	109	97	99	105	250	532	185	119	85
5	137	125	121	111	97	95	99	238	536	175	119	87
6	137	125	114	107	97	99	99	232	532	175	115	91
7	135	125	111	104	101	99	109	226	528	178	107	89
8	135	125	107	101	97	97	103	215	513	172	103	87
9	135	125	109	104	99	97	103	200	496	168	103	87
10	135	125	105	102	91	95	103	195	482	162	109	87
11	133	121	111	102	99	95	109	202	443	160	111	87
12	135	123	111	102	99	95	113	198	404	160	109	89
13	137	123	111	101	96	95	115	182	398	155	111	91
14	135	120	107	101	97	95	117	182	373	150	111	89
15	139	116	107	101	96	95	121	192	338	155	109	89
16	135	114	109	102	97	101	123	198	314	155	105	91
17	135	112	109	102	99	99	119	190	301	152	105	91
18	133	125	109	102	99	99	133	182	295	150	103	89
19	131	129	111	105	101	101	158	182	283	148	99	89
20	131	127	109	104	102	109	188	190	274	143	99	89
21	129	129	109	102	99	103	182	244	268	139	103	89
22	127	129	109	101	101	103	165	499	253	139	103	91
23	121	127	105	101	101	101	150	443	247	139	101	91
24	118	127	105	102	102	101	165	415	232	139	101	91
25	118	121	107	102	102	101	195	429	220	135	97	91
26	120	123	109	102	103	103	232	536	210	133	95	93
27	121	121	105	101	101	105	241	584	202	135	95	91
28	121	121	104	101	95	107	223	552	195	133	93	91
29	121	121	102	102	---	103	229	510	190	131	93	91
30	121	123	102	102	---	105	265	492	195	129	91	87
31	121	---	109	102	---	101	---	510	---	129	91	---
TOTAL	4048	3699	3411	3210	2760	3091	4375	9544	10874	4799	3269	2684
MEAN	131	123	110	104	98.6	99.7	146	308	362	155	105	89.5
MAX	139	129	123	112	103	109	265	584	564	195	125	93
MIN	118	112	102	101	91	95	99	182	190	129	91	85
AC-FT	8030	7340	6770	6370	5470	6130	8680	18930	21570	9520	6480	5320

CAL YR 1980 TOTAL 92747 MEAN 253 MAX 876 MIN 85 AC-FT 184000
WTR YR 1981 TOTAL 55764 MEAN 153 MAX 584 MIN 85 AC-FT 110600

10109001 LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UTAH--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF LOGAN RIVER ABOVE STATE DAM AND LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UTAH

WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	173	157	124	114	105	101	102	302	567	258	160	122
2	177	151	122	113	98	103	110	332	559	258	157	122
3	176	153	121	111	101	101	108	330	599	248	155	121
4	177	151	121	111	101	103	108	293	566	248	153	119
5	175	149	122	113	101	99	102	281	537	237	153	122
6	175	149	115	109	101	103	102	275	533	231	149	125
7	173	149	112	106	105	103	111	268	528	232	141	123
8	173	149	108	103	101	101	104	257	520	225	137	121
9	173	149	110	106	103	101	104	241	527	221	137	121
10	173	149	106	104	95	99	104	236	517	214	141	121
11	171	145	112	104	103	99	110	244	477	212	143	117
12	173	148	112	104	103	99	114	239	445	212	141	119
13	175	147	112	103	100	99	116	223	442	206	146	121
14	173	144	108	103	101	99	119	223	417	199	146	119
15	177	140	108	103	100	99	126	233	382	200	143	119
16	173	138	110	104	101	105	131	239	357	198	139	121
17	173	136	110	104	103	103	131	231	345	195	138	121
18	170	137	110	105	103	102	147	223	338	192	136	119
19	168	130	112	108	105	102	173	223	332	190	131	119
20	168	128	110	107	106	110	202	231	334	185	131	119
21	166	130	110	105	103	104	196	285	331	181	134	119
22	164	130	110	104	105	104	179	506	316	181	133	121
23	158	128	107	104	105	102	164	445	310	180	131	121
24	155	128	107	105	106	102	179	417	299	179	131	121
25	155	122	109	105	106	103	209	431	291	175	127	121
26	157	124	111	105	107	107	246	538	286	173	125	123
27	158	122	107	104	105	109	256	586	284	175	125	121
28	158	122	106	105	99	110	237	561	279	173	124	121
29	158	122	104	106	---	106	244	535	270	169	124	121
30	158	124	104	106	---	108	280	520	263	166	121	117
31	158	---	111	106	---	104	---	545	---	165	122	---
TOTAL	5211	4151	3451	3290	2872	3190	4614	10493	12251	6278	4274	3617
MEAN	168	138	111	106	103	103	154	338	408	203	138	121
MAX	177	157	124	114	107	110	280	586	599	258	160	125
MIN	155	122	104	103	95	99	102	223	263	165	121	117
AC-FT	10340	8230	6850	6530	5700	6330	9150	20810	24300	12450	8480	7170

CAL YR 1980 TOTAL 102973 MEAN 281 MAX 916 MIN 89 AC-FT 204200
WTR YR 1981 TOTAL 63692 MEAN 174 MAX 599 MIN 95 AC-FT 126300

10113500 BLACKSMITH FORK ABOVE UTAH POWER & LIGHT CO.'S DAM, NEAR HYRUM, UTAH

LOCATION.--Lat 41°37'18", long 111°44'42", in NE¼ sec.8, T.10 N., R.2 E., Cache County, Hydrologic Unit 16010203, on right bank 0.8 mi (1.3 km) upstream from diversion dam, and 6 mi (9.7 km) east of Hyrum.

DRAINAGE AREA.--268 mi^2 (694 km^2).

PERIOD OF RECORD.--October 1913 to current year. Monthly discharge only for October 1913, published in WSP 1314.

REVISED RECORDS.--WSP 1514: 1925. WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,000.60 ft (1,524.183 m) NGVD of 1929, unadjusted. Prior to Oct. 2, 1934, at site 1,000 ft (305 m) upstream at different datum.

REMARKS.--Records good. A few small diversions for irrigation of about 200 acres (809,000 m^2) above station. Flow is slightly regulated by powerplant above station.

AVERAGE DISCHARGE.--68 years, 127 ft^3/s (3.60 m^3/s), 92,010 acre-ft/yr (113 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,620 ft^3/s (45.9 m^3/s) May 15, 1917, gage height, 6.5 ft (1.98 m) from floodmarks, site and datum then in use, from rating curve extended above 800 ft^3/s (22.7 m^3/s); minimum, 4.7 ft^3/s (0.133 m^3/s) Nov. 28, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 140 ft^3/s (3.96 m^3/s), 351 ft^3/s (9.94 m^3/s) May 22, gage height, 3.45 ft (1.052 m); minimum, 21 ft^3/s (0.595 m^3/s) Jan. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	91	90	70	83	83	85	98	123	83	69	61
2	109	96	90	70	80	83	86	98	123	82	67	61
3	109	96	90	70	79	83	86	98	133	82	67	61
4	109	93	93	72	79	82	85	96	119	80	67	62
5	109	93	93	72	79	82	82	91	115	80	67	64
6	107	91	90	72	82	82	82	94	109	80	67	66
7	107	93	86	73	83	83	82	94	107	80	66	66
8	107	94	82	70	82	82	82	93	106	79	66	65
9	107	93	79	72	83	82	82	90	102	79	66	64
10	106	91	80	72	82	82	86	90	102	76	66	64
11	107	93	80	72	76	82	90	93	100	77	66	65
12	106	100	80	72	85	82	91	90	96	77	65	64
13	107	96	79	73	82	82	88	88	96	76	65	64
14	109	93	79	73	83	82	90	88	94	74	65	62
15	113	91	79	73	83	82	91	91	94	73	65	62
16	107	90	80	73	85	82	91	91	90	73	65	62
17	106	88	79	74	86	83	93	90	91	73	65	62
18	104	91	76	74	85	82	96	86	90	73	65	62
19	104	91	76	76	85	82	102	86	90	72	64	60
20	104	91	76	76	88	80	100	90	90	72	62	64
21	102	90	74	76	86	82	104	109	90	70	61	64
22	102	88	74	76	83	80	109	295	85	70	61	64
23	93	91	73	76	85	79	100	208	86	69	61	64
24	102	90	73	77	85	79	100	175	86	70	61	64
25	104	88	74	77	85	79	100	162	82	72	61	65
26	100	88	74	77	90	80	104	175	83	73	62	65
27	100	88	72	77	85	85	94	165	83	73	62	65
28	94	88	72	80	83	85	98	153	83	72	62	62
29	98	88	69	80	---	85	98	143	83	70	62	62
30	94	88	69	82	---	88	96	135	79	70	62	59
31	96	---	69	83	---	85	---	131	---	69	62	---
TOTAL	3231	2742	2450	2310	2332	2550	2773	3686	2910	2319	1992	1895
MEAN	104	91.4	79.0	74.5	83.3	82.3	92.4	119	97.0	74.8	64.3	63.2
MAX	113	100	93	83	90	88	109	295	133	83	69	66
MIN	93	88	69	70	76	79	82	86	79	69	61	59
AC-FT	6410	5440	4860	4580	4630	5060	5500	7310	5770	4600	3950	3760

CAL YR 1980 TOTAL 56017 MEAN 153 MAX 612 MIN 66 AC-FT 111100
WTR YR 1981 TOTAL 31190 MEAN 85.5 MAX 295 MIN 59 AC-FT 61870

10118000 BEAR RIVER NEAR COLLINSTON, UTAH

LOCATION.--Lat 41°50'03", long 112°03'16", in NW¼SE¼ sec.27, T.13 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on right bank 800 ft (244 m) downstream from Cutler plant of Utah Power & Light Co., 2,000 ft (610 m) downstream from Cutler Dam, and 5.5 mi (8.8 km) north of Collinston.

DRAINAGE AREA.--6,267 mi^2 (16,232 km^2).

PERIOD OF RECORD.--July 1889 to September 30, 1981 (discontinued). Published as "at Collinston" prior to 1900. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,276.13 ft (1,303.364 m) NGVD of 1929 (levels by Bureau of Reclamation). Prior to November 8, 1913, nonrecording gage, and November 8, 1913 to September 10, 1938, water-stage recorder, at site 0.8 mi (1.3 km) 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.--Two discharge measurements furnished by Utah Power & Light Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 11,600 ft^3/s (329 m^3/s) June 7-10, 1909, gage height, 7.70 ft (2.34 m), site and datum then in use; minimum daily, 10 ft^3/s (0.28 m^3/s) August 4-12, 18-23, 1905; practically no flow at 2400 Aug. 5, 1920.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,970 ft^3/s (112 m^3/s) May 29, gage height, 4.76 ft (1.451 m); minimum daily, 7.2 ft^3/s (0.204 m^3/s) Sept. 20, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1940	2160	1630	1450	1450	1680	1600	388	3000	20	18	9.2
2	1470	2190	2080	1300	1450	1550	1760	62	2710	20	18	9.2
3	1910	1860	1750	1970	1380	948	1620	876	2770	20	17	9.2
4	986	2640	2590	1970	1390	1150	1450	203	2720	20	17	9.2
5	1760	2180	1920	2400	830	1380	1440	19	2610	20	17	8.3
6	1500	1840	2230	2250	833	1450	1450	23	2350	22	17	9.2
7	1880	2190	1540	2400	787	1440	1430	21	2160	20	17	9.2
8	1470	2500	2130	1200	497	1400	1350	20	1650	20	17	8.3
9	1260	1380	1850	1940	961	1020	28	19	375	20	17	8.3
10	1210	2030	1590	1940	1450	1010	484	20	1100	19	17	8.3
11	1280	1920	2000	1940	1450	780	266	22	1410	18	17	8.3
12	1450	1790	1550	1900	1410	265	974	24	455	19	17	8.3
13	1470	2330	1300	1950	1040	1030	1390	412	1420	21	17	8.3
14	1610	1920	1620	1940	1300	1040	1420	409	661	24	17	8.3
15	1850	1960	1250	1650	322	1080	1440	25	870	18	17	7.6
16	1910	1840	1330	1700	1230	1450	1420	25	483	18	17	7.6
17	1760	2140	1520	1880	1050	1340	1440	303	1140	18	17	7.6
18	2250	1980	1770	1920	858	400	1400	247	22	19	18	7.6
19	1770	2100	2210	1660	1320	1220	1440	26	360	19	9.8	7.6
20	2700	2210	1540	1460	1300	797	1420	418	23	19	9.8	7.2
21	1560	1600	2170	1400	1430	1470	1430	1710	23	18	9.2	7.2
22	2020	2080	1750	1390	1440	1440	765	1030	23	18	9.2	7.6
23	1890	1720	1940	1060	1430	1070	754	2210	22	18	9.8	7.6
24	1900	2500	2570	1410	1310	177	159	3400	20	19	9.8	25
25	1990	2040	2240	1460	1150	872	943	3390	22	19	9.8	270
26	2040	2170	2190	1070	1020	1200	1250	3220	20	18	9.8	181
27	1830	1520	1930	731	1530	1020	1450	3090	20	18	9.8	7.6
28	1630	2330	2070	1460	1520	816	1420	3450	20	18	9.8	7.6
29	1830	1560	1690	1420	---	1070	1350	3720	20	18	9.2	7.6
30	2840	1780	2210	1360	---	1440	694	3720	20	18	9.2	7.6
31	1070	---	2300	443	---	1440	---	3370	---	18	9.2	---
TOTAL	54036	60460	58460	50024	33138	34445	35437	35872	28499	594	433.4	695.6
MEAN	1743	2015	1886	1614	1184	1111	1181	1157	950	19.2	14.0	23.2
MAX	2840	2640	2590	2400	1530	1680	1760	3720	3000	24	18	270
MIN	986	1380	1250	443	322	177	28	19	20	18	9.2	7.2
AC-FT	107200	119900	116000	99220	65730	68320	70290	71150	56530	1180	860	1380

CAL YR 1980 TOTAL 779370.0 MEAN 2129 MAX 8020 MIN 25 AC-FT 1546000
WTR YR 1981 TOTAL 392094.0 MEAN 1074 MAX 3720 MIN 7.2 AC-FT 777700

10126000 BEAR RIVER NEAR CORINNE, UTAH

LOCATION.--Lat 41°34'35", long 112°06'00", in NE¼SE¼NE¼ sec.30, T.10 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on right bank 1.2 mi (1.9 km) downstream from Salt Creek, 2.0 mi (3.2 km) northeast of Corinne, and 2.8 mi (4.5 km) downstream from Malad River.

DRAINAGE AREA.--7,029 mi^2 (18,205 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1949 to September 1957, October 1963 to current year.

REVISED RECORDS.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,204.6 ft (1,281.56 km), unadjusted. Auxiliary nonrecording gage 7,800 ft (2,380 m) downstream July 27, 1950 to Nov. 21, 1955.

REMARKS.--Records good except those for winter months, which are fair. Natural flow of stream affected by upstream reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--26 years, 1,710 ft^3/s (48.4 m^3/s), 1,239,000 acre-ft/yr (1.53 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,880 ft^3/s (223 m^3/s) June 8, 1980, gage height, 15.87 ft (4.837 m); minimum daily, 72 ft^3/s (2.04 m^3/s) Aug. 20, 21, 26, Sept. 8, 1964, July 5, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,870 ft^3/s (110 m^3/s) May 30, gage height, 10.96 ft (3.341 m); minimum, 79 ft^3/s (2.24 m^3/s) Aug. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1870	1610	1810	2300	835	1540	1450	706	3490	126	105	120
2	1980	2240	1810	1900	1480	1660	1600	422	3160	118	113	120
3	1340	2130	2280	1700	1540	1500	1710	194	2990	121	107	122
4	1780	2250	2130	1900	1540	964	1540	645	2980	132	107	122
5	1410	2720	2370	2100	1400	1120	1430	377	2940	150	102	124
6	1830	2130	2000	2400	1100	1340	1410	155	2820	155	100	130
7	1750	1900	2260	2400	900	1390	1400	115	2610	153	98	144
8	1580	2430	1750	2400	800	1390	1400	112	2400	141	98	145
9	1730	2250	2220	1600	700	1280	1160	107	1880	130	95	147
10	1360	1670	1840	1800	1000	992	342	112	839	125	97	144
11	1250	2100	1700	2000	1500	1010	404	125	1160	123	109	150
12	1390	2090	2000	2000	1500	768	347	110	1510	132	118	149
13	1690	1920	1700	2000	1500	402	948	109	893	133	106	148
14	1500	2130	1400	2000	1270	1010	1270	295	1330	119	107	149
15	1730	2150	1500	2000	1170	889	1330	505	866	116	98	149
16	1940	2170	1400	1800	588	1060	1350	236	1030	130	100	148
17	2050	1980	1400	1800	1030	1350	1350	176	663	120	105	148
18	1910	2080	1600	1900	1070	1150	1340	254	1110	133	98	150
19	2280	2100	2000	1900	1070	656	1380	400	471	136	95	159
20	2180	2290	2300	1900	1330	1000	1400	318	409	146	96	162
21	2380	2190	1900	1590	1340	968	1380	660	228	143	94	155
22	1820	1990	2100	1530	1450	1390	1400	1560	157	136	96	152
23	2140	1940	2000	1450	1460	1300	807	1510	143	135	93	147
24	2030	2020	2400	1420	1420	1100	688	2540	137	123	100	150
25	2140	2450	2600	1530	1330	881	315	3310	134	117	102	265
26	2040	2150	2400	1560	1100	940	885	3430	130	116	98	507
27	2410	2050	2300	1120	1160	1040	1160	3420	126	125	99	496
28	2000	1770	2200	959	1480	1120	1310	3330	121	133	100	330
29	1740	2260	2100	1550	---	800	1330	3520	117	128	99	205
30	2290	1790	2000	1570	---	1180	1300	3790	117	120	108	174
31	2500	---	2200	1320	---	1450	---	3760	---	115	118	---
TOTAL	58040	62950	61670	55399	34063	34640	35136	36303	36961	4030	3161	5411
MEAN	1872	2098	1989	1787	1217	1117	1171	1171	1232	130	102	180
MAX	2500	2720	2600	2400	1540	1660	1710	3790	3490	155	118	507
MIN	1250	1610	1400	959	588	402	315	107	117	115	93	120
AC-FT	115100	124900	122300	109900	67560	68710	69690	72010	73310	7990	6270	10730

CAL YR 1980 TOTAL 848518 MEAN 2318 MAX 7850 MIN 250 AC-FT 1683000
WTR YR 1981 TOTAL 427764 MEAN 1172 MAX 3790 MIN 93 AC-FT 848500

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 current year, once-daily.
WATER TEMPERATURES: October 1974 to current year, once-daily.
SEDIMENT DATA: October 1976 to current year, monthly.

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.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 5,260 micromhos, Aug. 28; minimum daily, 390 micromhos, Jan. 12.
WATER TEMPERATURES: Maximum, 29.0°C Aug. 16, 17; minimum, 0.0°C many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	NITRO-GEN DIS-SOLVED (MG/L AS N)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT										
28...	1310	2200	1040	8.4	7.5	7.0	2.1	10.2	1.0	K15
NOV										
12...	1050	2190	980	8.4	5.0	7.0	19	9.8	--	43
DEC										
16...	1000	2020	1150	8.4	-4.0	.0	5.5	12.8	1.6	5
JAN										
20...	1030	1660	1000	8.4	-20.0	.0	1.0	13.0	1.5	<1
FEB										
17...	1015	1200	1250	8.4	8.0	3.0	9.1	11.6	1.5	25
MAR										
17...	1030	1370	1120	8.5	3.0	5.0	6.0	10.8	1.3	50
APR										
14...	1130	1270	1130	8.5	10.5	11.0	52	10.4	1.1	46
MAY										
12...	1030	114	4400	8.5	9.0	14.0	45	10.7	2.0	K260
JUN										
16...	1100	1170	830	8.4	23.0	17.0	62	7.8	.34	50
JUL										
14...	1100	136	4600	8.2	23.0	22.5	64	7.3	2.2	540
AUG										
18...	1000	99	4900	5.9	25.0	23.0	51	9.8	2.6	620
SEP										
15...	1040	150	3710	8.4	16.5	19.5	58	8.6	1.5	120

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L 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										
28...	23	320	35	--	57	42	93	38	2.3	11
NOV										
12...	--	330	7	--	60	43	100	39	2.4	11
DEC										
16...	69	320	35	--	64	40	110	42	2.7	9.7
JAN										
20...	58	320	45	--	62	39	110	42	2.7	8.2
FEB										
17...	100	310	41	--	65	36	140	48	3.5	11
MAR										
17...	70	300	--	30	64	34	110	43	2.8	11
APR										
14...	97	290	--	29	58	35	130	48	3.3	13
MAY										
12...	K320	410	--	88	84	48	800	79	17	43
JUN										
16...	40	250	--	24	57	27	110	47	3.0	9.7
JUL										
14...	210	430	--	170	78	57	840	79	18	48
AUG										
18...	260	430	--	120	78	58	890	80	19	51
SEP										
15...	370	420	--	120	76	56	640	75	14	43

K Results based on colony count outside the acceptable range (non-ideal colony count).

10126000 BEAR RIVER NEAR CORINNE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 28...	280	59	140	.3	12	542	584	.74	3220
NOV 12...	320	57	140	.3	11	536	616	.73	3170
DEC 16...	290	62	170	.4	13	653	647	.89	3560
JAN 20...	270	62	160	.3	12	599	618	.81	2690
FEB 17...	270	55	210	.3	12	692	695	.94	2240
MAR 17...	270	55	160	.3	12	613	611	.83	2270
APR 14...	260	57	200	.3	13	657	664	.89	2250
MAY 12...	320	120	1300	.3	14	2600	2610	3.5	800
JUN 16...	230	2.5	200	.2	9.4	564	555	.77	1780
JUL 14...	260	110	1500	.4	13	2790	2810	3.8	1020
AUG 18...	310	110	1500	.4	14	2930	2890	4.0	779
SEP 15...	300	94	1100	.4	15	2240	2210	3.1	907

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	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)
OCT 28...	.030	.050	.04	.06	.80	.60	.83	.18	.65
NOV 12...	.020	.120	.02	.15	.38	--	.40	--	--
DEC 16...	.060	.090	.07	.12	.82	.71	.88	.08	.80
JAN 20...	.120	.130	.15	.17	.53	.79	.65	.00	.92
FEB 17...	.030	.070	--	.09	.97	.75	1.00	.18	.82
MAR 17...	.000	.050	--	.06	1.4	.67	1.40	.68	.72
APR 14...	.040	.070	--	.09	1.9	.67	1.90	1.2	.74
MAY 12...	.240	.190	--	.24	1.4	.81	1.60	.60	1.0
JUN 16...	.060	.080	--	.10	1.2	.16	1.30	1.1	.24
JUL 14...	.070	.090	--	.12	1.7	1.1	1.80	.60	1.2
AUG 18...	.190	.310	--	.40	1.9	1.3	2.10	.50	1.6
SEP 15...	.100	.120	--	.15	1.8	.81	1.90	.97	.93

DATE	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (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)	POTASSIUM 40 DISSOLVED (PCI/L AS K40)
OCT 28...	1.2	.37	.39	5.3	.140	.43	.040	--
NOV 12...	.78	.38	.34	3.5	.050	.15	.030	--
DEC 16...	1.6	.72	.77	7.1	.090	.28	.100	--
JAN 20...	1.3	.66	.56	5.8	.070	.21	.030	--
FEB 17...	1.7	.69	.70	7.5	.070	.21	.060	8.2
MAR 17...	2.0	.55	.55	8.6	.120	.37	.050	8.2
APR 14...	2.2	.25	.31	9.5	.220	.67	.020	9.7
MAY 12...	2.6	1.0	1.0	12	.390	1.2	.180	32
JUN 16...	1.4	.11	.10	6.2	.210	.64	.030	7.2
JUL 14...	3.0	1.2	1.0	13	.310	.95	.020	36
AUG 18...	2.8	.67	1.0	12	.260	.80	.100	--
SEP 15...	2.5	.61	.58	11	.210	.64	.010	--

10126000 BEAR RIVER NEAR CORINNE, UT--Continued

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)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)
NOV 12...	1050	3	0	3	100	20	80	1	--	<1	0
FEB 17...	1015	3	0	3	100	20	80	0	0	1	0
MAY 12...	1030	20	12	8	500	300	200	1	0	1	20
AUG 18...	1000	12	0	12	300	100	200	0	0	0	20

DATE	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, SUS-PENDED RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	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)
NOV 12...	0	0	1	--	<3	11	10	1	650	--	<10
FEB 17...	0	0	0	--	<3	20	18	2	530	--	<10
MAY 12...	10	10	6	6	0	8	6	2	9000	9000	20
AUG 18...	20	0	3	3	0	16	11	5	2900	2900	30

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	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)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)
NOV 12...	25	22	3	50	--	<1	.0	.0	.0	5	0
FEB 17...	5	5	0	40	30	10	.0	.0	.0	4	3
MAY 12...	7	2	5	780	750	30	.1	.1	.0	8	2
AUG 18...	8	1	7	250	230	20	.1	.0	.1	8	6

DATE	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)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV 12...	7	0	0	0	0	0	0	20	20	5
FEB 17...	1	1	0	1	0	0	0	30	20	10
MAY 12...	6	0	0	0	0	0	0	50	30	20
AUG 18...	2	0	0	0	0	0	0	30	0	30

10126000 BEAR RIVER NEAR CORINNE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
OCT 28...	1310	17	--	--
NOV 12...	1050	--	23	.9
DEC 16...	1000	14	--	--
FEB 17...	1015	--	40	.4
MAR 17...	1030	8.2	--	--
APR 14...	1130	9.6	--	--
MAY 12...	1030	--	15	.4
JUN 16...	1100	5.4	--	--
JUL 14...	1100	.1	--	--
AUG 18...	1000	--	13	1.2
SEP 15...	1040	6.6	--	--

DATE	TIME	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR-DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)
NOV 12...	1050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)	METHYL TRI-THION, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)
NOV 12...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND Material specifically analyzed for but not detected.

10126000 BEAR RIVER NEAR CORINNE, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	NOV 12,80		MAR 17,81		MAY 13,81		JUN 16,81	
TIME	1050		1030		1030		1100	
TOTAL CELLS/ML	6400		3600		1400		25000	
DIVERSITY: DIVISION	1.3		1.4		0.9		1.6	
.CLASS	1.3		1.4		0.9		1.6	
..ORDER	1.8		2.3		0.9		2.3	
...FAMILY	2.0		2.8		1.1		3.3	
....GENUS	2.1		2.9		1.1		3.9	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
BACILLARIOPHYTA (KARSTEN)								
.BACILLARIOPHYCEAE								
..NAVICULALES								
...NAVICULACEAE								
....PLEUROSIGMA	--	-	--	-	--	-	--	-
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHLOROCOCCACEAE								
....SCHROEDERIA	--	-	--	-	27	2	270	1
....TETRAEDRON	--	-	--	-	--	-	--	-
...DICTYOSPHAERIACEAE								
....DICTYOSPHAERIUM	--	-	580a	16	--	-	890	4
...HYDRODICTYACEAE								
....PEDIASTRUM	--	-	--	-	--	-	--	-
...MICRACTINIACEAE								
....MICRACTINIUM	--	-	--	-	--	-	960	4
...OOCYSTACEAE								
....ANKISTRODESMUS	150	2	40	1	--	-	210	1
....CHODATELLA	--	-	--	-	--	-	--	-
....FRANCEIA	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	40	1	--	-	750	3
....SELENASTRUM	100	2	--	-	--	-	b	0
....TREUBARIA	--	-	--	-	--	-	b	0
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	--	-	1100	4
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	--	-	2100	8
....COELASTRUM	--	-	--	-	--	-	--	-
....CRUCIGENIA	200	3	80	2	--	-	--	-
....GLOEOACTINIUM	--	-	--	-	--	-	--	-
....SCENEDESMUS	500	8	80	2	--	-	2600	10
....TETRASTRUM	--	-	--	-	--	-	820	3
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	450	7	600a	17	--	-	1400	5
...PHACOTACEAE								
....PHACOTUS	--	-	--	-	--	-	140	1
...VOLVOCACEAE								
....PANDORINA	--	-	--	-	--	-	550	2
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	3700a	57	--	-	--	-	3100	12
....MELOSIRA	--	-	--	-	--	-	2700	11
....STEPHANODISCUS	--	-	1300a	36	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	--	-	--	-
....COCCONEIS	--	-	--	-	41	3	--	-
...DIATOMACEAE								
....DIATOMA	--	-	20	1	--	-	140	1
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	20	1	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-	140	1
....SYNEDRA	--	-	80	2	200	15	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	--	-	--	-	b	0
...NAVICULACEAE								
....NAVICULA	150	2	500	14	41	3	b	0
....PLEUROSIGMA	--	-	--	-	--	-	--	-
...NITZSCHIACEAE								
....NITZSCHIA	200	3	60	2	--	-	690	3
.CHRYSOPHYCEAE								
..OCHROMONADALES								
...SYNURACEAE								
....MALLOMONAS	--	-	--	-	--	-	b	0
.XANTHOPHYCEAE								
..MISCHOCOCCALES								
...SCIADACEAE								
....CENTRITRACTUS	--	-	--	-	--	-	--	-

See footnote at end of table.

10126000 BEAR RIVER NEAR CORINNE, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE / TIME	NOV 12,80 1050		MAR 17,81 1030		MAY 13,81 1030		JUN 16,81 1100	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	20	1	--	-	--	-
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	40	1	--	-	b	0
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....AGMENELLUM	--	-	--	-	1100a	78	--	-
....ANACYSTIS	1000a	16	40	1	--	-	3700	15
..NOSTOCALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	--	-
....ANABAENOPSIS	--	-	--	-	--	-	--	-
..OSCILLATORIALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	--	-	--	-	2300	9
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	40	1	--	-	b	0
....PHACUS	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	40	1	--	-	140	1
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..DINOKONTAE								
...GLENODINIACEAE								
....GLENODINIUM	--	-	40	1	--	-	--	-
...GYMNODINIACEAE								
....GYMNODINIUM	--	-	--	-	--	-	--	-
...PERIDINIACEAE								
....PERIDINIUM	--	-	--	-	--	-	--	-

DATE / TIME	JUL 14,81 1100		AUG 18,81 1000		SEP 15,81 1040	
TOTAL CELLS/ML	140000		76000		53000	
DIVERSITY: DIVISION	1.6		1.5		1.4	
.CLASS	1.7		1.5		1.4	
..ORDER	1.9		2.3		2.0	
...FAMILY	2.3		2.5		3.0	
....GENUS	2.9		3.1		3.7	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
BACILLARIOPHYTA (KARSTEN)						
.BACILLARIOPHYCEAE						
..NAVICULALES						
...NAVICULACEAE						
....PLEUROSIGMA	--	-	3000	4	--	-
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...CHLOROCOCCACEAE						
....SCHROEDERIA	--	-	--	-	b	0
....TETRAEDRON	b	0	b	0	840	2
...DICTYOSPHAERIACEAE						
....DICTYOSPHAERIUM	2100	1	--	-	2400	5
...HYDRODICTYACEAE						
....PEDIASTRUM	--	-	--	-	11000a	21
...MICRACTINIACEAE						
....MICRACTINIUM	1000	1	--	-	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	b	0	1100	1	420	1
....CHODATELLA	--	-	--	-	b	0
....FRANCEIA	--	-	--	-	b	0
....OOCYSTIS	2800	2	5700	7	--	-
....SELENASTRUM	1400	1	--	-	--	-
....TREUBARIA	--	-	b	0	560	1

See footnote at end of table.

10126000 BEAR RIVER NEAR CORINNE, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	JUL 14,81		AUG 18,81		SEP 15,81	
TIME	1100		1000		1040	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
...PALMELLACEAE						
....SPHAEROCYSTIS	--	-	--	-	--	-
...SCENEDESMACEAE						
....ACTINASTRUM	30000a	21	--	-	560	1
....COELASTRUM	--	-	--	-	2200	4
....CRUCIGENIA	2800	2	1100	1	--	-
....GLOEOACTINIUM	1400	1	--	-	840	2
....SCENEDESMUS	7000	5	1600	2	7800	15
....TETRASTRUM	--	-	--	-	1100	2
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	1400	1	1900	2	2400	5
...PHACOTACEAE						
....PHACOTUS	--	-	--	-	--	-
...VOLVOCACEAE						
....PANDORINA	--	-	--	-	1100	2
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	17000	12	4900	6	4900	9
....MELOSIRA	8400	6	--	-	2200	4
....STEPHANODISCUS	--	-	--	-	--	-
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	b	0	--	-
....COCCONEIS	--	-	--	-	--	-
...DIATOMACEAE						
....DIATOMA	--	-	--	-	--	-
...FRAGILARIACEAE						
....ASTERIONELLA	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-
....SYNEDRA	b	0	--	-	--	-
...GOMPHONEMATACEAE						
....GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
....NAVICULA	1700	1	b	0	--	-
....PLEUROSIGMA	b	0	--	-	840	2
...NITZSCHIACEAE						
....NITZSCHIA	6600	5	7000	9	700	1
.CHRYSOPHYCEAE						
..OCHROMONADALES						
...SYNURACEAE						
....MALLOMONAS	--	-	--	-	--	-
.XANTHOPHYCEAE						
..MISCHOCOCCALES						
...SCIADACEAE						
....CENTRITRACTUS	b	0	--	-	b	0
CRYPTOPHYTA (CRYPTOMONADS)						
.CRYPTOPHYCEAE						
..CRYPTOMONADALES						
...CRYPTOCHRYSIDACEAE						
....CHROOMONAS	b	0	--	-	--	-
...CRYPTOMONADACEAE						
....CRYPTOMONAS	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....AGMENELLUM	--	-	13000a	17	2200	
....ANACYSTIS	55000a	39	5100	7	7700	15
..NOSTOCALES						
...NOSTOCACEAE						
....ANABAENA	--	-	26000a	35	--	-
....ANABAENOPSIS	--	-	4000	5	--	-
..OSCILLATORIALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	--	-	--	-	1400	3
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....EUGLENA	--	-	--	-	b	0
....PHACUS	--	-	b	0	--	-
....TRACHELOMONAS	--	-	--	-	420	1

See footnote at end of table.

10126000 BEAR RIVER NEAR CORINNE, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	JUL 14,81		AUG 18,81		SEP 15,81	
TIME	1100		1000		1040	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
PYRRHOPHYTA (FIRE ALGAE)						
.DINOPHYCEAE						
..DINOKONTAE						
...GLENODINIACEAE						
....GLENODINIUM	--	-	--	-	--	-
...GYMNODINIACEAE						
....GYMNODINIUM	b	0	--	-	--	-
...PERIDINIACEAE						
....PERIDINIUM	b	0	--	-	--	-

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organism, may not have been counted: Less than 1/2 percent.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	970	1110	960	960	---	1130	1250	1010	810	5110	4610	4490
2	980	1110	890	960	---	1180	1200	1020	1070	4780	4450	4450
3	990	900	960	960	---	1180	1200	1020	1070	4770	4410	4450
4	990	990	1060	960	1510	1180	1200	1110	1070	4780	4570	4450
5	1050	1000	1020	960	1500	1260	1200	1110	1070	4770	4590	4460
6	1050	1000	---	960	1510	1340	1220	---	1070	4010	4780	3280
7	1050	1010	760	960	1510	1120	1180	---	940	4010	4390	3240
8	1050	980	510	910	1510	1270	1190	---	950	4770	4860	3400
9	1050	980	590	1110	1510	1250	1430	---	950	4590	4830	3230
10	1050	920	530	1010	1510	1430	2200	---	950	4590	---	3340
11	1040	1000	740	720	1510	1430	2180	3910	950	4580	4750	3390
12	1000	900	1000	390	1240	1430	1150	3950	1230	4880	4740	3390
13	1010	1040	1000	1090	1240	1800	---	3950	1250	4890	4740	3400
14	1010	920	1000	1090	1240	1390	---	850	1240	4840	4740	3390
15	1000	970	1000	1080	1250	1380	---	810	1240	4580	4440	3390
16	1000	920	1000	1090	1240	1290	---	810	1110	4480	4390	3390
17	980	930	1000	770	1250	1220	---	810	1320	4530	4770	3400
18	970	910	1000	---	1230	1170	---	810	970	4690	4400	3430
19	970	930	1000	---	1230	1220	---	750	1230	4690	4870	3420
20	960	930	1000	1000	1230	1220	---	750	1800	3960	5080	3420
21	940	930	1000	---	1230	1250	---	750	1810	3960	4870	3290
22	1050	930	1000	---	1230	1280	---	750	3420	3890	5100	3290
23	1050	920	1000	1110	1240	1260	---	830	4160	3960	4420	3440
24	1000	920	1000	1200	1230	1260	---	830	5110	3840	5100	3410
25	1000	920	990	1200	1190	---	1140	830	5140	3870	5200	3300
26	1010	920	980	1200	1170	---	1150	830	5120	4050	4840	2040
27	1040	980	990	1110	1170	---	1150	830	5140	4050	5230	1650
28	1050	970	980	1110	1170	1260	1150	830	5120	4050	5260	1620
29	930	940	990	---	---	1230	1020	830	5130	4070	4890	2730
30	930	940	980	1110	---	1250	1010	810	5120	4050	4890	2750
31	1030	---	990	1110	---	1260	---	810	---	4610	4710	---
MEAN	**1010**	**961**	**931**	**1010**	**1310**	**1280**	**---**	**1220**	**2250**	**4410**	**4760**	**3340**

10126000 BEAR RIVER NEAR CORINNE, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	8.0	2.0	.0	.0	7.0	8.0	19.0	19.0	25.0	25.0	20.0
2	15.0	8.0	2.0	.0	.0	7.0	8.0	17.0	19.0	24.0	26.0	20.0
3	15.0	9.0	2.0	.0	.0	7.0	8.0	17.0	19.0	24.0	27.0	21.0
4	15.0	8.0	4.0	2.0	.0	8.0	7.0	17.0	20.0	24.0	28.0	20.0
5	16.0	8.0	4.0	2.0	.0	8.0	7.0	16.0	20.0	24.0	28.0	19.0
6	16.0	9.0	---	3.0	.0	8.0	8.0	---	20.0	24.0	24.0	19.0
7	16.0	8.0	2.0	3.0	.0	7.0	8.0	---	21.0	25.0	24.0	20.0
8	15.0	9.0	2.0	2.0	1.0	8.0	8.0	---	21.0	25.0	25.0	20.0
9	15.0	9.0	1.0	2.0	1.0	8.0	9.0	---	21.0	25.0	25.0	20.0
10	14.0	9.0	.0	.0	1.0	8.0	10.0	---	21.0	26.0	26.0	21.0
11	14.0	8.0	.0	.0	1.0	9.0	11.0	15.0	21.0	26.0	27.0	22.0
12	13.0	8.0	.0	.0	2.0	9.0	12.0	15.0	20.0	26.0	24.0	23.0
13	13.0	7.0	.0	.0	2.0	10.0	---	13.0	17.0	25.0	23.0	23.0
14	12.0	7.0	.0	.0	2.0	10.0	---	13.0	17.0	25.0	26.0	22.0
15	9.0	5.0	.0	.0	3.0	10.0	---	13.0	17.0	25.0	28.0	22.0
16	9.0	7.0	.0	.0	3.0	9.0	---	13.0	16.0	25.0	29.0	21.0
17	8.0	7.0	.0	.0	4.0	8.0	---	11.0	19.0	25.0	29.0	21.0
18	9.0	8.0	.0	---	4.0	8.0	---	11.0	19.0	25.0	27.0	21.0
19	10.0	4.0	.0	---	4.0	8.0	---	11.0	19.0	25.0	27.0	21.0
20	11.0	9.0	.0	---	4.0	7.0	---	11.0	23.0	25.0	25.0	20.0
21	11.0	9.0	1.0	---	4.0	7.0	---	11.0	24.0	25.5	25.0	20.0
22	10.0	9.0	1.0	---	4.0	8.0	---	11.0	25.0	26.0	25.0	19.0
23	8.0	8.0	1.0	.0	4.0	8.0	---	11.0	25.0	26.0	25.0	19.0
24	8.0	8.0	1.0	.0	4.0	8.0	---	11.0	25.0	23.0	25.0	18.0
25	8.0	8.0	1.0	.0	3.0	---	18.0	11.0	25.0	25.0	24.0	17.0
26	7.0	5.0	1.0	.0	3.0	---	18.0	18.0	25.0	25.0	23.0	13.0
27	7.0	3.0	2.0	1.0	4.0	---	18.0	18.0	25.0	25.0	24.0	14.0
28	7.0	2.0	3.0	.0	6.0	9.0	16.0	19.0	25.0	20.0	24.0	16.0
29	7.0	3.0	3.0	---	---	9.0	15.0	19.0	25.0	26.0	23.0	16.0
30	7.0	2.0	.0	.0	---	8.0	17.0	20.0	25.0	28.0	23.0	15.0
31	7.0	---	1.0	1.0	---	9.0	---	19.0	---	28.0	23.0	---
MEAN	11.0	7.0	1.0	.5	2.5	8.0	---	14.5	21.5	25.0	25.5	19.5

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT						
28...	1310	2200	7.0	51	94	303
NOV						
12...	1050	2190	7.0	75	73	443
JAN						
20...	1030	1660	.0	11	81	49
FEB						
17...	1015	1200	3.0	46	67	149
MAR						
17...	1030	1370	5.0	753	54	2790
APR						
14...	1130	1270	11.0	195	98	669
MAY						
12...	1030	114	14.0	336	98	103
JUN						
16...	1100	1170	17.0	184	96	581
JUL						
14...	1100	136	22.5	1590	41	584
AUG						
18...	1000	99	23.0	352	97	94
SEP						
15...	1040	150	19.5	148	97	60

10126180 SULPHUR CREEK NEAR CORINNE, UTAH

LOCATION.--Lat 41°34'25", long 112°13'07", in SW¼SE¼NE¼ sec.30, T.10 N., R.3 W., Box Elder County, Hydrologic Unit 16010204, on right bank 100 ft (30 m) downstream from bridge on State Highway 83 and 6 mi (10 km) northwest of Corinne.

DRAINAGE AREA.--15.4 mi^2 (39.9 km^2).

PERIOD OF RECORD.--September 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,228.8 ft (1,288.94 m), unadjusted.

REMARKS.--Records good except those for periods of missing record Dec. 24 to Jan. 7 and Feb. 14 to Apr. 9, which are fair.

AVERAGE DISCHARGE.--10 years, 65.8 ft^3/s (1.863 m^3/s), 47,670 acre-ft/yr (58.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 236 ft^3/s (6.68 m^3/s) Jan. 15, 1980, gage height, 2.98 ft (0.908 m); minimum, 8.6 ft^3/s (0.244 m^3/s) Feb. 8, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 121 ft^3/s (3.43 m^3/s) May 22, gage height, 2.22 ft (0.677 m); minimum, 26 ft^3/s (0.736 m^3/s) Feb. 9, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	74	72	50	62	45	70	55	76	66	72	73
2	104	72	72	50	62	45	65	59	76	72	71	72
3	103	69	72	50	60	44	60	60	77	74	78	67
4	103	67	71	50	50	43	55	62	75	74	70	71
5	102	64	73	52	40	42	50	58	73	81	64	75
6	106	63	72	52	36	41	47	58	74	86	61	79
7	102	61	73	52	28	40	44	58	76	84	65	82
8	102	67	70	52	28	39	41	60	68	82	64	82
9	102	70	65	52	28	38	38	60	59	77	64	82
10	100	69	60	51	39	36	37	62	45	83	66	83
11	96	69	57	51	36	34	37	60	51	84	66	86
12	93	73	55	50	34	32	37	59	66	92	68	83
13	96	71	50	49	34	30	36	58	83	90	68	82
14	89	69	45	49	37	30	35	60	82	79	73	84
15	88	70	40	48	40	30	35	67	80	79	75	82
16	100	70	40	47	43	30	34	80	82	82	75	76
17	100	72	41	47	45	32	33	84	84	88	79	79
18	96	71	42	47	45	32	33	89	82	95	74	79
19	93	70	42	46	45	32	35	96	79	94	70	78
20	92	69	42	47	45	35	35	101	80	95	70	85
21	93	69	42	47	43	40	36	111	79	86	72	90
22	92	71	44	48	41	40	37	118	76	79	68	88
23	89	73	45	49	39	40	38	105	69	80	71	82
24	88	77	45	50	37	40	41	100	66	82	70	84
25	87	72	45	50	35	40	56	101	65	83	68	86
26	85	74	50	50	40	40	68	107	66	80	64	91
27	83	73	50	49	45	50	64	99	66	82	62	94
28	82	73	50	50	45	60	56	85	69	78	68	91
29	82	72	50	53	---	70	54	81	67	76	69	90
30	80	73	50	59	---	70	54	78	66	76	71	87
31	78	---	50	60	---	70	---	77	---	74	72	---
TOTAL	2914	2107	1675	1557	1162	1290	1361	2408	2157	2533	2148	2463
MEAN	94.0	70.2	54.0	50.2	41.5	41.6	45.4	77.7	71.9	81.7	69.3	82.1
MAX	108	77	73	60	62	70	70	118	84	95	79	94
MIN	78	61	40	46	28	30	33	55	45	66	61	67
AC-FT	5780	4180	3320	3090	2300	2560	2700	4780	4280	5020	4260	4890

CAL YR 1980 TOTAL 27503.1 MEAN 75.1 MAX 219 MIN 9.4 AC-FT 54550
WTR YR 1981 TOTAL 23775.0 MEAN 65.1 MAX 118 MIN 28 AC-FT 47160

10127040 SALT SPRING NEAR TREMONTON, UTAH

LOCATION.--Lat 41°42'44", long 112°13'38", in SW¼SE¼, sec.6, T.11 N., R.3 W., Box Elder County, Hydrologic Unit 16010204, 3 mi (5 km) 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 (0.91 m^3/s) July 24-29, 1979; minimum daily, 17 ft^3/s (0.48 m^3/s) Nov. 14-20, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 23 ft^3/s (0.65 m^3/s) many days in Oct., Nov., and Aug.; minimum daily, 18 ft^3/s (0.51 m^3/s) May 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	23	22	21	20	20	20	19	22	22	22	21
2	22	23	22	21	20	20	20	20	22	22	22	21
3	22	23	22	21	20	20	20	19	22	22	22	21
4	23	23	22	21	20	20	20	19	22	22	22	21
5	23	23	22	21	20	20	20	19	22	22	22	21
6	23	23	22	21	20	20	20	20	22	22	21	21
7	23	22	22	21	20	20	20	19	22	22	21	21
8	21	22	22	21	20	20	20	19	22	22	22	21
9	21	21	22	21	20	20	20	18	22	22	21	21
10	22	20	22	21	20	20	20	19	22	22	23	21
11	22	20	22	21	20	20	20	20	22	22	22	21
12	22	21	22	21	20	20	20	21	22	22	23	21
13	22	21	22	21	20	20	20	21	22	22	23	21
14	22	21	22	21	20	20	20	21	22	22	23	21
15	22	21	22	21	20	20	20	21	22	22	23	21
16	22	21	22	21	20	20	20	21	22	22	23	21
17	22	21	22	21	20	20	20	21	22	22	23	21
18	22	21	22	21	20	20	21	21	22	22	23	21
19	22	21	22	21	20	20	21	21	22	22	22	21
20	22	21	22	21	20	20	21	21	22	22	22	21
21	22	21	22	21	20	20	21	21	22	22	22	21
22	22	21	22	21	20	20	21	21	22	22	22	21
23	22	21	22	21	20	20	21	21	22	22	22	21
24	22	21	22	21	20	20	21	21	22	22	22	21
25	22	21	22	21	20	20	21	21	22	22	22	21
26	22	21	22	21	20	20	20	21	22	22	21	21
27	22	21	22	21	20	20	20	21	22	22	21	21
28	22	21	22	21	20	20	20	21	22	22	21	21
29	22	21	22	21	---	20	19	21	22	22	21	21
30	22	21	22	21	---	20	19	21	22	22	21	21
31	22	---	22	21	---	20	---	21	---	22	21	---
TOTAL	684	642	682	651	560	620	606	631	660	682	681	630
MEAN	22.1	21.4	22.0	21.0	20.0	20.0	20.2	20.4	22.0	22.0	22.0	21.0
MAX	23	23	22	21	20	20	21	21	22	22	23	21
MIN	21	20	22	21	20	20	19	18	22	22	21	21
AC-FT	1360	1270	1350	1290	1110	1230	1200	1250	1310	1350	1350	1250

CAL YR 1980 TOTAL 8029 MEAN 21.9 MAX 25 MIN 19 AC-FT 15930
WTR YR 1981 TOTAL 7729 MEAN 21.2 MAX 23 MIN 18 AC-FT 15330

10127050 SALT CREEK BELOW SALT SPRING, NEAR TREMONTON, UTAH

LOCATION.--Lat 41°42'41", long 112°13'36", in SW¼SE¼, sec.6, T.11 N., R.3 W., Box Elder County, Hydrologic Unit 16010204, on right bank 250 ft (76 m) below Salt Spring and 3 mi (5 km) west of Tremonton.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,280 ft (1,305 m) from topographic map.

REMARKS.--Records good except for period of no gage-height record, Nov. 19 to Apr. 8, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 184 ft^3/s (5.21 m^3/s) Feb. 18, 1980, gage height, 6.12 ft (1.865 m); minimum, 19 ft^3/s (0.54 m^3/s) Apr. 29-30, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 123 ft^3/s (3.48 m^3/s) Oct. 14, gage height, 4.37 ft (1.332 m); minimum, 19 ft^3/s (0.54 m^3/s) Apr. 29-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	102	52	27	26	23	20	20	79	28	33	36
2	73	48	40	27	26	23	20	21	83	36	33	35
3	74	36	26	27	25	23	20	20	88	41	33	35
4	74	28	25	27	24	23	20	20	82	40	28	41
5	74	23	25	28	24	23	20	20	77	40	25	40
6	73	23	25	30	24	23	20	20	75	33	24	45
7	64	23	25	27	24	23	20	20	80	37	25	48
8	64	23	25	27	24	23	20	20	76	31	25	48
9	65	22	25	27	24	22	20	20	48	23	23	49
10	66	22	25	27	24	22	20	20	50	35	25	50
11	66	22	25	27	24	22	20	30	48	42	24	53
12	88	22	25	27	24	22	20	25	26	44	25	53
13	107	22	25	27	24	22	20	21	48	52	28	53
14	115	22	25	27	24	22	20	22	62	51	30	52
15	96	22	25	27	24	22	20	77	57	50	30	50
16	96	22	25	27	23	22	20	76	46	60	27	49
17	96	22	26	27	23	22	20	65	54	61	32	49
18	98	30	26	27	24	22	21	66	58	61	33	58
19	98	27	26	27	23	22	21	67	49	54	32	63
20	98	23	27	27	24	22	21	84	46	54	33	63
21	98	23	27	27	24	21	27	100	38	40	32	55
22	100	24	27	27	24	21	79	86	33	35	32	51
23	100	24	29	27	24	21	72	82	30	28	32	62
24	100	39	29	27	24	21	62	82	28	24	31	67
25	101	48	28	27	24	21	47	81	28	38	31	73
26	102	49	28	27	23	21	39	83	28	40	26	76
27	99	49	28	27	23	21	39	84	27	41	23	79
28	100	50	28	27	23	21	38	87	27	35	31	86
29	101	50	28	27	---	21	29	86	27	32	34	91
30	103	51	28	27	---	21	45	79	28	33	34	90
31	103	---	28	27	---	21	---	80	---	33	37	---
TOTAL	2764	991	856	841	671	679	880	1664	1526	1252	911	1700
MEAN	89.2	33.0	27.6	27.1	24.0	21.9	29.3	53.7	50.9	40.4	29.4	56.7
MAX	115	102	52	30	26	23	79	100	88	61	37	91
MIN	64	22	25	27	23	21	20	20	26	23	23	35
AC-FT	5480	1970	1700	1670	1330	1350	1750	3300	3030	2480	1810	3370

CAL YR 1980 TOTAL 16722 MEAN 45.7 MAX 156 MIN 20 AC-FT 33170
WTR YR 1981 TOTAL 14735 MEAN 40.4 MAX 115 MIN 20 AC-FT 29230

10127100 BLACK SLOUGH NEAR BRIGHAM CITY, UTAH

LOCATION.--Lat 41°30'36", long 112°03'34", in SW¼SE¼SW¼ sec.16, T.9 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on left bank 20 ft (6 m) above bridge on Highway 523 and 3 mi (5 km) west of Brigham City.

DRAINAGE AREA.--31.1 mi^2 (80.5 km^2).

PERIOD OF RECORD.--September 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,210 ft (1,283 m) from topographic map.

REMARKS.--Records good except those of no gage-height record Aug. 12 to Sept. 30, which are fair.

AVERAGE DISCHARGE.--10 years, 42.2 ft^3/s (1.195 m^3/s), 30,570 acre-ft/yr (37.7 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 256 ft^3/s (7.25 m^3/s) Mar. 23, 1976, gage height, 3.79 ft (1.155 m) from highwater mark: minimum, 2.7 ft^3/s (0.076 m^3/s) July 14, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 111 ft^3/s (3.14 m^3/s) May 27, gage height, 3.53 ft (1.076 m); minimum, 3.4 ft^3/s (0.096 m^3/s) Aug. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	38	42	40	77	61	86	13	68	9.6	6.9	14
2	39	38	43	40	79	60	77	12	61	8.8	6.3	13
3	38	38	43	40	78	57	73	10	59	7.4	4.8	12
4	37	38	43	40	77	55	67	11	71	7.4	7.6	14
5	36	38	46	47	75	53	59	12	69	7.8	6.8	16
6	36	38	50	47	73	52	53	9.2	56	9.4	6.6	18
7	35	38	50	47	71	50	48	9.4	46	9.7	6.6	20
8	34	37	49	47	68	47	43	9.6	38	7.4	4.8	20
9	34	34	44	46	65	46	38	11	29	7.4	3.7	20
10	33	33	40	45	60	41	34	9.4	23	7.8	4.7	21
11	33	32	38	44	54	38	32	11	22	8.8	5.2	22
12	32	36	35	43	52	37	30	10	21	9.9	6.0	21
13	35	41	34	41	54	36	28	8.8	23	7.8	8.0	20
14	32	43	33	40	56	36	23	9.4	30	7.6	9.0	21
15	35	42	33	39	57	35	21	14	28	7.6	10	20
16	40	39	32	38	59	36	20	27	19	8.1	11	19
17	45	37	32	38	61	38	20	28	18	8.3	12	20
18	43	36	32	39	61	38	17	28	15	9.4	10	20
19	41	35	32	41	61	38	18	29	14	11	9.0	20
20	40	35	32	42	59	42	28	28	14	9.7	8.5	22
21	40	36	32	44	57	55	27	46	12	8.7	10	25
22	40	37	35	44	55	56	36	67	10	7.9	9.0	24
23	39	39	35	43	53	56	37	73	12	8.1	10	22
24	38	41	35	42	51	56	33	71	13	7.2	10	23
25	37	43	35	44	50	55	29	70	11	7.9	9.0	24
26	36	43	40	45	54	53	25	79	11	7.4	8.0	26
27	40	43	40	47	60	64	24	103	11	7.2	7.0	28
28	40	42	40	51	61	80	16	104	12	7.4	10	27
29	40	42	40	58	---	90	14	96	13	7.4	11	26
30	39	42	40	65	---	89	15	86	12	6.9	12	25
31	39	---	40	72	---	89	---	74	---	6.3	13	---
TOTAL	1166	1154	1195	1399	1738	1639	1071	1168.8	841	253.3	256.5	623
MEAN	37.6	38.5	38.5	45.1	62.1	52.9	35.7	37.7	28.0	8.17	8.27	20.8
MAX	45	43	50	72	79	90	86	104	71	11	13	28
MIN	32	32	32	38	50	35	14	8.8	10	6.3	3.7	12
AC-FT	2310	2290	2370	2770	3450	3250	2120	2320	1670	502	509	1240

CAL YR 1980 TOTAL 19506.4 MEAN 53.3 MAX 171 MIN 6.9 AC-FT 38690
WTR YR 1981 TOTAL 12504.6 MEAN 34.3 MAX 104 MIN 3.7 AC-FT 24800

10127110 BEAR RIVER BASIN OUTFLOW ACROSS STATE HIGHWAY 83, NEAR CORINNE, UTAH

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 (11.6 km) west of Corinne.

PERIOD OF RECORD.--October 1971 to current year.

REMARKS.--Records good. 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 (3.2 km) 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.--10 years, 2,018 ft^3/s (57.15 m^3/s), 1,462,000 acre-ft/yr (1.80 km3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 8,440 ft^3/s (239 m^3/s) June 8, 1980; minimum daily, 240 ft^3/s (6.80 m^3/s) Apr. 26, 27, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4,150 ft^3/s (118 m^3/s) May 30; minimum daily, 342 ft^3/s (9.69 m^3/s) Aug. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2200	1820	1980	2420	1010	1680	1660	940	3830	371	360	390
2	2310	2440	1980	2020	1660	1800	1790	659	3490	369	366	388
3	1670	2320	2460	1820	1710	1630	1880	430	3320	373	367	385
4	2110	2430	2310	2020	1700	1090	1690	884	3320	384	361	391
5	1740	2900	2560	2230	1550	1250	1570	613	3270	410	349	400
6	2160	2300	2190	2530	1240	1460	1540	393	3140	420	346	412
7	2080	2060	2460	2530	1030	1510	1530	353	2920	418	348	431
8	1900	2590	1940	2530	927	1510	1520	363	2690	401	345	433
9	2050	2410	2390	1730	824	1400	1270	369	2150	385	342	435
10	1680	1820	2000	1930	1130	1100	444	364	1090	388	347	434
11	1560	2260	1850	2130	1620	1110	504	377	1410	389	361	445
12	1700	2250	2150	2120	1620	868	445	370	1770	407	372	445
13	2000	2090	1840	2120	1620	499	1050	357	1180	404	362	442
14	1800	2300	1540	2120	1390	1110	1360	550	1620	380	369	451
15	2040	2320	1630	2120	1300	985	1420	777	1150	377	363	448
16	2270	2340	1530	1920	721	1160	1440	539	1300	393	367	445
17	2380	2150	1530	1920	1170	1460	1440	489	937	389	377	449
18	2220	2250	1720	2020	1210	1250	1430	577	1380	411	363	456
19	2590	2280	2120	2020	1210	759	1470	727	732	415	356	465
20	2490	2470	2420	2020	1470	1110	1500	654	668	426	356	477
21	2690	2370	2020	1720	1470	1100	1480	1020	482	411	359	478
22	2120	2180	2220	1650	1580	1520	1510	1950	404	398	356	474
23	2430	2140	2120	1570	1580	1430	922	1890	392	398	357	461
24	2310	2220	2520	1540	1540	1230	797	2910	375	387	363	469
25	2420	2650	2720	1660	1450	1010	437	3670	371	383	362	587
26	2300	2340	2530	1690	1230	1060	1010	3810	370	377	354	838
27	2670	2230	2430	1250	1300	1190	1280	3820	368	389	353	833
28	2260	1950	2330	1090	1620	1290	1420	3720	370	393	363	665
29	1990	2440	2220	1710	---	1000	1430	3900	367	386	364	538
30	2530	1970	2120	1740	---	1380	1400	4150	364	379	377	504
31	2730	---	2320	1500	---	1660	---	4100	---	371	389	---
TOTAL	67400	68290	66150	59390	37882	38611	38639	45725	45230	12182	11174	14469
MEAN	2174	2276	2134	1916	1353	1246	1288	1475	1508	393	360	482
MAX	2730	2900	2720	2530	1710	1800	1880	4150	3830	426	389	838
MIN	1560	1820	1530	1090	721	499	437	353	364	369	342	385
AC-FT	133700	135500	131200	117800	75140	76580	76640	90700	89710	24160	22160	28700

CAL YR 1980 TOTAL 949462 MEAN 2594 MAX 8440 MIN 383 AC-FT 1883000
WTR YR 1981 TOTAL 505142 MEAN 1384 MAX 4150 MIN 342 AC-FT 1002000

10128000 SMITH AND MOREHOUSE CREEK NEAR OAKLEY, UTAH

LOCATION.--Lat 40°47'09", long 111°06'42", in NW¼NW¼NW¼ sec.36, T.1 N., R.7 E., Summit County, Hydrologic Unit 16020101, on right bank 2.5 mi (4.0 km) upstream from mouth and 10 mi (16 km) northeast of Oakley.

DRAINAGE AREA.--33.8 mi^2 (87.5 km^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 (2,243 m) from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--7 years, 49.4 ft^3/s (1.399 m^3/s), 35,790 acre-ft/yr (44.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 556 ft^3/s (15.7 m^3/s) June 13, 1978, gage height, 6.19 ft (1.887 m); minimum, 6.8 ft^3/s (0.19 m^3/s) Jan. 3, Apr. 21, Sept. 22, 23, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 446 ft^3/s (12.6 m^3/s) June 8, gage height, 5.02 ft (1.530 m); minimum, 8.8 ft^3/s (0.249 m^3/s) Nov. 1, 1981.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	13	12	11	11	11	12	222	363	62	22	12
2	12	13	12	11	10	11	12	264	339	61	21	11
3	12	13	13	11	10	11	12	276	330	59	18	11
4	12	13	12	12	10	11	11	198	291	57	16	11
5	12	13	13	11	10	11	14	166	327	54	14	13
6	12	14	12	11	10	11	13	148	366	52	14	13
7	11	14	13	13	11	11	13	129	393	50	14	13
8	11	15	13	13	12	11	13	112	397	48	14	13
9	11	14	11	12	11	11	14	105	384	46	13	13
10	11	14	12	11	10	11	17	103	330	43	13	13
11	11	13	12	11	10	11	21	103	258	42	13	14
12	11	19	13	12	11	11	24	100	255	41	13	14
13	12	18	13	12	10	11	28	98	213	40	14	13
14	12	15	12	12	11	11	31	96	174	38	14	13
15	12	14	13	11	11	11	36	99	142	36	14	13
16	12	13	12	13	10	11	37	73	124	35	13	13
17	12	12	12	11	11	11	40	48	117	34	13	13
18	12	12	12	11	11	11	45	53	106	32	13	21
19	12	13	12	12	11	11	52	59	103	32	13	18
20	12	12	12	11	11	11	56	85	103	34	13	12
21	27	13	12	11	11	11	56	87	102	41	13	12
22	24	12	12	11	10	11	56	92	96	37	13	12
23	13	13	12	11	11	11	56	76	89	35	13	11
24	13	13	12	11	11	11	58	99	82	34	13	12
25	14	13	12	11	11	11	66	137	78	32	13	12
26	14	12	12	11	11	11	84	194	76	30	13	12
27	13	13	12	11	11	11	96	227	70	29	12	12
28	12	12	12	11	11	11	101	288	67	28	12	11
29	13	12	11	11	---	12	108	282	66	26	12	11
30	13	12	11	11	---	14	158	300	64	26	12	11
31	13	---	11	11	---	12	---	357	---	24	12	---
TOTAL	403	402	375	353	299	346	1340	4676	5905	1238	430	383
MEAN	13.0	13.4	12.1	11.4	10.7	11.2	44.7	151	197	39.9	13.9	12.8
MAX	27	19	13	13	12	14	158	357	397	62	22	21
MIN	11	12	11	11	10	11	11	48	64	24	12	11
AC-FT	799	797	744	700	593	686	2660	9270	11710	2460	853	760

CAL YR 1980 TOTAL 23303.4 MEAN 63.7 MAX 489 MIN 7.5 AC-FT 46220
WTR YR 1981 TOTAL 16150.0 MEAN 44.2 MAX 397 MIN 10 AC-FT 32030

10128500 WEBER RIVER NEAR OAKLEY, UTAH

LOCATION.--Lat 40°44'14", long 111°14'50", in SE¼NE¼ sec.15, T.1 S., R.6 E., Summit County, Hydrologic Unit 16020101, on right bank 1.5 mi (2.4 km) downstream from South Fork, 2.2 mi (3.5 km) upstream from Weber-Provo diversion canal, and 3.2 mi (5.1 km) northeast of Oakley.

DRAINAGE AREA.--162 mi2 (420 km^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 (2,012 m) from topographic map. Prior to Oct. 25, 1933, staff gage at site 0.2 mi (0.3 km) downstream at different datum. Oct. 25, 1933 to Aug. 29, 1955, water-stage recorder at present site at datum 0.5 ft (0.15 m) 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 (4.19 hm^3).

AVERAGE DISCHARGE.--77 years, 219 ft^3/s (6.20 m^3/s), 158,700 acre-ft/yr (196 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,170 ft^3/s (118 m^3/s) June 13, 1921, gage height, 9.0 ft (2.74 m), site and datum then in use, from rating curve extended above 2,000 ft^3/s (56.6 m^3/s); minimum observed, 15 ft^3/s (0.425 m^3/s) Dec. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft^3/s (34.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
June 1	0045	1450	41.1	7.24	2.207
June 9	0045	*1940	54.9	7.70	2.347

Minimum recorded, 27 ft^3/s (0.764 m^3/s) Jan. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	62	56	53	44	51	59	654	1280	203	104	55
2	57	62	58	54	44	52	64	817	1210	217	99	57
3	56	60	61	53	42	53	66	922	1190	201	92	57
4	55	60	59	54	46	52	60	634	982	183	85	55
5	55	60	64	53	48	51	60	500	1100	172	81	74
6	55	62	59	47	47	51	64	457	1280	165	77	81
7	55	62	59	46	48	52	68	396	1400	162	90	73
8	55	65	56	45	49	51	63	360	1510	156	93	71
9	54	64	52	46	50	50	70	327	1550	149	90	67
10	55	62	60	50	48	51	87	313	1320	145	90	65
11	55	62	60	48	49	51	113	345	1150	139	93	67
12	56	81	63	46	51	51	116	313	1030	133	88	66
13	68	78	62	46	50	50	125	296	900	131	91	62
14	65	66	60	46	49	50	133	292	705	125	90	60
15	71	59	63	52	50	51	167	320	543	120	83	58
16	69	50	65	45	51	53	167	296	452	118	78	57
17	68	52	60	57	52	51	191	279	425	120	75	55
18	68	55	58	54	50	56	222	273	392	112	73	58
19	68	60	58	48	51	53	273	299	376	112	71	59
20	68	64	55	50	52	52	242	357	380	107	69	53
21	77	64	57	48	50	52	225	364	380	114	68	53
22	82	63	58	48	50	50	217	368	357	109	69	53
23	64	60	57	48	51	54	228	331	331	106	66	52
24	62	60	54	50	52	55	267	360	306	104	64	54
25	64	59	56	48	52	55	334	404	279	113	62	57
26	65	61	56	46	54	58	400	627	264	118	61	58
27	65	63	55	50	53	58	404	787	257	114	60	55
28	62	60	55	52	51	56	368	937	240	109	58	52
29	60	58	52	52	---	58	384	945	220	104	57	51
30	63	58	50	50	---	64	493	1020	206	101	56	51
31	63	---	58	46	---	59	---	1210	---	106	54	---
TOTAL	1937	1852	1796	1531	1384	1651	5730	15803	22015	4168	2387	1786
MEAN	62.5	61.7	57.9	49.4	49.4	53.3	191	510	734	134	77.0	59.5
MAX	82	81	65	57	54	64	493	1210	1550	217	104	81
MIN	54	50	50	45	42	50	59	273	206	101	54	51
AC-FT	3840	3670	3560	3040	2750	3270	11370	31350	43670	8270	4730	3540

CAL YR 1980 TOTAL 79124 MEAN 216 MAX 1620 MIN 35 AC-FT 156900
WTR YR 1981 TOTAL 62040 MEAN 170 MAX 1550 MIN 42 AC-FT 123100

10129400 ROCKPORT RESERVOIR NEAR WANSHIP, UTAH

LOCATION.--Lat 40°47'25", long 111°24'12", in NW¼NW¼SE¼ 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 (1.9 km) south of Wanship and 1.2 mi (1.9 km) upstream from Silver Creek.

DRAINAGE AREA.--334 mi^2 (865 km^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 (75.1 hm^3) between elevation 5,930 ft (1,807.5 m) (bottom of outlet tunnel) and 6,037 ft (1,840.1 m) (top of spillway) above mean sea level. Dead storage 1,260 acre-ft (1.55 hm^3) below elevation 5,930 ft (1,807.5 m). 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 (80.2 hm^3) June 24, 27, 28, 1967; minimum observed since storage began, 152 acre-ft (0.19 hm^3) Sept. 10, 15, 1959, elevation, 5,931.2 ft (1,807.46 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 63,920 acre-ft (78.8 hm^3) June 9, elevation, 6,039.8 ft (1,840.93 m); minimum observed, 39,590 acre-ft (48.8 hm^3) Dec. 29; elevation, 6,014.8 ft (1,833.31 m).

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

6,014	38,920	6,030	53,600
6,020	44,110	6,040	64,140

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48630	44560	42070	40430	42340	44380	48340	57680	62490	60430	56130	49680
2	48530	44470	41900	40430	42340	44560	48630	57990	62600	60220	55920	49480
3	48340	44470	41810	40430	42340	44650	48910	58410	62490	60220	55720	49200
4	48160	44290	41810	40520	42340	44830	49100	58940	62380	60220	55510	48910
5	47970	44200	41810	40600	42420	44920	49290	59150	63480	60110	55310	48720
6	47780	44110	41730	40690	42420	45010	49580	59790	63480	60000	55010	48630
7	47590	44020	41730	40780	42510	45100	49870	59900	63700	60000	54800	48530
8	47400	43930	41640	40780	42510	45280	50160	59580	63810	60000	54600	48340
9	47120	43840	41460	40860	42510	45470	50350	59470	63920	59790	54400	48250
10	46940	43750	41380	40950	42510	45560	50540	59470	63810	59790	54100	48160
11	46750	43660	41290	40950	42600	45650	50840	59370	63590	59680	53900	47970
12	46570	43660	41210	41030	42690	45740	51030	59370	63480	59580	53700	47780
13	46380	43660	41030	41120	42690	45830	51230	59470	63040	59470	53500	47590
14	46290	43570	40860	41210	42690	45920	51520	59470	62820	59370	53300	47400
15	46290	43570	40780	41290	42690	46020	51810	59470	62600	59150	53100	47220
16	46290	43480	40780	41380	42780	46110	52210	59580	62380	58940	53000	47030
17	46200	43310	40690	41460	42860	46200	52500	59680	61940	58840	52800	46840
18	46110	43220	40600	41550	42950	46290	52900	59790	61620	58620	52600	46570
19	46020	43130	40520	41640	43130	46380	53400	59680	61400	58520	52400	46380
20	45920	43040	40350	41640	43310	46480	53900	59680	61290	58310	52210	46110
21	45830	43040	40180	41640	43480	46570	54400	59790	61080	58100	52110	45920
22	45740	42860	40180	41730	43570	46660	54800	60110	61080	57890	51910	45740
23	45470	42860	40090	41810	43750	46750	55110	59900	61080	57780	51620	45470
24	45280	42780	40010	41810	43840	46840	55410	59790	60970	57580	51420	45190
25	45190	42690	40010	41900	43930	47030	55620	59790	60860	57370	51230	45010
26	45010	42510	39760	41990	44110	47120	56030	60000	60860	57160	51030	44830
27	44830	42420	39760	41990	44200	47310	56440	60330	60750	57060	50840	44560
28	44740	42340	39760	42160	44290	47400	56750	61190	60650	56850	50640	44380
29	44650	42250	39590	42160	---	47590	57060	61730	60650	56640	50450	44110
30	44650	42160	40010	42160	---	47870	57370	61940	60540	56540	50160	43930
31	44560	---	40350	42250	---	48160	---	62160	---	56330	49870	---
MAX	48630	44560	42070	42250	44290	48160	57370	62160	63920	60430	56130	49680
MIN	44560	42160	39590	40430	42340	44380	48340	57680	60540	56330	49870	43930
(†)	6020.5	6017.8	6015.7	6017.9	6020.2	6024.4	6033.7	6038.2	6036.7	6032.7	6026.2	6019.8
(‡)	-4260	-2400	-1810	+1900	+2040	+3870	+9210	+4790	-1620	-4210	-6460	-5940

CAL YR 1980 . . . . . (‡) +10110
WTR YR 1981 . . . . . (‡) -4890

(†) ELEVATION, IN FEET, AT END OF MONTH
(‡) CHANGE IN CONTENTS, IN ACRE-FEET

10130500 WEBER RIVER NEAR COALVILLE, UTAH

LOCATION.--Lat 40°53'43", long 111°24'04", in NE¼SW¼NE¼ sec.20, T.2 N., R.5 E., Summit County, Hydrologic Unit 16020101, on left bank 1.2 mi (1.9 km) upstream from high-water line of Echo Reservoir, 1.4 mi (2.3 km) south of Coalville, 1.7 mi (2.7 km) upstream from Chalk Creek, and 5.5 mi (8.8 km) downstream from Silver Creek.

DRAINAGE AREA.--435 mi^2 (1,127 km^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 (1,707 m) 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.--50 years, 197 ft^3/s (5.58 m^3/s), 142,700 acre-ft/yr (176 hm^3/yr), since completion of Weber-Provo diversion canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,190 ft^3/s (62.0 m^3/s) May 6, 1952; maximum gage height, 5.08 ft (1.55 m) (present datum) May 29, 1951; minimum, 6 ft^3/s (0.17 m^3/s) Sept. 20, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,360 ft^3/s (38.5 m^3/s) June 9, gage height, 4.41 ft (1.344 m); minimum daily, 22 ft^3/s (0.62 m^3/s) several days in Jan. and Feb.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	162	135	135	28	23	30	30	67	1170	122	139	139
2	158	135	135	28	23	30	31	78	1230	129	137	139
3	155	135	135	28	22	30	31	114	1260	124	139	139
4	158	135	135	29	22	29	31	126	1180	122	137	142
5	158	135	137	26	22	31	28	135	1100	120	139	158
6	160	135	135	26	23	30	31	165	1120	126	137	158
7	165	135	135	26	24	30	28	187	1190	110	139	158
8	165	135	133	26	24	29	25	179	1270	129	139	155
9	162	135	133	25	24	26	23	172	1320	124	144	158
10	162	135	131	25	25	28	24	160	1300	129	146	155
11	167	135	133	25	25	26	33	162	1160	131	144	155
12	170	139	133	25	25	26	31	172	972	131	146	153
13	177	142	131	24	25	26	28	187	852	124	148	153
14	179	139	133	23	25	26	27	177	767	129	146	160
15	195	135	133	22	25	26	36	174	672	129	139	167
16	189	133	133	22	25	26	43	219	496	129	139	162
17	187	135	135	22	29	26	42	259	350	131	139	158
18	182	135	139	22	38	25	41	274	259	133	139	158
19	182	135	139	23	42	29	45	259	219	137	144	158
20	179	135	139	23	45	30	39	262	192	139	139	158
21	179	135	139	23	31	30	35	293	184	135	135	158
22	179	135	142	23	28	30	32	340	174	131	137	160
23	179	135	144	23	29	29	32	333	170	133	139	160
24	179	137	142	23	32	26	31	329	158	135	135	162
25	179	133	137	22	34	25	33	329	148	139	131	160
26	179	135	137	22	35	24	32	354	137	142	133	162
27	160	133	137	22	31	23	28	447	133	144	135	160
28	137	133	139	22	31	24	24	610	126	144	135	160
29	137	133	112	23	---	24	23	767	124	142	135	160
30	135	135	31	23	---	30	26	869	120	131	137	162
31	137	---	29	23	---	30	---	1000	---	139	137	---
TOTAL	5192	4057	3981	747	787	854	943	9199	19553	4063	4308	4687
MEAN	167	135	128	24.1	28.1	27.5	31.4	297	652	131	139	156
MAX	195	142	144	29	45	31	45	1000	1320	144	148	167
MIN	135	133	29	22	22	23	23	67	120	110	131	139
AC-FT	10300	8050	7900	1480	1560	1690	1870	18250	38780	8060	8540	9300

CAL YR 1980 TOTAL 93204 MEAN 255 MAX 1100 MIN 29 AC-FT 184900
WTR YR 1981 TOTAL 58371 MEAN 160 MAX 1320 MIN 22 AC-FT 115800

10131000 CHALK CREEK AT COALVILLE, UTAH

LOCATION.--Lat 40°55'14", long 111°24'03", in NW¼NE¼SE¼ sec.8, T.2 N., R.5 E., Summit County, Hydrologic Unit 16020101, on left bank 100 ft (30 m) downstream from bridge on U.S. Highway 189 in Coalville and 0.3 mi (0.5 km) upstream from mouth.

DRAINAGE AREA.--250 mi^2 (648 km^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 (1,694.87 m) NGVD of 1929. Prior to Feb. 13, 1931, nonrecording gage at site 100 ft (30 m) upstream at different datum. Feb. 13, 1931 to Oct. 15, 1941, water-stage recorder at site 300 ft (91 m) 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 (1.97 hm^3).

AVERAGE DISCHARGE.--54 years, 63.0 ft^3/s (1.784 m^3/s), 45,640 acre-ft/yr (56.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,540 ft^3/s (43.6 m^3/s) Apr. 28, 1952, gage height, 4.67 ft (1.423 m); minimum, less than 1 ft^3/s (0.028 m^3/s) for several days in 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 399 ft^3/s (11.3 m^3/s) May 29, gage height, 1.70 ft (0.518 m), no peak above base discharge, 400 ft^3/s (11.3 m^3/s); minimum, 4.1 ft^3/s (0.116 m^3/s) Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	25	24	20	17	23	42	272	307	48	11	16
2	17	25	23	24	8.5	25	45	292	268	49	11	16
3	17	24	27	20	15	26	60	332	280	53	11	17
4	19	24	25	25	16	21	52	244	259	50	11	17
5	19	23	26	20	15	23	38	216	252	48	11	22
6	19	24	24	18	17	23	52	222	240	46	11	34
7	20	23	22	9.7	17	26	56	207	224	40	12	40
8	19	24	11	13	15	23	47	185	204	28	12	40
9	18	26	12	15	18	22	42	169	176	28	13	37
10	17	24	15	18	14	25	66	156	160	37	16	39
11	17	24	17	17	14	22	101	193	137	30	17	38
12	18	29	18	14	19	25	100	178	121	27	18	36
13	22	38	17	14	17	25	90	152	113	30	18	34
14	25	29	17	14	20	25	83	142	109	30	23	29
15	34	18	19	16	20	26	121	176	114	25	23	26
16	40	14	19	15	20	30	151	190	109	22	22	24
17	35	16	20	18	26	29	150	203	92	21	19	23
18	33	20	22	18	27	27	159	206	93	21	13	23
19	30	22	22	15	31	29	179	217	89	14	13	22
20	30	24	21	17	58	27	160	242	79	16	14	21
21	26	21	22	15	31	29	139	244	68	19	14	20
22	26	26	25	15	25	25	129	246	66	18	14	19
23	24	23	26	15	29	29	126	211	62	14	17	19
24	21	25	21	20	30	30	158	209	60	14	19	19
25	23	13	25	14	34	29	197	213	59	14	18	17
26	24	13	26	14	34	31	251	281	54	14	14	18
27	26	13	26	21	29	37	251	297	49	13	16	18
28	24	21	24	20	23	34	213	315	47	12	16	17
29	21	24	20	19	---	33	204	352	46	12	14	15
30	24	28	18	18	---	47	241	322	47	11	14	15
31	25	---	21	15	---	43	---	308	---	11	16	---
TOTAL	731	683	655	526.7	639.5	869	3703	7192	3984	815	471	731
MEAN	23.6	22.8	21.1	17.0	22.8	28.0	123	232	133	26.3	15.2	24.4
MAX	40	38	27	25	58	47	251	352	307	53	23	40
MIN	17	13	11	9.7	8.5	21	38	142	46	11	11	15
AC-FT	1450	1350	1300	1040	1270	1720	7340	14270	7900	1620	934	1450

CAL YR 1980 TOTAL 29844.4 MEAN 81.5 MAX 574 MIN 8.4 AC-FT 59200
WTR YR 1981 TOTAL 21000.2 MEAN 57.5 MAX 352 MIN 8.5 AC-FT 41650

10131500 ECHO RESERVOIR AT ECHO, UTAH

LOCATION.--Lat 40°57'50", long 111°25'55", in NE¼NW¼SW¼ 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 (1.8 km) southeast of Echo.

DRAINAGE AREA.--716 mi^2 (1,880 km^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 (91.2 hm^3) between elevation 5,450 ft (1,661.2 m) (bottom of outlet tunnel) and 5,560 ft (1,694.7 m) (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, 75,280 acre-ft (92.9 hm^3) June 8, 1964; 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, 74,680 acre-ft (92.1 hm^3) June 8, 9; elevation, 5,560.5 ft (1,694.84 m); minimum, 15,950 acre-ft (19.7 hm^3) Sept. 29, 30; elevation 5,506.5 ft (1,678.38 m).

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

5,506	15,600	5,530	36,100	5,550	59,880
5,510	18,480	5,535	41,440	5,555	66,740
5,515	22,390	5,540	47,200	5,560	73,940
5,520	26,620	5,545	53,360	5,561	75,420
5,525	31,180				

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34480	38400	46370	53740	55410	58150	61630	70590	74540	63680	39360	21580
2	34280	38720	46610	53740	55410	58280	61760	70730	74390	62580	38720	21110
3	34180	39040	46840	53740	55410	58410	61900	71160	74540	61760	38080	20640
4	33990	39360	47080	53740	55540	58550	62040	71460	74540	60950	37130	20170
5	33790	39680	47440	53740	55670	58550	62170	71600	74240	60280	36310	19700
6	33590	39900	47800	53740	55670	58680	62310	71890	74240	59610	35490	19470
7	33400	40120	48160	53740	55670	58810	62580	71890	74390	58680	34580	19320
8	33100	40330	48520	53870	55920	58940	62720	71890	74680	57760	33790	19160
9	32910	40560	48890	53870	55920	59080	62860	71890	74680	56840	33000	19240
10	32710	40780	49130	53870	56060	59210	62990	71890	74540	55920	32230	19320
11	32520	41000	49380	54000	56190	59340	63130	71600	74240	55150	31560	19240
12	32320	41220	49500	54120	56190	59340	63400	71460	74240	54380	31080	19240
13	32230	41440	49620	54120	56190	59340	63540	71310	73940	53490	30710	19160
14	32230	41660	49740	54120	56450	59480	63680	71020	73940	52730	30240	19090
15	32420	41880	49990	54250	56450	59610	63950	70730	73940	51970	29680	18940
16	32620	42220	50240	54380	56710	59610	64510	70730	74090	51100	29040	18790
17	33000	42550	50480	54380	56710	59610	64780	71020	73940	50240	28490	18640
18	33400	42900	50730	54380	56710	59740	65200	71460	73650	49380	27860	18410
19	33790	43240	50980	54510	56840	59880	65620	72040	73210	48520	27240	18110
20	34180	43580	51230	54640	56970	60010	66040	72470	72770	47680	26530	17810
21	34580	43810	51480	54640	56970	60150	66460	72920	72180	46840	26010	17520
22	34980	44040	51720	54640	57230	60280	66740	73650	71460	46010	25490	17230
23	35390	44270	51970	54760	57230	60420	67020	73650	70730	45190	25230	16940
24	35800	44500	52220	54890	57490	60550	67300	73940	70150	44500	24970	16650
25	36200	44730	52480	54890	57620	60680	67730	73940	69290	43810	24720	16510
26	36520	44960	52730	54890	57760	60820	68150	74090	68440	43120	24300	16370
27	36820	45190	52980	55020	57890	60950	68580	74240	67300	42440	23790	16230
28	37130	45430	53230	55150	58020	61090	69150	74240	66320	41880	23290	16090
29	37450	45780	53360	55150	---	61220	69720	74390	65340	41440	22880	15950
30	37760	46010	53490	55150	---	61220	70150	74540	64510	40780	22470	15950
31	38080	---	53740	55280	---	61490	---	74240	---	40010	22070	---
MAX	38080	46010	53740	55280	58020	61490	70150	74540	74680	63680	39360	21580
MIN	32230	38400	46370	53740	55410	58150	61630	70590	64510	40010	22070	15950
(†)	5531.9	5539.0	5545.3	5546.5	5548.6	5551.2	5557.4	5560.2	5553.4	5533.7	5514.6	5506.5
(‡)	+3400	+7930	+7730	+1540	+2740	+3470	+8660	+4090	-9730	-24500	-17940	-6120

CAL YR 1980 . . . . . (‡) +22370
WTR YR 1981 . . . . . (‡) -18730

(†) ELEVATION, IN FEET, AT END OF MONTH
(‡) CHANGE IN CONTENTS, IN ACRE-FEET

10132490 LOST CREEK RESERVOIR NEAR CROYDON, UTAH

LOCATION.--Lat 41°11'05", long 111°23'59", in NW¼SE¼NE¼ sec.8, T.5 N., R.5 E., Morgan County, Hydrologic Unit 16020101, 1.9 mi (3.1 km) upstream from Hell Canyon and 8.1 mi (13.0 km) northeast of Croydon.

DRAINAGE AREA.--123 mi^2 (319 km^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 (24.7 hm^3) at elevation 6,005.0 ft (1,830.32 m) above mean sea level. Dead storage, 2,500 acre-ft (3.08 hm^3) between elevation 5,835.0 ft (1,778.51 m) (streambed at dam axis) and 5,912.3 ft (1,802.07 m) (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, 20,820 acre-ft (25.7 hm^3), May 12, 13, 18, 1969, June 7, 1972, May 19, 20, 1974; elevation, 6,007.2 ft (1,830.99 m). Minimum since original filling of reservoir, 8,160 acre-ft (10.1 hm^3) Oct. 10, 14, 1977, elevation, 5,965.3 ft (1,818.22 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 18,820 acre-ft (23.2 hm^3) June 8; elevation, 6,001.7 ft (1,829.32 m); minimum contents observed, 12,160 acre-ft (15.0 hm^3) Sept. 30; elevation, 5,980.9 ft (1,822.98 m).

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

5,980	11,910	5,995	16,510
5,985	13,350	6,002	18,920
5,990	14,890		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	18780	---	---	13500
2	15470	---	15400	---	16150	16480	---	---	---	18010	---	---
3	---	15150	---	---	---	---	---	---	---	---	15530	---
4	---	---	---	---	---	---	---	18320	18780	---	---	---
5	---	---	---	15850	---	---	---	---	---	---	---	---
6	15470	---	---	---	---	---	17420	---	---	17800	15270	---
7	---	---	---	---	---	---	---	18220	---	---	---	13230
8	---	---	15500	---	---	---	---	---	18820	17660	---	---
9	15370	---	---	---	16210	16580	---	---	---	17620	---	---
10	---	15180	---	---	---	---	---	---	---	---	14950	---
11	---	---	---	---	---	---	---	18150	18780	---	---	---
12	---	---	---	15920	---	---	---	---	---	---	---	---
13	15270	---	---	---	---	---	17450	---	---	17210	14740	---
14	---	---	---	---	---	---	---	18080	---	---	---	12940
15	---	---	15560	---	---	---	---	---	18680	---	---	---
16	---	---	---	---	16280	16710	---	---	---	16940	---	---
17	---	15210	---	---	---	---	---	---	---	---	14460	---
18	---	---	---	---	---	---	---	18040	18600	---	---	---
19	---	---	---	15980	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	17800	---	---	16580	14240	---
21	---	---	---	---	---	---	---	18010	---	---	---	12620
22	15240	---	15660	---	---	---	---	---	18570	---	---	---
23	---	---	---	---	16380	16810	---	---	---	16340	---	---
24	---	15240	---	---	---	---	---	---	---	---	13960	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	16050	---	---	---	18290	18360	---	---	---
27	15210	---	---	---	---	---	18360	---	---	16050	---	---
28	---	---	---	---	16440	---	---	---	---	---	13710	12280
29	---	---	15750	---	---	---	18460	18430	18150	---	---	---
30	---	15370	---	---	---	---	18500	---	18080	---	---	12160
31	15180	---	15790	16110	---	17420	---	18570	---	15750	13530	---
(†)	5990.9	5991.5	5992.8	5993.8	5994.8	5947.7	6000.8	6001.8	5999.6	5992.7	5985.6	5980.9
(‡)	-350	+190	+420	+320	+330	+980	+1080	+70	-490	-2330	-2220	**-1370**

CAL YR 1980 . . . . . (‡) +2970
WTR YR 1871 . . . . . (‡) -3370

(†) ELEVATION, IN FEET, AT END OF MONTH
(‡) CHANGE IN CONTENTS, IN ACRE-FEET

10134000 EAST CANYON RESERVOIR NEAR MORGAN, UTAH

LOCATION.--Lat 40°55'14", long 111°35'59", in NE¼SE¼NW¼ 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 (14.5 km) southeast of Morgan.

DRAINAGE AREA.--144 mi^2 (373 km^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 (150 m) 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 (18-m) rockfill dam, capacity, 3,850 acre-ft (4.75 hm^3), which was raised 25 ft (7.6 m) in 1900, capacity, 9,000 acre-ft (11.1 hm^3), raised 12 ft (3.7 m) more in 1902, capacity, 14,000 acre-ft (17.3 hm^3), was replaced in 1917 by concrete dam which formed a reservoir having a capacity of 25,790 acre-ft (31.8 hm^3) (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 (59.3 hm^3) between elevation 5,577.0 ft (1,699.87 m) and 5,705.0 ft (1,738.88 m). Dead storage, 3,090 acre-ft (3.81 hm^3). 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, 49,010 acre-ft (60.4 hm^3) June 21, 1975; no contents at times in 1931, 1934, 1937, 1946, 1954, 1961, 1965, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 48,180 acre-ft (59.4 hm^3) June 20, elevation, 5,705.1 ft (1,738.91 m); minimum observed, 27,450 acre-ft (33.8 hm^3) Sept. 26, elevation 5,669.8 ft (1,728.16 m).

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

5,669	27,060	5,690	38,470
5,670	27,550	5,700	44,760
5,680	32,730	5,706	48,800

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	31980	---	---	---	---	---	---	---	---	38950	---
2	---	---	---	---	---	---	---	43270	---	---	---	---
3	---	---	---	35070	---	---	---	---	---	---	---	---
4	31340	---	---	---	---	---	40180	---	---	46750	---	---
5	---	---	---	---	---	---	---	---	---	---	---	28150
6	---	---	33720	---	---	---	---	---	47230	---	---	---
7	---	---	---	---	36520	38230	---	---	---	---	---	---
8	---	32350	---	---	---	---	---	---	---	---	36630	---
9	---	---	---	---	---	---	---	43520	---	---	---	---
10	---	---	---	35360	---	---	---	---	---	---	---	---
11	31120	---	---	---	---	---	40670	---	---	45220	---	---
12	---	---	---	---	---	---	---	---	---	---	---	27900
13	---	---	34050	---	---	---	---	---	48110	---	---	---
14	---	---	---	---	36810	38590	---	---	---	---	---	---
15	---	32730	---	---	---	---	---	---	---	---	34450	---
16	---	---	---	---	---	---	---	44040	---	---	---	---
17	31230	---	---	35650	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	41300	---	---	43330	---	---
19	---	---	---	---	---	---	---	---	---	---	---	27700
20	---	---	34390	---	---	---	---	---	48180	---	---	---
21	---	---	---	---	37330	39070	---	---	---	---	---	---
22	---	33000	---	---	---	---	---	44890	---	---	32080	---
23	---	---	---	---	---	---	---	45090	---	---	---	---
24	31660	---	---	35940	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	42180	---	---	41420	---	---
26	---	---	---	---	---	---	---	---	---	---	---	27450
27	---	---	34680	---	---	---	---	---	47970	---	---	---
28	---	---	---	---	37700	39560	---	---	---	---	---	---
29	---	33220	---	---	---	---	---	---	---	---	29660	---
30	---	a33290	---	---	---	---	a42960	46150	a47450	---	---	a27340
31	a31930	---	a34900	36280	---	a39830	---	a46320	---	a38600	a29230	---
(†)	---	---	---	5686.3	5688.7	---	---	---	---	---	---	---
(‡)	+500	+1360	+1610	+1380	+1420	+2130	+3130	+3360	+1130	-8850	-9370	-1890

CAL YR 1980 . . . . . (‡) +7260
WTR YR 1981 . . . . . (‡) -4090

(†) ELEVATION, IN FEET, AT END OF MONTH
(‡) CHANGE IN CONTENTS, IN ACRE-FEET
(a) NO GAGE-HEIGHT READINGS: CONTENTS INTERPOLATED

10134500 EAST CANYON CREEK NEAR MORGAN, UTAH

LOCATION.--Lat 40°55'21", long 111°36'23", in SW¼NW¼NW¼ sec.10, T.2 N., R.3 E., Morgan County, Hydrologic Unit 16020102, on right bank 2,500 ft (762 m) downstream from East Canyon Dam, 2.4 mi (3.9 km) upstream from Sheep Canyon, and 8,7 mi (14.0 km) southeast of Morgan.

DRAINAGE AREA.--144 mi^2 (373 km^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 (1,664 m) 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.--50 years, 53.1 ft^3/s (1.504 m^3/s), 38,470 acre-ft/yr (47.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 872 ft^3/s (24.7 m^3/s) May 4, 1952, gage height, 3.49 ft (1.064 m); minimum daily, 0.2 ft^3/s (0.006 m^3/s) Dec. 19, 29, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 181 ft^3/s (5.13 m^3/s) Aug. 16; minimum daily, 6.6 ft^3/s (0.19 m^3/s) many days during Nov. Dec., and Jan.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	7.3	6.6	7.3	7.3	8.0	8.7	9.4	11	99	175	118
2	38	7.3	6.6	7.3	7.3	8.0	8.7	9.4	11	101	175	117
3	38	7.3	6.6	7.3	7.3	8.0	8.7	9.4	11	100	175	117
4	38	7.3	6.6	7.3	7.3	8.0	8.7	9.4	10	120	174	116
5	38	7.3	6.6	7.3	7.3	8.0	8.7	9.4	11	131	174	97
6	38	6.6	6.6	7.3	7.3	8.0	8.7	10	11	132	173	75
7	38	6.6	6.6	7.4	7.3	8.0	8.7	10	10	132	173	33
8	38	6.6	6.6	7.3	7.3	8.0	8.7	10	10	131	173	33
9	38	6.6	6.6	7.3	7.3	8.0	8.7	18	10	132	173	32
10	38	6.6	6.6	7.3	7.3	8.0	8.7	22	10	131	172	32
11	32	6.6	6.6	7.3	7.3	8.0	8.7	22	10	147	171	32
12	31	6.9	6.6	7.3	7.3	8.0	8.7	22	10	155	171	32
13	26	6.6	6.6	7.3	7.3	8.0	8.7	22	11	154	171	32
14	13	6.6	6.6	7.3	7.3	8.0	8.7	22	11	154	169	32
15	13	6.6	6.6	7.3	7.3	8.0	8.7	22	19	154	177	32
16	13	6.6	6.6	7.3	7.3	8.0	8.7	22	30	153	181	32
17	10	6.6	6.6	7.3	7.3	8.0	8.7	22	35	153	180	32
18	7.3	6.6	7.2	7.3	7.3	8.0	8.7	22	36	153	180	32
19	7.3	6.6	7.1	7.3	7.3	8.0	8.7	22	38	153	179	32
20	7.3	6.6	7.3	7.3	7.3	8.0	8.7	22	72	153	179	32
21	7.3	6.6	7.3	7.3	7.3	8.0	8.7	22	72	153	179	32
22	7.3	6.6	7.1	7.3	7.3	8.0	8.7	15	64	153	178	32
23	7.3	6.6	6.9	7.3	7.3	8.0	8.7	12	61	153	179	32
24	7.3	6.6	6.6	6.9	7.3	8.0	9.4	11	61	152	178	31
25	7.3	6.6	6.6	6.6	7.3	8.0	8.7	12	61	170	177	31
26	7.3	6.6	6.6	6.6	8.0	8.1	9.2	12	61	178	177	30
27	7.3	6.6	6.6	6.6	8.0	8.6	9.4	10	88	177	177	30
28	7.3	6.6	6.6	6.6	7.6	8.1	9.4	10	101	177	177	30
29	7.3	6.6	6.6	6.6	---	8.1	9.4	10	101	176	156	30
30	7.3	6.6	6.6	6.8	---	8.7	9.4	10	101	175	146	30
31	7.3	---	6.6	7.3	---	8.7	---	11	---	175	140	---
TOTAL	620.2	201.8	207.9	222.0	206.1	250.3	265.0	472.0	1148	4577	5359	1398
MEAN	20.0	6.73	6.71	7.16	7.36	8.07	8.83	15.2	38.3	148	173	46.6
MAX	38	7.3	7.3	7.4	8.0	8.7	9.4	22	101	178	181	118
MIN	7.3	6.6	6.6	6.6	7.3	8.0	8.7	9.4	10	99	140	30
AC-FT	1230	400	412	440	409	496	526	936	2280	9080	10630	2770

CAL YR 1980 TOTAL 26114.0 MEAN 71.3 MAX 255 MIN 4.3 AC-FT 51800
WTR YR 1981 TOTAL 14927.3 MEAN 40.9 MAX 181 MIN 6.6 AC-FT 29610

10136500 WEBER RIVER AT GATEWAY, UTAH

LOCATION.--Lat 41°08'13", long 111°49'54", in NE¼SW¼SW¼ sec.27, T.5 N., R.1 E., Morgan County, Hydrologic Unit 16020102, on left bank 400 ft (122 m) downstream from tailrace of Gateway powerplant, 500 ft (152 m) upstream from Union Pacific Railroad bridge, 1,200 ft (366 m) downstream from Strawberry Creek, and 3,200 ft (975 m) east of section house at Gateway.

DRAINAGE AREA.--1,627 mi^2 (4,214 km^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 (1,463 m) by barometer. Oct. 13, 1889 to July 11, 1903, nonrecording gage at site 1.2 mi (1.9 km) downstream at different datum. June 22, 1919 to Oct. 22, 1929, water-stage recorder at site 900 ft (274 m) upstream at different datum. Oct. 22, 1929 to Nov. 27, 1964, at sites 1,300 ft (396 m) 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 throught tailrace of Gateway hydroelectric powerplant. Flow regulated by Rockport, Echo, Lost Creek, and East Canyon Reservoirs (see station 10129400, 10131500, 10132490, and 10134000).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 7,980 ft^3/s (226 m^3/s) May 31, 1896; minimum observed, 33 ft^3/s (0.93 m^3/s) Feb. 3, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,570 ft^3/s (72.8 m^3/s) May 21, gage height, 5.41 ft (1.649 m); minimum, 50 ft^3/s (1.42 m^3/s) Feb. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	284	116	111	118	76	102	210	246	1780	432	404	305
2	257	122	107	118	70	99	216	337	1870	495	395	282
3	256	118	114	116	64	116	216	408	1960	470	400	290
4	254	113	125	119	69	122	200	427	1960	437	391	290
5	269	111	139	112	71	109	187	394	1830	427	368	322
6	262	112	124	112	81	103	198	447	1590	432	368	382
7	268	111	115	112	82	102	191	521	1500	456	391	351
8	294	109	103	104	75	101	187	510	1540	427	391	317
9	306	108	98	86	80	96	177	483	1630	423	391	267
10	310	109	96	81	78	98	187	480	1630	427	414	260
11	320	109	99	88	69	103	213	560	1530	427	427	256
12	313	113	105	87	76	96	231	560	1310	423	377	222
13	313	125	101	84	79	100	242	531	1130	418	351	215
14	287	117	106	84	79	105	238	526	1020	377	326	215
15	315	103	114	88	80	103	248	555	914	368	330	235
16	324	99	112	82	82	112	269	607	791	400	359	218
17	198	104	113	87	101	125	271	560	636	414	381	238
18	168	104	115	83	122	115	286	505	566	423	384	238
19	158	106	117	81	117	112	403	481	490	437	388	238
20	152	110	117	81	138	153	403	501	456	442	388	252
21	148	103	118	80	109	162	381	1200	495	423	349	263
22	141	106	121	79	98	152	391	1530	485	404	332	260
23	143	109	121	75	98	179	347	1320	432	395	326	246
24	142	116	116	84	105	196	369	1110	386	346	309	249
25	133	107	118	78	115	176	442	1090	432	442	293	274
26	144	107	122	75	142	186	457	1220	427	456	309	263
27	142	104	120	88	127	187	419	1430	432	461	326	253
28	124	102	119	95	113	180	369	1590	437	386	313	235
29	112	107	118	87	---	181	297	1650	427	360	305	215
30	107	110	118	81	---	231	239	1730	418	423	297	157
31	102	---	117	78	---	213	---	1790	---	409	301	---
TOTAL	6746	3290	3539	2823	2596	4215	8484	25299	30504	13060	11084	7808
MEAN	218	110	114	91.1	92.7	136	283	816	1017	421	358	260
MAX	324	125	139	119	142	231	457	1790	1960	495	427	382
MIN	102	99	96	75	64	96	177	246	386	346	293	157
AC-FT	13380	6530	7020	5600	5150	8360	16830	50180	60500	25900	21990	15490

CAL YR 1980 TOTAL 259464 MEAN 709 MAX 3080 MIN 81 AC-FT 514600
WTR YR 1981 TOTAL 119448 MEAN 327 MAX 1960 MIN 64 AC-FT 236900

10136500 WEBER RIVER AT GATEWAY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1958 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1958 to September 1959.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT 18...	1200	168	550	8.3	7.0	8.5	11.7	240	19	--	66	18
NOV 28...	1445	96	--	7.9	-.5	2.0	13.4	270	47	--	74	20
DEC 23...	1000	127	540	7.8	2.5	4.5	10.8	240	66	--	65	18
JAN 17...	1015	86	570	7.9	.5	3.0	12.0	270	42	--	76	20
MAR 07...	0930	102	550	7.8	8.0	7.5	10.6	250	--	--	69	19
APR 11...	1000	207	400	8.4	14.0	10.0	9.6	170	--	21	47	13
MAY 23...	1145	1290	340	8.0	17.0	12.5	13.2	170	--	22	49	12
JUN 22...	1415	466	480	8.1	28.5	13.5	--	220	--	27	62	15
JUL 27...	1715	486	470	7.9	25.0	17.0	--	220	--	28	61	16
AUG 18...	1430	395	490	8.1	30.0	18.5	--	230	--	36	64	16
SEP 01...	1500	290	500	8.3	25.5	18.0	--	230	--	36	64	16

DATE	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)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT 18...	24	18	.7	3.2	220	35	35	.1	9.6	325	.44	147
NOV 28...	24	16	.6	3.1	220	40	250	.3	8.1	554	.75	144
DEC 23...	21	16	.6	2.6	170	46	34	.2	9.7	302	.41	104
JAN 17...	25	17	.7	2.6	230	43	28	.2	12	349	.47	80.6
MAR 07...	28	19	.8	2.5	210	42	38	.1	12	340	.46	93.6
APR 11...	17	18	.6	1.9	150	31	23	.2	11	236	.32	132
MAY 23...	12	13	.4	1.7	150	20	14	.1	9.3	210	.29	731
JUN 22...	15	13	.4	2.2	190	39	22	.1	6.5	277	.38	349
JUL 27...	15	13	.5	2.7	190	30	22	.1	7.5	269	.37	353
AUG 18...	16	13	.5	2.3	190	37	18	.2	6.9	275	.37	293
SEP 01...	17	14	.5	2.3	190	35	22	.2	6.4	278	.38	218

10136500 WEBER RIVER AT GATEWAY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2)	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)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT								
18...	--	--	--	--	.39	.000	.00	--
NOV								
28...	--	--	--	--	.47	.000	.00	--
DEC								
23...	--	--	--	--	.76	.020	.06	--
JAN								
17...	--	--	--	--	.79	.020	.06	--
MAR								
07...	--	--	--	--	.61	.010	.03	1.9
APR								
11...	--	--	--	--	.30	.030	.09	1.4
MAY								
23...	--	--	--	--	.21	--	--	1.3
JUN								
22...	.11	.50	.010	.03	.12	.040	.12	1.6
JUL								
27...	--	--	--	--	.19	.020	.06	--
AUG								
18...	--	--	--	--	.10	.020	.06	--
SEP								
01...	--	--	--	--	.08	.050	.15	--

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				
18...	1200	20	<10	20
DEC				
23...	1000	30	<10	10
JAN				
17...	1015	40	<10	10
MAR				
07...	0930	40	20	20
APR				
11...	1000	10	190	30
MAY				
23...	1145	20	290	40
JUN				
22...	1415	20	<10	20
JUL				
27...	1715	30	<10	14
AUG				
18...	1430	40	<10	13
SEP				
01...	1500	30	<10	2

10137500 SOUTH FORK OGDEN RIVER NEAR HUNTSVILLE, UTAH

LOCATION.--Lat 41°16'07", long 111°40'24", in SE¼NE¼SW¼ sec.12, T.6 N., R.2 E., Weber County, Hydrologic Unit 16020102, on right bank 0.5 mi (0.8 km) downstream from Magpie Creek,Creek, 0.5 mi (0.8 km) upstream from Huntsville Mountain Canal, 5.0 mi (8.0 km) downstream from Causey Dam, and 5.0 mi (8.0 km) east of Huntsville.

DRAINAGE AREA.--137 mi^2 (355 km^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 (1,582 m) by barometer. Prior to Aug. 14, 1934, at site 300 ft (91 m) upstream at different datum.

REMARKS.--Records good. One small diversion above station. Flow regulated by Causey Reservoir since Jan. 4, 1966.

AVERAGE DISCHARGE.--60 years, 111 ft^3/s (3.14 m^3/s), 80,420 acre-ft/yr (99.2 hm^3/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,890 ft^3/s (53.5 m^3/s) May 3, 1952, gage height, 5.98 ft (1.823 m); minimum, 9 ft^3/s (0.26 m^3/s) Feb. 28, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 286 ft^3/s (8.10 m^3/s) May 22, gage height, 2.57 ft (0.783 m); minimum, 17 ft^3/s (0.48 m^3/s) Oct. 30, 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	31	31	33	33	38	44	132	158	96	85	36
2	60	31	31	33	30	39	44	134	148	96	87	32
3	60	31	31	33	32	39	44	132	148	86	86	33
4	60	31	33	33	31	38	43	115	132	78	86	35
5	59	31	34	33	32	38	42	106	122	78	86	36
6	59	31	32	33	33	38	42	106	113	78	85	37
7	59	31	31	33	32	38	42	103	106	84	85	38
8	59	31	30	33	31	38	42	99	101	96	85	38
9	59	31	30	33	33	38	43	94	95	99	84	38
10	59	31	29	33	33	38	46	90	90	97	80	39
11	59	31	30	33	32	38	51	97	86	98	76	38
12	60	32	31	33	34	38	51	94	84	99	76	38
13	61	32	30	33	34	38	51	92	81	92	76	38
14	61	31	32	33	34	38	53	91	78	87	74	38
15	63	31	32	33	34	38	53	99	75	86	74	38
16	62	30	32	33	35	39	56	101	72	87	73	37
17	61	30	33	32	37	38	58	100	69	87	69	37
18	61	30	33	31	38	38	60	98	67	84	64	37
19	61	30	33	30	38	38	67	98	65	81	64	37
20	60	30	33	30	38	41	59	103	64	81	65	36
21	57	29	33	30	37	40	64	149	62	82	75	38
22	48	30	32	30	37	40	60	267	80	84	84	42
23	42	30	32	30	38	40	59	264	94	85	82	42
24	42	30	32	31	38	40	63	246	93	86	64	43
25	42	29	33	31	39	40	66	231	92	86	48	40
26	43	30	35	31	41	41	64	233	92	86	44	35
27	43	30	35	33	39	42	60	219	92	86	42	35
28	35	30	33	33	38	42	117	221	92	85	45	35
29	18	29	33	34	---	43	129	209	94	85	47	35
30	17	29	33	34	---	44	134	191	96	85	48	35
31	19	---	33	34	---	44	---	174	---	85	44	---
TOTAL	1609	913	995	1002	981	1222	1807	4488	2841	2705	2183	1116
MEAN	51.9	30.4	32.1	32.3	35.0	39.4	60.2	145	94.7	87.3	70.4	37.2
MAX	63	32	35	34	41	44	134	267	158	99	87	43
MIN	17	29	29	30	30	38	42	90	62	78	42	32
AC-FT.	3190	1810	1970	1990	1950	2420	3580	8900	5640	5370	4330	2210

CAL YR 1980	TOTAL	61277	MEAN	167	MAX	1040	MIN 17	AC-FT	121500
WTR YR 1981	TOTAL	21862	MEAN	59.9	MAX	267	MIN 17	AC-FT	43360

10139300 WHEELER CREEK NEAR HUNTSVILLE, UTAH

LOCATION.--Lat 41°15'14", long 111°50'32", in SW¼NW¼SE¼ sec.16, T.6 N., R.1 E., Weber County, Hydrologic Unit 16020102, on right bank 150 ft (46 m) upstream from mouth, 150 ft (46 m) downstream from culvert under State Highway 39, 250 ft (76 m) downstream from Pine View Dam on Ogden River, 3.8 mi (6.1 km) west of Huntsville, and 7.2 mi (11.6 km) east of Ogden.

DRAINAGE AREA.--11.1 mi^2 (28.7 km^2).

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,800 ft (1,463 m) from topographic map.

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

AVERAGE DISCHARGE.--23 years, 9.40 ft^3/s (0.277 m^3/s), 6,810 acre-ft/yr (8.40 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 533 ft^3/s (15.1 m^3/s) May 21, 1981, gage height, 3.95 ft (1.204 m) from indirect measurement; no flow Dec. 5, 1962, July 25, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 40 ft^3/s (1.13 m^3/s), 533 ft^3/s (15.1 m^3/s) May 21, 1981, gage height, 3.95 ft (1.204 m) from indirect measurement; minimum daily, 0.60 ft^3/s (0.017 m^3/s) Feb. 13-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.1	1.0	.99	.68	1.3	5.0	15	34	4.4	2.1	1.1
2	1.6	1.2	1.0	.99	.64	1.2	7.5	17	35	4.3	2.0	1.0
3	1.6	1.1	1.1	.97	.64	1.4	7.6	19	30	3.9	1.9	1.0
4	1.6	1.1	1.5	.99	.64	1.3	5.0	15	27	3.7	1.9	1.0
5	1.6	1.1	1.5	.90	.69	1.2	4.1	13	27	3.5	2.0	1.2
6	1.5	1.1	1.2	.86	.69	1.2	5.2	13	24	3.3	1.9	1.2
7	1.5	1.2	1.0	.87	.68	1.3	6.3	13	23	3.0	1.8	1.1
8	1.5	1.2	.88	.90	.66	1.3	5.9	12	23	2.9	1.8	1.0
9	1.4	1.1	.84	.93	.68	1.2	7.4	12	23	2.9	1.9	.99
10	1.3	1.0	.86	.91	.64	1.2	10	11	22	2.7	1.9	.86
11	1.3	1.1	.82	.94	.68	1.2	16	12	18	2.6	1.9	.95
12	1.4	1.2	.84	.91	.68	1.2	13	11	18	2.4	1.9	1.1
13	1.5	1.2	.86	.93	.60	1.2	11	11	18	2.2	1.9	1.0
14	1.6	1.0	.82	.86	.60	1.4	11	10	17	2.2	1.8	1.1
15	1.6	.98	.80	.94	.60	1.6	10	13	15	2.2	1.8	1.2
16	1.5	1.0	.84	.89	.64	2.0	10	13	15	2.2	1.7	1.1
17	1.4	.98	.83	.93	.92	1.7	10	13	15	2.0	1.7	1.1
18	1.2	.93	.92	.74	1.2	1.3	9.7	12	13	1.9	1.6	1.1
19	1.2	.95	.99	.65	1.1	1.5	13	12	12	1.1	1.5	1.1
20	1.2	.96	.99	.63	1.4	3.4	11	13	12	1.7	1.5	1.1
21	1.2	1.0	1.0	.63	.87	2.9	15	107	11	2.9	1.5	1.1
22	1.2	1.1	1.1	.67	.79	2.5	16	92	11	2.8	1.4	1.1
23	1.1	1.0	1.1	.66	.84	3.8	11	82	9.1	2.7	1.4	1.1
24	1.0	1.2	1.0	.75	1.1	4.8	10	69	7.0	2.7	1.3	.95
25	1.1	.75	1.2	.68	1.6	4.7	12	65	6.3	2.5	1.3	1.0
26	1.2	.90	1.2	.68	2.4	5.7	13	67	5.9	2.7	1.3	1.0
27	1.2	.88	1.1	.68	1.5	5.2	14	65	5.9	2.6	1.2	.97
28	1.1	.90	.99	.63	1.4	4.5	13	58	5.5	2.4	1.1	.94
29	1.0	1.0	.95	.64	---	5.6	12	50	5.1	2.2	1.1	.89
30	1.2	1.0	.95	.69	---	8.0	13	43	4.7	2.1	1.1	.91
31	1.2	---	.97	.64	---	5.1	---	39	---	2.2	1.1	---
TOTAL	41.6	31.23	31.15	25.08	25.56	81.9	307.7	997	492.5	82.9	50.3	31.26
MEAN	1.34	1.04	1.00	.81	.91	2.64	10.3	32.2	16.4	2.67	1.62	1.04
MAX	1.6	1.2	1.5	.99	2.4	8.0	16	107	35	4.4	2.1	1.2
MIN	1.0	.75	.80	.63	.60	1.2	4.1	10	4.7	1.1	1.1	.86
AC-FT	83	62	62	50	51	162	610	1980	977	164	100	62

CAL YR 1980 TOTAL 5490.25 MEAN 15.0 MAX 161 MIN .48 AC-FT 10890
WTR YR 1981 TOTAL 2198.18 MEAN 6.02 MAX 107 MIN .60 AC-FT 4360

10141000 WEBER RIVER NEAR PLAIN CITY, UTAH

LOCATION.--Lat 41°16'42", long 112°05'28", in NW¼NW¼NE¼ 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 (2 km) downstream from Fourmile Creek, 1.5 mi (2.4 km) south of Plain City, and 6 mi (10 km) upstream from mouth.

DRAINAGE AREA.--2,081 mi^2 (5,390 km^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 (1,282.324 m) 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 (15 m) 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.--16 years (1966-81), 467 ft^3/s (13.23 m^3/s), 337,600 acre-ft/yr (416 hm^3/yr) since completion of storage reservoirs listed in Remarks paragraph.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft^3/s (286 m^3/s) May 6, 1952, gage height, 19.01 ft (5.794 m); practically no flow during latter part of several summers since 1915.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,290 ft^3/s (64.9 m^3/s) May 22, gage height, 11.69 ft (3.563 m); minimum daily, 48 ft^3/s (1.359 m^3/s) June 74.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	260	388	170	113	75	196	66	1530	62	57	68
2	132	262	342	160	105	68	188	56	1540	80	57	66
3	126	217	241	150	89	122	182	57	1810	115	56	66
4	119	208	383	145	87	101	173	109	1720	97	61	68
5	117	204	482	144	90	88	153	95	1630	77	62	71
6	128	249	412	128	99	78	141	75	1350	73	61	88
7	121	256	393	139	107	71	149	61	1180	76	60	79
8	136	260	384	128	99	68	137	69	1130	72	61	88
9	149	259	366	121	96	92	139	69	1170	66	62	93
10	146	261	364	110	96	68	145	74	1160	65	63	96
11	143	263	362	103	84	63	143	82	1130	62	110	108
12	151	307	368	103	86	64	173	96	845	63	74	98
13	183	296	368	104	102	63	165	87	696	64	75	93
14	198	273	366	104	100	62	159	71	540	59	66	104
15	296	263	370	102	103	62	152	126	483	52	65	99
16	461	251	375	103	106	65	149	221	396	62	62	92
17	356	275	372	100	115	101	142	263	231	69	60	85
18	294	370	377	102	126	84	119	212	126	74	69	85
19	270	372	373	98	78	73	215	182	82	70	80	82
20	270	382	370	96	73	96	284	193	70	75	92	80
21	284	379	370	81	74	88	268	611	65	85	82	81
22	275	386	370	79	68	121	305	1930	67	59	73	83
23	279	386	370	89	84	114	250	1490	56	57	71	82
24	276	454	370	98	73	145	209	1220	50	50	71	81
25	275	403	370	101	84	153	210	1130	51	56	61	81
26	291	388	370	90	150	128	233	1260	53	81	55	90
27	311	383	370	91	126	251	201	1430	48	102	52	92
28	274	374	370	109	93	295	151	1530	52	91	58	86
29	266	379	370	121	---	210	107	1660	57	64	64	81
30	263	383	370	130	---	226	84	1610	59	54	67	78
31	262	---	370	127	---	211	---	1600	---	60	66	---
TOTAL	6982	9403	11526	3526	2706	3506	5322	17735	19377	2192	2073	2544
MEAN	225	313	372	114	96.6	113	177	572	646	70.7	66.9	84.8
MAX	461	454	482	170	150	295	305	1930	1810	115	110	108
MIN	117	204	241	79	68	62	84	56	48	50	52	66
AC-FT	13850	18650	22860	6990	5370	6950	10560	35180	38430	4350	4110	5050

CAL YR 1980 TOTAL 274891 MEAN 751 MAX 3490 MIN 38 AC-FT 545200
WTR YR 1981 TOTAL 86892 MEAN 238 MAX 1930 MIN 48 AC-FT 172400

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 current year, once-daily.
WATER TEMPERATURES: October 1975 to current year, once-daily.
SEDIMENT DATA: October 1976 to current year, monthly.

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.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,070 micromhos Feb. 13; minimum, 225 micromhos Dec. 5.
WATER TEMPERATURES: Maximum, 29.5°C Aug. 19; minimum daily 1.5°C Dec. 12, 13.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	NITRO-GEN DIS-SOLVED (MG/L AS N)	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT										
21...	1018	277	680	8.1	12.5	10.5	1.5	8.2	1.5	--
NOV										
25...	1117	407	480	8.0	2.0	5.0	20	10.4	1.5	--
DEC										
19...	1040	371	490	8.0	.0	3.0	3.7	10.7	1.6	--
JAN										
22...	1030	74	860	7.8	-1.5	5.5	2.7	9.3	5.8	--
FEB										
25...	1046	83	930	7.9	15.0	9.0	1.0	8.2	4.9	--
APR										
09...	1210	136	770	7.8	17.5	11.5	20	8.0	2.6	--
28...	1100	160	380	7.3	19.0	11.0	20	8.2	1.6	580
MAY										
27...	1230	1390	400	7.2	19.0	11.5	50	9.8	1.1	--
JUL										
01...	1130	59	900	7.8	27.5	22.5	18	8.0	1.8	--
AUG										
13...	1100	77	870	7.7	23.5	20.0	5.0	6.4	1.2	--
31...	1100	64	1000	7.7	23.0	20.0	2.4	6.3	2.4	--
SEP										
09...	1130	93	860	7.7	23.5	18.5	12	6.7	2.0	--

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 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
OCT										
21...	110	40	230	20	--	59	20	39	26	1.1
NOV										
25...	8	240	190	8	--	52	14	26	23	.8
DEC										
19...	10	9	210	17	--	58	15	23	19	.7
JAN										
22...	<1	4	280	29	--	72	24	76	36	2.0
FEB										
25...	<1	<1	290	29	--	71	27	84	38	2.2
APR										
09...	K16	K10	250	--	34	62	24	54	31	1.5
28...	180	79	140	--	23	39	11	23	25	.8
MAY										
27...	K13	K15	180	--	26	49	13	17	17	.6
JUL										
01...	K10	250	260	--	38	62	25	91	42	2.5
AUG										
13...	57	300	240	--	28	59	22	74	39	2.3
31...	50	100	250	--	35	57	25	100	46	3.0
SEP										
09...	68	130	270	--	39	63	27	85	40	2.5

K Results based on colony count outside the acceptable range (non-ideal colony count).

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	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...	5.4	210	32	52	.2	7.7	337	344	.46	252
NOV										
25...	4.7	180	24	39	.2	6.3	275	277	.37	302
DEC										
19...	4.1	190	25	34	.2	6.7	298	284	.41	299
JAN										
22...	8.1	250	42	95	.3	12	512	495	.70	102
FEB										
25...	9.1	260	48	120	.3	13	538	542	.73	121
APR										
09...	6.2	220	40	72	.2	11	415	409	.56	152
28...	3.2	120	27	29	.2	9.2	227	216	.31	98.1
MAY										
27...	2.4	150	27	22	.1	8.5	236	231	.32	886
JUL										
01...	9.5	220	44	140	.2	8.2	521	516	.71	83.0
AUG										
13...	9.0	210	24	120	.2	8.4	454	445	.62	94.4
31...	11	210	38	160	.2	9.4	537	532	.73	92.8
SEP										
09...	10	230	26	130	.2	13	477	496	.65	120

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	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)
OCT									
21...	.040	.040	.05	.05	1.1	.84	1.10	.22	.88
NOV									
25...	.150	.080	.18	.10	.72	.73	.87	.06	.81
DEC									
19...	.160	.150	.19	.19	.94	.58	1.10	.37	.73
JAN									
22...	.770	.790	.93	1.0	1.5	1.5	2.30	.00	2.3
FEB									
25...	.710	.700	--	.90	1.7	1.3	2.40	.40	2.0
APR									
09...	.410	.380	--	.49	1.7	.52	2.10	1.2	.90
28...	.240	.100	--	.13	1.2	1.0	1.40	.30	1.1
MAY									
27...	.290	.160	--	.21	.62	.61	.91	.14	.77
JUL									
01...	.660	.270	--	.35	.54	.71	1.20	.22	.98
AUG									
13...	.230	.190	--	.24	1.2	.55	1.40	.66	.74
31...	.350	.350	--	.45	1.2	1.1	1.50	.10	1.4
SEP									
09...	<.070	.080	--	.10	--	1.2	1.30	.00	1.3

DATE	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (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)	POTASSIUM 40 DISSOLVED (PCI/L AS K40)
OCT								
21...	1.8	.70	.64	8.0	.640	2.0	.660	--
NOV								
25...	1.5	.63	.65	6.6	.450	1.4	.430	--
DEC								
19...	2.0	.89	.89	8.8	.430	1.3	.400	--
JAN								
22...	5.7	3.4	3.5	25	1.90	5.8	1.40	6.0
FEB								
25...	5.3	2.9	2.9	23	2.40	7.4	2.30	6.8
APR								
09...	3.9	1.8	1.7	17	1.20	3.7	1.00	4.6
28...	1.9	.54	.52	8.6	.430	1.3	.270	2.4
MAY								
27...	1.2	.33	.34	5.5	.410	1.3	.180	1.8
JUL								
01...	2.0	.80	.79	8.9	.740	2.3	.670	7.1
AUG								
13...	1.9	.47	.48	8.3	.700	2.1	.640	--
31...	2.5	1.0	1.0	11	.860	2.6	.810	--
SEP								
09...	2.1	.75	.71	9.1	.860	2.6	.820	--

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)
NOV											
25...	1117	2	1	1	100	10	90	1	--	<1	0
FEB											
25...	1046	2	0	2	300	200	100	0	0	1	10
MAY											
27...	1230	1	0	2	100	10	90	1	--	<1	10
AUG											
31...	1100	5	0	5	100	0	140	1	--	<1	10

DATE	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	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)
NOV											
25...	0	0	0	<3	7	5	2	470	--	<10	8
FEB											
25...	10	0	0	<3	12	5	7	490	450	40	3
MAY											
27...	10	0	2	<3	9	7	2	3000	3000	20	6
AUG											
31...	0	10	3	<3	6	3	3	490	470	21	6

DATE	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	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)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)
NOV										
25...	8	0	60	40	20	.1	.1	.0	4	4
FEB										
25...	0	3	110	10	100	.2	.1	.1	5	0
MAY										
27...	3	3	150	150	1	.1	.1	.0	3	1
AUG										
31...	0	6	80	40	42	.1	.1	.0	4	3

DATE	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)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV										
25...	0	0	0	0	0	0	0	20	10	10
FEB										
25...	8	0	0	0	0	0	0	30	0	30
MAY										
27...	2	0	0	0	0	0	0	40	40	5
AUG										
31...	1	0	0	0	0	0	0	30	20	15

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
OCT				
21...	1018	12	--	--
NOV				
25...	1117	--	6.7	1.2
DEC				
19...	1040	48	--	--
FEB				
25...	1046	--	34	1.5
APR				
09...	1210	9.1	--	--
28...	1100	14	--	--
MAY				
27...	1230	--	5.9	4.7
JUL				
01...	1130	14	--	--
AUG				
13...	1100	5.1	--	--
31...	1100	--	6.0	.1
SEP				
09...	1130	6.8	--	--

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	NOV 25,80		APR 9,81		MAY 27,81		JUL 1,81	
TIME	1117		1210		1200		1300	
TOTAL CELLS/ML	1000		4200		2100		16000	
DIVERSITY: DIVISION	0.5		1.3		0.5		0.7	
.CLASS	0.5		1.3		0.5		0.7	
..ORDER	1.4		1.7		0.8		0.8	
...FAMILY	2.1		2.9		2.7		1.0	
....GENUS	2.4		3.0		3.0		1.1	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHLOROCOCCACEAE								
....SCHROEDERIA	13	1	--	-	--	-	410	2
...DICTYOSPHAERIACEAE								
....DICTYOSPHAERIUM	--	-	--	-	20	1	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	93	2	40	2	410	2
....KIRCHNERIELLA	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	120	6	--	-
...SCENEDESMACEAE								
....CRUCIGENIA	100	10	--	-	--	-	--	-
....SCENEDESMUS	--	-	--	-	--	-	680	4
....TETRASTRUM	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CARTERIA	--	-	--	-	--	-	--	-
....CHLAMYDOMONAS	--	-	--	-	--	-	140	1
...PHACOTACEAE								
....PHACOTUS	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...CHAETOCERACEAE								
....CHAETOCEROS	--	-	93	2	--	-	--	-
...COSCINODISCACEAE								
....CYCLOTELLA	51	5	400	9	120	6	14000a	83
....MELOSIRA	410a	40	--	-	--	-	270	2
....STEPHANODISCUS	13	1	--	-	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	230	6	--	-	--	-
....COCCONEIS	--	-	47	1	60	3	--	-
....RHOICOSPHENIA	--	-	47	1	80	4	--	-
...CYMBELLACEAE								
....CYMBELLA	--	-	70	2	80	4	--	-
...DIATOMACEAE								
....DIATOMA	39	4	70	2	160	8	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	210a	20	47	1	--	-	--	-
....FRAGILARIA	--	-	120	3	--	-	--	-
....SYNEDRA	--	-	--	-	--	-	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	23	1	40	2	--	-
...NAVICULACEAE								
....NAVICULA	170a	16	580	14	860a	41	--	-
...NITZSCHIACEAE								
....HANTZSCHIA	--	-	--	-	20	1	--	-
....NITZSCHIA	26	2	470	11	160	8	270	2
...SURIRELLACEAE								
....CYMATOPLEURA	--	-	--	-	40	2	--	-
....SURIRELLA	--	-	140	3	300	14	--	-
.CHRYSOPHYCEAE								
..OCHROMONADALES								
...OCHROMONADACEAE								
....OCHROMONAS	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	--	-	270	2
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	20	1	270	2

See footnote at end of table.

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

ORGANISM	NOV 25,80 1117 CELLS /ML	PER-CENT	APR 9,81 1210 CELLS /ML	PER-CENT	MAY 27,81 1200 CELLS /ML	PER-CENT	JUL 1,81 1300 CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....AGMENELLUM	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	--	-	--	-	--	-
..NOSTOCALES								
...HAMMATOIDEACEAE								
....RAPHIDIOPSIS	--	-	--	-	--	-	--	-
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	--	-
....APHANIZOMENON	--	-	--	-	--	-	--	-
..OSCILLATORIALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	1600a	39	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....PHACUS	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	160	4	--	-	--	-

	AUG 13,81 1100	AUG 31,81 1100	SEP 8,81 0000
TOTAL CELLS/ML	11000	7100	3200
DIVERSITY: DIVISION	1.7	1.5	1.0
.CLASS	1.8	1.5	1.0
..ORDER	2.9	2.0	1.8
...FAMILY	3.2	2.4	1.9
....GENUS	3.7	3.2	2.0

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...CHLOROCOCCACEAE						
....SCHROEDERIA	380	3	--	-	--	-
...DICTYOSPHAERIACEAE						
....DICTYOSPHAERIUM	--	-	--	-	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	130	1	170	2	70	2
....KIRCHNERIELLA	--	-	--	-	b	0
....OOCYSTIS	--	-	790	11	28	1
....SELENASTRUM	--	-	120	2	--	-
...SCENEDESMACEAE						
....CRUCIGENIA	250	2	--	-	56	2
....SCENEDESMUS	500	4	750	10	--	-
....TETRASTRUM	500	4	--	-	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CARTERIA	--	-	120	2	--	-
....CHLAMYDOMONAS	1600	14	460	6	170	5
...PHACOTACEAE						
....PHACOTUS	--	-	120	2	28	1
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...CHAETOCERACEAE						
....CHAETOCEROS	--	-	--	-	--	-
...COSCINODISCACEAE						
....CYCLOTELLA	1200	10	1600a	23	200	6
....MELOSIRA	1300	11	2000a	27	140	4
....STEPHANODISCUS	--	-	--	-	--	-
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	--	-
....COCCONEIS	--	-	--	-	--	-
....RHOICOSPHENIA	--	-	--	-	--	-
...CYMBELLACEAE						
....CYMBELLA	63	1	--	-	--	-
...DIATOMACEAE						
....DIATOMA	--	-	--	-	--	-
...FRAGILARIACEAE						
....ASTERIONELLA	--	-	--	-	--	-

See footnote at end of table.

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE TIME	AUG 14,81 1100		AUG 31,81 1100		SEP 8,81 0000	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
....FRAGILARIA	--	-	--	-	--	-
....SYNEDRA	63	1	--	-	--	-
...GOMPHONEMATACEAE						
....GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
....NAVICULA	310	3	170	2	56	2
...NITZSCHIACEAE						
....HANTZSCHIA	--	-	--	-	--	-
....NITZSCHIA	500	4	83	1	b	0
...SURIRELLACEAE						
....CYMATOPLEURA	--	-	--	-	--	-
....SURIRELLA	--	-	83	1	--	-
.CHRYSOPHYCEAE						
..OCHROMONADALES						
...OCHROMONADACEAE						
....OCHROMONAS	500	4	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
.CRYPTOPHYCEAE						
..CRYPTOMONADALES						
...CRYPTOCHRYSIDACEAE						
....CHROOMONAS	--	-	--	-	--	-
...CRYPTOMONADACEAE						
....CRYPTOMONAS	63	1	41	1	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....AGMENELLUM	1000	9	--	-	--	-
....ANACYSTIS	1400	12	41	1	130	4
..NOSTOCALES						
...HAMMATOIDEACEAE						
....RAPHIDIOPSIS	--	-	330	5	--	-
...NOSTOCACEAE						
....ANABAENA	--	-	83	1	--	-
....APHANIZOMENON	440	4	--	-	2100a	66
..OSCILLATORIALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	1300	11	--	-	210	6
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....PHACUS	--	-	120	2	--	-
....TRACHELOMONAS	63	1	83	1	--	-

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organism, may not have been counted: Less than 1/2 percent.

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	630	630	310	520	760	920	770	560		900	---	---
2	650	610	395	640	990	950	790	---		---	---	---
3	700	---	560	560	---	800	800	610		---	---	---
4	710	660	420	---	840	910	830	455		---	---	---
5	700	670	225	710	---	910	830	620		---	---	---
6	680	610	300	680	820	960	780	750		---	---	---
7	---	610	---	690	660	---	790	---		---	---	---
8	670	600	465	750	730	---	800	---		---	---	---
9	640	600	420	780	820	1000	770	610		---	---	860
10	630	---	320	780	830	980	---	750		---	---	---
11	650	600	480	810	880	---	740	720		---	---	---
12	650	510	400	760	---	1010	620	590		---	---	---
13	---	520	---	590	1070	---	640	640		---	870	---
14	600	395	470	810	870	1020	660	---		---	---	---
15	490	---	---	860	850	1010	670	500		---	---	---
16	550	520	485	790	---	---	---	540		---	---	---
17	550	230	---	810	---	---	620	560		---	---	---
18	590	435	---	730	930	---	640	600		---	---	---
19	630	425	420	---	940	930	465	600		---	---	---
20	630	440	530	850	---	880	430	570		---	---	---
21	620	445	405	850	---	910	475	---		---	---	---
22	600	---	485	770	970	760	430	375		---	---	---
23	610	---	430	---	920	810	460	410		---	---	---
24	610	280	530	---	940	---	470	420		---	---	---
25	610	480	---	660	970	---	420	---		---	---	---
26	590	445	430	720	660	700	330	---		---	---	---
27	610	300	530	740	830	---	340	400		---	---	---
28	---	320	520	---	---	740	400	430		---	---	---
29	600	370	440	680	---	850	485	---		---	---	---
30	620	395	---	---	---	750	870	---		---	---	---
31	590	---	---	---	---	810	---	430		---	1000	---
MEAN	622	484	---	---	---	---	619	---		---	---	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17.5	16.0	16.5	10.0	8.5	9.5	5.5	4.5	5.0	---	---	---
2	17.0	15.5	16.0	---	---	---	6.0	4.5	5.0	---	---	---
3	17.0	15.5	16.0	---	---	---	7.0	6.0	6.5	---	---	---
4	17.0	15.5	16.0	---	---	---	7.0	6.0	6.5	---	---	---
5	17.0	15.5	16.0	---	---	---	6.0	4.5	5.5	---	---	---
6	16.5	15.0	16.0	---	---	---	5.0	4.5	4.5	---	---	---
7	16.5	15.5	16.0	---	---	---	4.5	3.5	4.0	---	---	---
8	16.5	15.0	16.0	---	---	---	4.0	2.5	3.0	---	---	---
9	16.5	14.5	15.5	---	---	---	3.5	2.5	3.0	---	---	---
10	15.5	13.5	14.5	---	---	---	3.5	2.0	2.5	---	---	---
11	15.5	14.0	14.5	---	---	---	3.5	2.0	2.5	---	---	---
12	15.5	13.5	14.0	---	---	---	3.0	1.5	2.5	---	---	---
13	14.5	12.5	13.5	---	---	---	2.5	1.5	2.0	---	---	---
14	14.5	12.0	13.5	8.0	7.0	7.5	3.0	2.0	2.5	---	---	---
15	12.0	9.5	11.0	7.0	5.5	6.0	3.5	2.5	3.0	---	---	---
16	10.0	9.0	9.5	5.5	4.5	5.0	3.0	2.5	3.0	---	---	---
17	11.5	9.5	10.5	5.5	4.0	5.0	3.5	2.5	3.0	---	---	---
18	12.5	10.5	11.5	6.0	4.5	5.0	3.5	3.0	3.5	---	---	---
19	12.5	10.5	11.5	6.0	4.5	5.5	3.5	3.0	3.0	---	---	---
20	12.5	10.5	11.5	6.5	4.5	5.5	4.0	3.0	3.5	---	---	---
21	12.5	10.5	11.5	6.0	4.5	5.5	3.5	3.0	3.5	---	---	---
22	12.0	10.5	11.0	6.5	6.0	6.0	4.5	3.5	4.0	---	---	---
23	10.5	9.0	9.5	7.0	5.5	6.5	5.5	4.5	5.0	5.5	4.5	5.0
24	10.0	8.0	9.0	6.5	5.0	5.5	5.0	4.0	4.5	5.5	4.0	4.5
25	10.0	8.0	9.0	5.5	4.0	5.0	5.0	4.5	5.0	5.0	4.0	4.5
26	9.5	8.5	9.0	5.5	4.0	5.0	6.0	4.5	5.0	5.5	4.0	4.5
27	9.5	8.0	8.5	5.0	4.0	4.5	5.5	4.5	5.0	6.0	5.0	5.5
28	9.5	7.5	8.5	5.0	3.5	4.5	5.0	4.0	4.5	6.0	5.5	5.5
29	9.0	7.5	8.5	5.0	4.0	4.5	5.0	4.0	4.5	6.5	5.0	6.0
30	9.5	7.5	8.5	5.5	5.0	5.0	---	---	---	6.0	4.0	5.0
31	10.5	8.0	9.0	---	---	---	---	---	---	4.5	3.0	4.0
MONTH	**17.5**	**7.5**	**12.5**	---	---	---	**7.0**	**1.5**	**4.0**	---	---	---

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	5.5	4.0	4.5	9.5	7.5	8.5	10.5	8.0	9.5	19.5	16.5	18.0
2	4.5	3.0	4.0	9.0	8.0	8.5	11.0	9.0	10.0	19.5	16.0	18.0
3	4.0	3.0	3.5	9.0	6.5	8.0	10.0	8.0	9.0	16.0	14.5	15.5
4	4.0	3.0	3.5	10.0	7.0	8.5	9.5	6.5	8.0	15.0	12.0	13.5
5	4.5	2.5	3.5	9.5	8.0	8.5	10.5	7.0	9.0	14.5	13.5	14.0
6	5.5	3.0	4.0	10.5	8.0	9.5	12.0	9.0	10.5	15.0	13.0	13.5
7	5.0	3.0	4.5	11.5	8.5	10.0	12.0	9.0	10.5	13.0	11.0	12.5
8	5.5	3.0	4.0	11.0	9.0	10.0	12.5	9.0	10.5	14.0	9.0	11.5
9	5.5	4.0	4.5	12.0	9.0	10.0	14.0	10.5	12.0	14.0	11.5	13.0
10	5.0	2.5	3.5	10.5	8.5	9.5	14.0	11.0	12.5	17.0	13.5	15.0
11	3.5	2.5	2.5	11.0	8.5	10.0	15.0	12.0	13.5	15.0	14.0	14.5
12	6.5	4.0	5.0	11.5	9.0	10.0	14.5	11.5	13.0	14.0	12.0	13.0
13	6.5	4.0	5.5	11.5	9.5	10.5	13.5	11.0	12.5	14.5	12.0	13.0
14	6.5	6.0	6.0	12.0	9.0	10.5	14.0	11.0	12.5	16.5	13.5	15.0
15	7.0	5.0	6.0	12.5	10.0	11.0	13.5	12.0	12.5	16.0	13.5	14.5
16	7.5	5.5	6.5	11.5	9.5	10.5	14.0	12.0	13.0	13.5	10.5	11.5
17	9.0	7.0	7.5	9.0	7.5	8.5	15.5	12.5	14.0	12.5	9.5	10.5
18	8.0	6.5	7.5	9.5	6.5	8.0	15.0	13.5	14.5	14.5	11.0	12.5
19	9.0	6.5	7.5	10.5	8.5	9.5	14.5	11.5	12.5	14.5	13.5	14.0
20	8.5	7.0	8.0	10.0	8.0	9.5	12.0	9.5	10.5	14.5	13.0	13.5
21	7.0	5.0	6.0	10.5	7.5	8.5	11.5	10.0	10.5	13.0	10.0	11.0
22	8.5	6.0	7.0	11.0	8.0	9.5	12.0	9.0	10.5	10.5	9.0	9.5
23	8.5	6.5	7.5	11.5	9.5	10.5	14.5	10.5	12.0	13.0	10.0	11.0
24	10.0	6.5	8.0	12.0	9.5	11.0	15.5	12.5	14.0	13.5	11.5	12.5
25	10.0	8.0	9.0	11.0	9.5	10.5	16.5	13.5	15.0	13.5	13.0	13.5
26	9.5	7.5	8.5	10.5	7.5	9.0	15.5	13.5	14.5	13.5	12.0	12.5
27	9.0	7.0	8.0	7.5	5.5	6.0	14.0	12.0	13.0	13.5	11.5	12.5
28	9.5	7.5	8.5	10.0	5.5	7.5	13.5	11.0	12.0	14.0	12.0	13.0
29	---	---	---	12.0	8.5	10.0	15.0	12.0	13.5	14.5	11.5	13.0
30	---	---	---	10.0	8.0	8.5	17.5	14.5	16.0	15.0	13.0	14.0
31	---	---	---	9.5	6.5	8.0	---	---	---	15.5	13.5	14.5
MONTH	10.0	2.5	6.0	12.5	5.5	9.5	17.5	6.5	12.0	19.5	9.0	13.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	15.0	12.5	14.0	22.5	22.0	22.5	25.0	22.0	23.0	22.0	20.0	21.0
2	---	---	---	24.0	22.0	23.0	24.5	22.0	23.0	21.5	20.0	20.5
3	---	---	---	23.5	21.5	22.0	24.5	22.0	23.0	22.0	20.0	21.0
4	15.5	12.5	14.0	23.5	21.5	22.5	24.5	22.0	23.0	22.5	20.0	21.0
5	16.5	14.0	15.0	24.0	22.0	23.0	24.5	22.0	23.0	21.0	20.5	20.5
6	16.5	15.0	16.0	24.5	23.0	23.5	24.5	22.0	23.0	20.0	19.0	19.5
7	16.5	15.0	16.0	24.0	21.5	23.0	24.5	22.0	23.0	19.0	18.5	18.5
8	18.0	15.5	17.0	23.5	21.0	22.0	25.0	22.0	23.0	19.5	18.5	19.0
9	17.5	15.5	16.5	23.5	21.0	22.0	24.5	22.5	23.0	19.0	19.0	19.0
10	17.0	15.0	16.0	24.0	21.5	22.5	23.5	21.5	22.5	20.0	18.5	19.0
11	18.0	15.5	16.5	24.5	22.0	23.0	22.5	20.5	21.5	20.0	19.0	19.5
12	18.0	16.5	17.0	24.5	22.5	23.5	22.0	20.5	21.0	20.5	19.0	20.0
13	16.5	14.5	15.0	25.0	23.0	23.5	22.0	21.0	21.5	21.0	19.0	20.0
14	14.0	13.0	13.5	25.0	22.5	23.5	23.0	20.5	21.5	20.5	19.0	20.0
15	15.5	12.0	14.0	27.5	22.0	24.5	23.5	21.0	22.0	20.0	19.0	19.5
16	17.5	13.5	15.5	25.0	22.5	23.5	24.0	21.5	22.5	20.0	18.5	19.5
17	18.0	14.5	16.0	23.0	22.5	22.5	24.5	21.5	22.5	20.0	18.5	19.5
18	18.5	15.5	17.0	23.0	22.0	22.5	24.5	22.0	23.0	20.0	18.5	19.5
19	19.0	17.0	18.5	23.5	22.0	23.0	29.5	22.0	25.0	20.0	18.5	19.0
20	22.5	18.5	20.0	23.5	22.0	22.5	24.5	22.0	23.0	19.5	18.0	18.5
21	22.5	19.5	21.0	24.0	22.0	23.0	24.0	22.5	23.0	19.0	17.5	18.0
22	23.0	19.5	21.0	24.5	22.0	23.0	24.0	22.0	23.0	18.0	17.0	17.5
23	23.0	20.0	21.5	24.0	21.5	22.5	24.0	22.0	23.0	17.5	16.0	17.0
24	24.5	20.5	22.0	23.0	21.5	22.5	24.0	22.0	23.0	17.5	16.5	17.0
25	24.5	20.5	22.5	23.5	21.5	22.5	24.5	22.0	23.0	17.0	16.5	17.0
26	24.5	22.0	23.0	23.5	21.5	22.0	25.0	22.5	23.5	16.5	14.5	15.5
27	24.5	22.5	23.0	22.5	21.0	21.5	25.0	22.0	23.0	15.0	13.5	14.5
28	24.5	22.0	23.0	23.0	21.0	22.0	24.5	22.0	23.0	15.5	14.5	15.0
29	24.0	21.5	22.5	24.0	21.0	22.0	24.0	22.0	23.0	16.0	15.0	15.5
30	24.0	21.5	22.5	24.5	22.0	22.5	24.0	22.0	22.5	16.0	14.5	15.0
31	---	---	---	24.5	22.0	23.0	23.0	21.0	22.0	---	---	---
MONTH	24.5	12.0	18.0	27.5	21.0	22.5	29.5	20.5	22.5	22.5	13.5	18.5

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT						
21...	1018	277	10.5	38	56	28
NOV						
25...	1117	407	5.0	36	81	40
DEC						
19...	1040	371	3.0	39	81	39
JAN						
22...	1030	74	5.5	7	62	1.4
FEB						
25...	1046	83	9.0	8	97	1.8
APR						
09...	1210	136	11.5	45	87	17

10141040 HOOPER SLOUGH NEAR HOOPER, UTAH

LOCATION.--Lat 41°11'26", long 112°09'07", in NE¼NE¼NW¼ 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 (0.8 km) east of 7500 West Street and 1.7 mi (2.7 km) north of Hooper and 0.2 mi (0.3 km) upstream from mouth.

DRAINAGE AREA.--13.0 mi^2 (33.9 km^2).

PERIOD OF RECORD.--March 1975 to September 1977, September 1978 to current year.

GAGE.--Water-stage recorder on 6-ft (1.829-m) concrete Parshall flume. Altitude of gage is 4,212 ft (1,284 m) from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--5 years, 13.8 ft^3/s (0.391 m^3/s), 10,000 acre-ft/yr (12.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83 ft^3/s (2.35 m^3/s) Mar. 26, 1975, gage height, 3.17 ft (0.966 m); minimum, 1.4 ft^3/s (0.040 m^3/s) Apr. 13, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 44 ft^3/s (1.25 m^3/s) Mar. 28 and May 22, gage height, 2.47 ft (0.753 m); minimum, 3.7 ft^3/s (0.105 m^3/s) Apr. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	8.0	8.0	8.5	12	8.5	12	11	17	15	14	9.7
2	18	8.2	8.0	8.7	10	7.9	11	9.8	21	14	13	8.7
3	19	8.4	8.3	8.5	9.5	12	9.2	14	29	20	13	11
4	22	8.6	8.5	8.5	8.6	13	9.0	24	25	23	16	10
5	16	9.3	9.9	8.2	8.7	10	8.2	18	23	26	17	15
6	18	9.1	13	7.8	9.0	9.2	7.9	17	21	22	16	20
7	18	9.0	11	7.4	8.2	8.7	6.0	20	24	26	15	19
8	18	9.1	9.7	7.3	8.5	7.9	7.2	22	25	24	15	18
9	17	8.3	8.7	7.3	8.7	7.7	7.1	25	24	21	16	20
10	19	7.9	8.0	7.2	8.2	7.0	6.5	20	26	20	17	19
11	21	8.4	8.6	7.2	7.7	7.0	6.6	24	21	24	18	20
12	21	10	8.2	7.2	7.4	7.0	6.0	21	23	22	20	19
13	27	12	8.1	7.2	7.7	6.7	5.9	20	30	29	16	15
14	26	10	7.8	7.2	9.0	6.7	5.4	22	26	23	17	14
15	26	8.3	8.0	7.2	11	6.5	5.4	27	22	26	14	14
16	29	7.4	7.8	7.2	12	6.2	8.5	23	18	22	17	14
17	27	7.3	7.6	7.0	12	6.2	7.4	31	18	19	17	15
18	24	6.9	7.8	7.0	10	6.2	5.6	31	21	23	18	17
19	22	6.8	7.9	7.0	9.0	6.7	5.6	28	18	19	17	17
20	20	7.0	8.0	7.2	8.5	8.2	6.3	36	10	22	17	13
21	15	6.7	8.0	7.0	8.5	12	6.0	33	9.8	20	12	9.8
22	15	6.8	8.6	7.0	8.2	9.8	5.8	43	9.3	18	11	11
23	14	7.1	9.4	7.0	7.7	8.5	5.4	33	8.5	14	11	10
24	13	9.2	9.8	7.0	7.2	7.2	6.0	26	8.2	16	11	12
25	13	10	9.3	7.0	7.0	6.5	6.0	21	8.2	15	8.9	13
26	11	9.1	10	6.5	7.9	7.2	4.5	24	8.2	16	8.5	12
27	13	8.2	8.8	7.2	8.7	17	4.7	26	8.2	17	10	12
28	11	8.1	9.7	7.0	9.2	40	7.7	25	8.7	19	8.0	11
29	8.8	7.8	9.4	7.9	---	28	7.7	24	12	18	9.1	10
30	8.1	8.2	9.3	10	---	19	10	23	15	18	6.9	10
31	7.8	---	8.7	12	---	14	---	19	---	15	7.7	---
TOTAL	559.7	251.2	273.9	236.4	250.1	328.5	210.6	740.8	538.1	626	427.1	419.2
MEAN	18.1	8.37	8.84	7.63	8.93	10.6	7.02	23.9	17.9	20.2	13.8	14.0
MAX	29	12	13	12	12	40	12	43	30	29	20	20
MIN	7.8	6.7	7.6	6.5	7.0	6.2	4.5	9.8	8.2	14	6.9	8.7
AC-FT	1110	498	543	469	496	652	418	1470	1070	1240	847	831

CAL YR 1980 TOTAL 6153.8 MEAN 16.8 MAX 57 MIN 4.3 AC-FT 12210
WTR YR 1981 TOTAL 4861.6 MEAN 13.3 MAX 43 MIN 4.5 AC-FT 9640

10141400 HOWARD SLOUGH AT HOOPER, UTAH

LOCATION.--Lat 41°08"25", long 112°07'17", in SW¼SW¼NE¼ 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 (2.4 km) south of Hooper and 2.7 mi (4.3 km) upstream from mouth.

DRAINAGE AREA.--20.6 mi^2 (53.4 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1971 to current year. Records collected at this site by U.S. Bureau of Reclamation June 25, 1952 to September 30, 1955.

GAGE.--Water-stage recorder. Altitude of gage is 4,215 ft (1,285 m) from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--10 years, 26.7 ft^3/s (0.756 m^3/s), 19,340 acre-ft/yr (23.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 294 ft^3/s (8.33 m^3/s) Feb. 15, 1979, gage height, 3.97 ft (1.210 m); minimum, 1.8 ft^3/s (0.05 m^3/s) Apr. 30-May 2, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 120 ft^3/s (3.40 m^3/s), and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 28	0315	*144	4.08	2.63	0.801
May 21	2100	122	3.45	2.38	.725

Minimum discharge, 7.9 ft^3/s (0.22 m^3/s) Nov. 1 and Apr. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	8.8	13	13	20	16	23	13	32	24	19	29
2	21	11	13	12	17	16	22	17	33	20	18	28
3	24	11	13	12	15	37	22	29	58	21	19	26
4	25	11	14	14	13	22	21	27	49	24	21	31
5	26	11	34	14	12	19	19	15	41	26	23	34
6	21	11	22	13	12	17	17	18	42	26	20	46
7	23	11	19	13	13	16	18	23	44	28	18	48
8	28	10	16	13	14	15	15	22	46	23	19	49
9	32	10	15	12	14	14	12	26	37	22	20	48
10	27	10	14	12	14	14	10	25	23	22	22	46
11	26	10	14	12	15	13	10	34	20	20	24	50
12	30	24	14	12	14	14	9.6	28	19	21	33	45
13	40	18	14	12	15	14	9.4	24	25	26	30	36
14	40	13	14	12	18	14	8.5	21	26	25	26	41
15	58	11	14	12	19	14	8.8	38	25	20	21	33
16	75	10	15	12	19	15	12	45	25	20	21	22
17	38	10	13	12	20	18	11	52	22	24	21	18
18	34	10	13	12	16	15	12	46	21	25	26	21
19	31	11	13	12	16	13	15	41	22	29	29	22
20	19	11	13	12	18	19	16	62	23	28	29	22
21	13	12	13	12	16	18	15	107	25	22	28	26
22	14	12	17	12	15	11	12	69	26	20	22	24
23	13	13	17	12	15	13	11	44	18	22	24	20
24	12	31	16	14	15	14	11	28	13	26	24	25
25	11	18	17	13	14	14	18	22	16	22	27	29
26	14	15	16	12	25	18	52	39	17	23	28	29
27	14	13	15	12	22	70	48	39	18	32	23	26
28	12	13	14	13	18	103	38	30	25	28	26	25
29	11	13	14	14	---	42	31	29	22	26	20	20
30	12	14	13	22	---	34	26	26	21	23	27	21
31	11	---	13	20	---	26	---	33	---	21	29	---
TOTAL	777	386.8	475	404	454	698	553.3	1072	834	739	737	940
MEAN	25.1	12.9	15.3	13.0	16.2	22.5	18.4	34.6	27.8	23.8	23.8	31.3
MAX	75	31	34	22	25	103	52	107	58	32	33	50
MIN	11	8.8	13	12	12	11	8.5	13	13	20	18	18
AC-FT	1540	767	942	801	901	1380	1100	2130	1650	1470	1460	1860

CAL YR 1980 TOTAL 8586.9 MEAN 23.5 MAX 159 MIN 3.8 AC-FT 17030
WTR YR 1981 TOTAL 8070.1 MEAN 22.1 MAX 107 MIN 8.5 AC-FT 16010

10141400 HOWARD SLOUGH AT HOOPER, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1972 to August 1978, October 1979 to September 1980.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
NOV												
28...	0930	13	1010	8.1	1.0	1.0	13.4	320	0	--	54	46
DEC												
23...	1300	15	1150	8.1	7.0	4.0	11.4	360	0	--	56	53
JAN												
17...	1330	12	1000	7.8	3.0	3.0	11.6	360	0	--	64	48
MAR												
07...	1200	17	1160	8.0	10.0	9.5	10.9	380	--	--	60	55
APR												
11...	1300	11	1230	8.5	20.0	15.0	9.3	390	--	.00	56	60
MAY												
23...	1520	43	680	8.2	21.5	17.5	10.0	240	--	--	50	29
JUN												
22...	1130	30	820	8.0	25.0	19.0	--	290	--	.00	60	34
AUG												
14...	1200	33	850	7.9	25.5	18.0	--	290	--	.00	60	34
SEP												
03...	1130	28	800	8.4	23.0	18.0	--	270	--	.00	59	30
30...	1230	22	800	8.3	16.5	12.5	--	290	--	.00	59	35

DATE	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)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
NOV												
28...	91	37	2.2	14	370	67	80	.9	19	609	.83	21.5
DEC												
23...	120	41	2.8	19	430	73	100	.4	22	716	.97	29.0
JAN												
17...	89	34	2.0	13	380	69	66	.5	22	616	.84	20.0
MAR												
07...	130	42	2.9	12	420	91	100	.4	21	740	1.0	34.0
APR												
11...	130	41	2.9	18	440	88	99	.6	20	762	1.0	22.6
MAY												
23...	56	32	1.6	11	--	--	--	--	16	--	--	--
JUN												
22...	57	29	1.5	12	320	4.2	50	.3	17	430	.58	35.2
AUG												
14...	64	31	1.8	13	300	4.0	66	.2	20	442	.60	39.4
SEP												
03...	55	30	1.6	12	290	11	70	.2	15	428	.58	32.4
30...	59	30	1.7	11	300	<5.0	56	.3	17	423	.58	25.1

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2)	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)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
NOV									
28...	--	--	--	--	--	3.2	.210	.64	--
DEC									
23...	--	--	--	--	--	3.2	.310	.95	--
JAN									
17...	--	--	--	--	--	3.6	.190	.58	--
MAR									
07...	--	--	--	--	--	3.9	.260	.80	9.0
APR									
11...	.97	--	--	--	--	5.8	.190	.58	13
MAY									
23...	--	--	--	--	--	--	--	--	8.2
JUN									
22...	--	.61	2.7	.040	.13	.65	.190	.58	9.0
SEP									
03...	--	--	--	--	--	.19	.410	1.3	--
30...	--	--	--	--	--	.72	.100	.31	--

10141400 HOWARD SLOUGH AT HOOPER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
SEP 03...	1130	14	120	<1	0	1	0	49	.0	0	0	7

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
NOV 28...	0930	270	20	20
DEC 23...	1300	240	20	10
JAN 17...	1330	180	10	10
MAR 07...	1200	280	20	20
APR 11...	1300	290	20	10
MAY 23...	1520	300	40	20
JUN 22...	1130	190	30	20
AUG 14...	1200	180	32	5
SEP 03...	1130	170	23	3
30...	1230	160	16	7

10146400 CURRANT CREEK NEAR MONA, UTAH

LOCATION.--Lat 39°48'09", long 111°51'44", in NE¼SW¼NW¼, sec.6, T.12 S., R.1 E., Juab County, Hydrologic Unit 16020201, on left bank 20 ft (6 m) upstream from bridge, 300 ft (91 m) downstream from Burriston ponds, 0.5 mi (0.8 km) upstream from Mount Nebo Reservoir, 2 mi (3.2 km) southwest of Mona, Utah.

DRAINAGE AREA.--73.8 mi^2 (191.2 km^2).

PERIOD OF RECORD.--June 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,890 ft (1,490 m) from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 345 ft^3/s (9.77 m^3/s) Jan. 15, 1980, gage height, 4.85 ft (1.478 m); minimum, 3.4 ft^3/s (0.096 m^3/s) Aug. 1-4, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 108 ft^3/s (3.06 m^3/s) Apr. 3, gage height, 3.13 ft (0.954 m); minimum, 3.4 ft^3/s (0.096 m^3/s) Aug. 1-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	17	30	30	35	29	37	12	15	8.4	23	7.3
2	12	17	29	34	30	34	28	12	13	8.5	3.4	7.1
3	12	17	29	31	29	59	94	15	14	8.4	3.4	7.1
4	12	16	27	35	28	40	76	17	14	8.4	3.5	7.1
5	12	17	31	37	27	30	39	14	12	8.4	5.1	7.4
6	12	17	40	30	34	26	27	13	11	8.2	7.0	7.6
7	12	17	41	26	37	32	25	14	12	8.2	7.3	7.5
8	12	17	26	29	31	43	28	13	12	7.9	7.3	7.7
9	12	17	25	28	38	28	24	12	10	8.2	7.5	7.5
10	12	17	23	28	37	24	20	12	9.6	8.2	8.2	7.4
11	12	17	21	29	29	23	18	13	9.4	8.2	8.6	7.6
12	12	22	21	30	39	23	17	14	9.1	8.2	8.5	7.7
13	13	53	23	29	46	25	16	12	8.9	8.2	8.2	7.3
14	13	32	23	30	44	26	16	12	9.1	8.2	8.1	7.3
15	15	23	24	29	35	26	16	13	9.1	8.2	8.0	7.1
16	18	20	25	29	28	23	18	55	9.1	8.2	7.7	7.1
17	15	20	26	34	27	25	16	72	8.9	8.6	7.7	7.1
18	14	21	30	32	26	22	16	39	8.9	8.9	7.7	7.1
19	13	22	34	33	25	22	23	24	8.9	8.2	7.3	7.1
20	13	24	37	33	24	27	36	30	8.6	7.9	7.3	7.1
21	13	24	43	34	23	39	25	95	8.6	7.9	7.3	7.1
22	13	29	48	33	23	29	21	68	8.6	7.9	7.1	7.1
23	13	29	43	30	24	24	19	35	8.4	8.1	7.1	7.1
24	13	42	34	32	23	22	17	21	8.4	8.2	7.1	7.3
25	13	35	34	33	20	20	15	18	8.4	8.2	7.1	7.4
26	15	33	31	28	23	19	14	18	8.4	8.2	7.3	7.6
27	21	29	32	27	56	36	13	25	8.4	8.2	7.5	7.7
28	20	28	32	33	40	64	13	27	8.4	8.3	7.5	7.6
29	18	32	31	33	---	44	13	22	8.4	8.2	7.4	7.5
30	17	35	30	32	---	49	13	19	8.4	8.2	7.6	7.6
31	17	---	30	30	---	63	---	18	---	11	7.3	---
TOTAL	431	739	953	961	881	996	753	784	297.0	258.0	235.1	220.2
MEAN	13.9	24.6	30.7	31.0	31.5	32.1	25.1	25.3	9.90	8.32	7.58	7.34
MAX	21	53	48	37	56	64	94	95	15	11	23	7.7
MIN	12	16	21	26	20	19	13	12	8.4	7.9	3.4	7.1
AC-FT	855	1470	1890	1910	1750	1980	1490	1560	589	512	466	437

CAL YR 1980 TOTAL 10396.0 MEAN 28.4 MAX 161 MIN 10 AC-FT 20620
WTR YR 1981 TOTAL 7508.3 MEAN 20.6 MAX 95 MIN 3.4 AC-FT 14890

10148200 TIE FORK NEAR SOLDIER SUMMIT, UTAH

LOCATION.--39°57'00", long 111°12'58", in NE¼NE¼SW¼ sec.14, T.10 S., R.6 E., Utah County, Hydrologic Unit 16020202, on right bank 230 ft (70 m) upstream from mouth and U.S. Highway 6-50, 250 ft (76 m) downstream from Denver & Rio Grande Western Railroad, 7.4 mi (11.9 km) west of Soldier Summit, and 15.2 mi (24.5 km) east of Thistle.

DRAINAGE AREA.--19.4 mi^2 (50.2 km^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 (1,865 m) from topographic map.

REMARKS.--Records good except those for winter period and period of no gage-height record, May 13 to June 23, which are poor. No diversion.

AVERAGE DISCHARGE.--18 years, 4.98 ft^3/s (0.141 m^3/s), 3,610 acre-ft/yr (4.45 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 422 ft^3/s (12.0 m^3/s) July 16, 1975, gage height, 4.92 ft (1.500 m) from high-water mark, from rating curve extended above 26 ft^3/s (0.736 m^3/s) on basis of slope-area measurement; minimum recorded, 0.2 ft^3/s (0.006 m^3/s) Nov. 17, Dec. 7, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 34 ft^3/s (0.96 m^3/s), gage height, 2.30 ft (0.701 m), and peak above base of 15 ft^3/s (0.425 m^3/s); minimum, 0.66 ft^3/s (0.201 m^3/s) Jan. 25, result of freezeup.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	4.0	3.6	3.3	2.8	2.6	2.7	4.0	3.9	3.5	2.7	2.2
2	4.0	4.0	3.6	3.3	2.8	2.6	2.7	4.3	3.9	3.5	2.7	2.2
3	4.0	3.8	3.6	3.3	2.8	2.7	2.9	4.2	4.0	3.3	2.6	2.2
4	4.0	3.8	3.6	3.3	2.8	2.6	2.8	4.0	3.9	3.2	2.5	2.2
5	3.9	3.8	3.7	3.3	2.7	2.6	2.6	4.0	3.8	3.2	2.5	2.6
6	4.1	3.8	3.7	3.2	2.7	2.6	2.8	4.1	3.8	3.2	2.5	2.4
7	4.0	3.7	3.6	3.2	2.7	2.6	3.0	3.9	3.8	3.2	2.5	2.2
8	4.0	3.7	3.7	3.3	2.6	2.5	2.9	4.0	3.8	3.1	2.4	2.5
9	4.0	3.7	3.6	3.2	2.6	2.5	2.9	3.9	3.8	3.1	2.4	2.8
10	4.0	3.7	3.4	3.1	2.6	2.5	3.0	3.8	3.8	3.1	4.2	2.4
11	4.0	3.7	3.5	3.0	2.4	2.5	3.1	3.9	3.8	2.9	2.4	2.2
12	4.0	4.0	3.5	2.9	2.5	2.5	3.2	3.7	3.8	3.1	2.5	2.1
13	4.6	3.8	3.4	2.9	2.6	2.5	3.2	3.7	3.8	3.0	2.3	2.2
14	4.3	3.8	3.5	2.9	2.7	2.5	3.2	3.7	3.9	2.9	2.2	2.2
15	4.6	3.2	3.5	3.0	2.7	2.5	3.4	3.8	3.8	2.9	2.3	2.2
16	4.7	3.3	3.5	3.1	2.8	2.6	3.3	3.9	3.7	2.9	2.2	2.2
17	4.6	3.2	3.5	2.9	2.8	2.6	3.3	3.8	3.6	2.9	2.1	2.3
18	4.5	3.2	3.4	2.9	2.7	2.2	3.4	3.7	3.5	2.9	2.1	2.3
19	4.4	3.1	3.4	2.9	2.7	2.5	3.9	3.7	3.5	2.8	2.1	2.2
20	4.4	3.1	3.4	2.9	2.7	2.6	3.7	3.7	3.5	2.8	2.1	2.3
21	4.5	3.0	3.4	2.8	2.4	2.6	3.7	3.8	3.5	2.8	2.1	2.3
22	4.4	3.3	3.4	2.8	2.3	2.5	3.6	3.9	3.4	2.8	2.2	2.3
23	4.4	3.4	3.4	2.8	2.7	2.5	3.6	4.0	3.5	2.9	2.2	2.3
24	4.3	3.4	3.3	2.9	2.7	2.6	3.6	3.9	3.5	2.8	2.2	2.3
25	4.2	3.2	3.4	2.6	2.6	2.5	3.8	3.8	3.5	2.8	2.1	2.4
26	4.2	3.0	3.4	2.6	2.7	2.6	3.8	3.9	3.4	2.8	2.1	2.4
27	4.2	3.2	3.4	2.7	2.7	2.7	3.8	4.1	3.5	2.8	2.2	2.4
28	4.2	3.4	3.3	2.8	2.6	2.6	3.9	4.2	3.4	2.8	2.2	2.4
29	4.2	3.7	3.3	2.8	---	2.6	3.8	4.0	3.4	2.7	2.1	2.5
30	4.2	3.7	3.3	2.8	---	2.8	3.8	3.9	3.5	2.8	2.2	2.5
31	4.2	---	3.3	2.8	---	2.9	---	3.9	---	2.7	2.1	---
TOTAL	131.2	105.7	107.6	92.3	74.4	79.7	99.4	121.2	110.0	92.2	73.0	69.7
MEAN	4.23	3.52	3.47	2.98	2.66	2.57	3.31	3.91	3.67	2.97	2.35	2.32
MAX	4.7	4.0	3.7	3.3	2.8	2.9	3.9	4.3	4.0	3.5	4.2	2.8
MIN	3.9	3.0	3.3	2.6	2.3	2.2	2.6	3.7	3.4	2.7	2.1	2.1
AC-FT	260	210	213	183	148	158	197	240	218	183	145	138

CAL YR 1980 TOTAL 3111.3 MEAN 8.50 MAX 38 MIN 2.3 AC-FT 6170
WTR YR 1981 TOTAL 1156.4 MEAN 3.17 MAX 4.7 MIN 2.1 AC-FT 2290

10150500 SPANISH FORK AT CASTILLA, UTAH

LOCATION.--Lat 40°02'59", long 111°32'50", in SE¼NE¼NW¼ sec.12, T.9 S., R.3 E., Utah County, Hydrologic Unit 16020202, on right bank 600 ft (183 m) upstream from outlet of Cold Springs, 0.9 mi (1.4 km) upstream from diversion dam of Bureau of Reclamation, 1.5 mi (2.4 km) northwest of Castilla, and 2.8 mi (4.5 km) downstream from Diamond Fork.

DRAINAGE AREA.--652 mi^2 (1,689 km^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 (1,484 m) from topographic map. Prior to May 3, 1919, nonrecording gages at various sites 1.5 mi (2.4 km) to 2.5 mi (4.0 km) 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 (0.610 m) 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 (333 hm^3), in Colorado River basin via Strawberry tunnel for irrigation in vicinity of Spanish Fork.

AVERAGE DISCHARGE.--13 years (1890, 1903-14), 172 ft^3/s (4.871 m^3/s); 57 years (1914-17, 1919-25, 1933-81), 217 ft^3/s (6.145 m^3/s), 157,200 acre-ft/yr (194 hm^3/yr); includes transmountain diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,610 ft^3/s (102 m^3/s) May 3, 1952, gage height, 9.83 ft (2.996 m); minimum, 5.8 ft^3/s (0.16 m^3/s) Dec. 18, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 614 ft^3/s (17.4 m^3/s) Aug. 11, gage height, 7.79 ft (2.374 m); minimum recorded, 35 ft^3/s (0.991 m^3/s) Feb. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	78	90	89	82	88	102	378	200	524	499	244
2	190	78	90	90	82	92	100	456	200	520	488	222
3	220	80	90	90	80	93	113	513	220	500	484	218
4	230	82	92	92	80	93	108	474	200	470	495	203
5	230	84	89	90	78	92	100	463	200	460	499	180
6	220	86	86	90	78	90	100	441	212	430	495	160
7	210	86	86	90	78	92	100	409	218	440	492	140
8	225	88	82	88	76	93	100	391	250	470	488	130
9	235	90	80	83	76	90	100	330	292	460	492	120
10	225	88	80	80	75	86	102	288	327	470	499	92
11	160	88	82	78	56	86	108	269	381	430	517	73
12	100	106	82	76	84	86	108	250	423	370	502	63
13	112	100	82	74	82	89	108	263	434	360	456	61
14	100	88	82	74	86	89	108	282	430	340	409	61
15	180	80	81	80	85	86	113	330	441	310	364	56
16	130	80	80	82	85	89	119	317	470	340	361	53
17	110	80	82	88	93	94	127	222	506	354	333	84
18	100	82	82	86	97	84	130	191	553	333	350	97
19	95	90	82	84	97	86	133	179	561	279	388	116
20	93	90	82	84	94	92	138	173	550	263	405	116
21	92	90	82	82	86	94	127	250	542	276	374	133
22	90	90	82	80	82	89	124	300	534	263	354	141
23	88	88	84	80	86	86	122	320	528	247	324	150
24	80	86	85	82	91	89	130	400	528	256	347	158
25	74	84	90	78	91	86	136	500	528	282	330	164
26	78	80	92	75	92	89	141	350	524	330	317	161
27	80	84	92	76	95	94	144	200	528	395	301	158
28	76	88	90	78	90	97	179	220	528	438	295	156
29	78	88	88	80	---	94	263	250	528	466	311	138
30	78	88	88	82	---	108	317	210	528	481	288	138
31	78	---	89	82	---	105	---	200	---	492	256	---
TOTAL	4197	2590	2644	2563	2357	2821	3900	9819	12364	12049	12513	3986
MEAN	135	86.3	85.3	82.7	84.2	91.0	130	317	412	389	404	133
MAX	235	106	92	92	97	108	317	513	561	524	517	244
MIN	74	78	80	74	56	84	100	173	200	247	256	53
AC-FT	8320	5140	5240	5080	4680	5600	7740	19480	24520	23900	24820	7910

CAL YR 1980 TOTAL 110234 MEAN 301 MAX 1070 MIN 58 AC-FT 218600
WTR YR 1981 TOTAL 71803 MEAN 197 MAX 561 MIN 53 AC-FT 142400

10152000 SPANISH FORK NEAR LAKESHORE, UTAH

LOCATION.--Lat 40°09'30", long 111°43'50", in SE¼SE¼SE¼ sec.32, T.7 S., R.2 E., Utah County, Hydrologic Unit 16020202, on left bank 1.1 mi (1.8 km) upstream from mouth and 2.5 mi (4.0 km) north of Lake Shore.

DRAINAGE AREA.--675 mi^2 (1,748 km^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 (1,372 m) from topographic map. Prior to Jan. 23, 1938, nonrecording gages at several sites about 3 mi (5 km) 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 (1.22 m) higher.

REMARKS.--Records fair. 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.--61 years (water years 1905-07, 1910-18, 1921-25, 1939-81), 85.9 ft^3/s (2.433 m^3/s), 62,230 acre-ft/yr (76.7 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 3,020 ft^3/s (85.5 m^3/s) Apr. 28, 1952; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 318 ft^3/s (9.01 m^3/s) Nov. 5, gage height, 5.46 ft (1.664 m); minimum, 0.65 ft^3/s (0.018 m^3/s) Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	116	126	116	110	109	123	11	36	3.8	9.3	2.4
2	20	115	117	116	97	112	143	14	10	4.2	6.2	1.2
3	14	111	118	116	93	110	132	48	9.3	5.2	3.0	1.4
4	20	114	120	116	95	109	130	14	8.7	4.0	2.8	.88
5	19	124	126	119	98	105	121	6.7	7.2	2.5	2.1	.88
6	34	123	126	117	103	110	122	8.4	6.2	2.4	2.2	5.9
7	35	123	122	117	99	110	118	6.2	5.8	1.8	3.6	6.4
8	33	118	111	113	98	106	114	6.7	5.6	1.8	2.5	4.2
9	21	115	107	104	106	103	113	5.7	5.4	1.4	2.0	30
10	18	113	100	104	112	103	115	9.3	5.2	3.3	5.2	49
11	33	109	104	102	111	100	116	16	5.1	4.8	32	49
12	64	122	108	100	108	101	117	10	5.0	2.6	13	40
13	88	132	105	98	111	104	117	3.6	5.3	2.0	5.9	44
14	97	126	108	99	112	102	119	3.1	5.6	2.1	3.3	40
15	109	117	108	102	110	104	121	7.8	5.7	2.2	2.8	36
16	110	108	109	107	118	112	116	62	5.9	2.7	2.6	25
17	113	109	110	114	120	105	85	81	6.0	5.7	2.5	23
18	106	109	120	115	118	103	60	57	5.9	2.7	2.5	16
19	102	111	120	110	116	108	63	48	4.6	1.6	2.0	12
20	99	112	120	110	106	120	60	42	2.8	3.3	1.9	12
21	100	109	120	108	104	113	30	76	3.8	5.9	1.9	16
22	100	112	121	108	108	106	28	114	2.7	1.7	1.4	22
23	97	111	127	106	111	107	20	107	3.8	1.8	1.6	12
24	97	120	128	110	112	108	22	104	2.4	1.6	2.6	11
25	107	116	122	108	112	109	16	107	1.9	1.5	2.1	11
26	117	113	121	99	114	115	15	101	1.9	1.4	2.0	16
27	121	105	120	104	109	119	16	102	1.7	1.9	2.1	12
28	113	110	120	108	106	114	11	109	1.6	2.2	1.6	11
29	118	120	119	107	---	129	12	108	1.5	4.4	.97	14
30	118	124	116	108	---	126	10	90	1.4	6.7	1.8	9.7
31	119	---	116	108	---	126	---	64	---	4.4	4.8	---
TOTAL	2366	3467	3615	3369	3017	3408	2385	1542.5	174.0	93.6	130.27	533.96
MEAN	76.3	116	117	109	108	110	79.5	49.8	5.80	3.02	4.20	17.8
MAX	121	132	128	119	120	129	143	114	36	6.7	32	49
MIN	14	105	100	98	93	100	10	3.1	1.4	1.4	.97	.88
AC-FT	4690	6880	7170	6680	5980	6760	4730	3060	345	186	258	1060

CAL YR 1980 TOTAL 59306.50 MEAN 162 MAX 934 MIN 3.6 AC-FT 117600
WTR YR 1981 TOTAL 24101.33 MEAN 66.0 MAX 143 MIN .88 AC-FT 47800

10153800 NORTH FORK PROVO RIVER NEAR KAMAS, UTAH

LOCATION.--Lat 40°35'48", long 111°05'48", in NE¼SW¼SE¼ sec.36, T.2 S., R.7 E., Summit County, Hydrologic Unit 16020203, on right bank 500 ft (152 m) upstream from bridge on State Highway 150, 1,500 ft (457 m) upstream from mouth, and 9.5 mi (15.3 km) southeast of Kamas.

DRAINAGE AREA.--24.4 mi^2 (63.2 km^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 (2,280 m) from topographic map.

REMARKS.--Records good except those of no gage-height record Oct. 24 to Dec. 17, which are fair. 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.--18 years, 39.1 ft^3/s (1.11 m^3/s), 28,330 acre-ft/yr (34.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 705 ft^3/s (20.0 m^3/s) July 4, 1975, gage height, 3.00 ft (0.914 m); minimum recorded, 1.9 ft^3/s (0.054 m^3/s) several days during winter of 1964-65.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 200 ft^3/s (5.66 m^3/s), and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 2	2300	229	6.489	1.89	0.576
May 31	2000	*314	8.89	2.20	.671

Minimum daily, 3.8 ft^3/s (0.108 m^3/s) Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	7.4	6.0	5.3	5.7	5.4	6.8	170	239	60	7.1	6.1
2	4.2	7.4	6.0	5.4	5.6	5.4	6.8	188	219	61	7.1	6.1
3	4.1	7.4	6.0	5.4	5.6	5.9	7.1	184	200	57	7.5	6.1
4	4.0	7.4	6.0	5.4	5.6	6.2	7.5	140	186	55	7.8	5.9
5	4.0	7.4	6.0	5.4	5.6	6.4	8.8	125	212	51	7.3	9.7
6	3.9	8.0	6.0	5.7	5.7	6.1	7.5	114	229	49	7.1	11
7	3.8	8.0	5.0	5.7	5.7	5.9	7.3	100	232	48	7.0	9.1
8	4.0	8.0	4.5	5.7	5.7	5.9	7.3	91	232	45	7.0	9.1
9	4.0	8.4	4.5	5.9	5.7	6.1	8.3	84	205	43	6.8	7.8
10	4.0	8.4	4.5	6.1	5.7	6.1	10	82	166	39	7.1	7.8
11	4.0	8.4	5.0	6.1	5.7	6.4	12	92	154	39	7.8	7.5
12	4.7	8.0	5.0	6.1	5.7	5.7	15	82	140	40	7.5	7.5
13	7.4	9.0	5.0	6.1	5.7	5.7	18	79	128	38	7.8	7.1
14	7.0	9.0	5.0	6.1	5.6	5.7	23	83	116	35	7.8	7.1
15	9.8	8.0	5.0	6.1	5.4	5.9	30	89	102	31	7.3	6.6
16	8.8	6.0	5.2	6.1	5.4	5.9	33	84	91	32	7.1	6.6
17	8.8	5.0	5.3	6.1	5.4	6.2	44	82	84	26	6.8	6.4
18	8.8	5.0	5.1	6.1	5.4	6.8	58	80	79	22	6.8	6.2
19	8.8	5.0	5.1	6.1	5.3	5.9	74	89	74	21	6.8	6.1
20	9.3	5.0	5.0	5.9	5.3	5.7	54	95	74	17	6.8	6.2
21	9.3	6.0	5.1	5.9	5.3	5.7	46	94	95	15	6.6	6.1
22	9.3	6.0	5.1	5.9	5.3	6.2	44	91	91	14	7.5	6.1
23	8.3	6.0	5.1	5.9	5.3	5.9	53	88	84	13	7.0	6.1
24	7.0	6.0	5.1	5.9	5.3	5.9	72	94	79	12	6.6	6.2
25	8.0	5.0	5.3	5.9	5.3	6.1	92	105	72	12	6.4	6.4
26	9.0	5.0	5.4	5.7	5.3	6.1	105	130	66	12	6.4	6.4
27	8.0	5.0	5.3	5.7	5.3	7.5	104	148	68	12	6.6	6.2
28	7.0	6.0	5.3	5.7	5.3	6.6	97	168	73	10	6.6	6.1
29	7.0	6.0	5.4	5.7	---	6.2	116	179	68	8.8	6.4	5.9
30	7.0	6.0	5.4	5.7	---	7.1	148	202	64	7.5	6.4	5.9
31	7.0	---	5.3	5.7	---	6.8	---	247	---	7.5	6.4	---
TOTAL	204.6	203.2	163.0	180.5	153.9	189.4	1315.4	3679	3922	932.8	217.2	207.4
MEAN	6.60	6.77	5.26	5.82	5.50	6.11	43.8	119	131	30.1	7.01	6.91
MAX	9.8	9.0	6.0	6.1	5.7	7.5	148	247	239	61	7.8	11
MIN	3.8	5.0	4.5	5.3	5.3	5.4	6.8	79	64	7.5	6.4	5.9
AC-FT	406	403	323	358	305	376	2610	7300	7780	1850	431	411

CAL YR 1980 TOTAL 16122.5 MEAN 44.1 MAX 367 MIN 2.5 AC-FT 31980
WTR YR 1981 TOTAL 11368.4 MEAN 31.1 MAX 247 MIN 3.8 AC-FT 22550

10154200 PROVO RIVER NEAR WOODLAND, UTAH

LOCATION.--Lat 40°33'28", long 111°10'05", in NE¼NW¼SE¼ 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 (0.5 km) downstream from Twin Pine Bridge, 1.6 mi (2.6 km) downstream from South Fork and 3.5 mi (5.6 km) southeast of Woodland.

DRAINAGE AREA.--162 mi^2 (420 km^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 (2,118 m) from topographic map.

REMARKS.--Records fair. 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.--18 years, 215 ft^3/s (6.089 m^3/s), 155,800 acre-ft/yr (192 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,950 ft^3/s (83.5 m^3/s) May 28, 1979; gage height, 5.32 ft (1.622 m); minimum, 22 ft^3/s (0.623 m^3/s) Nov. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,270 ft^3/s (36.0 m^3/s) May 2, gage height, 3.86 ft (1.177 m); minimum, 24 ft^3/s (0.680 m^3/s) Jan. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	64	59	53	51	51	57	864	893	180	87	71
2	70	64	59	52	48	51	61	1030	832	194	85	70
3	66	64	60	51	50	51	62	1060	797	190	85	68
4	64	64	60	52	49	48	57	757	706	170	84	67
5	61	64	62	51	49	51	56	657	737	160	82	91
6	60	65	62	48	53	50	77	601	768	164	81	96
7	59	67	60	48	52	50	77	500	783	157	79	92
8	56	69	47	47	51	48	72	450	737	123	86	89
9	55	68	50	47	51	48	79	399	672	117	88	80
10	54	66	53	48	49	49	104	388	547	112	90	75
11	54	65	59	47	51	46	119	450	483	107	85	98
12	55	78	61	46	56	49	128	384	517	108	85	87
13	70	79	58	47	56	49	144	355	653	108	83	78
14	71	65	57	42	58	49	161	377	556	102	83	73
15	82	42	58	47	57	50	194	442	467	99	80	69
16	80	50	61	43	56	51	194	410	392	104	79	67
17	77	50	60	49	54	49	231	395	355	112	79	64
18	76	54	59	48	55	47	269	372	324	122	79	59
19	74	58	58	46	54	52	366	422	301	121	75	55
20	76	61	57	46	55	51	275	483	285	115	74	54
21	76	58	56	46	52	50	242	470	288	113	76	52
22	74	60	56	47	49	47	223	454	263	111	77	52
23	62	59	57	46	54	53	245	414	246	106	74	51
24	60	61	56	49	54	54	320	434	226	104	75	50
25	64	59	56	46	54	53	414	500	207	100	74	55
26	66	57	56	44	53	54	496	638	197	101	75	57
27	66	57	56	51	52	54	505	762	190	101	73	52
28	60	61	56	51	50	55	450	938	194	97	73	50
29	61	60	52	50	---	56	512	921	190	95	71	49
30	65	60	52	52	---	60	662	780	182	94	71	49
31	65	---	53	50	---	57	---	912	---	91	73	---
TOTAL	2049	1849	1766	1490	1473	1583	6852	18019	13988	3778	2461	2020
MEAN	66.1	61.6	57.0	48.1	52.6	51.1	228	581	466	122	79.4	67.3
MAX	82	79	62	53	58	60	662	1060	893	194	90	98
MIN	54	42	47	42	48	46	56	355	182	91	71	49
AC-FT	4060	3670	3500	2960	2920	3140	13590	35740	27750	7490	4880	4010

CAL YR 1980 TOTAL 79806 MEAN 218 MAX 1390 MIN 40 AC-FT 158300
WTR YR 1981 TOTAL 57328 MEAN 157 MAX 1060 MIN 42 AC-FT 113700

10155000 PROVO RIVER NEAR HAILSTONE, UTAH

LOCATION.--Lat 40°36'03", long 111°21'35", in SW¼NE¼SE¼ sec.34, T.2 S., R.5 E., Wasatch County, Hydrologic Unit 16020203, on right bank 3 mi (5 km) upstream from Ross Creek and Hailstone.

DRAINAGE AREA.--233 mi^2 (603 km^2).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,100 ft (1,859 m) from river-profile map. Prior to Nov. 20, 1964 at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records fair. Records include flow of Weber-Provo diversion 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 (12.4 hm^3)--is available from Provo River Water Commissioner's Report.

AVERAGE DISCHARGE.--28 years (1954-81) 279 ft^3/s (7.901 m^3/s), 202,100 acre-ft/yr (249 hm^3/yr), since completion of Duchesne tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,880 ft^3/s (109.9 m^3/s) June 4, 1957, gage height, 7.28 ft (2.219 m) datum then in use; minimum, 11 ft^3/s (0.312 m^3/s) Aug. 20, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,660 ft^3/s (75.3 m^3/s) May 3, gage height, 7.31 ft (2.228 m); minimum, 38 ft^3/s (1.08 m^3/s) Aug. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	120	120	92	84	98	132	1300	1120	206	49	61
2	90	120	117	94	77	96	144	1700	1040	224	47	58
3	88	120	124	90	75	100	152	2090	1000	228	48	57
4	82	117	129	96	75	92	134	1570	835	196	49	53
5	78	117	120	90	80	96	129	1210	860	152	51	82
6	78	117	110	88	80	94	155	894	911	147	51	109
7	75	117	100	92	80	96	155	929	929	147	48	97
8	72	120	90	90	80	92	142	740	860	110	51	99
9	72	122	85	90	80	90	147	590	778	98	56	89
10	72	120	85	90	90	92	172	513	610	92	62	90
11	70	117	90	85	90	88	203	525	519	82	71	105
12	77	152	90	85	113	92	203	544	501	82	70	101
13	102	175	90	85	104	88	220	426	701	86	73	89
14	102	142	90	85	94	88	235	460	596	77	70	83
15	122	104	85	90	92	90	282	550	513	73	63	78
16	132	102	85	95	88	96	278	531	513	65	56	76
17	139	117	85	98	102	92	312	525	507	75	53	72
18	144	122	90	88	98	86	374	483	460	78	49	69
19	142	117	90	84	98	98	477	519	394	82	51	63
20	139	117	95	86	96	96	420	576	379	75	48	59
21	136	115	94	84	88	90	384	563	374	73	49	59
22	136	117	96	84	80	84	415	563	354	72	51	58
23	120	113	96	88	94	94	448	544	340	66	52	57
24	115	115	94	86	100	98	538	563	321	66	57	58
25	120	113	94	82	102	96	709	637	286	65	64	61
26	122	100	96	80	108	104	827	818	262	68	60	67
27	127	100	96	85	102	106	868	973	243	70	62	61
28	120	110	96	88	96	106	778	1220	250	62	61	57
29	115	110	92	88	---	115	835	1210	235	56	59	56
30	122	122	92	88	---	139	1030	929	216	54	57	55
31	122	---	94	86	---	124	---	1090	---	52	61	---
TOTAL	3321	3570	3010	2732	2546	3016	11298	25785	16907	3079	1749	2179
MEAN	107	119	97.1	88.1	90.9	97.3	377	832	564	99.3	56.4	72.6
MAX	144	175	129	98	113	139	1030	2090	1120	228	73	109
MIN	70	100	85	80	75	84	129	426	216	52	47	53
AC-FT	6590	7080	5970	5420	5050	5980	22410	51140	33540	6110	3470	4320

CAL YR 1980 TOTAL 94959 MEAN 259 MAX 1490 MIN 66 AC-FT 188400
WTR YR 1981 TOTAL 79192 MEAN 217 MAX 2090 MIN 47 AC-FT 157100

10159500 PROVO RIVER BELOW DEER CREEK DAM, UTAH

LOCATION.--Lat 40°24'12", long 111°31'44", in NE¼NE¼NE¼ sec.7, T.5 S., R.4 E., Wasatch County, Hydrologic Unit 16020203, on right bank 200 ft (61 m) upstream from Deer Creek, 1,000 ft (305 m) downstream from Deer Creek Dam, and 4.1 mi (6.6 km) northeast of Vivian Park.

DRAINAGE AREA.--547 mi^2 (1,417 km^2).

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

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

GAGE.--Water-stage recorder. Altitude of gage is 5,270 ft (1,606 m) from topographic map.

REMARKS.--Records fair. 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.--28 years, 360 ft^3/s (10.20 m^3/s), 260,800 acre-ft/yr (322 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,190 ft^3/s (62.0 m^3/s) June 26, 1957, gage height, 6.74 ft (2.054 m); no flow Feb. 2, 3, 1957, Nov. 12, 19, 1961, when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,140 ft^3/s (32.3 m^3/s) June 3, gage height, 5.24 ft (1.597 m); minimum, 41 ft^3/s (1.16 m^3/s) Jan. 20.

REVISIONS.--Revised daily discharges, in cubic feet per second, for the period Sept. 7-30, 1980 are given below. These supersede figures published in the report for 1980.

Sept. 7	446	Sept. 13	177	Sept. 19	241	Sept. 25	150
8	317	14	172	20	265	26	170
9	265	15	170	21	239	27	189
10	236	16	168	22	177	28	193
11	197	17	170	23	172	29	199
12	189	18	193	24	162	30	183

MONTH	TOTAL	MEAN	MAX	MIN	ACRE-FT
SEPTEMBER	8052	268	503	150	15970
WTR YR 1980	130707	357	1270	69	259300

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	197	290	255	250	54	54	87	375	798	449	375	357
2	203	293	255	253	54	54	97	406	825	400	410	387
3	205	295	255	253	54	54	97	394	852	351	423	387
4	205	295	255	253	54	54	92	325	834	331	423	381
5	201	293	253	253	54	54	88	334	812	325	436	340
6	201	293	253	253	54	54	85	491	794	340	474	288
7	216	293	255	253	54	54	80	535	785	354	491	288
8	255	293	253	253	54	54	75	621	772	357	502	288
9	277	293	255	253	54	54	73	653	746	369	506	277
10	288	290	258	216	51	60	73	641	716	387	488	262
11	275	288	258	63	51	112	73	633	666	384	470	232
12	253	290	258	64	51	212	74	535	617	384	446	234
13	218	272	258	64	52	250	74	446	593	387	436	216
14	203	255	258	64	52	250	73	378	566	390	439	210
15	181	255	258	64	54	253	74	372	528	426	436	210
16	172	255	255	63	54	239	73	272	509	449	436	212
17	164	255	255	63	54	232	77	225	513	439	442	203
18	164	255	250	63	51	223	77	348	528	442	502	214
19	159	255	250	64	51	225	77	406	570	416	463	218
20	168	258	250	54	51	232	74	550	547	413	466	218
21	191	260	250	48	51	230	73	531	509	423	477	218
22	170	262	250	51	54	230	74	528	520	444	488	193
23	170	260	253	52	54	230	77	528	516	456	442	193
24	168	255	253	54	54	230	77	524	506	464	348	193
25	168	258	255	54	54	160	77	524	522	458	295	189
26	170	258	255	51	54	98	78	531	525	459	288	183
27	170	258	255	51	54	107	127	550	537	441	295	185
28	232	258	255	51	54	107	134	581	542	394	309	189
29	290	258	255	51	---	116	265	686	530	383	331	183
30	301	255	253	52	---	123	322	742	513	375	345	183
31	293	---	250	52	---	106	---	763	---	369	348	---
TOTAL	6528	8148	7881	3683	1487	4511	2897	15428	18791	12459	13030	7331
MEAN	211	272	254	119	53.1	146	96.6	498	626	402	420	244
MAX	301	295	258	253	54	253	322	763	852	464	506	387
MIN	159	255	250	48	51	54	73	225	506	325	288	183
AC-FT	12950	16160	15630	7310	2950	8950	5750	30600	37270	24710	25840	14540

CAL YR 1980 TOTAL 143099 MEAN 391 MAX 1270 MIN 76 AC-FT 283800
WTR YR 1981 TOTAL 102174 MEAN 280 MAX 852 MIN 48 AC-FT 202700

10163000 PROVO RIVER AT PROVO, UTAH

LOCATION.--Lat 40°14'16", long 111°41'55", in NE¼NW¼SE¼ sec.3, T.7 S., R.2 E., Utah County, Hydrologic Unit 16020203, on left bank 1,300 ft (396 m) downstream from bridge on State Highway 114, 2.1 mi (3.4 km) west of Provo, and 2.1 mi (3.4 km) upstream from mouth.

DRAINAGE AREA.--673 mi^2 (1,760 km^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 (1,375 m) from topographic map. May 1903 to June 1905, nonrecording gages at site 0.8 mi (1.3 km) 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 (305 m) upstream at different datum. November 1938 to August 23, 1957, water-stage recorder at present site at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records fair. Station is below all diversions. At times 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.--46 years, 190 ft^3/s (5.38 m^3/s), 137,700 acre-ft/yr (170 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,520 ft^3/s (71.4 m^3/s) May 6, 1952, gage height, 6.37 ft (1.94 m); no flow for several periods.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 548 ft^3/s (15.5 m^3/s) June 3, gage height, 4.47 ft (1.362 m); minimum daily, 1.3 ft^3/s (0.037 m^3/s) Aug. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	357	322	295	94	89	117	38	406	2.6	1.4	6.7
2	67	360	322	295	94	96	127	60	403	5.7	1.3	14
3	68	363	325	295	94	94	127	86	449	4.3	2.2	11
4	57	363	322	301	94	89	121	89	442	5.7	3.0	11
5	57	363	334	301	96	92	117	92	391	4.0	2.3	23
6	60	360	322	298	94	98	117	146	337	3.7	2.0	21
7	73	360	325	295	94	98	108	212	315	3.3	7.9	19
8	96	350	322	227	92	98	105	281	303	4.7	6.2	44
9	125	353	319	126	92	98	99	325	252	16	7.3	41
10	115	350	310	106	84	92	93	295	193	13	5.0	43
11	113	350	310	117	81	117	94	270	175	12	42	63
12	132	363	310	113	83	200	103	217	135	12	41	47
13	170	357	310	105	83	253	92	121	94	12	58	25
14	217	322	310	101	81	251	81	68	89	8.6	52	15
15	292	322	298	103	73	256	79	81	75	8.6	43	13
16	295	322	295	101	81	256	78	205	46	10	19	8.6
17	278	319	307	101	91	246	84	272	41	14	7.3	4.0
18	275	316	292	98	79	240	86	287	46	12	18	6.7
19	275	316	307	98	86	240	98	292	43	13	4.3	13
20	278	316	275	89	79	256	89	301	34	16	13	14
21	275	319	313	81	76	246	84	357	27	15	19	25
22	287	325	316	62	84	246	83	383	23	17	29	29
23	278	328	313	46	83	246	83	369	16	14	26	29
24	278	331	310	91	88	246	83	353	7.0	15	47	29
25	281	319	310	88	81	185	81	334	10	13	26	24
26	281	325	316	81	98	105	70	341	10	14	6.2	17
27	278	319	316	91	92	118	65	325	6.7	19	1.9	16
28	304	319	316	92	91	119	60	304	9.3	18	3.7	19
29	359	322	313	92	---	130	57	353	12	16	2.6	33
30	359	328	295	96	---	142	84	410	5.0	15	4.3	29
31	359	---	295	96	---	128	---	400	---	7.9	6.7	---
TOTAL	6446	10117	9650	4481	2438	5170	2765	7667	4395.0	345.1	508.6	693.0
MEAN	208	337	311	145	87.1	167	92.2	247	147	11.1	16.4	23.1
MAX	359	363	334	301	98	256	127	410	449	19	58	63
MIN	57	316	275	46	73	89	57	38	5.0	2.6	1.3	4.0
AC-FT	12790	20070	19140	8890	4840	10250	5480	15210	8720	685	1010	1370

CAL YR 1980	TOTAL	104500.1	MEAN 286	MAX 1330	MIN 5.2	AC-FT	207300	
WTR YR 1981	TOTAL	54675.7	MEAN 150	MAX 449	MIN 1.3	AC-FT	108400	

10164500 AMERICAN FORK ABOVE UPPER POWERPLANT, NEAR AMERICAN FORK, UTAH

LOCATION.--Lat 40°26'52", long 111°40'53", in SE¼NW¼NE¼ sec.26, T.4 S., R.2 E., Utah County, Hydrologic Unit 16020201, on left bank 600 ft (183 m) downstream from Rock Creek, 1,000 ft (305 m) upstream from intake for upper powerplant of Utah Power & Light Co., 4.0 mi (6.4 km) upstream from mouth of canyon, and 6.7 mi (10.8 km) northeast of American Fork.

DRAINAGE AREA.--51.1 mi^2 (132.3 km^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 (1,814 m) 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 (91 m) upstream.

REMARKS.--Records good. Flow regulated by Silver Lake Flat Reservoir (constructed 1971) and Tibble Reservoir; total capacity, 1,260 acre-ft (1.55 hm^3).

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

AVERAGE DISCHARGE.--54 years, 54.1 ft^3/s (1.53 m^3/s), 39,200 acre-ft/yr (48.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge not determined, occurred July 30, 1953, gage height, 9.2 ft (2.80 m), from floodmark; minimum, 1.1 ft^3/s (0.031 m^3/s) Dec. 20, 1976 (result of freezeup).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 237 ft^3/s (6.71 m^3/s) June 9, gage height, 6.67 ft (2.033 m); minimum, 13 ft^3/s (0.37 m^3/s) Mar. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	22	20	21	17	18	19	80	195	71	40	23
2	31	22	20	21	17	18	18	88	189	69	38	23
3	30	21	20	21	17	18	19	99	186	66	37	23
4	30	21	21	22	17	17	18	84	165	63	36	23
5	29	21	21	21	17	17	18	75	164	59	36	26
6	29	21	20	20	17	17	19	70	177	58	35	26
7	29	20	20	20	17	16	20	65	188	62	35	25
8	28	20	18	18	17	16	19	64	203	64	34	24
9	31	20	16	18	17	15	20	60	222	59	34	24
10	27	20	15	19	17	15	23	57	202	57	36	24
11	27	20	19	19	17	15	27	61	179	56	35	24
12	28	25	22	19	17	15	28	59	173	54	34	22
13	28	22	24	18	17	15	30	58	162	54	34	22
14	28	21	25	18	17	15	34	58	134	54	35	22
15	28	19	26	18	17	15	37	68	114	52	33	22
16	27	19	26	17	17	16	35	69	101	54	31	21
17	27	19	26	18	17	15	46	64	98	50	30	21
18	26	20	25	17	17	15	50	57	99	48	29	21
19	25	21	25	17	17	16	52	58	99	47	29	21
20	25	21	25	17	17	17	46	62	99	46	29	20
21	24	21	25	17	16	16	44	68	107	46	28	20
22	24	21	25	17	16	16	43	71	104	46	28	19
23	24	21	24	17	17	16	46	72	98	45	27	19
24	24	21	23	17	17	16	55	74	92	44	29	19
25	23	20	23	16	18	16	71	77	88	44	27	19
26	23	20	23	16	18	17	78	94	89	43	27	19
27	23	20	23	17	18	18	71	115	87	42	27	19
28	23	21	22	17	17	17	68	140	82	41	26	19
29	22	20	22	17	---	17	66	146	78	41	25	19
30	22	20	22	17	---	19	72	153	74	41	23	19
31	22	---	22	17	---	19	---	182	---	41	23	---
TOTAL	818	620	688	564	477	508	1192	2548	4048	1617	970	648
MEAN	26.4	20.7	22.2	18.2	17.0	16.4	39.7	82.2	135	52.2	31.3	21.6
MAX	31	25	26	22	18	19	78	182	222	71	40	26
MIN	22	19	15	16	16	15	18	57	74	41	23	19
AC-FT	1620	1230	1360	1120	946	1010	2360	5050	8030	3210	1920	1290

CAL YR 1980 TOTAL 31699 MEAN 86.6 MAX 466 MIN 15 AC-FT 62870
WTR YR 1981 TOTAL 14698 MEAN 40.3 MAX 222 MIN 15 AC-FT 29150

10167000 JORDAN RIVER AT NARROWS, NEAR LEHI, UTAH

LOCATION.--Lat 40°26'38", long 111°55'17", in NW¼SE¼NW¼ sec.26, T.4 S., R.1 W., Salt Lake County, Hydrologic Unit 16020201, at narrows 5.5 mi (8.8 km) northwest of Lehi and 7.5 mi (12.1 km) downstream from Utah Lake.

DRAINAGE AREA.--3,010 mi^2 (7,796 km^2), including 255 mi^2 (660 km^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. Altitude of gage is 4,470 ft (1,362 m) by barometer. Prior to May 16, 1920, non-recording gage and May 16, 1920, to Sept. 30, 1934, water-stage recorder, at outlet of Utah Lake 7.5 mi (12.1 km) 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, 34,335 acre-ft (42.3 hm^3) 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.--68 years (1913-81), 366 ft^3/s (10.37 m^3/s), 265,200 acre-ft/yr (327 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,410 ft^3/s (39.9 m^3/s) June 10, 1952; no flow at times most years when gates are closed.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	362	350	434	506	533	585	606	463	277	657	633	588
2	355	350	465	523	554	578	502	540	265	670	633	583
3	347	362	499	526	571	585	529	564	272	671	617	589
4	327	365	523	526	571	592	557	542	304	673	628	585
5	328	365	443	516	585	589	592	540	310	675	646	564
6	325	371	482	547	557	568	547	527	308	664	661	524
7	325	386	462	568	575	582	540	499	342	660	686	475
8	326	356	478	536	575	582	578	498	359	697	687	444
9	320	374	489	536	571	585	571	494	407	696	684	380
10	303	371	506	533	437	579	533	503	459	683	691	348
11	306	401	506	533	578	561	568	486	496	698	679	334
12	309	374	502	523	575	571	557	478	512	693	653	337
13	294	368	502	529	571	568	519	492	517	676	638	341
14	212	386	506	533	561	564	544	495	515	660	634	339
15	211	383	516	533	571	568	576	463	514	674	635	339
16	356	392	516	533	575	564	563	388	528	669	638	395
17	347	401	509	533	543	509	512	299	521	669	640	446
18	341	395	519	526	575	568	549	222	541	637	636	445
19	341	196	523	536	578	578	581	236	553	627	638	443
20	341	117	529	536	459	582	521	275	584	621	646	442
21	341	91	526	543	526	571	528	277	591	626	596	424
22	318	193	523	543	578	571	508	273	598	635	597	406
23	336	318	523	540	585	564	526	266	602	609	588	411
24	338	317	529	540	613	550	530	267	612	634	569	412
25	344	392	519	536	603	575	529	268	623	634	537	409
26	297	401	533	547	589	536	541	241	629	643	546	373
27	271	422	533	543	582	582	439	215	626	620	551	357
28	319	434	523	557	585	509	449	216	624	653	561	357
29	344	422	536	557	---	554	434	219	627	636	576	329
30	344	434	533	564	---	526	432	217	624	624	574	306
31	347	---	536	512	---	592	---	225	---	644	584	---
TOTAL	9975	10487	15723	16614	15776	17588	15961	11688	14740	20328	19282	12725
MEAN	322	350	507	536	563	567	532	377	491	656	622	424
MAX	362	434	536	568	613	592	606	564	629	698	691	589
MIN	211	91	434	506	437	509	432	215	265	609	537	306
AC-FT	19790	20800	31190	32950	31290	34890	31660	23180	29240	40320	38250	25240

CAL YR 1980 TOTAL 165915 MEAN 453 MAX 791 MIN 11 AC-FT 329100
WTR YR 1981 TOTAL 180887 MEAN 496 MAX 698 MIN 91 AC-FT 358800

10167300 JORDAN RIVER AT 5800 SOUTH, NEAR SALT LAKE CITY, UT

WATER-QUALITY RECORDS

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 (3.7 km) southwest of Murray.

DRAINAGE AREA.--3,240 mi2 (8,390 km2).

PERIOD OF RECORD.--February 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN DIS-SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)
OCT											
08...	0840	155	2120	7.9	6.5	12.5	--	6.2	--	--	--
NOV											
26...	0915	524	1540	8.1	-2.0	3.5	--	10.1	--	--	--
JAN											
06...	1020	684	1490	8.0	1.0	4.0	--	10.6	--	--	--
28...	1208	736	1430	8.3	10.0	4.5	--	10.4	--	--	--
FEB											
19...	1140	732	1410	8.3	14.0	6.0	--	10.1	--	--	--
MAR											
26...	0900	728	1500	8.1	7.5	9.0	--	9.6	--	--	--
APR											
22...	1430	416	1600	7.1	20.0	15.0	--	6.0	--	--	--
MAY											
12...	0900	145	2020	7.5	9.0	11.2	--	7.9	--	--	--
JUN											
01...	1130	133	1660	7.6	25.0	16.0	--	7.5	--	--	--
JUL											
15...	1100	123	2000	8.0	31.5	17.4	33	6.2	95	3.9	38
AUG											
26...	0930	223	2200	7.9	28.5	18.0	--	6.6	--	--	--
SEP											
08...	1030	112	1980	7.8	20.5	17.0	--	6.4	--	--	--

DATE	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML)	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 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
OCT											
08...	--	600	870	650	360	--	150	68	210	40	3.6
NOV											
26...	--	170	340	450	230	--	85	58	170	44	3.5
JAN											
06...	--	--	72	410	190	--	73	56	170	46	3.6
28...	--	19	26	440	--	--	81	57	160	43	3.3
FEB											
19...	190	K16	K70	420	200	--	75	56	160	44	3.4
MAR											
26...	4800	3100	--	420	--	210	76	55	160	45	3.4
APR											
22...	K120	24	--	450	--	260	86	56	160	43	3.3
MAY											
12...	550	170	--	530	--	280	120	57	180	41	3.4
JUN											
01...	270	160	110	470	--	260	110	47	150	41	3.0
JUL											
15...	710	210	140	590	--	320	130	64	200	42	3.6
AUG											
26...	1000	420	210	630	--	340	140	67	210	41	3.7
SEP											
08...	2500	580	780	570	--	300	122	64	200	42	4.0

K Results based on colony count outside the acceptable range (non-ideal colony count).

10167300 JORDAN RIVER AT 5800 SOUTH, NEAR SALT LAKE CITY, UT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	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											
08...	20	290	430	320	--	--	--	--	--	--	98
NOV											
26...	18	220	270	230	--	--	--	--	--	--	32
JAN											
06...	14	220	310	210	--	--	--	--	--	--	52
28...	13	220	260	200	--	--	--	--	--	--	37
FEB											
19...	14	220	260	210	--	--	--	--	--	--	41
MAR											
26...	13	210	260	200	--	--	--	--	--	--	42
APR											
22...	14	190	250	220	--	--	--	--	--	--	8
MAY											
12...	15	250	370	260	--	--	--	--	--	--	34
JUN											
01...	.3	210	320	220	--	--	--	--	--	--	13
JUL											
15...	18	270	400	280	--	--	1340	--	1.8	445	41
AUG											
26...	18	290	420	300	.9	--	--	--	--	--	45
SEP											
08...	19	270	370	280	--	--	--	--	--	--	43

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	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)	NITROGEN, TOTAL (MG/L AS N)
OCT										
08...	1.20	--	1.5	--	2.0	--	3.20	--	--	5.0
NOV										
26...	.590	--	.71	--	1.2	--	1.80	--	--	2.7
JAN										
06...	.610	--	.74	--	1.3	--	1.90	--	--	2.6
28...	.610	--	--	--	--	--	--	--	--	--
FEB										
19...	.510	--	--	--	2.0	--	2.50	--	--	2.9
MAR										
26...	.000	--	--	--	2.5	--	2.50	--	--	2.5
APR										
22...	.580	--	--	--	.82	--	1.40	--	--	2.3
MAY										
12...	1.50	--	--	--	.00	--	1.20	--	--	2.9
JUN										
01...	.770	--	--	--	1.1	--	1.90	--	--	4.4
JUL										
15...	1.00	1.50	--	1.9	1.5	.50	2.50	1.3	2.0	4.5
AUG										
26...	.640	--	--	--	1.4	--	2.00	--	--	3.7
SEP										
08...	.840	--	--	--	1.5	--	2.30	--	--	3.7

10167300 JORDAN RIVER AT 5800 SOUTH, NEAR SALT LAKE CITY, UT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (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)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT										
08...	--	--	--	1.8	--	22	.910	2.8	--	--
NOV										
26...	--	--	--	.90	--	12	.310	.95	--	--
JAN										
06...	--	--	--	.73	--	12	.300	.92	--	--
28...	--	--	--	.71	--	--	.270	.83	--	9.7
FEB										
19...	--	--	--	.40	--	13	.360	1.1	--	10
MAR										
26...	--	--	--	.02	--	11	.250	.77	--	9.7
APR										
22...	--	--	--	.87	--	10	.490	1.5	--	10
MAY										
12...	--	--	--	1.7	--	13	.890	2.7	--	11
JUN										
01...	--	--	--	2.5	--	19	.910	2.8	--	.20
JUL										
15...	7.5	.220	.72	2.0	1.9	20	.900	2.8	.840	13
AUG										
26...	--	--	--	1.7	--	16	.760	2.3	--	--
SEP										
08...	--	--	--	1.4	--	16	.710	2.2	--	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G 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, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)
OCT											
08...	0840	--	--	--	--	--	--	--	--	--	--
NOV											
26..	0915	--	--	--	--	--	--	--	--	--	--
JAN											
06...	1020	--	--	--	--	--	--	--	--	--	--
28...	1208	--	--	--	--	--	--	--	--	--	--
FEB											
19...	1140	--	--	--	--	--	--	--	--	--	--
MAR											
26...	0900	--	--	--	--	--	--	--	--	--	--
APR											
22...	1430	--	--	--	--	--	--	--	--	--	--
MAY											
12...	0900	--	--	--	--	--	--	--	--	--	--
JUN											
01...	1130	--	--	--	--	--	--	--	--	--	--
JUL											
15...	1100	--	--	--	--	--	--	--	--	--	--
AUG											
26...	0930	--	--	--	--	--	--	--	--	--	--

10167300 JORDAN RIVER AT 5800 SOUTH, NEAR SALT LAKE CITY, UT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, SUS-PENDED RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)
OCT 08...	--	--	--	--	--	--	--	--	--	--	--
NOV 26...	--	--	--	--	--	--	--	--	--	--	--
JAN 06...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
FEB 19...	--	--	--	--	--	--	--	--	--	--	--
MAR 26...	--	--	--	--	--	--	--	--	--	--	--
APR 22...	--	--	--	--	--	--	--	--	--	--	--
MAY 12...	--	--	--	--	--	--	--	--	--	--	--
JUN 01...	--	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	0	--	20	8	12	--	--	--	--	37
AUG 26...	--	--	--	--	--	--	--	--	--	--	--

DATE	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G 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)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)
OCT 08...	--	--	--	--	--	--	--	--	--	--	--
NOV 26...	--	--	--	--	--	--	--	--	--	--	--
JAN 06...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
FEB 19...	--	--	--	--	--	--	--	--	--	--	--
MAR 26...	--	--	--	--	--	--	--	--	--	--	--
APR 22...	--	--	--	--	--	--	--	--	--	--	--
MAY 12...	--	--	--	--	--	--	--	--	--	--	--
JUN 01...	--	--	--	--	--	--	--	--	--	--	--
JUL 15...	27	10	--	1200	1200	20	41	40	1	--	--
AUG 26...	--	--	--	--	--	--	--	--	--	--	--

DATE	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)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G 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)
OCT 08...	--	--	--	--	--	--	0	--	--	--
NOV 26...	--	--	--	--	--	--	100	--	--	--
JAN 06...	--	--	--	--	--	--	100	--	--	--
28...	--	--	--	--	--	--	0	--	--	--
FEB 19...	--	--	--	--	--	--	34	--	--	--
MAR 26...	--	--	--	--	--	--	0	--	--	--
APR 22...	--	--	--	--	--	--	75	--	--	--
MAY 12...	--	--	--	--	--	--	0	--	--	--
JUN 01...	--	--	--	--	--	--	100	--	--	--
JUL 15...	--	--	.1	.1	.0	--	0	--	--	--
AUG 26...	--	--	--	--	--	--	0	--	--	--

JORDAN RIVER BASIN

10167300 JORDAN RIVER AT 5800 SOUTH, NEAR SALT LAKE CITY, UT

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
OCT										
08...	--	--	--	0	--	--	70	--	--	--
NOV										
26...	--	--	--	0	--	--	30	--	--	--
JAN										
06...	--	--	--	0	--	--	30	--	--	--
28...	--	--	--	0	--	--	40	--	--	--
FEB										
19...	--	--	--	0	--	--	50	--	--	--
MAR										
26...	--	--	--	0	--	--	40	--	--	--
APR										
22...	--	--	--	0	--	--	40	--	--	--
MAY										
12...	--	--	--	0	--	--	40	--	--	--
JUN										
01...	--	--	--	0	--	--	60	--	--	--
JUL										
15...	--	--	--	0	--	--	50	50	20	--
AUG										
26...	--	--	--	1	--	--	40	--	--	--

DATE	TIME	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)
OCT					
08...	0840	--	--	.00	--
NOV					
26...	0915	--	--	.00	--
JAN					
06...	1020	--	--	.00	--
28...	1208	--	--	.00	--
FEB					
19...	1140	--	--	.00	--
MAR					
26...	0900	--	--	.00	--
APR					
22...	1430	--	--	.00	--
MAY					
12...	0900	--	--	.00	--
JUN					
01...	1130	--	--	.00	--
JUL					
15...	1100	4.4	1.2	.00	--
AUG					
26...	0930	--	--	.00	--
SEP					
08...	1030	--	--	<.01	--

10170500 SURPLUS CANAL AT SALT LAKE CITY, UTAH

LOCATION.--Lat 40°43'37", long 111°55'33", in SE¼SW¼SW¼ 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 (76 m) downstream from highway bridge over Jordan River on 21st South Street.

PERIOD OF RECORD.--December 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,223.93 ft (1,287.454 m) NGVD of 1929. Prior to Oct. 22, 1952, at site 350 ft (107 m) downstream, and Oct. 22, 1952 to Sept. 30, 1966, at site 400 ft (122 m) 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.--38 years, 245 ft^3/s (6.94 m^3/s), 177,500 acre-ft/yr (219 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,050 ft^3/s (58.1 m^3/s) Sept. 18, 1978; maximum gage height, 8.84 ft (2.694 m) May 7, 1952 (site and datum then in use); no flow Jan. 21 to Feb. 28, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,640 ft^3/s (46.4 m^3/s) June 3, gage height, 3.54 ft (1.079 m); minimum daily, 156 ft^3/s (4.42 m^3/s) Sept. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	201	456	479	527	582	575	614	238	763	209	179	189
2	182	469	518	525	587	578	604	297	666	268	178	196
3	185	461	551	522	582	629	574	744	1130	299	162	207
4	180	446	559	538	546	630	574	511	817	268	159	219
5	185	441	569	537	546	632	589	342	663	228	182	348
6	193	446	504	533	547	622	589	330	701	232	170	442
7	197	433	486	550	547	613	545	317	768	186	176	413
8	215	421	478	550	561	623	564	411	793	186	177	388
9	201	422	465	549	570	626	594	363	766	202	179	375
10	193	408	510	540	505	628	559	342	704	235	182	327
11	190	412	520	538	525	624	574	438	593	211	216	289
12	194	607	517	538	560	635	584	346	608	201	233	257
13	256	514	515	525	565	640	564	359	688	204	226	245
14	260	443	516	537	563	639	569	346	670	195	217	238
15	293	445	522	534	546	637	569	599	499	194	217	213
16	502	435	533	537	557	677	559	839	365	199	204	198
17	449	446	537	537	568	670	554	531	306	250	201	196
18	410	447	528	538	561	609	516	455	291	244	203	190
19	413	334	520	539	572	564	550	390	258	224	198	179
20	420	177	519	546	542	594	530	455	288	202	217	175
21	432	158	522	545	528	594	521	610	323	174	230	169
22	432	168	530	546	562	584	479	570	317	162	228	156
23	400	416	524	547	591	569	424	509	270	171	261	157
24	403	515	530	546	607	545	420	486	254	175	264	157
25	408	440	523	542	645	550	447	476	229	200	240	178
26	425	479	528	555	687	594	460	605	248	192	245	199
27	389	478	536	567	673	629	465	643	249	220	187	185
28	385	481	532	574	576	629	407	626	245	201	171	161
29	425	491	532	579	---	574	313	603	232	196	194	160
30	441	513	532	614	---	670	242	602	221	178	197	163
31	435	---	533	601	---	634	---	735	---	172	198	---
TOTAL	9894	12802	16168	16956	16001	19017	15553	15118	14925	6478	6291	6969
MEAN	319	427	522	547	571	613	518	488	498	209	203	232
MAX	502	607	569	614	687	677	614	839	1130	299	264	442
MIN	180	158	465	522	505	545	242	238	221	162	159	156
AC-FT	19620	25390	32070	33630	31740	37720	30850	29990	29600	12850	12480	13820

CAL YR 1980 TOTAL 158415 MEAN 433 MAX 1140 MIN 110 AC-FT 314200
WTR YR 1981 TOTAL 156172 MEAN 428 MAX 1130 MIN 156 AC-FT 309800

10170750 SURPLUS CANAL AT NORTH TEMPLE, AT SALT LAKE CITY, UTAH

LOCATION.--Lat 40°16'14", long 111°58'28", in NW¼SW¼SE¼ sec.32, T.1 N., R.1 W., Salt Lake County, Hydrologic Unit 16020204, 10 ft (3.0 m) downstream from eastbound highway bridge over Surplus Canal on North Temple Street, and 4.4 mi (7.1 km) west of Salt Lake City.

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,220 ft (1,286 m) from topographic map.

REMARKS.--Records fair. Flow is completely regulated. The North Point Consolidated Canal diverts 0.5 mi (0.81 m) upstream, Goggin Drain diverts 2.6 mi (4.18 km) downstream, and the Heusted Dam diverts 4.5 mi (7.2 km) downstream.

AVERAGE DISCHARGE.--5 years, 280 ft^3/s (7.930 m^3/s), 202,900 acre-ft/yr (250 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,390 ft^3/s (39.4 m^3/s) June 20, 1975, gage height, 8.45 ft (2.576 m); minimum discharge, 23 ft^3/s (0.651 m^3/s) Oct. 5, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 925 ft^3/s (26.2 m^3/s) Mar. 30, gage height, 6.38 ft (1.945 m); minimum, 41 ft^3/s (1.161 m^3/s) June 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	466	417	515	550	600	688	257	720	139	81	126
2	140	433	419	498	550	620	677	450	670	179	84	132
3	135	427	442	477	540	640	614	600	720	283	78	156
4	130	433	482	504	520	640	638	500	840	258	62	170
5	125	433	543	518	520	650	674	400	710	168	78	273
6	144	433	432	496	520	650	699	330	703	146	87	545
7	154	376	454	520	520	640	607	390	755	125	92	533
8	177	323	425	526	520	650	628	410	765	101	94	485
9	171	312	448	524	500	650	677	360	777	113	93	498
10	159	305	472	517	470	650	624	350	713	176	97	451
11	144	324	493	514	480	650	610	360	539	156	151	383
12	133	495	494	515	500	650	645	372	519	126	186	281
13	239	442	491	496	500	660	614	404	618	131	214	258
14	258	332	495	509	510	660	607	398	546	117	171	241
15	268	324	503	512	510	660	621	492	485	118	191	202
16	487	366	515	514	520	700	608	760	296	114	171	161
17	456	394	519	512	520	700	618	505	42	170	164	168
18	361	402	517	515	520	650	582	392	42	188	155	155
19	395	320	511	507	620	620	647	347	65	131	133	152
20	440	95	490	521	550	630	688	499	239	107	138	142
21	401	72	501	524	570	620	615	607	315	64	159	141
22	352	117	507	525	600	610	559	536	312	67	206	129
23	346	306	501	528	620	600	479	481	215	80	225	114
24	406	510	505	530	650	640	425	463	171	77	270	105
25	396	340	505	534	680	680	497	430	171	113	205	123
26	406	425	500	531	710	729	518	573	163	92	242	167
27	359	433	522	546	700	794	508	613	191	132	163	163
28	326	436	522	545	660	810	463	640	188	131	97	128
29	382	442	522	561	---	638	326	620	158	119	122	117
30	353	465	523	576	---	802	276	620	149	96	142	122
31	369	---	526	550	---	714	---	660	---	83	148	---
TOTAL	8768	10981	15196	16160	15630	20607	17432	14819	12797	4100	4499	6821
MEAN	283	366	490	521	558	665	581	478	427	132	145	227
MAX	487	510	543	576	710	810	699	760	840	283	270	545
MIN	125	72	417	477	470	600	276	257	42	64	62	105
AC-FT	17390	21780	30140	32050	31000	40870	34580	29390	25380	8130	8920	13530

CAL YR 1980 TOTAL 148554 MEAN 406 MAX 1050 MIN 72 AC-FT 294700
WTR YR 1981 TOTAL 147810 MEAN 405 MAX 840 MIN 42 AC-FT 293200

10171000 JORDAN RIVER AT SALT LAKE CITY, UTAH

LOCATION.--Lat 40°44'01", long 111°55'21", in SW¼SE¼NW¼ 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 (1,220 m) downstream from diversion structure at head of Surplus Canal, and 1.7 mi (2.7 km) downstream from Mill Creek.

DRAINAGE AREA.--3,438 mi^2 (8,904 km^2) includes 255 mi^2 (660 km^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 (1,286.280 m) NGVD of 1929. Prior to July 1, 1976 at site 3,200 ft (975 m) upstream at same datum.

REMARKS.--Records good. Flow completely regulated since reconstruction in May 1952 of Surplus Canal diversion dam 4,000 ft (1,220 m) 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.--38 years (1943-81), 141 ft^3/s (3.99 m^3/s), 102,200 acre-ft/yr (126 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 384 ft^3/s (10.9 m^3/s) June 3, 1944, gage height, 5.55 ft (1.692 m); maximum gage height, 5.75 ft (1.753 m) 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 combined discharge (Jordan River and Surplus Canal), 2,220 ft^3/s (62.9 m^3/s) Sept. 18, 1978; minimum daily, 89 ft^3/s (2.52 m^3/s) June 23, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 263 ft^3/s (7.45 m^3/s) May 3, gage height, 3.49 ft (1.064 m); minimum, 108 ft^3/s (3.06 m^3/s) June 25, 26. Maximum daily combined discharge during year (Jordan River and Surplus Canal), 1,330 ft^3/s (37.7 m^3/s) June 3; minimum daily, 294 ft^3/s (8.33 m^3/s) Aug. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	158	185	182	169	181	181	123	153	133	141	149
2	157	156	190	181	176	181	181	129	158	138	140	148
3	161	155	186	180	184	189	181	192	199	138	137	147
4	158	155	180	183	179	186	178	159	159	137	135	147
5	157	155	189	182	179	187	179	152	144	153	136	168
6	160	151	184	181	179	186	179	145	139	164	134	178
7	163	165	184	182	180	185	175	140	141	153	130	169
8	171	176	182	181	182	185	177	155	146	154	132	163
9	169	173	169	185	182	184	178	138	148	154	141	174
10	168	176	163	188	177	183	178	130	146	156	144	183
11	167	179	163	188	178	183	181	139	146	149	143	177
12	166	206	164	188	182	183	179	144	154	145	141	167
13	162	181	163	185	183	183	178	148	151	143	139	164
14	167	184	162	186	183	181	178	145	154	138	135	159
15	187	182	160	186	180	177	173	169	136	135	132	156
16	207	178	159	184	181	181	169	176	125	134	140	160
17	195	180	159	183	182	171	169	148	122	140	147	165
18	195	183	158	182	181	172	164	143	118	148	145	159
19	197	174	166	182	184	185	165	129	115	156	142	157
20	192	153	178	182	177	187	164	135	117	151	143	155
21	187	141	181	182	172	184	164	157	119	147	142	156
22	184	134	185	181	172	181	161	141	118	148	144	155
23	189	167	182	181	173	183	156	134	114	148	151	156
24	196	187	182	178	170	186	151	138	113	148	146	156
25	193	177	180	176	157	186	150	137	110	151	139	158
26	193	186	178	175	160	192	149	150	112	148	136	162
27	186	185	176	174	168	190	149	170	113	153	142	156
28	182	185	174	174	181	174	141	157	125	149	151	155
29	178	187	177	172	---	163	130	149	133	147	157	156
30	165	188	183	175	---	175	123	146	134	143	155	155
31	162	---	183	171	---	171	---	150	---	141	154	---
TOTAL	5474	5157	5425	5610	4951	5635	4981	4568	4062	4542	4394	4810
MEAN	177	172	175	181	177	182	166	147	135	147	142	160
MAX	207	206	190	188	184	192	181	192	199	164	157	183
MIN	157	134	158	171	157	163	123	123	110	133	130	147
AC-FT	10860	10230	10760	11130	9820	11180	9880	9060	8060	9010	8720	9540

CAL YR 1980 TOTAL 58887 MEAN 161 MAX 214 MIN 98 AC-FT 116800
WTR YR 1981 TOTAL 59609 MEAN 163 MAX 207 MIN 110 AC-FT 118200

10170490 JORDAN RIVER AT SALT LAKE CITY, UTAH--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF JORDAN RIVER AND SURPLUS CANAL AT SALT LAKE CITY, UTAH, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	361	614	664	709	751	756	795	361	916	342	320	338
2	339	625	708	706	763	759	785	426	824	406	318	344
3	346	616	737	702	766	818	755	936	1330	437	299	354
4	338	601	739	721	725	816	752	670	976	405	294	366
5	342	596	758	719	725	819	768	494	807	381	318	516
6	353	597	688	714	726	808	768	475	840	396	304	620
7	360	598	670	732	727	798	720	457	909	339	306	582
8	386	597	660	731	743	808	741	566	939	340	309	551
9	370	595	634	734	752	810	772	501	914	356	320	549
10	361	584	673	728	682	811	737	472	850	391	326	510
11	357	591	683	726	703	807	755	577	739	360	359	466
12	360	813	681	726	742	818	763	490	762	346	374	424
13	418	695	678	710	748	823	742	507	839	347	365	409
14	427	627	678	723	746	820	747	491	824	333	352	397
15	480	627	682	720	726	814	742	768	635	329	349	369
16	709	613	692	721	738	858	728	1020	490	333	344	358
17	644	626	696	720	750	841	723	679	428	390	348	361
18	605	630	686	720	742	781	680	598	409	392	348	349
19	610	508	686	721	756	749	715	519	373	380	340	336
20	612	330	697	728	719	781	694	590	405	353	360	330
21	619	299	703	727	700	778	685	767	442	321	372	325
22	616	302	715	727	734	765	640	711	435	310	372	311
23	589	583	706	728	764	752	580	643	384	319	412	313
24	599	702	712	724	777	731	571	624	367	323	410	313
25	601	617	703	718	802	736	597	613	339	351	379	336
26	618	665	706	730	847	786	609	755	360	340	381	361
27	575	663	712	741	841	819	614	813	362	373	329	341
28	567	666	706	748	757	803	548	783	370	350	322	316
29	603	678	709	751	---	737	443	752	365	343	351	316
30	606	701	715	789	---	845	365	748	355	321	352	318
31	597	---	716	772	---	805	---	885	---	313	352	---
TOTAL	15368	17959	21593	22566	20952	24652	20534	19691	18988	11020	10685	11779
MEAN	496	599	697	728	748	795	684	635	633	355	345	393
MAX	709	813	758	789	847	858	795	1020	1330	437	412	620
MIN	338	299	634	702	682	731	365	361	339	310	294	311
AC-FT	30480	35620	42830	44760	41560	48900	40730	39060	37660	21860	21190	23360

CAL YR 1980 TOTAL 217291 MEAN 594 MAX 1350 MIN 228 AC-FT 431000
WTR YR 1981 TOTAL 215787 MEAN 591 MAX 1330 MIN 294 AC-FT 428000

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.
WATER TEMPERATURES: April 1975 to September 1978, current year, once-daily.
SEDIMENT DATA: October 1976 to current year, monthly.

INSTRUMENTATION.--Specific conductance recorder since October 1974; temperature recorder since April 1975.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,330 microhmos Mar. 29, 1977; minimum, 536 microhmos June 25, 1978.
WATER TEMPERATURES: Maximum, 28.0°C Aug. 29, 30, 1975; minimum, 0.5°C Jan. 2, 3, 1976.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,880 microhmos Sept. 3; minimum, 580 microhmos June 9.
WATER TEMPERATURES: Maximum, 23.5°C July 5, 23, 30, 31; minimum, 1.5°C Feb. 11.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN DIS-SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)
OCT 16...	1112	220	1440	7.3	6.5	10.5	2.8	6.9	--	3.8	--
NOV 20...	1025	155	1680	7.7	-1.0	7.5	8.1	6.9	--	4.7	--
DEC 23...	0904	177	1460	8.0	3.0	5.0	5.7	9.4	--	3.5	--
JAN 20...	0915	186	1470	7.7	.0	4.0	2.3	10.1	--	3.0	--
FEB 20...	1120	172	1390	8.2	2.5	5.5	5.0	9.4	--	2.6	--
MAR 26...	1330	209	1400	8.0	1.0	9.0	34	12.1	--	3.5	--
APR 27...	1300	160	1120	7.1	15.0	13.0	37	7.3	--	3.5	--
MAY 12...	1230	169	1320	7.3	15.5	13.0	3.6	9.8	--	4.9	--
JUN 03...	0930	216	830	7.6	15.0	10.5	87	8.1	--	2.5	--
JUL 21...	1130	138	1630	7.9	32.5	21.5	14	4.4	--	4.5	--
AUG 26...	1400	159	1720	7.6	31.5	21.0	29	4.8	--	3.8	--
SEP 08...	1430	170	1700	7.7	24.0	19.0	8.5	6.3	--	3.9	--

DATE	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML)	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 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
OCT 16...	--	1600	3400	420	210	--	83	51	150	43	3.2
NOV 20...	--	2	2	540	290	--	120	59	170	40	3.2
DEC 23...	--	81	190	440	210	--	84	57	160	43	3.3
JAN 20...	--	K8200	1900	420	200	--	80	53	160	44	13
FEB 20...	98	K16	52	410	190	--	77	53	150	43	3.2
MAR 26...	23000	6000	24000	390	--	180	75	50	140	43	3.1
APR 27...	3800	K750	690	360	--	180	76	42	120	41	2.7
MAY 12...	720	120	190	420	--	260	92	46	140	41	3.0
JUN 03...	2400	K670	2900	190	--	91	45	19	51	36	1.6
JUL 21...	2600	K790	1400	510	--	280	110	57	170	41	3.3
AUG 26...	2600	1200	1800	510	270	110	57	190	44	4.1	15
SEP 08...	14000	2200	1600	480	240	98	57	180	44	4.0	18

K Results based on colony count outside the acceptable range (non-ideal colony count).

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	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 16...	14	210	270	210	.7	23	862	934	1.2	512	--
NOV 20...	15	250	390	240	.7	26	1120	1180	1.5	469	--
DEC 23...	15	230	260	210	.6	23	1010	953	1.4	483	--
JAN 20...	13	220	260	200	.7	23	947	926	1.3	476	--
FEB 20...	13	220	250	200	.5	23	888	903	1.2	412	--
MAR 26...	13	210	240	200	.2	21	862	870	1.2	486	--
APR 27...	11	180	210	150	.5	19	765	744	1.0	330	--
MAY 12...	11	160	250	180	.4	20	696	843	.95	318	--
JUN 03...	4.6	100	94	68	.2	9.9	359	356	.49	209	--
JUL 21...	16	230	300	230	.7	25	1040	1060	1.4	388	--
AUG 26...	240	310	240	.7	26	1100	--	1100	1.5	472	--
SEP 08...	240	300	260	.6	28	1100	--	1090	1.5	505	--

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	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)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)
OCT 16...	.940	.930	1.1	1.2	3.7	1.5	4.60	2.2	2.4	6.0	--	--
NOV 20...	2.30	2.20	2.8	2.8	.40	.30	2.70	.20	2.5	4.9	--	--
DEC 23...	1.20	1.10	1.5	1.4	1.2	1.2	2.40	.10	2.3	3.7	--	--
JAN 20...	1.10	1.10	1.3	1.4	1.2	.90	2.30	.30	2.0	3.4	--	--
FEB 20...	1.10	1.10	--	1.4	.80	.70	1.90	.10	1.8	2.8	--	--
MAR 26...	1.30	1.20	--	1.5	2.2	1.2	3.50	1.1	2.4	11	--	--
APR 27...	.940	1.00	--	1.3	1.9	.90	2.80	.90	1.9	4.4	--	--
MAY 12...	1.40	1.40	--	1.8	2.2	1.8	3.60	.40	3.2	5.3	--	--
JUN 03...	.590	.620	--	.80	.91	.88	1.50	.00	1.5	2.9	--	--
JUL 21...	1.50	1.30	--	1.7	1.7	1.0	3.20	.90	2.3	6.0	--	--
AUG 26...	1.20	1.20	--	1.5	2.6	1.3	3.80	1.3	2.5	5.6	--	--
SEP 08...	1.30	1.20	--	1.5	1.5	1.1	2.80	.50	2.3	4.3	--	--

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHATE, TOTAL (MG/L AS PO4)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	POTASSIUM 40 DISSOLVED (PCI/L AS K40)
OCT 16...	--	--	1.4	1.4	27	1.70	--	5.2	.740	--	--
NOV 20...	--	--	2.2	2.2	22	1.40	--	4.3	1.40	--	--
DEC 23...	--	--	1.3	1.2	16	.750	2.30	2.3	.750	--	--
JAN 20...	--	--	1.1	1.0	15	.810	--	2.5	.660	--	9.7
FEB 20...	--	--	.89	.83	12	.840	--	2.6	.650	.610	9.7
MAR 26...	--	--	7.6	1.1	49	.920	--	2.8	.700	--	9.7
APR 27...	--	--	1.6	1.6	19	1.40	--	4.3	.870	--	8.2
MAY 12...	--	--	1.7	1.7	23	2.30	--	7.1	1.40	--	8.2
JUN 03...	--	--	1.4	1.0	13	.380	--	1.2	.460	.330	3.4
JUL 21...	--	--	2.8	2.2	27	2.00	--	6.1	1.80	--	12
AUG 26...	--	--	1.8	1.3	25	1.60	--	4.9	1.30	--	--
SEP 08...	--	--	1.5	1.6	19	1.30	--	4.0	1.20	--	--

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G 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, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)
NOV 20...	1025	14	1	13	--	100	20	80	--	--	1
FEB 20...	1120	6	6	0	--	300	200	80	--	--	1
MAY 12...	1230	13	2	11	--	0	0	70	--	--	0
AUG 26...	1400	20	0	20	--	100	20	80	--	--	1

DATE	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, SUS-PENDED RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)
NOV 20...	--	<1	--	0	0	10	--	0	--	<3	14
FEB 20...	--	<1	--	10	10	0	--	0	--	<3	17
MAY 12...	--	<1	--	30	20	10	--	0	--	<3	22
AUG 26...	--	<1	--	10	10	0	--	1	--	<3	21

DATE	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G 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)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)
NOV 20...	8	6	--	450	420	30	12	8	4	--	50
FEB 20...	11	6	--	740	690	50	10	8	2	--	40
MAY 12...	15	7	--	1000	810	190	27	21	6	--	60
AUG 26...	15	6	--	1800	1800	26	24	24	0	--	80

DATE	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)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G 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)
NOV 20...	10	40	.2	.2	.0	--	6	3	3	2
FEB 20...	30	10	.1	.0	.1	--	4	0	4	1
MAY 12...	30	30	.0	.0	.0	--	3	1	2	2
AUG 26...	50	33	.1	.1	.0	--	2	0	3	2

DATE	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
NOV 20...	0	2	--	0	0	0	50	20	30	--
FEB 20...	0	1	--	0	0	0	50	30	20	--
MAY 12...	1	1	--	0	0	0	30	10	20	--
AUG 26...	0	2	--	1	1	0	50	50	5	--

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

PHYTOPLANKTON ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NOV 20,80		MAR 26,81		MAY 12,81		AUG 26,81		SEP 8,81	
TIME	1025		1330		1230		1400		1430	
TOTAL CELLS/ML	1500		16000		2700		450000		180000	
DIVERSITY: DIVISION	0.9		1.3		1.3		0.1		0.2	
.CLASS	0.9		1.3		1.3		0.1		0.2	
..ORDER	1.1		2.0		1.6		0.3		0.2	
...FAMILY	1.3		2.5		2.8		0.3		0.3	
....GENUS	1.3		2.8		3.2		0.3		0.3	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHAETOPHORALES										
...										
....CHLOROSARCINOPSIS	--	-	--	-	--	-	--	-	--	-
..CHLOROCOCCALES										
...CHLOROCOCCACEAE										
....CHARACIUM	--	-	--	-	--	-	--	-	--	-
....SCHROEDERIA	13	1	--	-	--	-	--	-	--	-
...DICTYOSPHAERIACEAE										
....DICTYOSPHAERIUM	13	1	--	-	230	8	--	-	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	--	-	--	-	--	-
...MICRACTINIACEAE										
....GOLENKINIA	--	-	--	-	b	0	--	-	--	-
....MICRACTINIUM	--	-	1300	8	810a	30	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	13	1	99	1	100	4	--	-	--	-
....CHLORELLA	--	-	--	-	--	-	--	-	--	-
....CLOSTERIOPSIS	--	-	--	-	--	-	--	-	--	-
....FRANCEIA	--	-	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	360	2	b	0	--	-	--	-
....SELENASTRUM	--	-	b	0	--	-	--	-	--	-
....TREUBARIA	--	-	--	-	26	1	--	-	--	-
...PALMELLACEAE										
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE										
....ACTINASTRUM	--	-	530	3	320	12	--	-	--	-
....COELASTRUM	--	-	--	-	150	6	--	-	--	-
....CRUCIGENIA	--	-	660	4	--	-	--	-	--	-
....SCENEDESMUS	26	2	260	2	100	4	--	-	1800	1
....TETRASTRUM	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CARTERIA	--	-	99	1	--	-	--	-	--	-
....CHLAMYDOMONAS	26	2	890	6	--	-	--	-	--	-
...VOLVOCACEAE										
....PANDORINA	--	-	--	-	--	-	--	-	--	-
..ZYGNEMATALES										
...DESMIDIACEAE										
....CLOSTERIUM	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	120	8	300	2	26	1	b	0	--	-
....MELOSIRA	--	-	b	0	--	-	--	-	--	-
....STEPHANODISCUS	--	-	--	-	--	-	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	--	-	--	-	--	-	--	-
....COCCONEIS	--	-	b	0	--	-	--	-	--	-
....RHOICOSPHENIA	--	-	b	0	--	-	--	-	b	0
...CYMBELLACEAE										
....AMPHORA	--	-	--	-	--	-	--	-	--	-
....CYMBELLA	--	-	--	-	--	-	--	-	--	-
...DIATOMACEAE										
....DIATOMA	--	-	b	0	--	-	--	-	--	-
....OPEPHORA	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE										
....FRAGILARIA	--	-	170	1	--	-	--	-	--	-
....SYNEDRA	13	1	b	0	--	-	--	-	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	--	-	b	0	--	-	--	-
...NAVICULACEAE										
....CALONEIS	--	-	--	-	--	-	--	-	--	-
....ENTOMONEIS	--	-	--	-	--	-	--	-	--	-
....GYROSIGMA	--	-	--	-	--	-	--	-	--	-
....NAVICULA	51	3	260	2	150	6	4300	1	b	0
....NEIDIUM	--	-	--	-	--	-	--	-	--	-
....PINNULARIA	--	-	--	-	--	-	--	-	--	-
....PLEUROSIGMA	--	-	--	-	--	-	--	-	--	-

See footnotes at end of table.

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

PHYTOPLANKTON ANALYSES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE TIME	NOV 20,80 1025		MAR 26,81 1330		MAY 12,81 1230		AUG 26,81 1400		SEP 8,81 1430	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
...NITZSCHIACEAE										
....NITZSCHIA	26	2	500	3	130	5	--	-	b	0
...SURIRELLACEAE										
....CYMATOPLEURA	--	-	--	-	--	-	--	-	--	-
....SURIRELLA	--	-	b	0	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
.CRYPTOPHYCEAE										
..CRYPTOMONADALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	b	0	--	-	--	-
...CRYPTOMONADACEAE										
....CRYPTOMONAS	--	-	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHAMAESIPHONALES										
...CHAMAESIPHONACEAE										
....ENTOPHYSALIS	--	-	660	4	--	-	--	-	--	-
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....AGMENELLUM	--	-	--	-	--	-	--	-	--	-
....ANACYSTIS	13	1	330	2	300	11	--	-	170000a	97
....GOMPHOSPHAERIA	--	-	--	-	--	-	430000a	95	--	-
..NOSTOCALES										
...HAMMATOIDEACEAE										
....RAPHIDIOPSIS	--	-	b	0	--	-	--	-	--	-
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	--	-	16000	4	--	-
....ANABAENOPSIS	--	-	--	-	--	-	--	-	--	-
....APHANIZOMENON	--	-	--	-	--	-	--	-	--	-
....NOSTOC	--	-	--	-	--	-	--	-	--	-
...RIVULARIACEAE										
....GLOEOTRICHIA	--	-	--	-	--	-	--	-	--	-
...SCYTONEMATACEAE										
....PLECTONEMA	--	-	--	-	--	-	--	-	--	-
..OSCILLATORIALES										
...OSCILLATORIACEAE										
....LYNGBYA	--	-	200	1	--	-	--	-	--	-
....OSCILLATORIA	1200a	80	8400a	54	310	11	--	-	--	-
....SCHIZOTHRIX	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	130	1	b	0	--	-	--	-
....PHACUS	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	b	0	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..DINOKONTAE										
...CERATIACEAE										
....CERATIUM	--	-	--	-	--	-	--	-	b	0
...GYMNODINIACEAE										
....GYMNODINIUM	--	-	--	-	--	-	--	-	--	-

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organism, may or may not have been counted: Less than 1/2 percent.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	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)
NOV 20...	1025	--	6.2	1.1	--	--
JAN 20...	0915	17	--	--	--	--
FEB 20...	1120	--	13	2.6	--	--
MAR 26...	1330	11	--	--	--	--
MAY 12...	1230	--	10	1.9	--	--
JUN 03...	0930	9.8	--	--	--	--
JUL 21...	1130	10	--	--	--	--
AUG 26...	1400	--	7.0	1.6	--	--
SEP 08...	1430	10	--	--	--	--

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	1410	1360	1390	1340	1320	1330	1420	1340	1380	1380	1350	1360
2	1380	1330	1360	1350	1310	1330	1500	1330	1410	1400	1360	1390
3	1660	1320	1500	1410	1350	1390	1490	1470	1480	1430	1390	1410
4	1650	1610	1630	1400	1380	1390	1470	1420	1440	1420	1390	1410
5	1620	1540	1570	1420	1370	1390	1610	1390	1460	1510	1410	1460
6	1610	1550	1590	1420	1360	1390	1600	1510	1540	1450	1410	1430
7	1590	1550	1570	1390	1350	1370	1540	1510	1520	1420	1400	1410
8	1630	1540	1590	1350	1330	1340	1530	1510	1520	1480	1390	1440
9	1600	1560	1590	1350	1320	1340	1530	1510	1520	1460	1440	1450
10	1570	1530	1560	1530	1310	1420	1520	1500	1510	1450	1430	1450
11	1570	1520	1540	1540	1500	1520	1510	1490	1500	1450	1420	1440
12	1540	1440	1500	1510	1110	1330	1510	1480	1500	1430	1400	1420
13	1480	1350	1430	1560	1350	1500	1480	1440	1470	1420	1380	1400
14	1590	1450	1540	1540	1500	1520	1460	1430	1450	1380	1310	1350
15	1490	1140	1330	1520	1490	1500	1480	1450	1460	1310	1280	1300
16	1610	1220	1350	1520	1490	1500	1480	1460	1470	1280	1230	1260
17	1470	1360	1440	1500	1460	1490	1490	1470	1480	1220	1190	1210
18	1470	1440	1460	1470	1420	1460	1480	1470	1480	1190	1160	1180
19	1450	1420	1440	1440	1410	1420	1490	1470	1480	1170	1120	1150
20	1430	1410	1420	1670	1420	1520	1490	1460	1480	1440	1100	1300
21	1440	1400	1430	1730	1640	1680	1480	1460	1480	1440	1420	1430
22	1470	1390	1420	1680	1630	1660	1480	1450	1470	1440	1420	1430
23	1450	1420	1440	1770	1400	1510	1470	1440	1460	1420	1350	1390
24	1440	1410	1420	1500	1240	1370	1460	1430	1450	1380	1340	1350
25	1440	1410	1420	1540	1460	1510	1440	1410	1430	1400	1350	1380
26	1450	1420	1440	1490	1450	1470	1420	1400	1410	1360	1330	1350
27	1450	1430	1440	1450	1410	1440	1420	1380	1410	1330	1300	1320
28	1440	1400	1420	1410	1350	1380	1400	1360	1380	1300	1240	1280
29	1410	1350	1380	1350	1280	1320	1380	1340	1360	1250	1130	1200
30	1370	1340	1360	1390	1250	1310	1340	1320	1330	1140	1100	1120
31	1360	1330	1350	---	---	---	1360	1320	1340	1130	1080	1100
MONTH	1660	1140	1460	1770	1110	1440	1610	1320	1450	1510	1080	1340

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1100	1080	1090	1110	1070	1090	1200	1130	1180	1370	1110	1200
2	1100	1030	1070	1140	1100	1130	1170	1110	1140	1230	970	1060
3	1030	980	1010	1180	1050	1090	1160	1110	1130	960	600	786
4	970	920	950	1190	1110	1150	1140	1110	1130	1100	890	989
5	920	870	898	1110	1090	1100	1110	1080	1100	1220	1070	1130
6	880	860	872	1130	1080	1090	1090	1070	1070	1240	1150	1190
7	870	860	869	1230	1130	1170	1200	1090	1140	1280	1230	1260
8	870	860	865	1410	1230	1370	1290	1180	1220	1300	970	1180
9	870	850	861	1340	1280	1300	1340	1280	1310	1360	1220	1300
10	870	860	862	1310	1250	1280	1310	1230	1270	1360	1320	1340
11	870	840	860	1240	1230	1230	1250	1170	1210	1310	1060	1210
12	840	800	826	1260	1220	1230	1180	1140	1170	1330	1290	1310
13	830	820	826	1290	1260	1280	1200	1120	1160	1460	1310	1370
14	830	820	824	1270	1240	1260	1180	1110	1140	1490	1420	1450
15	820	810	813	1280	1230	1260	1120	1090	1100	1480	890	1220
16	820	800	810	1220	1110	1180	1100	1050	1080	1140	730	930
17	820	800	810	1210	1130	1170	1090	1010	1050	1260	1150	1210
18	820	800	808	1240	1180	1220	1130	1080	1100	1290	1240	1260
19	800	740	783	1290	1240	1270	1140	1040	1100	1290	1240	1260
20	1520	750	1160	1350	1240	1270	1040	1000	1020	1250	1090	1170
21	1470	1430	1450	1400	1330	1380	1070	1010	1050	1140	980	1050
22	1440	1370	1420	1370	1210	1290	1040	1000	1020	1170	1070	1130
23	1440	1410	1420	1380	1210	1330	1030	970	998	1180	1140	1160
24	1430	1270	1370	1390	1280	1360	1000	970	978	1150	1100	1120
25	1430	1160	1230	1340	1230	1270	970	890	924	1130	1080	1100
26	1440	1170	1280	1240	1040	1160	890	800	832	1060	860	928
27	1130	1020	1060	1130	1010	1080	1310	800	1040	850	710	785
28	1100	1060	1090	1150	1090	1130	1280	1200	1240	840	770	800
29	---	---	---	1220	1150	1190	1380	1280	1330	900	790	840
30	---	---	---	1160	1050	1100	1380	1230	1300	890	800	840
31	---	---	---	1170	1130	1150	---	---	---	810	710	750
MONTH	1520	740	1010	1410	1010	1210	1380	800	1120	1490	600	1110

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	820	680	736	1620	1590	1600	1740	1690	1710	1770	1720	1750
2	830	750	785	1630	1370	1540	1750	1690	1720	1840	1740	1770
3	760	590	645	1570	1410	1510	1780	1690	1740	1880	1760	1810
4	800	700	750	1640	1570	1590	1780	1740	1760	1790	1750	1770
5	820	730	772	1660	1620	1640	1870	1750	1810	1770	1280	1590
6	830	710	761	1760	1550	1670	1820	1760	1790	1650	1530	1600
7	750	680	710	1710	1560	1650	1780	1760	1770	1700	1650	1680
8	720	620	669	1710	1670	1690	1780	1720	1750	1710	1590	1680
9	700	580	634	1690	1520	1650	1770	1740	1750	1770	1580	1710
10	760	630	690	1670	1530	1620	1770	1730	1750	1760	1720	1740
11	890	710	790	1690	1650	1670	1760	1720	1730	1760	1650	1720
12	890	760	817	1720	1650	1680	1760	1690	1720	1720	1670	1690
13	880	790	843	1720	1660	1690	1750	1710	1730	1720	1670	1700
14	980	810	904	1700	1650	1670	1750	1700	1730	1720	1680	1700
15	1140	980	1060	1680	1650	1660	1750	1710	1730	1720	1670	1700
16	1300	1140	1220	1710	1640	1660	1740	1690	1720	1730	1680	1700
17	1350	1260	1290	1740	1650	1680	1760	1720	1740	1720	1670	1700
18	1380	1300	1340	1680	1640	1660	1760	1700	1740	1680	1640	1660
19	1390	1310	1350	1680	1620	1650	1800	1700	1740	1670	1630	1650
20	1390	1250	1320	1660	1640	1650	1770	1730	1750	1650	1610	1640
21	1390	1250	1310	1690	1630	1660	1780	1700	1740	1740	1610	1670
22	1390	1240	1310	1650	1600	1630	1800	1700	1740	1720	1670	1690
23	1410	1310	1350	1650	1610	1630	1840	1740	1780	1700	1620	1650
24	1440	1360	1390	1700	1620	1660	1800	1720	1770	1650	1610	1640
25	1490	1450	1460	1690	1650	1660	1780	1710	1750	1650	1590	1630
26	1520	1420	1470	1710	1650	1670	1810	1730	1760	1630	1580	1610
27	1570	1500	1550	1690	1630	1660	1820	1730	1780	1640	1590	1620
28	1570	1500	1520	1700	1660	1680	1810	1760	1780	1650	1610	1630
29	1580	1520	1550	1680	1640	1660	1820	1670	1750	1670	1630	1650
30	1610	1530	1590	1750	1670	1720	1760	1720	1740	1660	1610	1640
31	---	---	---	1770	1720	1750	1770	1710	1750	---	---	---
MONTH	1610	580	1090	1770	1370	1650	1870	1670	1750	1880	1280	1680
YEAR	1880	580	1360									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.0	14.5	16.5	11.0	9.0	10.0	7.0	5.0	6.0	5.0	4.5	4.5
2	17.5	14.0	16.0	11.5	9.5	10.5	6.0	5.0	5.5	5.0	4.5	4.5
3	17.5	14.0	15.5	11.0	9.0	10.5	6.5	6.0	6.0	5.0	4.5	4.5
4	17.5	13.5	15.5	11.5	9.0	10.5	7.0	6.0	6.5	5.0	4.5	4.5
5	17.5	14.0	15.5	11.5	9.5	11.0	6.5	5.5	6.0	5.0	4.5	4.5
6	17.0	14.0	15.5	12.0	10.0	11.0	6.0	4.5	5.5	5.0	4.0	4.5
7	17.5	14.0	15.5	12.5	10.5	11.5	6.0	5.0	5.5	4.5	4.0	4.5
8	17.0	14.0	15.5	12.0	10.5	11.5	5.0	3.5	4.0	4.5	3.5	4.0
9	16.5	13.5	15.5	11.5	9.5	10.5	4.5	3.5	4.0	4.5	3.5	4.0
10	16.5	13.5	15.0	11.0	9.5	10.5	4.0	2.5	3.5	4.5	3.5	4.0
11	16.5	13.5	15.0	11.0	10.0	10.5	4.0	2.5	3.5	4.5	3.5	4.0
12	15.5	13.5	14.5	11.0	9.0	10.0	4.5	3.0	3.5	4.0	3.5	4.0
13	15.5	13.0	14.5	9.5	8.5	9.0	4.0	3.0	3.5	4.0	3.5	3.5
14	14.5	13.0	13.5	8.5	7.5	8.0	4.0	3.5	4.0	3.5	3.0	3.5
15	13.0	11.0	12.0	8.0	6.0	7.0	4.5	3.5	4.0	3.5	3.0	3.5
16	12.0	10.5	11.0	7.0	5.5	6.5	4.5	3.5	4.0	4.0	3.0	3.5
17	12.0	10.5	11.5	7.0	5.0	6.5	4.5	3.5	4.0	4.5	3.0	4.0
18	13.0	11.0	12.0	6.5	5.0	6.0	4.0	3.5	4.0	4.5	3.0	4.0
19	13.0	11.0	12.0	8.0	5.0	6.5	4.0	3.5	4.0	4.5	3.0	4.0
20	13.0	11.0	12.5	9.5	7.5	8.5	4.5	3.5	4.0	4.5	3.5	4.0
21	13.5	11.0	12.5	9.5	7.5	8.5	5.0	4.0	4.5	4.0	3.5	4.0
22	13.5	11.5	12.5	10.0	8.5	9.5	5.5	4.0	5.0	4.5	3.5	4.0
23	12.0	10.0	11.0	10.0	6.5	7.5	5.5	4.5	5.0	4.5	4.0	4.0
24	11.5	9.0	10.5	7.0	4.5	5.5	5.5	4.0	5.0	5.0	3.5	4.5
25	11.5	9.0	10.5	5.5	4.5	5.0	6.0	4.5	5.5	5.0	3.5	4.5
26	11.5	10.0	10.5	6.0	4.0	5.0	6.0	5.0	5.5	4.5	3.0	4.0
27	11.0	9.5	10.0	5.5	4.0	5.0	6.0	5.0	5.5	5.0	4.0	4.5
28	10.0	8.5	9.5	5.5	4.0	5.0	6.0	4.5	5.5	5.5	4.0	5.0
29	10.5	8.0	9.5	5.5	4.5	5.0	5.5	4.5	5.0	5.5	4.0	5.0
30	10.5	8.0	9.5	6.5	5.0	5.5	5.5	4.0	5.0	5.5	4.5	5.0
31	11.0	8.5	10.0	---	---	---	5.0	4.0	5.0	4.5	3.5	4.0
MONTH	18.0	8.0	13.0	12.5	4.0	8.5	7.0	2.5	5.0	5.5	3.0	4.0

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	5.0	3.5	4.0	8.5	7.0	8.0	10.0	8.0	9.5	17.5	13.0	15.5
2	4.5	2.5	3.5	8.5	6.5	7.5	11.0	9.0	10.0	16.5	13.0	14.0
3	4.5	2.5	3.5	7.5	6.0	7.0	10.5	8.5	9.5	13.0	10.5	12.0
4	4.0	2.5	3.5	8.5	6.0	7.5	9.5	7.5	8.5	14.5	9.0	11.5
5	4.5	2.5	3.5	8.5	7.0	8.0	10.5	7.5	9.0	14.0	11.5	13.0
6	5.0	3.5	4.0	9.0	7.0	8.5	11.5	8.5	10.0	13.5	11.0	12.0
7	5.0	3.0	4.0	10.0	8.0	9.0	12.0	9.5	11.0	14.0	9.0	11.5
8	5.0	3.5	4.5	10.0	7.5	8.5	11.5	8.5	10.5	13.0	10.5	11.5
9	6.0	4.0	5.0	10.0	7.0	8.5	13.0	10.0	11.5	15.5	10.5	13.0
10	5.5	3.5	4.5	10.0	7.5	9.0	13.5	10.5	12.0	16.5	12.0	14.0
11	3.5	1.5	3.0	9.5	7.5	8.5	14.0	11.5	12.5	15.0	12.5	14.0
12	5.5	3.5	4.5	10.0	7.5	9.0	14.5	11.0	13.0	14.0	11.5	13.0
13	6.0	3.5	5.0	10.0	8.0	9.0	14.5	11.5	13.0	15.5	11.0	13.5
14	6.0	5.0	5.5	10.5	8.0	9.5	14.0	11.0	12.5	16.5	13.0	14.5
15	6.5	4.5	5.5	11.0	8.5	10.0	14.0	12.0	13.0	15.5	12.5	13.5
16	7.0	5.0	6.0	10.5	9.0	9.5	15.0	12.0	13.5	12.5	10.5	11.0
17	8.0	6.0	7.0	9.0	7.5	8.0	15.5	12.5	14.0	13.5	10.5	11.5
18	7.5	6.0	7.0	9.5	7.0	8.5	15.0	13.0	14.5	15.5	11.0	13.0
19	7.5	6.0	7.0	9.5	8.5	9.0	15.0	12.5	13.5	15.5	13.0	14.5
20	7.0	5.5	6.0	9.5	8.0	8.5	13.5	10.5	12.0	14.5	12.5	13.0
21	6.5	4.5	5.5	9.5	7.5	8.5	13.5	12.0	13.0	12.5	10.5	11.0
22	6.5	4.5	5.5	11.0	8.0	9.5	15.0	11.5	13.0	13.5	11.0	12.5
23	7.5	4.5	6.5	11.5	9.0	10.5	16.0	11.5	14.0	16.0	12.0	13.5
24	8.0	5.5	7.0	12.0	10.0	11.0	16.5	13.0	15.0	16.0	12.5	14.5
25	8.5	6.5	7.5	11.5	9.0	10.0	17.0	14.0	15.5	15.5	14.0	15.0
26	8.5	7.5	7.5	10.0	8.0	9.0	16.0	12.5	14.0	15.0	12.5	13.0
27	8.5	6.5	7.5	8.5	6.5	7.5	14.0	12.5	13.0	14.5	11.5	13.0
28	8.5	6.5	7.5	10.5	8.0	9.0	14.5	11.0	12.5	13.5	11.5	12.5
29	---	---	---	11.5	8.5	10.0	16.5	12.0	14.0	16.0	11.0	13.5
30	---	---	---	10.0	7.5	8.5	17.5	13.0	15.5	15.0	12.0	13.5
31	---	---	---	10.0	7.5	9.0	---	---	---	15.0	11.5	13.5
MONTH	8.5	1.5	5.5	12.0	6.0	9.0	17.5	7.5	12.5	17.5	9.0	13.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	15.5	10.5	13.0	21.0	19.0	20.0	22.5	18.5	20.5	21.0	16.5	19.0
2	14.5	11.5	13.0	21.5	18.0	19.5	23.0	18.5	21.0	20.5	17.5	19.0
3	13.0	10.0	12.0	22.5	18.0	20.0	23.0	18.5	20.5	21.0	17.0	19.0
4	15.0	10.5	12.5	23.0	18.5	21.0	23.0	18.0	20.5	21.0	17.0	19.0
5	16.5	11.5	14.0	23.5	18.5	21.0	22.5	18.0	20.5	18.5	17.5	18.0
6	16.5	12.5	14.5	22.0	20.0	21.0	22.5	18.0	20.5	18.0	16.5	17.5
7	16.0	12.5	14.5	23.0	18.5	20.5	23.0	18.0	20.5	19.0	17.0	18.0
8	16.5	12.5	14.5	22.0	17.0	19.5	23.0	19.0	21.0	21.0	17.5	19.0
9	15.5	12.0	14.0	21.0	18.5	20.0	22.5	18.0	20.5	20.0	18.0	19.0
10	16.0	11.5	14.0	23.0	18.0	20.5	20.5	18.0	19.5	20.0	17.5	19.0
11	17.5	12.5	14.5	22.0	18.5	20.5	19.5	17.0	18.5	20.5	17.5	19.0
12	17.0	13.5	15.5	23.0	18.5	20.5	21.5	17.5	19.0	21.5	17.5	19.5
13	15.5	12.0	13.5	23.0	19.0	21.0	21.0	18.5	19.5	21.5	18.0	19.5
14	14.0	11.0	12.5	23.0	18.5	20.5	22.0	17.5	19.5	21.0	17.5	19.5
15	16.0	11.5	13.5	22.5	17.5	20.0	22.5	18.5	20.5	21.0	17.0	19.0
16	17.5	13.0	15.5	21.0	18.5	20.0	23.0	18.5	20.5	21.0	17.0	19.0
17	18.0	14.5	16.5	22.5	17.5	20.0	23.0	18.5	20.5	21.0	17.0	19.0
18	19.0	14.5	16.5	21.5	18.5	20.5	22.0	18.5	20.5	21.0	17.0	19.0
19	20.0	15.0	17.5	23.0	18.5	21.0	22.0	18.5	20.0	20.0	17.0	18.5
20	21.0	16.0	18.5	23.0	18.5	21.0	23.0	19.0	20.5	20.0	16.5	18.5
21	20.0	16.5	18.5	23.0	18.5	21.0	22.5	19.0	20.5	20.0	17.0	18.5
22	21.0	16.0	18.5	23.0	18.5	21.0	22.0	18.5	20.5	19.0	16.0	18.0
23	21.5	17.5	19.5	23.5	18.5	21.0	21.0	18.5	20.0	19.5	16.0	17.5
24	21.5	16.5	19.0	22.0	19.0	20.5	22.0	18.0	20.0	19.5	16.5	18.0
25	22.0	17.5	20.0	22.0	19.0	20.5	23.0	19.0	21.0	17.5	16.0	16.5
26	21.5	18.5	20.0	21.0	18.0	19.5	23.0	19.0	21.0	17.5	14.0	15.5
27	20.0	18.5	19.0	22.5	17.5	19.5	23.0	19.0	21.0	18.0	14.0	16.0
28	22.0	17.5	19.5	22.5	18.0	20.5	21.5	18.5	20.0	18.0	14.5	16.5
29	22.0	17.0	19.5	22.0	19.0	20.5	21.5	18.5	20.0	17.5	15.5	16.5
30	22.0	18.0	20.0	23.5	19.0	21.0	21.0	18.5	19.5	18.0	14.5	16.0
31	---	---	---	23.5	19.0	21.0	21.0	17.0	19.0	---	---	---
MONTH	22.0	10.0	16.0	23.5	17.0	20.5	23.0	17.0	20.0	21.5	14.0	18.0

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UTAH
(Hydrologic bench mark station)

LOCATION.--Lat 40°46'48", long 111°48'19", in NW¼SW¼NE¼ sec.35, T.1 N., R.1 E., Salt Lake County, Hydrologic Unit 16020204, on right bank 0.4 mi (0.6 km) upstream from dam forming Red Butte Reservoir, and 1.7 mi (2.7 km) northeast of Fort Douglas.

DRAINAGE AREA.--7.25 mi^2 (18.8 km^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 (1,646 m) from topographic map.

REMARKS.--Records good. No regulation or diversion above station. Discharge measurements generally made once a month. Most of flow is collected in reservoir below station and used for water supply of Fort Douglas.

AVERAGE DISCHARGE.--18 years, 4.03 ft^3/s (0.114 m^3/s), 2,920 acre-ft/yr (3.60 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 60 ft^3/s (1.70 m^3/s) May 18, 1975, gage height, 3.50 ft (1.067 m); minimum, 0.23 ft^3/s (0.007 m^3/s) Dec. 22, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 10 ft^3/s (0.28 m^3/s), 11 ft^3/s (0.31 m^3/s) May 22, gage height, 1.28 ft (0.390 m); minimum, 0.66 ft^3/s (0.019 m^3/s) Jan. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.9	1.9	1.7	1.7	2.1	3.6	3.5	5.6	2.3	1.3	1.4
2	1.6	1.8	1.9	1.7	1.6	2.0	3.7	3.5	5.7	2.6	1.3	1.4
3	1.6	1.8	2.1	1.7	1.6	2.1	3.7	4.3	6.2	2.5	1.2	1.4
4	1.6	1.9	2.1	1.8	1.6	2.0	3.5	3.6	5.7	2.4	1.2	1.4
5	1.7	1.8	2.2	1.7	1.5	2.0	3.4	3.4	5.1	2.2	1.3	1.6
6	1.7	1.8	2.0	1.7	1.6	2.0	3.5	3.5	4.8	2.3	1.4	1.7
7	1.7	1.9	2.0	1.6	1.6	2.0	3.6	3.2	4.7	2.2	1.4	1.6
8	1.6	1.9	1.8	1.7	1.6	1.9	3.6	3.5	4.5	2.2	1.5	1.6
9	1.7	1.9	1.9	1.6	1.6	1.9	3.7	3.3	4.4	2.2	1.5	1.6
10	1.6	1.9	1.8	1.7	1.6	1.9	3.9	3.1	4.3	2.2	1.9	1.6
11	1.6	1.9	1.9	1.7	1.6	1.9	4.4	3.5	4.1	2.0	1.9	1.5
12	1.6	2.5	1.9	1.7	1.6	1.9	4.4	3.3	3.9	1.9	1.9	1.4
13	1.7	2.0	1.8	1.6	1.7	1.9	4.4	3.2	4.0	1.9	1.9	1.4
14	1.7	2.0	1.8	1.6	1.7	2.0	4.3	3.0	4.4	1.9	1.9	1.4
15	2.1	1.9	1.8	1.6	1.7	2.0	4.6	3.8	4.0	1.9	1.8	1.2
16	2.1	2.0	1.8	1.6	1.7	2.1	4.7	4.7	3.7	1.9	1.8	1.2
17	2.1	2.0	1.8	1.7	2.0	2.1	5.2	5.6	3.5	1.8	1.7	1.2
18	2.0	2.0	1.8	1.6	1.9	2.1	5.4	5.4	3.4	1.8	1.6	1.2
19	2.1	1.9	1.8	1.6	1.9	2.0	5.7	5.3	3.4	1.8	1.6	1.1
20	2.1	1.9	1.8	1.6	2.0	2.1	5.4	5.8	3.2	1.7	1.6	1.0
21	2.1	1.9	1.8	1.6	1.8	2.1	5.1	8.8	3.1	1.6	1.6	1.1
22	2.0	2.0	1.8	1.6	1.8	2.4	4.9	11	3.0	1.6	1.6	1.0
23	1.9	1.9	1.8	1.6	1.8	2.5	4.6	9.7	2.9	1.6	1.6	1.0
24	1.9	2.1	1.7	1.7	1.8	2.7	4.6	8.6	2.8	1.6	1.6	1.0
25	1.9	1.9	1.8	1.6	1.9	2.7	4.5	7.9	2.6	1.6	1.5	1.0
26	1.9	2.3	1.8	1.6	2.3	2.8	4.4	7.6	2.6	1.6	1.5	1.1
27	1.9	2.0	1.8	1.6	2.1	2.8	4.2	7.3	2.6	1.6	1.5	.99
28	1.9	2.0	1.8	1.6	2.0	2.8	4.0	6.8	2.5	1.5	1.5	.93
29	1.9	2.0	1.8	1.7	---	3.6	3.8	6.4	2.4	1.4	1.4	.93
30	1.9	2.0	1.7	1.7	---	4.4	3.6	6.1	2.3	1.4	1.4	.88
31	1.9	---	1.7	1.6	---	3.8	---	5.8	---	1.4	1.4	---
TOTAL	56.7	58.8	57.4	51.1	49.3	72.6	128.4	164.5	115.4	58.6	48.3	37.83
MEAN	1.83	1.96	1.85	1.65	1.76	2.34	4.28	5.31	3.85	1.89	1.56	1.26
MAX	2.1	2.5	2.2	1.8	2.3	4.4	5.7	11	6.2	2.6	1.9	1.7
MIN	1.6	1.8	1.7	1.6	1.5	1.9	3.4	3.0	2.3	1.4	1.2	.88
AC-FT	112	117	114	101	98	144	255	326	229	116	96	75

CAL YR 1980 TOTAL 1271.40 MEAN 3.47 MAX 14 MIN 1.2 AC-FT 2520
WTR YR 1981 TOTAL 898.93 MEAN 2.46 MAX 11 MIN .88 AC-FT 1780

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, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	NITRO-GEN DIS-SOLVED (MG/L AS N)	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT 22...	0855	2.0	630	8.0	.5	4.5	9.9	--	470	18
NOV 18...	1115	1.7	640	8.3	-5.0	.5	11.9	--	--	5
DEC 23...	1230	1.8	610	8.3	13.0	3.0	10.9	--	--	1
JAN 20...	1235	1.6	630	8.1	6.0	1.5	11.4	.40	--	1
FEB 18...	1230	1.8	620	8.3	11.0	4.0	--	.51	--	K2
MAR 25...	1000	2.7	640	8.3	11.0	3.0	12.1	.32	27	<1
APR 21...	1300	5.4	510	7.5	9.5	7.0	10.9	.99	K51	K2
MAY 11...	1200	3.6	550	7.9	8.0	8.0	10.0	.58	90	K13
JUN 04...	1100	5.5	520	7.5	18.5	10.0	8.8	.57	150	K8
JUL 22...	1200	2.0	590	8.4	24.0	15.0	9.0	.54	--	55
AUG 25...	1230	1.2	620	8.2	29.5	16.0	9.7	.37	--	52
SEP 14...	0930	1.8	650	8.1	20.5	12.5	6.5	1.7	--	110

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L 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 22...	61	340	95	--	88	28	13	8	.3	1.3
NOV 18...	21	350	110	--	92	29	13	7	.3	1.1
DEC 23...	24	330	140	--	88	26	13	8	.3	1.1
JAN 20...	1	340	100	--	92	27	12	7	.3	1.0
FEB 18...	K8	340	110	--	92	27	13	8	.3	1.1
MAR 25...	1	340	--	120	94	26	13	8	.3	1.0
APR 21...	36	270	--	65	73	20	11	8	.3	1.0
MAY 11...	42	290	--	80	78	23	11	8	.3	1.0
JUN 04...	63	280	--	61	78	21	12	8	.3	.9
JUL 22...	--	310	--	89	81	26	13	8	.3	1.4
AUG 25...	94	320	--	85	83	26	13	8	.3	1.2
SEP 14...	120	320	--	88	83	27	13	8	.3	1.2

K Results based on colony count outside the acceptable range (non-ideal colony count).

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, 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 CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT 22...	240	110	18	.2	12	404	415	.55	2.2
NOV 18...	240	110	15	.2	12	405	417	.55	1.9
DEC 23...	190	130	12	.2	10	409	395	.56	2.0
JAN 20...	240	120	12	.2	10	416	419	.57	1.8
FEB 18...	230	130	12	.1	10	418	423	.57	2.0
MAR 25...	220	130	12	.0	10	424	418	.58	3.0
APR 21...	200	74	10	.2	10	315	320	.43	4.6
MAY 11...	210	85	11	.1	10	364	346	.50	3.5
JUN 04...	220	70	9.2	.1	11	341	336	.46	5.0
JUL 22...	220	99	12	.1	13	374	378	.51	2.0
AUG 25...	230	100	13	.1	13	377	388	.51	1.3
SEP 14...	230	98	15	.1	13	386	389	.52	1.9

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DIS-SOLVED (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)	NITROGEN, TOTAL (MG/L AS N)
OCT 22...	--	--	--	--	--	--	--	--	--	--
NOV 18...	.010	.030	.01	.04	--	--	--	--	--	--
DEC 23...	--	--	--	--	--	--	--	--	--	--
JAN 20...	.030	.070	.04	.09	1.1	.28	1.10	.75	.35	1.1
FEB 18...	.010	.020	--	.03	.99	.49	1.00	.49	.51	1.0
MAR 25...	.110	.080	--	.10	.82	.22	.93	.63	.30	1.0
APR 21...	.110	.050	--	.06	.82	.92	.93	.00	.97	.96
MAY 11...	.120	.070	--	.09	.39	.44	.51	.00	.51	.57
JUN 04...	.000	.090	--	.12	.29	.19	.29	.01	.28	.58
JUL 22...	.010	.050	--	.06	.63	.49	.64	.10	.54	.64
AUG 25...	.050	.080	--	.10	.54	.28	.59	.23	.36	.60
SEP 14...	<.070	<.070	--	.09	--	--	<.22	--	1.5	--

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DIS-SOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	POTASSIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT 22...	.00	.00	--	.090	.28	--	--	.060	.18	--
NOV 18...	.04	.07	--	.020	.06	.030	--	--	--	--
DEC 23...	.20	.21	--	--	--	--	--	--	--	.80
JAN 20...	.04	.05	5.0	.070	.21	.020	--	--	--	--
FEB 18...	.01	.00	4.5	.100	.31	.070	--	--	--	.80
MAR 25...	.11	.02	4.6	.040	.12	.030	--	--	--	.70
APR 21...	.03	.02	4.3	.060	.18	.040	--	--	--	.70
MAY 11...	.06	.07	2.5	.090	.28	.050	--	--	--	.70
JUN 04...	.29	.29	2.6	.050	.15	.040	.010	--	--	.70
JUL 22...	.00	.00	2.8	.080	.25	.050	--	--	--	1.0
AUG 25...	.01	.01	2.7	.060	.18	.050	--	--	--	--
SEP 14...	.12	.16	--	.060	.18	.090	--	--	--	--

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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, DIS-SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)
APR 21...	1300	2	1	1	100	40	60	<1	0	<1
AUG 25...	1230	3	0	3	100	30	70	<1	0	<1

DATE	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL 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)
APR 21...	10	7	3	<3	4	<10	250	220	28	2
AUG 25...	10	10	0	<3	5	<10	350	310	39	3

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	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)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, TOTAL (UG/L AS SE)
APR 21...	<10	7	40	20	18	.0	.0	.0	<10	1
AUG 25...	<10	12	90	60	35	.0	.0	.0	<10	0

DATE	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
APR 21...	1	0	0	0	0	380	<6.0	10	<3
AUG 25...	0	0	0	0	0	510	<6.0	20	<3

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)
JAN 20...	1235	7.3	--	--	--
FEB 18...	1230	8.2	--	--	--
MAR 25...	1000	2.7	--	--	--
APR 21...	1300	--	3.5	.2	.00
MAY 11...	1200	5.9	--	--	--
JUN 04...	1100	12	--	--	--
JUL 22...	1200	4.4	--	--	--
AUG 25...	1230	--	1.8	.2	.00
SEP 14...	0930	1.8	--	--	--

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	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)
AUG 25...	1230	<8.7	<.4	<7.0	<.4	<6.5	<.4	.08	1.3

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT 22...	0855	2.0	4.5	56	61	.30
NOV 18...	1115	1.7	.5	29	84	.14
DEC 23...	1230	1.8	3.0	3	46	.01
JAN 20...	1235	1.6	1.5	6	44	.03
FEB 18...	1230	1.8	4.0	20	72	.10

10172550 JORDAN RIVER AT 5TH NORTH, AT SALT LAKE CITY, UTAH

LOCATION.--Lat 40°46'49", long 111°56'16", in SW¼NW¼NE¼ sec.34, T.1 N., R.1 W., Salt Lake County, Hydrologic Unit 16020204, on left bank at downstream edge of 5th North Street bridge in Salt Lake City.

DRAINAGE AREA.--3,562 mi^2 (2,226 km^2).

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 (1,283 m), 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.--6 years, 178 ft^3/s (5.04 m^3/s), 129,000 acre-ft/yr (159 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 792 ft^3/s (22.4 m^3/s) Sept. 18, 1978, gage height, 5.79 ft (1.765 m); minimum recorded, 60 ft^3/s (1.70 m^3/s) Oct. 18, 1979 (discharge measurement).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 446 ft^3/s (12.6 m^3/s) May 3, gage height, 4.56 ft (1.390 m); minimum, 137 ft^3/s (3.88 m^3/s) Nov. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	170	157	204	196	194	194	200	158	226	165	181	189
2	162	152	205	195	192	194	202	166	242	193	180	187
3	162	148	204	194	250	224	208	304	308	188	173	185
4	161	149	197	202	194	198	197	192	252	172	169	185
5	158	148	227	198	192	197	196	188	224	184	172	237
6	161	146	200	194	194	195	197	187	218	220	176	237
7	161	155	197	194	194	192	194	180	219	195	182	204
8	168	176	196	194	195	192	193	221	214	187	179	202
9	167	168	189	196	196	191	191	165	196	190	184	205
10	170	176	181	200	194	189	190	160	192	199	200	215
11	168	187	181	200	188	188	195	202	190	192	203	210
12	172	281	181	200	197	188	202	177	200	184	193	195
13	175	212	180	199	195	188	195	180	196	182	187	186
14	172	209	179	199	193	188	213	175	250	175	182	178
15	249	211	177	199	190	182	200	271	213	174	178	164
16	280	202	178	199	191	196	211	307	185	170	181	168
17	208	199	177	199	203	188	190	216	177	177	188	174
18	198	203	176	197	191	177	185	180	164	184	184	174
19	198	199	180	198	193	189	190	167	159	197	184	163
20	196	182	193	198	197	205	198	198	157	190	191	159
21	189	161	198	198	187	194	200	271	161	182	189	167
22	188	152	204	198	187	187	197	208	157	182	191	170
23	184	179	200	198	188	188	193	202	151	186	197	170
24	195	241	198	197	184	193	188	229	155	187	206	170
25	194	200	197	192	171	189	186	238	147	184	190	177
26	211	205	194	190	210	236	184	249	151	194	178	170
27	192	201	190	190	214	276	189	279	144	201	172	160
28	187	200	189	190	195	216	187	257	150	190	189	162
29	185	202	190	189	---	191	172	244	166	185	205	170
30	170	209	198	215	---	242	159	235	165	181	198	170
31	161	---	198	195	---	192	---	238	---	180	195	---
TOTAL	5712	5610	5958	6103	5469	6159	5802	6644	5729	5770	5777	5503
MEAN	184	187	192	197	195	199	193	214	191	186	186	183
MAX	280	281	227	215	250	276	213	307	308	220	206	237
MIN	158	146	176	189	171	177	159	158	144	165	169	159
AC-FT	11330	11130	11820	12110	10850	12220	11510	13180	11360	11440	11460	10920

CAL YR 1980 TOTAL 71341 MEAN 195 MAX 320 MIN 100 AC-FT 141500
WTR YR 1981 TOTAL 70236 MEAN 192 MAX 308 MIN 144 AC-FT 139300

10172630 GOGGIN DRAIN NEAR MAGNA, UTAH

LOCATION.--Lat 40°49'00", long 112°06'00", in SW¼NW¼SW¼ sec.17, T.1 N., R.2 W., Salt Lake County, Hydrologic Unit 16020204, about 7 mi (11 km) downstream from Surplus Canal wasteway, 3.3 mi (5.3 km) north of Saltair, and 7.2 mi (11.6 km) 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 (1,281 m) from topographic map.

REMARKS.--Records fair. The drain carries natural drainage and surplus water spilled from canals from the area.

AVERAGE DISCHARGE.--15 years, 128 ft^3/s (3.625 m^3/s), 92,740 acre-ft/yr (114 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,040 ft^3/s (29.5 m^3/s) Sept. 17 or 18, 1978, gage height, 5.52 ft (1.682 m) from HWM; no flow several days many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 702 ft^3/s (19.9 m^3/s) June 3, gage height, 4.41 ft (1.344 m); minimum daily, 4.4 ft^3/s (0.125 m^3/s) Aug. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	236	282	303	378	391	481	82	516	30	17	8.9
2	6.5	265	278	310	361	390	474	6.0	494	28	20	17
3	12	269	283	306	313	404	444	196	618	20	14	20
4	15	270	289	312	313	402	401	278	591	14	13	8.0
5	9.3	270	324	316	312	394	378	171	440	21	14	4.8
6	8.0	270	323	310	314	391	391	128	456	33	15	14
7	8.0	273	284	314	307	381	358	112	486	27	15	12
8	9.3	231	276	316	318	387	358	110	521	21	14	7.3
9	9.5	232	277	316	327	384	373	184	528	18	16	12
10	11	232	283	315	327	383	372	107	449	15	17	17
11	14	205	287	315	292	380	353	136	400	18	20	11
12	16	219	288	314	310	380	362	147	308	19	15	10
13	23	344	288	310	325	383	354	114	271	17	14	9.9
14	32	278	288	311	325	382	345	99	304	13	7.5	9.4
15	75	224	289	313	320	377	353	210	212	14	14	8.8
16	227	201	292	313	323	381	346	538	134	12	15	10
17	365	192	294	313	326	406	343	383	64	13	16	10
18	281	194	293	313	330	373	300	269	16	20	12	13
19	231	191	292	310	400	379	260	171	15	24	12	9.8
20	191	149	288	314	371	383	293	136	18	19	17	13
21	253	96	290	314	322	397	308	325	26	12	17	11
22	294	22	293	313	340	382	293	360	32	11	17	10
23	237	68	292	313	360	379	281	281	41	4.8	15	10
24	206	262	291	314	384	369	235	252	45	5.5	13	10
25	229	280	292	317	395	361	234	232	34	9.9	12	11
26	261	241	288	315	416	371	240	299	22	22	11	13
27	266	244	292	316	441	438	249	413	24	29	4.4	14
28	226	245	294	315	398	487	230	396	30	25	5.2	9.9
29	233	248	294	318	---	428	164	389	42	15	8.6	7.3
30	237	269	294	362	---	505	104	383	44	11	16	9.5
31	202	---	295	397	---	502	---	433	---	14	15	---
TOTAL	4193.1	6720	9013	9838	9648	12350	9677	7340.0	7181	555.2	431.7	331.6
MEAN	135	224	291	317	345	398	323	237	239	17.9	13.9	11.1
MAX	365	344	324	397	441	505	481	538	618	33	20	20
MIN	5.5	22	276	303	292	361	104	6.0	15	4.8	4.4	4.8
AC-FT	8320	13330	17880	19510	19140	24500	19190	14560	14240	1100	856	658

CAL YR 1980 TOTAL 89259.9 MEAN 244 MAX 726 MIN 2.4 AC-FT 177000
WTR YR 1981 TOTAL 77278.6 MEAN 212 MAX 618 MIN 4.4 AC-FT 153300

10172630 GOGGIN DRAIN NEAR MAGNA, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 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)
OCT												
21...	1555	306	1650	7.9	--	13.0	450	210	--	83	58	200
NOV												
18...	1350	195	1700	7.9	--	6.0	410	170	--	78	53	190
DEC												
17...	1030	296	1600	7.8	--	3.5	440	210	--	85	55	180
JAN												
22...	1425	318	1580	8.0	-1.5	3.5	430	210	--	82	54	170
MAR												
24...	1400	368	1510	8.0	12.0	11.5	380	--	--	73	49	150
APR												
23...	1430	306	1500	7.8	21.0	15.0	410	--	200	80	50	160
MAY												
11...	1355	144	1700	8.1	16.0	14.0	420	--	180	86	51	200
JUN												
10...	1300	452	720	7.5	25.0	14.0	200	--	90	47	20	68
JUL												
07...	1100	27	3000	8.4	25.0	20.5	580	--	280	110	75	440
AUG												
11...	1650	21	2840	8.7	28.0	23.0	580	--	290	110	73	400
SEP												
18...	1400	12	2640	8.5	30.0	21.0	550	--	270	100	73	370

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)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT											
21...	48	4.1	15	240	280	260	.8	26	1070	1.5	884
NOV											
18...	49	4.1	15	240	240	260	.7	24	1010	1.4	532
DEC											
17...	46	3.7	14	230	270	240	.7	24	1010	1.4	807
JAN											
22...	45	3.6	14	220	270	230	.6	24	978	1.3	840
MAR											
24...	45	3.3	14	210	230	210	.7	21	879	1.2	873
APR											
23...	45	3.5	14	210	250	230	.7	20	937	1.3	774
MAY											
11...	50	4.2	14	240	260	260	.6	20	1040	1.4	404
JUN											
10...	42	2.1	3.3	110	100	85	.3	10	404	.55	493
JUL											
07...	61	7.9	27	300	420	620	.7	20	1900	2.6	140
AUG											
11...	59	7.3	27	290	400	540	.8	23	1750	2.4	98.3
SEP											
18...	58	6.9	27	280	410	500	1.0	17	1670	2.3	55.5

DATE	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)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT				
21...	1.2	1.00	3.1	--
NOV				
18...	1.5	.850	2.6	--
DEC				
17...	1.4	.740	2.3	--
JAN				
22...	.13	.690	2.1	10
MAR				
24...	1.0	.710	2.2	10
APR				
23...	1.3	1.50	4.6	10
MAY				
11...	1.7	1.10	3.4	10
JUN				
10...	.99	.570	1.7	2.5
JUL				
07...	.19	.670	2.1	20
AUG				
11...	.14	1.00	3.1	--
SEP				
18...	.00	.530	1.6	--

10172630 GOGGIN DRAIN NEAR MAGNA, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE		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)
DEC 17...	1030	14	70	2	0	5	0	150	.0	2	0	10
JUL 07...	1100	26	100	0	10	3	0	270	.2	0	0	10

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 21...	1555	310	<10	30
NOV 18...	1350	360	<10	20
DEC 17...	1030	300	10	20
MAR 24...	1400	300	20	30
APR 23...	1430	280	20	30
MAY 11...	1355	290	10	30
JUN 10...	1300	110	20	20
JUL 07...	1100	550	40	140
AUG 11...	1650	620	20	50
SEP 18...	1400	540	60	0

DATE	TIME	CYANIDE TOTAL (MG/L AS CN)
DEC 17...	1030	.00
JUL 07...	1100	.00

10172640 LEE CREEK NEAR MAGNA, UTAH

LOCATION.--Lat 40°46'50", long 112°08'19", in SW¼NW¼NW¼ sec.36, T.1 N., R.3 W., Salt Lake County, Hydrologic Unit 16020204, on right bank on upstream side of CMP culvert, and 5.1 mi (8.2 km) northwest of Magna.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,205 ft (1,282 m) from topographic map.

REMARKS.--Records good except those of no gage-height record, Oct. 21 to Dec. 16, and Sept. 6 to 29, which are poor.

AVERAGE DISCHARGE.--10 years, 3.78 ft^3/s (0.107 m^3/s), 2,740 acre-ft/yr (3.38 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 191 ft^3/s (5.41 m^3/s) Aug. 14, 1978, gage height, 3.63 ft (1.106 m); minimum, 0.050 ft^3/s (0.001 m^3/s) June 17, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge observed, 14 ft^3/s (0.40 m^3/s) Mar. 30; minimum recorded, 0.17 ft^3/s (0.005 m^3/s) July 2, 10, and 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	1.5	2.4	1.0	2.7	.99	10	1.1	1.2	.65	.88	1.3
2	6.0	1.2	1.4	.96	1.5	1.6	9.8	1.1	1.7	.58	.49	1.6
3	5.4	1.2	1.3	1.0	1.5	4.5	5.5	5.8	4.0	.43	.61	2.4
4	3.1	1.2	1.5	1.7	1.4	4.6	2.8	3.2	1.8	.29	.98	3.2
5	1.9	1.2	8.1	2.0	1.3	2.2	1.7	1.8	1.4	.41	2.9	6.1
6	1.1	1.2	5.0	1.4	1.9	1.6	2.3	1.7	.95	1.2	4.6	4.0
7	1.2	1.2	2.5	1.2	1.3	1.6	6.8	1.6	.78	1.8	3.3	5.8
8	1.0	1.9	1.7	1.4	.98	.92	6.1	3.3	.88	1.6	2.9	12
9	.88	1.3	1.5	1.2	1.1	.88	1.4	2.4	1.0	2.2	2.8	7.0
10	.97	1.2	1.4	.96	2.0	.88	1.3	1.6	.90	.53	3.5	9.0
11	.91	1.3	1.3	.88	1.3	.93	1.4	2.4	.95	.45	6.7	3.0
12	1.2	3.0	1.3	1.0	1.4	.82	1.1	1.7	.80	.29	6.2	1.7
13	1.7	3.6	1.3	1.0	1.2	.90	.94	1.4	.90	.43	5.9	.88
14	3.9	3.3	1.3	1.1	1.1	3.9	1.0	1.7	4.0	1.2	5.9	1.3
15	8.3	1.2	1.3	1.0	.89	5.8	1.1	3.1	1.4	3.3	5.3	1.2
16	12	.80	2.0	.88	.76	.99	.98	8.5	2.1	4.5	3.5	1.2
17	13	.56	3.0	1.1	1.3	2.1	.88	7.0	1.7	3.6	2.4	1.2
18	8.5	.76	1.8	1.1	1.3	.85	.78	3.9	1.1	8.0	1.9	1.2
19	5.1	.90	1.3	1.4	1.2	.82	1.2	3.0	.75	5.8	2.5	1.2
20	4.0	1.0	1.2	1.6	1.9	1.1	1.0	2.6	.57	3.1	3.6	1.2
21	2.1	1.2	1.3	1.6	.98	1.3	1.1	9.1	.33	1.6	5.1	1.2
22	1.7	1.4	2.4	1.9	.68	.56	1.2	10	.39	.68	4.1	1.2
23	1.3	1.3	1.8	1.9	.81	.59	1.0	5.8	.45	.85	2.7	1.2
24	1.2	3.2	1.4	1.6	1.1	.79	1.0	2.8	.47	.75	4.0	1.3
25	1.1	.72	1.3	1.4	.92	.80	.92	2.7	.50	.48	3.4	1.6
26	5.0	1.2	1.4	1.4	1.8	2.6	.88	10	.50	.50	4.1	2.0
27	11	1.3	1.4	1.4	3.1	9.7	1.2	11	.55	.85	4.5	2.3
28	12	1.3	1.4	1.7	1.5	9.5	1.2	6.1	.78	1.9	3.7	2.7
29	6.0	1.3	1.4	1.6	---	6.2	1.1	3.2	1.1	1.4	2.4	3.4
30	3.0	1.5	1.3	2.9	---	12	1.0	2.0	1.0	1.3	2.2	3.8
31	1.8	---	1.3	3.7	---	13	---	1.6	---	1.2	2.1	---
TOTAL	128.56	43.94	59.0	44.98	38.92	95.02	68.68	123.2	34.95	51.87	105.16	87.18
MEAN	4.15	1.46	1.90	1.45	1.39	3.07	2.29	3.97	1.17	1.67	3.39	2.91
MAX	13	3.6	8.1	3.7	3.1	13	10	11	4.0	8.0	6.7	12
MIN	.88	.56	1.2	.88	.68	.56	.78	1.1	.33	.29	.49	.88
AC-FT	255	87	117	89	77	188	136	244	69	103	209	173

CAL YR 1980 TOTAL 1248.67 MEAN 3.41 MAX 21 MIN .20 AC-FT 2480
WTR YR 1981 TOTAL 881.46 MEAN 2.41 MAX 13 MIN .29 AC-FT 1750

10172640 LEE CREEK NEAR MAGNA, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT												
20...	1430	3.7	186000	8.2	--	17.0	--	39000	39000	--	230	9400
NOV												
18...	1100	.76	140000	8.3	--	1.0	--	16000	16000	--	640	3500
DEC												
17...	1205	3.6	200000	8.1	--	1.0	--	31000	31000	--	510	7200
JAN												
22...	1200	1.9	115000	8.3	.0	1.0	--	14000	13000	--	68	3300
MAR												
25...	1130	.76	140000	8.4	13.0	11.0	--	16000	--	15000	650	3400
APR												
13...	1300	.77	130000	7.9	13.5	20.0	--	15000	--	15000	280	3500
MAY												
28...	1040	6.3	117000	8.1	17.0	19.0	--	14000	--	14000	280	3200
JUN												
23...	1040	.35	135000	8.4	27.0	23.0	--	12000	--	12000	310	2800
JUL												
31...	1100	1.1	120000	8.1	26.5	25.0	9.9	21000	--	20000	400	4800
SEP												
04...	1030	2.7	55500	8.2	25.5	20.0	9.9	7000	--	6700	330	1500
29...	0930	3.3	41900	8.3	15.5	13.5	7.8	7500	--	7200	220	1700

DATE	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)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT												
20...	60000	74	132	5500	500	20000	110000	.1	6.8	205000	279	2020
NOV												
18...	36000	80	124	2400	300	6600	65000	.3	14	114000	155	234
DEC												
17...	77000	82	191	3900	350	12000	140000	--	--	212	.29	2.1
JAN												
22...	30000	80	111	1700	310	6000	53000	.2	7.9	94300	128	491
MAR												
25...	39000	83	136	1700	320	11000	70000	.3	13	126000	171	259
APR												
13...	30000	79	106	1900	360	8600	48000	.4	12	92500	126	192
MAY												
28...	32000	82	118	1300	230	7600	56000	.2	4.9	101000	137	1710
JUN												
23...	33000	83	129	1800	300	7100	64000	.3	11	109000	148	103
JUL												
31...	20000	65	60	2300	360	9200	49000	.3	9.4	86000	117	255
SEP												
04...	11000	75	57	730	280	3400	22000	.6	13	39100	53.2	287
29...	8600	68	43	880	300	3800	17000	.7	5.6	32400	44.1	290

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, 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)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT							
20...	--	--	--	.13	.280	.86	--
NOV							
18...	--	--	--	.35	.310	.95	--
DEC							
17...	--	--	--	.39	.390	1.2	2900
JAN							
22...	--	--	--	.20	.300	.92	1300
MAR							
25...	.010	--	--	.26	.340	1.0	1300
APR							
13...	--	--	--	.10	.460	1.4	1400
MAY							
28...	--	--	--	.30	.140	.43	970
JUN							
23...	--	--	--	.15	.320	.98	--
JUL							
31...	--	1.30	1.7	.21	.140	.43	--
SEP							
04...	--	--	--	.09	.210	.64	--
29...	--	--	--	.04	.240	.74	--

10172640 LEE CREEK NEAR MAGNA, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
DEC 17...	1205	210	200	0	200	39	21	31000	.2	3	0	200
JUL 31...	1100	130	0	0	100	10	11	19000	.6	0	0	150

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 20...	1430	32000	920	360
NOV 18...	1100	34000	500	400
DEC 17...	1205	33000	120	400
JAN 22...	1200	12000	900	490
MAR 25...	1130	2000	770	640
APR 13...	1300	12000	860	600
MAY 28...	1040	--	680	370
JUN 23...	1040	9700	620	1500
JUL 31...	1100	18000	610	650
SEP 04...	1030	6200	180	270
29...	0930	7300	280	250

DATE	TIME	CYANIDE TOTAL (MG/L AS CN)
DEC 17...	1205	.00
JUL 31...	1100	.00

10172650 KENNECOTT DRAIN NEAR MAGNA, UTAH

LOCATION.--Lat 40°45'28", long 112°10'12", in SW¼NE¼SW¼ sec.3, T.1 S., R.3 W., Salt Lake County, Hydrologic Unit 16020204, on left bank about 50 ft (15 m) upstream from culvert on Interstate 80, and 4.5 mi (7.2 km) 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 (1,283 m) from topographic map. Prior to June 25, 1976, water-stage recorder at site 350 ft (8.89 m) downstream at different datum.

REMARKS.--Records good. Small diversions for industrial use above station.

AVERAGE DISCHARGE.--15 years (water years 1964-68, 1972-81), 98.0 ft^3/s (2.78 m^3/s), 71,000 acre-ft/yr (87.5 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 389 ft^3/s (11.0 m^3/s) Mar. 18, 1964, gage height, 5.50 ft (1.676 m) result of break in dike of Kennecott tailings pond; minimum, 11 ft^3/s (0.312 m^3/s) July 29, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 233 ft^3/s (6.60 m^3/s) Oct. 16, gage height, 5.42 ft (1.652 m); minimum, 16 ft^3/s (0.45 m^3/s) July 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	65	112	99	81	74	78	57	100	21	29	67
2	82	67	95	100	78	72	61	29	64	34	29	84
3	76	82	107	79	95	110	87	52	129	43	46	78
4	72	71	92	72	84	94	80	78	150	72	41	80
5	61	55	115	74	83	68	69	57	111	85	33	77
6	75	66	111	94	95	75	67	66	80	38	34	134
7	73	61	92	100	87	71	68	60	57	36	39	152
8	78	56	75	87	88	65	61	72	57	44	38	135
9	93	58	70	93	96	69	53	73	48	40	54	104
10	87	52	70	76	80	72	46	42	41	64	60	88
11	67	64	72	66	54	75	46	65	46	59	80	70
12	66	93	78	67	71	74	45	60	41	51	89	62
13	97	93	76	74	93	72	41	52	50	67	66	88
14	98	83	77	75	92	76	47	40	58	52	47	88
15	112	79	100	71	80	72	44	37	72	51	49	82
16	153	70	92	75	83	75	48	116	61	42	42	58
17	140	78	88	88	86	78	64	153	59	59	69	53
18	87	70	84	99	79	69	68	109	52	84	58	48
19	65	61	98	85	73	62	85	105	44	95	61	52
20	62	64	94	88	87	67	102	97	41	84	73	57
21	61	51	83	87	77	72	80	126	29	45	88	62
22	52	67	111	89	83	66	87	139	35	52	92	55
23	54	64	112	90	78	59	77	76	33	50	74	66
24	51	108	98	83	74	57	61	88	33	40	67	79
25	43	130	107	91	73	59	51	71	30	40	56	72
26	89	113	96	85	84	69	46	133	29	56	41	72
27	162	117	85	94	108	130	59	149	33	79	55	89
28	95	109	70	83	75	118	54	112	30	66	52	94
29	72	77	86	86	---	91	60	102	29	58	44	92
30	82	113	101	117	---	121	44	102	21	44	48	95
31	63	---	80	101	---	131	---	97	---	30	46	---
TOTAL	2545	2337	2827	2668	2317	2463	1879	2615	1663	1681	1700	2433
MEAN	82.1	77.9	91.2	86.1	82.8	79.5	62.6	84.4	55.4	54.2	54.8	81.1
MAX	162	130	115	117	108	131	102	153	150	95	92	152
MIN	43	51	70	66	54	57	41	29	21	21	29	48
AC-FT	5050	4640	5610	5290	4600	4890	3730	5190	3300	3330	3370	4830

CAL YR 1980 TOTAL 34034 MEAN 93.0 MAX 195 MIN 37 AC-FT 67510
WTR YR 1981 TOTAL 27128 MEAN 74.3 MAX 162 MIN 21 AC-FT 53810

10172650 KENNECOTT DRAIN NEAR MAGNA, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT												
20...	1155	57	4500	8.0	--	12.0	--	960	680	--	220	100
NOV												
17...	1340	79	5450	8.0	--	5.0	--	1200	1100	--	340	95
DEC												
17...	1230	86	4500	8.0	--	4.5	--	960	720	--	240	88
JAN												
22...	1030	85	4950	8.0	-1.0	3.5	--	1000	820	--	270	84
MAR												
25...	1000	59	3880	8.1	11.0	9.0	--	840	--	580	180	94
APR												
13...	1045	44	5900	8.0	12.5	16.5	--	1300	--	1100	350	110
MAY												
28...	1240	107	4680	8.2	19.0	20.0	--	860	--	610	200	87
JUN												
23...	1245	30	8100	8.1	25.0	24.0	--	1500	--	1400	430	110
JUL												
31...	0800	29	7320	8.0	25.5	22.0	6.1	1400	--	1100	330	130
SEP												
04...	1230	83	4640	8.0	33.0	21.5	6.6	900	--	730	220	85
29...	1045	94	5300	8.2	18.0	16.5	8.2	1100	--	980	310	81

DATE	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)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT												
20...	660	59	9.3	43	280	660	1100	2.4	37	3000	4.1	459
NOV												
17...	780	57	9.6	47	180	1000	1400	2.9	27	3810	5.2	814
DEC												
17...	630	59	8.8	3.9	240	620	1100	1.8	28	2870	3.9	668
JAN												
22...	670	58	9.1	35	200	730	1100	--	25	3040	4.1	698
MAR												
25...	560	58	8.4	33	260	570	810	1.3	27	2440	3.3	390
APR												
13...	800	56	9.6	42	240	1100	940	5.9	28	3530	4.8	422
MAY												
28...	690	62	10	36	250	650	1100	2.7	20	2940	4.0	849
JUN												
23...	1200	62	13	62	170	1000	1800	7.0	20	4740	6.5	384
JUL												
31...	970	59	11	63	220	960	1800	3.7	35	4430	6.0	348
SEP												
04...	640	59	9.3	40	170	640	1100	2.9	25	2860	3.9	642
29...	770	59	10	48	130	880	1400	3.9	24	3600	4.9	914

DATE	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2)	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)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT								
20...	--	--	--	--	1.6	1.10	3.4	--
NOV								
17...	--	--	--	--	1.8	.970	3.0	--
DEC								
17...	--	--	--	--	1.9	1.20	3.7	--
JAN								
22...	--	--	--	--	.09	.100	.31	26
MAR								
25...	--	--	--	--	1.4	.950	2.9	25
APR								
13...	--	--	--	--	1.1	1.10	3.4	31
MAY								
28...	.61	2.7	.110	.36	.72	.540	1.7	27
JUN								
23...	.99	4.4	.210	.69	1.2	37.0	110	46
JUL								
31...	--	--	--	--	1.2	1.60	4.9	--
SEP								
04...	--	--	--	--	.31	.460	1.4	--
29...	--	--	--	--	.30	.660	2.0	--

10172650 KENNECOTT DRAIN NEAR MAGNA, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
DEC 17...	1230	620	100	2	0	31	0	280	.5	0	0	110
JUL 31...	0800	200	200	0	10	7	4	450	.6	10	0	90

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 20...	1155	440	50	130
NOV 17...	1340	470	50	100
DEC 17...	1230	410	40	280
JAN 22...	1030	390	20	130
MAR 25...	1000	440	30	130
APR 13...	1045	510	60	230
MAY 28...	1240	520	30	120
JUN 23...	1245	520	60	290
JUL 31...	0800	540	50	360
SEP 04...	1230	490	0	130
29...	1045	530	170	120

DATE	TIME	CYANIDE TOTAL (MG/L AS CN)
DEC 17...	1230	.07
JUL 31...	0800	.09

10172700 VERNON CREEK NEAR VERNON, UTAH

LOCATION.--Lat 39°58'46", long 112°22'46", in NE¼SW¼SW¼ sec.2, T.10 S., R.5 W., Tooele County, Hydrologic Unit 16020304, on right bank 6.6 mi (10.6 km) upstream from confluence with Dutch Creek forming Faust Creek and 8.3 mi (13.4 km) southeast of Vernon.

DRAINAGE AREA.--25.0 mi^2 (64.8 km^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 (1,890 m) from AMS topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--23 years, 2.84 ft^3/s (0.080 m^3/s), 2,060 acre-ft/yr (2.54 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 825 ft^3/s (23.4 m^3/s) Aug. 27, 1972 based on slope-area measurement; minimum, 0.41 ft^3/s (0.012 m^3/s) Nov. 20, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 10 ft^3/s (0.28 m^3/s), 72 ft^3/s (2.04 m^3/s) May 28, gage height, 1.71 ft (0.521 m); minimum, 2.5 ft^3/s (0.071 m^3/s) Jan. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	5.7	4.8	4.4	4.5	4.1	4.4	4.4	4.0	3.5	3.0	3.1
2	5.0	5.6	4.4	4.4	4.5	4.1	4.4	4.3	3.8	3.6	3.0	3.1
3	5.0	5.3	4.4	4.4	4.4	4.1	4.4	4.7	3.9	3.5	3.0	3.2
4	5.0	4.8	4.4	4.7	4.5	4.1	4.4	4.4	3.9	3.5	2.9	3.1
5	4.9	4.8	4.4	4.5	4.5	4.1	4.4	4.3	3.8	3.4	2.9	3.3
6	4.9	4.8	4.4	4.4	4.4	4.1	4.1	4.3	3.7	3.4	2.9	3.7
7	5.1	4.8	4.4	4.4	4.3	4.1	4.1	4.1	3.7	3.4	3.0	3.6
8	5.2	4.8	4.4	4.4	4.3	4.1	4.1	4.1	3.7	3.5	3.0	3.7
9	5.2	4.8	4.1	4.5	4.3	4.1	4.1	4.0	3.7	3.5	3.0	3.7
10	5.2	4.8	4.1	4.6	4.3	4.1	4.1	4.0	3.8	3.5	3.2	3.6
11	5.2	4.8	4.4	4.6	4.3	4.1	4.1	4.1	4.0	3.4	3.3	3.4
12	5.3	5.5	4.4	4.7	4.4	4.1	4.1	4.1	4.0	3.5	3.3	3.5
13	5.7	4.8	4.4	4.8	4.3	4.1	3.8	4.0	4.1	3.5	3.3	3.7
14	5.7	4.4	4.4	4.8	4.1	4.1	4.1	4.0	4.1	3.5	3.3	3.4
15	6.1	4.4	4.4	4.8	4.1	3.8	4.1	4.6	4.1	3.5	3.2	3.4
16	6.1	4.4	4.4	4.5	4.1	4.1	3.8	4.9	3.9	3.7	3.1	3.3
17	6.1	4.4	4.4	4.6	4.1	3.8	3.8	4.2	3.8	3.7	3.0	3.3
18	6.1	4.4	4.4	4.5	4.1	3.8	3.8	4.0	4.0	3.5	3.0	3.2
19	5.7	4.4	4.4	4.6	4.1	3.8	4.1	4.0	4.0	3.5	3.0	3.2
20	5.5	4.4	4.4	4.6	4.1	4.1	4.1	4.1	3.9	3.4	3.0	3.2
21	5.5	4.4	4.4	4.6	4.1	3.8	4.1	4.2	3.9	3.2	3.2	3.2
22	5.4	4.8	4.8	4.6	4.1	3.8	3.8	4.3	3.9	3.2	3.1	3.1
23	5.3	4.8	4.4	4.6	4.1	3.8	4.1	4.3	3.6	3.2	3.0	3.5
24	5.4	4.8	4.4	4.8	4.1	3.8	4.1	4.3	3.4	3.3	3.0	3.5
25	5.6	4.8	4.5	4.6	4.1	3.8	4.0	4.4	3.4	3.2	3.1	3.5
26	5.7	4.4	4.1	4.5	4.4	4.1	4.2	4.5	3.4	3.3	3.1	3.5
27	5.7	4.4	4.1	4.6	4.1	4.4	4.5	4.7	3.5	3.3	3.2	3.4
28	5.4	4.4	4.1	4.7	4.1	4.1	4.4	8.4	3.4	3.3	3.1	3.3
29	5.4	4.8	4.1	4.7	---	4.1	4.4	4.2	3.4	3.1	3.1	3.4
30	5.5	4.8	4.1	4.2	---	4.1	4.4	4.1	3.4	3.2	3.1	3.4
31	5.6	---	4.1	4.6	---	4.1	---	4.0	---	3.0	3.1	---
TOTAL	168.6	142.5	134.9	141.7	118.8	124.7	124.3	136.0	113.2	105.3	95.5	101.5
MEAN	5.44	4.75	4.35	4.57	4.24	4.02	4.14	4.39	3.77	3.40	3.08	3.38
MAX	6.1	5.7	4.8	4.8	4.5	4.4	4.5	8.4	4.1	3.7	3.3	3.7
MIN	4.9	4.4	4.1	4.2	4.1	3.8	3.8	4.0	3.4	3.0	2.9	3.1
AC-FT	334	283	268	281	236	247	247	270	225	209	189	201

CAL YR 1980 TOTAL 2188.2 MEAN 5.98 MAX 40 MIN 3.5 AC-FT 4340
WTR YR 1981 TOTAL 1507.0 MEAN 4.13 MAX 8.4 MIN 2.9 AC-FT 2990

10172800 SOUTH WILLOW CREEK NEAR GRANTSVILLE, UTAH

LOCATION.--Lat 40°29'47", long 112°34'25", in SW¼NW¼SW¼ sec.6, T.4 S., R.6 W., Tooele County, Hydrologic Unit 16020304, on right bank 200 ft (61 m) upstream from Forest Service Guard Station, 1.7 mi (2.7 km) above Wasatch National Forest boundary, 9.2 mi (14.8 km) southwest of Grantsville, and 14.8 mi (23.8 km) west of Tooele.

DRAINAGE AREA.--4.19 mi^2 (10.85 km^2). Area at crest-stage gage site, 3.26 mi^2 (8.44 km^2).

PERIOD OF RECORD.--July 1963 to current year. Annual maximum only, July 1960 to July 1963, at crest-stage gage site.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,360 ft (1,939 m) from topographic map. Prior to July 23, 1963, crest-stage gage only, at site 1.4 mi (2.3 km) upstream at different datum.

REMARKS.--Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--18 years, 6.31 ft^3/s (0.179 m^3/s), 4,570 acre-ft/yr (5.63 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92 ft^3/s (2.61 m^3/s) June 8, 1964, gage height, 2.27 ft (0.692 m); minimum daily, 1.7 ft^3/s (0.048 m^3/s) Jan. 6-12, 1967, many days 1977-78.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 20 ft^3/s (0.566 m^3/s), 22 ft^3/s (0.623 m^3/s) May 30, gage height, 1.78 ft (0.543 m); minimum daily discharge, 2.6 ft^2/s (0.074 m^3/s) several days during Mar. and Sept.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	3.4	3.4	3.4	3.1	2.8	3.0	7.8	17	5.6	3.1	2.8
2	4.1	3.4	3.4	3.4	3.1	2.8	3.1	8.8	16	5.7	3.1	2.8
3	4.1	3.4	3.4	3.4	3.1	2.8	3.1	8.8	15	5.5	3.1	2.8
4	4.1	3.4	3.4	3.4	3.1	2.8	3.1	8.8	15	5.3	3.1	2.6
5	4.1	3.4	3.5	3.4	3.1	2.8	2.8	8.8	14	5.0	3.1	2.8
6	4.1	3.4	3.4	3.4	3.1	2.8	2.8	8.7	13	5.0	3.1	3.1
7	3.9	3.4	3.4	3.1	3.1	2.8	2.8	8.3	13	5.0	3.1	2.8
8	3.9	3.4	3.4	3.1	3.1	2.8	2.8	8.1	12	4.5	3.1	3.1
9	3.9	3.4	3.4	2.8	3.1	2.8	2.8	7.3	13	4.4	3.1	2.8
10	3.9	3.7	3.4	3.1	3.1	2.8	2.9	6.7	13	4.2	3.1	2.8
11	3.8	3.7	3.4	3.1	3.1	2.8	3.1	6.6	13	4.1	3.1	2.8
12	3.8	3.7	3.2	3.1	3.1	2.8	3.2	6.4	13	4.1	3.1	2.8
13	3.8	3.7	3.1	3.1	3.1	2.8	3.4	6.0	13	3.9	3.1	2.8
14	3.8	3.7	3.1	3.1	2.9	2.8	3.6	6.0	12	3.8	3.1	2.8
15	4.0	3.7	3.1	3.1	2.8	2.7	3.9	6.1	11	3.7	3.1	2.8
16	3.8	3.7	3.1	3.1	2.8	2.7	4.0	6.4	10	3.7	3.1	2.8
17	3.7	3.7	3.1	3.1	2.8	2.7	3.7	6.4	8.8	3.7	3.1	2.8
18	3.7	3.5	3.1	3.1	2.8	2.6	4.1	6.3	7.8	3.6	2.8	2.6
19	3.7	3.4	3.1	3.1	2.8	2.6	4.4	6.4	7.1	3.4	3.1	2.6
20	3.7	3.4	3.1	3.1	2.9	2.8	4.4	6.7	6.8	3.4	3.1	2.6
21	3.7	3.4	3.1	3.1	2.8	2.8	4.4	7.5	6.7	3.4	3.1	2.6
22	3.7	3.4	3.1	3.1	2.8	2.8	4.7	7.5	6.4	3.3	3.1	2.6
23	3.7	3.5	3.1	3.1	2.8	2.8	4.7	7.8	6.4	3.3	2.8	2.6
24	3.7	3.4	3.1	3.1	2.8	2.8	4.4	8.2	6.4	3.7	2.8	2.6
25	3.7	3.4	3.1	3.1	2.8	2.8	4.7	8.8	6.4	3.4	2.8	2.6
26	3.7	3.4	3.4	3.1	2.9	2.8	6.3	12	6.2	3.4	2.8	2.6
27	3.5	3.4	3.4	3.1	2.8	2.8	6.3	15	6.0	3.4	2.8	2.6
28	3.4	3.4	3.4	3.1	2.8	2.8	7.2	16	6.0	3.4	2.8	2.6
29	3.4	3.4	3.4	3.2	---	2.9	7.3	18	5.8	3.4	2.8	2.6
30	3.4	3.4	3.4	3.1	---	3.1	7.3	19	5.6	3.4	2.8	2.6
31	3.4	---	3.4	3.1	---	3.0	---	18	---	3.4	2.8	---
TOTAL	117.3	104.6	101.4	97.7	82.6	86.7	124.3	283.2	305.4	125.1	93.1	81.8
MEAN	3.78	3.49	3.27	3.15	2.95	2.80	4.14	9.14	10.2	4.04	3.00	2.73
MAX	4.1	3.7	3.5	3.4	3.1	3.1	7.3	19	17	5.7	3.1	3.1
MIN	3.4	3.4	3.1	2.8	2.8	2.6	2.8	6.0	5.6	3.3	2.8	2.6
AC-FT	233	207	201	194	164	172	247	562	606	248	185	162

CAL YR 1980 TOTAL 3365.3 MEAN 9.19 MAX 43 MIN 2.6 AC-FT 6680
WTR YR 1981 TOTAL 1603.2 MEAN 4.39 MAX 19 MIN 2.6 AC-FT 3180

10172805 NORTH WILLOW CREEK NEAR GRANTSVILLE, UTAH

LOCATION.--Lat 40°31'58", long 112°34'19", in NW¼NE¼NW¼ sec.30, T.3 S., R.6 W., Tooele County, Hydrologic Unit 16020304 on left bank 100 ft (30 m) upstream from Wasatch National Forest boundary and 200 ft (60 m) upstream from North Willow Irrigation Company diversion structure, and 7.4 mi (11.9 km) southwest of Grantsville.

DRAINAGE AREA.--5.38 mi^2 (13.9 km^2).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,960 ft (1,820 m) from topographic map.

REMARKS.--Records good except those of no gage-height record, Dec. 11 to Jan. 9, and Feb. 5 to Mar. 23, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32 ft^3/s (0.91 m^3/s) May 22, 1980, gage height, 1.16 ft (0.354 m); minimum daily, 1.6 ft^3/s (0.045 m^3/s) several days in Jan. and Feb. 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 9.5 ft^3/s (0.27 m^3/s) May 3, 27, no peak above base of 20 ft^3/s (0.566 m^3/s); minimum daily, 1.6 ft^3/s (0.045 m^3/s) several days in Jan. and Feb. May have been lower during period of no record.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	2.3	2.1	1.9	1.6	1.7	2.6	9.3	8.8	3.0	2.0	1.8
2	2.1	2.3	2.1	1.9	1.6	1.7	2.7	9.1	8.6	3.3	1.9	1.8
3	2.0	2.3	2.1	1.9	1.6	1.7	2.8	9.3	8.1	3.1	1.9	1.8
4	2.0	2.3	2.1	1.9	1.6	1.7	2.7	8.6	7.9	2.9	1.9	1.7
5	2.1	2.3	2.2	1.9	1.6	1.7	2.6	8.1	7.4	2.7	1.9	1.8
6	2.1	2.3	2.1	1.9	1.6	1.7	2.7	7.6	7.2	2.6	1.9	2.2
7	2.1	2.3	2.1	1.9	1.7	1.7	2.8	6.3	7.0	2.6	1.9	2.0
8	2.1	2.3	2.1	1.9	1.7	1.7	2.8	5.2	6.8	2.6	1.9	2.4
9	2.1	2.4	2.1	1.8	1.7	1.7	3.0	4.5	6.8	2.6	1.8	2.2
10	2.1	2.4	2.0	1.8	1.7	1.7	3.1	4.2	6.5	2.5	1.9	2.1
11	2.1	2.3	2.0	1.8	1.7	1.7	3.4	4.1	6.3	2.5	1.9	2.0
12	2.3	2.4	2.0	1.8	1.7	1.7	3.5	4.1	6.1	2.5	1.9	2.0
13	2.4	2.3	1.9	1.7	1.7	1.7	3.8	4.0	5.9	2.4	1.9	1.9
14	2.4	2.3	1.9	1.7	1.7	1.7	4.1	3.7	5.5	2.4	1.9	1.9
15	2.4	2.2	1.9	1.7	1.7	1.7	4.2	4.0	5.0	2.3	1.9	1.9
16	2.4	2.2	1.9	1.7	1.7	1.7	4.5	4.2	4.7	2.3	1.8	1.9
17	2.4	2.2	1.9	1.7	1.7	1.7	5.0	4.2	4.5	2.3	1.8	1.9
18	2.4	2.2	1.9	1.7	1.7	1.7	5.4	4.2	4.4	2.3	1.8	1.8
19	2.4	2.2	1.9	1.7	1.7	1.7	6.2	4.2	4.4	2.2	1.8	1.8
20	2.4	2.2	1.9	1.7	1.7	1.7	6.1	4.5	4.2	2.2	1.9	1.8
21	2.4	2.2	1.9	1.7	1.7	1.8	6.1	6.1	4.1	2.1	1.8	1.9
22	2.4	2.2	1.9	1.7	1.7	1.9	6.1	7.0	4.0	2.1	1.8	1.9
23	2.3	2.2	1.9	1.7	1.7	2.0	6.3	7.2	3.8	2.1	1.8	1.9
24	2.3	2.2	1.9	1.7	1.7	2.1	6.6	7.6	3.6	2.1	1.9	1.9
25	2.3	2.1	1.9	1.7	1.7	2.1	7.9	7.4	3.5	2.1	1.8	1.9
26	2.3	2.1	1.9	1.7	1.7	2.2	9.3	8.8	3.4	2.1	1.8	1.9
27	2.3	2.1	1.9	1.7	1.7	2.2	9.0	9.5	3.4	2.1	1.8	1.9
28	2.3	2.1	1.9	1.6	1.7	2.3	8.6	9.5	3.5	2.0	1.9	1.9
29	2.3	2.1	1.9	1.7	---	2.3	8.3	9.3	3.3	2.0	1.8	1.9
30	2.3	2.1	1.9	1.7	---	2.5	8.6	9.0	3.2	2.0	1.8	1.9
31	2.3	---	1.9	1.7	---	2.5	---	9.0	---	2.0	1.9	---
TOTAL	69.9	67.1	61.1	54.6	47.0	57.9	150.8	203.8	161.9	74.0	57.7	57.7
MEAN	2.25	2.24	1.97	1.76	1.68	1.87	5.03	6.57	5.40	2.39	1.86	1.92
MAX	2.4	2.4	2.2	1.9	1.7	2.5	9.3	9.5	8.8	3.3	2.0	2.4
MIN	2.0	2.1	1.9	1.6	1.6	1.7	2.6	3.7	3.2	2.0	1.8	1.7
AC-FT	139	133	121	108	93	115	299	404	321	147	114	114

CAL YR 1980 TOTAL 2070.5 MEAN 5.66 MAX 29 MIN 1.8 AC-FT 4110
WTR YR 1981 TOTAL 1063.5 MEAN 2.91 MAX 9.5 MIN 1.6 AC-FT 2110

10172870 TROUT CREEK NEAR CALLAO, UTAH

LOCATION.--Lat 39°44'39", long 113°53'21", in SW¼NW¼SW¼ sec.28, T.12 S., R.18 W., Juab County, Hydrologic Unit 16020306, on left bank 2.9 mi (4.7 km) upstream from Birch Creek and 14 mi (23 km) southwest of Callao.

DRAINAGE AREA.--8.19 mi^2 (21.2 km^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 (1,890 m) from topographic map.

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

AVERAGE DISCHARGE.--23 years, 5.27 ft^3/s (0.149 m^3/s), 3,820 acre-ft/yr (4.71 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 129 ft^3/s (3.65 m^3/s) May 20, 1973, gage height, 2.81 ft (0.856 m); minimum, 0.24 ft^3/s (0.01 m^3/s) Feb. 25, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 61 ft^3/s (1.73 m^3/s) May 27, and peak above base of 20 ft^3/s (0.566 m^3/s); minimum, 1.1 ft^3/s (0.031 m^3/s) Feb. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.1	1.8	1.7	1.6	1.9	2.3	14	22	4.2	2.3	1.5
2	2.0	2.1	1.8	1.6	1.6	1.9	2.4	17	21	4.2	2.2	1.5
3	2.0	2.1	1.7	1.6	1.6	1.9	2.3	17	19	4.1	2.2	1.6
4	2.0	2.1	1.8	1.7	1.6	2.0	2.3	16	18	3.8	2.1	1.5
5	2.0	2.0	1.8	1.6	1.6	2.0	2.3	15	16	3.7	2.1	1.8
6	1.9	2.0	1.7	1.6	1.7	1.9	2.4	14	16	3.7	2.1	1.9
7	1.9	2.0	1.8	1.6	1.6	1.9	2.5	13	15	3.6	2.0	1.9
8	1.9	2.0	1.6	1.5	1.7	1.9	2.4	11	15	3.4	1.9	2.5
9	1.9	2.0	1.9	1.5	1.8	1.9	2.6	10	15	3.4	1.9	2.5
10	1.9	2.0	2.2	1.6	1.6	1.9	2.8	9.2	14	3.2	2.0	2.2
11	1.9	2.0	2.2	1.5	1.9	1.9	3.0	8.8	14	3.1	2.0	2.0
12	1.9	2.1	1.7	1.6	1.8	1.9	3.2	8.7	13	3.1	2.0	1.9
13	1.9	2.0	1.7	1.7	1.9	1.9	3.3	8.7	12	3.1	1.9	1.9
14	2.0	1.9	1.7	1.6	1.9	1.9	3.4	8.9	11	3.0	1.9	1.9
15	2.0	2.0	1.7	1.6	1.9	1.9	3.8	9.7	10	3.0	1.9	1.8
16	2.0	2.2	1.7	1.6	1.9	1.9	4.3	9.8	9.9	2.8	1.9	1.8
17	2.0	2.4	1.7	1.7	1.9	1.9	4.8	9.5	9.6	3.0	1.8	1.8
18	2.0	2.6	1.7	1.6	1.9	2.0	6.1	8.8	8.9	3.0	1.8	1.8
19	2.0	2.1	1.7	1.6	1.9	1.9	7.0	8.7	7.7	2.7	1.8	1.7
20	2.0	1.9	1.7	1.6	1.8	2.0	6.2	8.9	7.0	2.6	1.7	1.8
21	2.0	1.9	1.7	1.6	1.8	2.0	5.5	9.7	6.4	2.6	1.7	1.8
22	2.0	1.9	1.7	1.6	1.9	2.0	5.1	9.9	6.1	2.8	1.7	1.8
23	2.0	1.9	1.6	1.6	1.9	2.0	5.2	11	5.7	2.7	1.6	1.8
24	2.0	1.9	1.6	1.6	1.8	2.1	6.1	11	5.5	2.7	1.6	1.7
25	2.0	1.9	1.6	1.6	1.8	2.1	8.2	13	5.3	2.7	1.6	1.7
26	2.1	1.9	1.7	1.7	1.9	2.1	11	28	5.2	2.7	1.6	1.7
27	2.0	2.0	1.7	1.7	1.8	2.1	9.6	35	5.2	2.5	1.6	1.7
28	2.0	1.9	1.7	1.8	1.9	2.2	8.1	39	5.0	2.5	1.6	1.6
29	2.1	1.9	1.7	1.7	---	2.3	8.3	31	4.6	2.4	1.6	1.6
30	2.1	1.8	1.7	1.7	---	2.5	11	27	4.4	2.4	1.5	1.7
31	2.1	---	1.7	1.6	---	2.3	---	24	---	2.4	1.5	---
TOTAL	61.6	60.6	54.0	50.3	50.0	62.1	147.5	465.3	327.5	95.1	57.1	54.4
MEAN	1.99	2.02	1.74	1.62	1.79	2.00	4.92	15.0	10.9	3.07	1.84	1.81
MAX	2.1	2.6	2.2	1.8	1.9	2.5	11	39	22	4.2	2.3	2.5
MIN	1.9	1.8	1.6	1.5	1.6	1.9	2.3	8.7	4.4	2.4	1.5	1.5
AC-FT	122	120	107	100	99	123	293	923	650	189	113	108

CAL YR 1980 TOTAL 2603.0 MEAN 7.11 MAX 66 MIN 1.6 AC-FT 5160
WTR YR 1981 TOTAL 1485.5 MEAN 4.07 MAX 39 MIN 1.5 AC-FT 2950

TRIBUTARIES BETWEEN GREAT SALT LAKE DESERT AND BEAR RIVER

10172952 DUNN CREEK NEAR PARK VALLEY, UTAH

LOCATION.--Lat 41°51'31", long 113°19'35", in NW¼NW¼ sec.15, T.13 N., R.13 W., Box Elder County, Hydrologic Unit 16020308, on right bank 150 ft (46 m) upstream from diversion structure, 200 ft (61 m) downstream from confluence of left hand and right hand forks, and 2.9 mi (4.7 km) north of Park Valley.

DRAINAGE AREA.--8.72 mi2 (22.58 km^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 (1,905 m) from topographic map.

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

AVERAGE DISCHARGE.--7 years, 5.22 ft^3/s (0.148 m^3/s), 3,780 acre-ft/yr (4.66 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded discharge, 86 ft^3/s (2.43 m^3/s) June 10, 11, 1980, gage height, 2.67 ft (0.814 m); minimum, 0.14 ft^3/s (0.004 m^3/s) Mar. 17, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22 ft^3/s (0.623 m^3/s) May 28, gage height, 1.22 ft (0.372 m); minimum daily, 0.91 ft^3/s (0.026 m^3/s) Jan. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	1.5	1.6	1.1	1.1	1.0	1.8	7.1	14	3.8	1.9	1.1
2	2.9	1.5	1.9	1.1	1.1	.96	1.8	5.9	14	3.8	1.7	1.3
3	2.8	1.5	1.8	1.1	1.2	.96	1.5	4.9	14	3.2	1.7	1.3
4	2.8	1.5	1.8	1.1	1.1	.96	1.9	3.7	14	3.1	1.7	1.2
5	2.6	1.5	1.7	1.0	1.1	.96	1.8	2.8	14	3.5	1.7	1.3
6	2.6	1.5	1.7	.96	1.3	.96	1.9	2.2	14	4.0	1.5	1.3
7	2.5	1.4	1.5	1.0	1.2	1.0	1.8	2.0	14	4.2	1.5	1.3
8	2.5	1.3	1.5	1.1	1.1	1.1	1.6	1.8	13	4.0	1.5	1.4
9	2.4	1.3	1.4	1.1	1.2	1.1	1.6	1.4	13	3.3	1.5	1.4
10	2.3	1.3	1.4	1.1	1.0	1.1	1.8	1.2	13	3.2	1.6	1.4
11	2.3	1.3	1.6	1.1	1.3	1.2	1.8	1.1	12	3.3	1.5	1.4
12	2.2	1.4	1.6	1.1	1.3	1.2	1.8	1.3	12	3.3	1.5	1.2
13	2.1	1.2	1.6	1.0	1.2	1.2	1.6	1.1	11	3.0	1.6	1.1
14	2.0	1.3	1.6	1.0	1.2	1.3	1.6	.96	10	2.9	1.5	1.1
15	1.9	1.4	1.6	1.0	1.1	1.3	1.6	.96	9.8	2.6	1.4	1.3
16	1.9	1.6	1.7	1.0	1.1	1.3	1.6	1.1	9.6	3.2	1.1	1.5
17	1.9	1.6	1.6	1.2	1.2	1.4	1.6	1.0	9.2	4.1	1.2	1.5
18	1.9	1.8	1.5	1.1	1.1	1.4	1.6	1.3	9.0	4.0	1.6	1.5
19	1.9	1.9	1.5	1.1	1.1	1.5	3.6	.96	9.2	3.0	1.6	1.5
20	1.9	1.9	1.4	1.1	1.1	1.6	3.1	1.0	9.0	2.6	1.8	1.5
21	1.8	1.8	1.5	1.0	1.1	1.6	1.9	1.9	8.6	2.4	1.9	1.4
22	1.7	1.9	1.5	1.0	1.2	1.8	1.4	2.3	7.9	2.1	1.6	1.3
23	1.6	1.8	1.4	1.0	1.2	1.8	2.1	6.4	7.2	2.1	1.6	1.3
24	1.6	1.7	1.3	.97	1.2	1.9	4.4	9.0	6.2	2.0	1.5	1.3
25	1.7	1.7	1.5	.91	1.1	1.8	4.4	10	5.2	1.9	1.5	1.4
26	1.6	1.8	1.4	1.2	1.1	1.8	4.9	11	5.1	2.0	1.6	1.4
27	1.5	1.8	1.3	1.2	1.0	1.9	4.9	13	4.8	2.0	1.5	1.4
28	1.5	1.8	1.3	1.2	1.0	1.8	2.1	14	4.5	2.0	1.9	1.4
29	1.5	1.7	1.2	1.1	---	1.9	2.9	14	4.1	1.9	2.2	1.4
30	1.5	1.7	1.2	1.1	---	1.6	4.4	14	3.8	1.9	1.6	1.4
31	1.6	---	1.2	1.1	---	1.8	---	14	---	1.9	1.2	---
TOTAL	64.0	47.4	46.8	33.14	32.0	43.20	70.8	153.38	295.2	90.3	49.2	40.3
MEAN	2.06	1.58	1.51	1.07	1.14	1.39	2.36	4.95	9.84	2.91	1.59	1.34
MAX	3.0	1.9	1.9	1.2	1.3	1.9	4.9	14	14	4.2	2.2	1.5
MIN	1.5	1.2	1.2	.91	1.0	.96	1.4	.96	3.8	1.9	1.1	1.1
AC-FT	127	94	93	66	63	86	140	304	586	179	98	80

CAL YR 1980 TOTAL 4022.20 MEAN 11.0 MAX 78 MIN 1.2 AC-FT 7980
WTR YR 1981 TOTAL 965.72 MEAN 2.65 MAX 14 MIN .91 AC-FT 1920

10173450 MAMMOTH CREEK ABOVE WEST HATCH DITCH, NEAR HATCH, UTAH

LOCATION.--Lat 37°37'19", long 112°31'07", in NE¼NW¼SW¼ sec.3, T.37 S., R.6 W., Garfield County, Hydrologic Unit 16030001, on left bank 0.5 mi (0.8 km) upstream from West Hatch ditch diversion, 2 mi (3 km) upstream from Spring Hollow, 4.5 mi (7.2 km) upstream from mouth, and 5 mi (8 km) southwest of Hatch.

DRAINAGE AREA.--105 mi^2 (272 km^2).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,300 ft (2,225 m) from topographic map.

REMARKS.--Records good except during the winter period, which are poor. One small diversion for irrigation above station.

AVERAGE DISCHARGE.--17 years, 48.5 ft^3/s (1.374 m^3/s), 35,140 acre-ft/yr (43.3 hm3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 652 ft^3/s (18.5 m^3/s) June 6, 1979, gage height, 4.81 ft (1.466 m); minimum recorded, 0.06 ft^3/s (0.002 m^3/s) Dec. 25, 1977, Jan. 1, 22, 1978, result of ice jam.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft^3/s (7.08 m^3/s); and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 3	0030	350	9.91	3.62	1.103
Aug. 22	1815	*401	11.36	3.85	1.173

Minimum, 1.7 ft^3/s (0.048 m^3/s) Feb. 21, result of ice jam.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	30	23	21	12	17	18	249	175	38	24	21
2	35	30	25	17	10	18	18	292	168	37	23	21
3	35	30	25	21	10	17	17	318	160	36	23	21
4	34	29	25	21	10	17	16	283	144	34	23	21
5	34	28	25	21	10	17	16	234	137	33	22	22
6	34	28	26	22	10	18	16	201	133	32	22	24
7	34	28	29	17	10	18	17	169	124	31	22	25
8	33	28	30	20	11	16	17	150	114	31	21	24
9	33	28	12	13	15	16	17	136	102	30	21	23
10	33	28	10	10	14	16	18	145	94	29	25	23
11	33	28	13	13	11	16	20	140	88	28	29	28
12	46	29	15	19	12	16	22	135	83	30	35	24
13	47	28	16	20	11	17	21	139	79	33	27	26
14	42	24	12	20	14	17	22	142	75	38	31	26
15	40	21	15	21	17	16	25	142	73	41	28	24
16	40	23	19	21	17	16	31	121	70	34	30	24
17	39	18	24	20	17	16	46	112	65	34	25	23
18	37	16	23	20	17	15	62	112	60	33	34	22
19	36	18	23	21	17	16	66	111	56	30	24	21
20	35	20	23	21	17	16	55	108	52	29	24	20
21	34	19	23	20	15	16	40	97	49	28	23	20
22	33	18	23	21	12	16	43	96	46	29	45	19
23	33	17	22	21	13	16	56	101	43	30	40	19
24	32	18	22	20	14	17	76	108	42	30	33	19
25	32	14	22	15	16	18	112	129	41	27	27	19
26	33	12	22	12	18	18	134	153	39	26	24	19
27	33	14	22	15	18	18	145	160	39	25	24	18
28	32	16	22	20	17	17	143	169	44	25	23	18
29	32	18	19	19	---	17	158	188	46	24	23	18
30	31	21	15	21	---	17	188	197	41	24	22	18
31	31	---	18	16	---	17	---	184	---	24	21	---
TOTAL	1092	679	643	579	385	518	1635	5021	2482	953	818	650
MEAN	35.2	22.6	20.7	18.7	13.8	16.7	54.5	162	82.7	30.7	26.4	21.7
MAX	47	30	30	22	18	18	188	318	175	41	45	28
MIN	31	12	10	10	10	15	16	96	39	24	21	18
AC-FT	2170	1350	1280	1150	764	1030	3240	9960	4920	1890	1620	1290

CAL YR 1980 TOTAL 31975 MEAN 87.4 MAX 549 MIN 10 AC-FT 63420
WTR YR 1981 TOTAL 15455 MEAN 42.3 MAX 318 MIN 10 AC-FT 30650

10174500 SEVIER RIVER AT HATCH, UTAH

LOCATION.--Lat 37°39'04", long 112°25'46", in SW¼SW¼NW¼ sec.28, T.36 S., R.5 W., Garfield County, Hydrologic Unit 16030001, on right bank at highway bridge, 0.2 mi (0.3 km) east of Hatch, and 2.8 mi (4.5 km) downstream from Mammoth Creek.

DRAINAGE AREA.--340 mi^2 (881 km^2).

PERIOD OF RECORD.--June 1911 to September 1928, June 1939 to current year. 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 (2,094 m) 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 good except those for period of no gage-height record, July 13-29, which are fair. Small diversions for irrigation above station. No regulation since Hatchtown Dam failed in 1914.

AVERAGE DISCHARGE.--59 years, 124 ft^3/s (3.51 m^3/s), 89,840 acre-ft/yr (111 hm^3/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 (42.2 m^3/s) May 26, 1922; gage height, 5.25 ft (1.600 m), datum then in use; minimum daily, 10 ft^3/s (0.28 m^3/s) for several days in 1912 when water was stored in Hatchtown Reservoir. Minimum natural flow, 20 ft^3/s (0.57 m^3/s) Aug. 30, 31, Sept. 1, 7-9, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 406 ft^3/s (11.5 m^3/s), May 3, gage height, 2.20 ft (0.671 m), no peak above base of 500 ft^3/s (14.2 m^3/s); minimum discharge, 56 ft^3/s (1.586 m^3/s) July 8, 9, 11, Sept. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	111	106	89	77	71	74	250	207	81	67	78
2	99	107	104	87	87	74	75	291	210	77	68	75
3	99	105	99	87	79	71	75	341	218	72	68	74
4	98	104	100	89	75	71	74	324	204	69	69	74
5	98	104	103	86	75	74	72	287	193	64	69	74
6	105	101	97	86	77	72	71	250	186	63	71	74
7	101	101	101	88	74	71	74	217	173	62	72	75
8	103	101	101	88	71	69	77	205	163	58	73	74
9	101	101	88	85	72	71	77	181	152	60	74	72
10	96	101	105	79	71	75	82	172	141	62	97	73
11	98	101	86	80	68	77	85	165	134	58	96	69
12	143	105	87	79	72	79	87	164	130	77	104	84
13	119	103	84	80	72	82	96	168	125	85	108	74
14	107	99	85	80	74	82	89	170	123	94	115	75
15	107	102	87	80	75	85	92	173	121	103	108	75
16	109	101	89	80	75	89	98	161	121	86	97	76
17	109	100	88	77	75	87	109	152	115	86	90	67
18	109	103	87	78	75	82	123	152	109	82	108	71
19	101	100	87	79	74	83	147	154	101	79	91	68
20	101	104	85	77	71	85	130	163	98	76	88	66
21	101	105	86	77	68	82	109	150	96	76	87	65
22	99	106	82	79	72	72	103	147	92	80	108	64
23	101	104	82	80	74	72	113	154	85	80	124	63
24	107	103	79	80	75	72	121	159	85	78	106	62
25	103	101	80	74	74	71	159	166	85	76	95	64
26	109	104	81	77	77	72	183	188	83	74	87	63
27	115	105	83	72	72	72	186	188	83	74	89	64
28	113	105	85	75	72	74	176	196	85	72	97	62
29	109	104	84	74	---	74	187	210	89	72	93	59
30	115	108	88	77	---	79	205	221	85	69	86	57
31	113	---	90	80	---	75	---	210	---	68	85	---
TOTAL	3293	3099	2789	2499	2073	2365	3349	6129	3892	2313	2790	2091
MEAN	106	103	90.0	80.6	74.0	76.3	112	198	130	74.6	90.0	69.7
MAX	143	111	106	89	87	89	205	341	218	103	124	84
MIN	96	99	79	72	68	69	71	147	83	58	67	57
AC-FT	6530	6150	5530	4960	4110	4690	6640	12160	7720	4590	5530	4150

CAL YR 1980 TOTAL 85863 MEAN 235 MAX 1100 MIN 69 AC-FT 170300
WTR YR 1981 TOTAL 36682 MEAN 100 MAX 341 MIN 57 AC-FT 72760

10180000 SEVIER RIVER NEAR CIRCLEVILLE, UTAH

LOCATION.--Lat 38°06'15", long 112°20'08", in NE¼SW¼NW¼ sec.20, T.31 S., R.4 W., Garfield County, Hydrologic Unit 16030001, on left bank 2 mi (3 km) upstream from Pine Creek and 6 mi (10 km) southwest of Circleville.

DRAINAGE AREA.--986 mi^2 (2,554 km^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. WDR UT-75-1: 1969. WDR UT-78: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,240 ft (1,902 m) from river-profile map. May 10 to Sept. 19, 1912, nonrecording gage at site 300 ft (91 m) 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 (91 m) upstream at datum 0.23 ft (0.070 m) higher.

REMARKS.--Records good. Many diversions above and below station.

AVERAGE DISCHARGE.--41 years (1914-22, 1923-24, 1949-81), 143 ft^3/s (4.050 m^3/s), 103,600 acre-ft/yr (128 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,730 ft^3/s (77.3 m^3/s) Dec. 26, 1971, gage height, 7.06 ft (2.152 m) from high-water mark, from rating curve extended above 1,000 ft^3/s (28.3 m^3/s); minimum daily, 18 ft^3/s (0.51 m^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 Dec. 26, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum recorded discharge, 370 ft^3/s (10.5 m^3/s) Aug. 19, gage height, 2.81 ft (0.856 m); minimum, 39.3 ft^3/s (1.10 m^3/s) Aug. 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	183	172	164	141	140	132	174	216	63	45	104
2	108	177	174	168	147	141	129	232	202	70	43	91
3	107	174	181	166	149	143	129	268	193	61	42	86
4	108	174	181	168	147	138	128	288	179	59	40	77
5	116	172	181	170	145	141	127	252	168	61	46	91
6	130	170	181	164	145	143	126	225	156	58	46	110
7	131	170	172	162	151	147	125	191	153	53	42	100
8	134	172	174	158	149	149	124	177	136	51	41	100
9	127	172	168	158	153	143	124	156	124	57	40	96
10	118	172	166	158	154	138	124	143	121	73	50	112
11	121	166	162	156	147	141	123	141	116	66	183	108
12	150	162	168	158	151	140	122	131	108	62	98	100
13	258	181	172	162	153	136	112	124	89	118	89	116
14	172	183	168	162	153	143	100	122	83	87	110	131
15	166	187	166	158	158	149	89	131	82	84	102	122
16	166	183	170	160	156	145	79	162	82	78	116	109
17	168	177	170	160	151	143	77	168	84	98	151	114
18	183	179	172	160	151	136	83	149	78	79	87	110
19	181	177	172	158	149	134	121	143	72	64	187	108
20	183	179	170	158	151	134	132	145	68	59	90	96
21	181	179	170	158	140	134	126	168	63	61	71	89
22	179	181	170	156	140	132	108	153	62	59	81	93
23	177	183	172	153	145	131	90	140	59	58	90	103
24	179	187	168	154	143	131	102	132	56	68	102	110
25	183	177	166	156	141	127	115	136	54	64	90	104
26	185	181	168	147	141	124	132	145	51	60	84	98
27	193	177	168	145	140	127	147	174	50	53	76	96
28	191	177	168	156	138	136	156	225	58	51	72	89
29	187	177	168	153	---	131	158	238	56	49	83	90
30	185	175	166	154	---	147	151	225	62	47	121	84
31	193	---	162	151	---	136	---	227	---	46	114	---
TOTAL	4974	5304	5286	4911	4129	4280	3591	5485	3081	2017	2632	3037
MEAN	160	177	171	158	147	138	120	177	103	65.1	84.9	101
MAX	258	187	181	170	158	149	158	288	216	118	187	131
MIN	107	162	162	145	138	124	77	122	50	46	40	77
AC-FT	9870	10520	10480	9740	8190	8490	7120	10880	6110	4000	5220	6020

CAL YR 1980 TOTAL 99308 MEAN 271 MAX 935 MIN 107 AC-FT 197000
WTR YR 1981 TOTAL 48727 MEAN 133 MAX 288 MIN 40 AC-FT 96650

10183500 SEVIER RIVER NEAR KINGSTON, UTAH

LOCATION.--Lat 38°12'22", long 112°12'25", in SE¼NE¼NW¼ sec.16, T.30 S., R.3 W., Piute County, Hydrologic Unit 16030001, on left bank 1,000 ft (305 m) upstream from bridge on State Highway 22, 1.1 mi (1.8 km) west of Kingston, and 1.9 mi (3.1 km) upstream from East Fork.

DRAINAGE AREA.--1,131 mi^2 (2,929 km^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 (1,823 m) from river-profile map. Prior to Sept. 20, 1918, at site 1 mi (2 km) downstream at different datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--67 years, 125 ft^3/s (3.54 m^3/s), 90,560 acre-ft/yr (112 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 3,000 ft^3/s (850 m^3/s) (including estimated flow of 360 ft^3/s (10.2 m^3/s) in overflow channel bypassing station). Mar. 4, 1938, gage height, 5.20 ft (1.585 m), from rating curve extended above 600 ft^3/s (17.0 m^3/s); minimum, 0.9 ft^3/s (0.025 m^3/s) July 26, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 346 ft^3/s (9.80 m^3/s) Oct. 13, gage height, 1.99 ft (0.607 m); minimum, 14.0 ft^3/s (0.396 m^3/s) Aug. 6-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	203	216	206	180	174	155	60	150	17	15	31
2	83	186	213	203	174	174	131	87	125	17	15	34
3	77	186	216	203	177	177	132	120	105	18	15	33
4	79	167	220	203	178	177	132	180	100	19	15	31
5	70	164	220	203	175	180	135	161	89	19	16	28
6	59	167	223	199	173	186	134	140	67	19	15	36
7	66	183	220	196	178	193	124	112	60	19	14	34
8	79	177	213	193	180	203	121	97	52	18	14	36
9	68	183	206	187	181	199	117	77	36	17	14	33
10	68	177	199	190	186	190	115	70	28	16	14	41
11	77	177	206	193	181	180	115	64	28	16	36	42
12	104	180	199	193	180	180	116	57	26	15	34	39
13	285	203	206	196	183	174	108	42	25	16	20	37
14	210	213	203	196	186	180	83	39	22	19	23	44
15	193	216	203	193	186	190	70	47	20	19	33	60
16	196	213	203	193	186	186	53	66	20	18	36	72
17	196	210	203	193	186	180	43	85	20	18	37	74
18	199	213	206	193	186	170	41	77	20	18	34	67
19	199	210	210	193	186	164	43	68	20	18	58	55
20	199	213	210	193	183	164	48	64	20	18	52	50
21	203	216	210	193	178	158	49	75	21	18	33	47
22	196	216	213	193	186	155	40	72	21	18	33	42
23	193	220	216	191	174	152	35	55	20	18	25	67
24	196	227	213	190	170	149	28	52	20	17	21	93
25	210	220	213	190	177	152	28	47	20	17	25	95
26	210	220	213	184	177	158	30	52	20	17	23	78
27	216	216	213	177	174	158	47	72	20	17	22	72
28	216	216	213	184	174	155	56	109	20	16	22	62
29	213	216	213	190	---	170	63	147	20	16	24	52
30	203	216	213	190	---	180	64	139	17	15	26	50
31	206	---	210	188	---	170	---	150	---	15	31	---
TOTAL	4846	6024	6535	5989	5035	5378	2456	2683	1232	538	795	1535
MEAN	156	201	211	193	180	173	81.9	86.5	41.1	17.4	25.6	51.2
MAX	285	227	223	206	186	203	155	180	150	19	58	95
MIN	59	164	199	177	170	149	28	39	17	15	14	28
AC-FT	9610	11950	12960	11880	9990	10670	4870	5320	2440	1070	1580	3040

CAL YR 1980 TOTAL 89607 MEAN 245 MAX 925 MIN 40 AC-FT 177700
WTR YR 1981 TOTAL 43046 MEAN 118 MAX 285 MIN 14 AC-FT 85380

10183900 EAST FORK SEVIER RIVER NEAR RUBYS INN, UTAH

LOCATION.--Lat 37°34'33", long 112°15'54", in NE¼SE¼NW¼ sec.19, T.37 S., R.4 W., Garfield County, Hydrologic Unit 16030002, Dixie National Forest, on left bank about 100 ft (30 m) upstream from highway bridge, 0.6 mi (1.0 km) downstream from Skunk Creek, 3.6 mi (5.8 km) upstream from Tropic Reservoir dam, 9.1 mi (14.6 km) southwest of Rubys Inn, and 10.5 mi (16.9 km) southeast of Hatch.

DRAINAGE AREA.--71.6 mi^2 (185 km^2).

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WDR UT-74-1: 1973.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,860 ft (2,396 m) from river-profile map. Prior to October 10, 1966, on right bank at different datum.

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

AVERAGE DISCHARGE.--20 years, 16.8 ft^3/s (0.476 m^3/s), 12,170 acre-ft/yr (15.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 448 ft^3/s (12.7 m^3/s) May 23, 1980, gage height, 3.28 ft (1.00 m); no flow for several days in February and March 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 50 ft^3/s (1.42 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 9	2030	81	2.29	2.31	0.704
July 14	0030	*82	2.32	2.32	.707

Minimum discharge observed, 3.4 ft^3/s (0.096 m^3/s) Jan. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	16	7.4	5.0	4.4	10	22	21	17	8.8	6.2	7.6
2	13	16	7.4	5.0	4.3	11	24	20	16	7.8	6.2	7.4
3	13	15	7.4	5.0	4.1	11	20	20	14	7.8	6.1	7.3
4	13	15	7.2	5.0	3.9	12	18	18	13	7.1	5.7	7.3
5	13	15	6.8	5.1	3.9	13	20	16	12	6.8	5.8	13
6	13	15	6.8	5.2	4.2	13	27	16	11	6.8	5.7	15
7	13	15	6.6	5.2	4.3	13	36	16	10	6.6	5.6	14
8	13	15	6.5	5.2	4.5	14	41	14	9.9	6.5	5.6	11
9	13	15	6.4	5.1	4.8	16	50	14	9.5	6.7	5.7	10
10	13	15	5.7	5.0	4.9	14	51	14	9.0	7.1	13	11
11	13	15	6.2	5.0	5.0	16	48	14	8.6	6.8	14	9.6
12	25	19	6.4	4.9	5.0	15	38	13	8.5	8.3	12	12
13	24	19	6.4	4.8	5.0	14	36	13	8.1	11	15	15
14	17	15	6.0	4.7	5.0	15	37	12	8.1	20	23	11
15	18	13	5.8	4.6	5.0	16	44	13	8.3	9.2	18	10
16	18	15	5.6	4.7	5.1	16	40	19	8.3	10	16	9.8
17	17	11	5.4	4.7	5.2	16	35	18	8.0	13	12	9.3
18	16	10	5.3	4.7	5.2	14	51	16	7.8	9.7	9.8	8.9
19	16	10	5.2	4.7	5.3	15	48	14	7.4	8.1	9.9	8.6
20	15	9.4	5.2	4.7	5.3	15	34	22	7.3	7.3	8.7	8.4
21	15	9.2	5.2	4.7	5.4	16	34	20	7.1	7.0	8.4	8.2
22	15	8.8	5.2	4.7	5.6	16	33	16	7.0	7.1	8.9	8.1
23	15	8.6	5.1	4.8	6.2	16	31	14	6.8	9.0	9.7	8.1
24	14	8.4	5.1	4.8	6.4	18	30	14	6.8	7.3	9.7	8.3
25	14	8.2	5.0	4.7	6.6	19	28	13	7.0	6.7	8.5	8.2
26	16	7.9	4.9	4.7	7.0	21	26	14	6.7	6.6	9.1	8.1
27	17	7.8	4.9	4.6	8.0	19	23	16	6.9	6.5	9.1	7.9
28	17	7.5	4.8	4.5	9.0	17	22	20	8.5	6.5	8.6	7.8
29	17	7.5	4.8	4.5	---	20	21	20	8.1	6.5	9.6	7.8
30	17	7.4	4.8	4.5	---	22	21	23	8.8	6.4	8.4	8.0
31	16	---	4.9	4.5	---	18	---	20	---	6.2	8.0	---
TOTAL	482	369.7	180.4	149.3	148.6	481	989	513	275.5	251.2	302.0	286.7
MEAN	15.5	12.3	5.82	4.82	5.31	15.5	33.0	16.5	9.18	8.10	9.74	9.56
MAX	25	19	7.4	5.2	9.0	22	51	23	17	20	23	15
MIN	13	7.4	4.8	4.5	3.9	10	18	12	6.7	6.2	5.6	7.3
AC-FT	956	733	358	296	295	954	1960	1020	546	498	599	569

CAL YR 1980 TOTAL 16811.6 MEAN 45.9 MAX 418 MIN 4.8 AC-FT 33350
WTR YR 1981 TOTAL 4428.4 MEAN 12.1 MAX 51 MIN 3.9 AC-FT 8780

10187300 OTTER CREEK NEAR KOOSHAREM, UTAH

LOCATION.--Lat 38°36'40", long 111°48'40", in NW¼ sec.28, T.25 S., R.1 E., Sevier County, Hydrologic Unit 16030002, on right bank, 2.3 mi (3.7 km) upstream from mouth and 7.9 mi (12.7 km) northeast of Koosharem.

DRAINAGE AREA.--23.5 mi^2 (62 km^2).

PERIOD OF RECORD.--August 1964 to current year.

GAGE.--Water-stage recorder and Cipolletti weir. Altitude of gage is 7,100 ft (2,164 m) from topographic map.

REMARKS.--Records good except those of no gage-height record Oct. 1 to Nov. 12, which are poor. No diversions above station.

AVERAGE DISCHARGE.--17 years, 12.1 ft^3/s (0.343 m^3/s), 8,770 acre-ft/yr (10.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 117 ft^3/s (3.31 m^3/s) May 18, 1973, gage height, 2.61 ft (0.796 m); minimum, 3.6 ft^3/s (0.10 m^3/s) Nov. 9, 1977, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 25 ft^3/s (0.71 m^3/s); and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
April 17	2200	32	0.906	1.90	0.579
April 30	2200	*71	2.01	2.27	.692

Minimum, 5.6 ft^3/s (0.16 m^3/s) Nov. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	10	9.4	8.8	7.9	9.0	9.4	40	19	12	9.5	8.4
2	11	10	9.3	9.0	7.8	9.2	9.6	38	18	14	9.4	7.9
3	11	9.8	9.3	8.8	7.9	9.3	9.5	36	20	11	9.2	7.6
4	10	11	9.5	9.3	8.0	9.3	9.2	26	17	11	9.6	7.6
5	13	10	9.3	9.3	8.1	9.0	9.2	24	16	11	8.9	7.6
6	13	9.8	9.4	9.5	8.2	9.2	10	22	16	11	8.9	7.9
7	12	9.7	9.3	9.7	8.2	9.3	10	20	15	11	8.9	7.9
8	11	9.6	9.4	9.3	8.0	9.0	9.7	19	15	11	8.9	8.0
9	9.8	9.5	9.2	9.2	8.0	9.0	12	17	14	11	8.9	8.6
10	9.6	9.7	9.4	9.2	7.9	9.0	14	19	14	11	9.9	9.0
11	9.7	9.8	8.6	9.0	8.0	9.1	14	20	14	11	11	8.6
12	11	9.8	8.6	9.0	8.0	9.1	15	18	14	11	10	8.4
13	11	9.7	8.8	9.1	8.2	9.3	14	18	14	11	9.8	8.6
14	10	9.1	9.0	9.1	8.4	9.7	16	20	14	11	9.9	8.3
15	9.8	8.1	9.0	9.0	8.4	9.7	19	21	14	10	11	8.1
16	9.9	9.4	9.0	9.0	8.4	9.7	21	20	13	11	11	7.9
17	10	9.1	9.0	9.0	8.4	9.3	22	19	13	12	9.8	7.9
18	10	8.9	9.0	8.9	8.4	9.3	22	19	13	10	9.7	7.8
19	9.8	8.9	9.0	8.9	8.4	9.3	19	19	13	10	9.7	7.6
20	9.7	9.2	8.9	9.0	8.3	9.3	15	20	12	9.8	9.4	7.6
21	9.8	8.7	9.0	8.9	8.5	9.3	16	19	12	9.7	9.5	7.6
22	9.6	9.1	9.0	8.8	8.6	9.3	18	20	12	9.7	9.7	7.6
23	9.6	9.1	9.0	8.8	8.6	9.7	24	19	12	10	9.8	7.6
24	10	9.3	8.8	8.7	8.6	10	28	20	12	10	9.8	7.6
25	9.8	9.1	8.9	8.6	8.6	10	33	20	12	9.7	9.4	7.6
26	9.6	9.1	9.0	8.1	8.5	10	35	19	12	9.7	9.0	7.6
27	9.7	9.3	8.9	7.9	8.6	10	30	21	12	9.7	8.9	7.5
28	10	9.3	9.0	8.1	8.8	9.7	39	22	12	9.6	9.1	7.3
29	12	9.3	8.8	8.0	---	10	47	22	12	9.6	9.1	7.3
30	11	9.3	8.7	8.0	---	10	41	20	12	9.5	8.6	7.3
31	11	---	8.8	8.0	---	9.7	---	20	---	9.3	8.5	---
TOTAL	324.4	282.7	280.3	274.0	231.7	292.8	590.6	677	418	327.3	294.8	236.3
MEAN	10.5	9.42	9.04	8.84	8.28	9.45	19.7	21.8	13.9	10.6	9.51	7.88
MAX	13	11	9.5	9.7	8.8	10	47	40	20	14	11	9.0
MIN	9.6	8.1	8.6	7.9	7.8	9.0	9.2	17	12	9.3	8.5	7.3
AC-FT	643	561	556	543	460	581	1170	1340	829	649	585	469

CAL YR 1980 TOTAL 4796.1 MEAN 13.1 MAX 56 MIN 7.5 AC-FT 9510
WTR YR 1981 TOTAL 4229.9 MEAN 11.6 MAX 47 MIN 7.3 AC-FT 8390

10188000 OTTER CREEK RESERVOIR NEAR ANTIMONY, UTAH

LOCATION.--Lat 38°10'15", long 112°01'25", in NW¼SW¼NW¼ 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 (6.0 km) northwest of Antimony and 9.3 mi (15.0 km) east of Kingston.

DRAINAGE AREA.--373 mi^2 (966 km^2).

PERIOD OF RECORD.--January 1914 to September 1915, January 1934 to current year. Published as "near Coyote" 1914.

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

GAGE.--Staff gage usually read on 10th, 20th, and last day of each month. Altitude of gage is 6,350 ft (1,935 m) by barometer.

REMARKS.--Reservoir was formed in 1898 by a 15-ft (4.6-m) earthfill, rock-faced dam which was raised some each year to the ultimate height of 45 ft (13.7 m) in 1915. The dam has a concrete core through the center. Capacity, 52,700 acre-ft (65.0 hm^3) between gage height zero (bottom of outlet gage) and 36.0 ft (11.0 m) (top of flashboards on spillway). At times, additional flashboards are added or surcharge occurs increasing the stage to 37.0 ft (11.3 m), capacity, 55,200 acre-ft (68.1 hm^3). Spillway crest is at gage height 33.5 ft (10.2 m). 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, 56,500 acre-ft (69.7 hm^3) May 20, 1973, gage height, 37.5 ft (11.43 m); minimum observed, 200 acre-ft (0.25 hm^3) Sept. 10, 1956, gage height, 1.0 ft (0.305 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 56,240 acre-ft (69.3 hm^3) May 31, gage height, 37.4 ft (11.400 m); minimum observed, 29,360 acre-ft (36.2 hm^3) Sept. 30, gage height, 25.5 ft (7.77 m).

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

25	28,400	35	50,170
30	38,550	38	57,800

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	49190	31490	29550
10	40090	42110	45810	49440	52660	55200	55460	55720	55200	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	40530	43020	47250	50670	53930	55200	55720	55980	54690	44650	30710	29550
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	54690	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	44650	---	---	---	---	55720	---	51670	---	---	29360
31	40980	---	47970	52160	---	55200	---	56240	---	31890	30320	---
(†)	31.1	32.7	34.1	35.8	36.8	37.0	37.2	37.4	35.6	26.8	26.0	25.5
(‡)	+1100	+3670	+3320	+4190	+2530	+510	+520	+520	-4570	-19780	-1570	-960

CAL YR 1980 . . . . . (‡) +10490
WTR YR 1981 . . . . . (‡) -10510

(†) GAGE HEIGHT, IN FEET, AT END OF MONTH
(‡) CHANGE IN CONTENTS, IN ACRE-FEET

10189000 EAST FORK SEVIER RIVER NEAR KINGSTON, UTAH

LOCATION.--Lat 38°11'49", long 112°09'01", in NW¼SW¼SE¼ sec.13, T.30 S., R.3 W., Piute County, Hydrologic Unit 16030002, on left bank 1,500 ft (457 m) upstream from bridge on State Highway 22, 2.2 mi (3.5 km) east of Kingston, 4.6 mi (7.4 km) upstream from mouth, and 10 mi (16 km) downstream from Otter Creek.

DRAINAGE AREA.--1.207 mi^2 (3,126 km^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 (1,875 m) from river-profile map. Prior to Apr. 29, 1914, staff gage at site 0.5 mi (0.8 km) upstream at different datum. Apr. 29, 1914 to June 2, 1939, water-stage recorder at site 4,000 ft (1,219 m) downstream at different datum. June 12, 1939 to July 29, 1970, water-stage recorder at site 2,500 ft (762 m) downstream at different datum.

REMARKS.--Records good except for periods of ice effect, Nov. 12 to Jan. 16, which are poor. 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.--68 years, 77.0 ft^3/s (2.18 m^3/s), 55,790 acre-ft/yr (68.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,030 ft^3/s (57.5 m^3/s) May 12, 1941, gage height, 5.05 ft (1.539 m); minimum, 1.0 ft^3/s (0.03 m^3/s) Jan. 25, 1976, gage height, 0.52 ft (0.16 m); result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 330 ft^3/s (935 m^3/s) Apr. 25, gage height, 2.52 ft (0.768 m); minimum daily, 12 ft^3/s (0.340 m^3/s) Dec. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	18	22	24	30	63	90	193	185	142	129	65
2	100	18	19	27	31	65	88	183	184	138	130	66
3	38	18	21	27	30	65	91	175	181	132	81	67
4	20	18	22	27	30	67	90	168	187	128	62	67
5	18	18	20	27	31	68	89	156	190	124	59	74
6	17	18	17	27	32	71	88	140	192	124	59	73
7	17	17	16	27	33	73	88	123	193	122	59	66
8	16	17	15	24	33	74	89	56	196	126	60	66
9	15	17	13	20	35	76	88	53	201	122	60	67
10	15	17	12	20	36	78	89	47	199	119	61	73
11	16	17	13	20	37	79	92	45	199	121	62	70
12	20	17	14	25	37	78	94	46	196	130	58	69
13	29	17	16	30	39	80	96	47	196	132	57	67
14	22	17	16	25	41	86	99	44	196	134	57	65
15	19	16	16	25	43	90	104	48	196	132	58	65
16	19	16	16	25	44	89	111	59	196	130	60	65
17	18	16	16	24	47	90	121	58	199	132	61	65
18	18	16	16	24	49	89	136	55	196	138	61	63
19	18	16	16	24	51	89	160	53	194	134	61	63
20	19	17	16	24	53	90	176	167	191	126	61	61
21	17	17	19	23	54	91	202	174	180	134	66	62
22	15	18	22	23	54	90	200	175	173	134	66	63
23	15	18	21	23	55	90	195	172	169	136	67	63
24	17	19	21	23	56	91	227	171	167	138	65	65
25	16	18	22	24	57	89	264	171	162	138	63	67
26	17	18	25	25	58	87	253	171	160	136	65	63
27	22	18	25	25	60	89	226	174	156	134	62	62
28	19	18	25	27	61	90	212	168	152	134	62	62
29	18	22	21	27	---	90	205	171	146	132	66	60
30	19	27	20	29	---	91	204	179	142	127	66	58
31	19	---	19	29	---	92	---	189	---	128	66	---
TOTAL	746	534	572	774	1217	2550	4267	3831	5474	4057	2070	1962
MEAN	24.1	17.8	18.5	25.0	43.5	82.3	142	124	182	131	66.8	65.4
MAX	100	27	25	30	61	92	264	193	201	142	130	74
MIN	15	16	12	20	30	63	88	44	142	119	57	58
AC-FT	1480	1060	1130	1540	2410	5060	8460	7600	10860	8050	4110	3890

CAL YR 1980 TOTAL 35791 MEAN 97.8 MAX 615 MIN 12 AC-FT 70990
WTR YR 1981 TOTAL 28054 MEAN 76.9 MAX 264 MIN 12 AC-FT 55650

10191000 PIUTE RESERVOIR NEAR MARYSVALE, UTAH

LOCATION.--Lat 38°19'26", long 112°11'26", in NW¼NE¼NW¼ sec.3, T.29 S., R.3 W., Piute County, Hydrologic Unit 16030001, at Piute Dam on Sevier River, 9.0 mi (14.5 km) south of Marysvale.

DRAINAGE AREA.--2,438 mi^2 (6,314 km^2).

PERIOD OF RECORD.--March 1914 to current year.

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

GAGE.--Staff gage read at irregular intervals. Datum of gage is 5,900.8 ft (1,798.56 m) 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 (88.6 hm^3) between gage heights 10 ft (3.05 m) (approximate bottom of reservoir) and 76 ft (23.16 m) (top of flashboards on spillway since 1941). Spillway crest is at gage height 70.2 ft (21.40 m). 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, 82,300 acre-ft (102 hm^3) May 28, 1922, gage height, 76.4 ft (23.29 m), original capacity table; no contents at times in several years.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 72,340 acre-ft (89.2 hm^3) Mar. 7, gage height, 76.2 ft (23.23 m); minimum observed, 10,770 acre-ft (13.3 hm^3) Sept. 8, gage height, 39.8 ft (12.13 m).

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

39	9,920	45	16,760	55	30,870	65	48,170	75	69,260
40	10,980	50	23,380	60	39,150	70	58,030	77	74,400

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51610	51230	50070	49690	60350	71830	70030	65230	58880	49120	30560	10980
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	44480	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	50450	---	---	---	---	---	---	---	---
6	52200	---	50260	---	---	---	---	---	61860	---	---	---
7	---	---	---	---	63410	72340	---	---	---	---	---	---
8	---	50840	---	---	---	---	69260	---	---	---	23960	10770
9	---	---	---	---	---	---	---	61430	---	---	---	---
10	51610	---	---	52200	---	---	---	---	62070	---	---	---
11	---	---	---	---	---	---	69260	---	---	37440	---	---
12	---	---	---	---	---	---	---	59300	---	---	---	---
13	---	---	50070	---	---	71830	---	---	---	---	---	12190
14	---	---	---	---	65690	---	---	---	---	---	---	---
15	---	50260	---	---	---	71830	---	---	61000	---	18780	---
16	---	---	---	---	---	---	---	57010	---	---	---	---
17	---	---	---	55980	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	68060	---	---	34910	---	13450
19	51230	---	---	---	---	---	---	---	---	---	---	---
20	---	---	49880	---	---	---	---	---	58030	---	---	---
21	---	---	---	---	68540	71310	---	---	---	33920	---	---
22	---	50070	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	11530	---
24	---	---	---	58030	---	---	66850	56600	---	---	---	---
25	51230	---	---	---	---	---	---	---	---	---	---	15310
26	---	---	---	---	70540	---	---	---	51810	---	---	---
27	---	---	49880	---	---	---	---	---	---	---	---	---
28	---	---	---	---	a71180	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	a50070	---	---	---	---	a65460	---	49120	---	10980	16640
31	51230	---	49690	60350	---	70030	---	58880	---	30560	a10980	---
(†)	66.6	---	65.8	71.1	---	75.3	---	70.4	65.5	54.8	---	44.9
(‡)	-380	-1160	-380	+10660	+10830	-1150	-4570	-6580	-9760	-18560	-19580	+5660

CAL YR 1980 . . . . . (‡) +4480
WTR YR 1981 . . . . . (‡) 34970

(†) 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 NW¼SW¼SE¼ sec.34, T.28 S., R.3 W., Piute County, Hydrologic Unit 16030003, on left bank 0.25 mi (0.4 km) downstream from Piute Dam and 8.5 mi (13.7 km) south of Marysvale.

DRAINAGE AREA.--2,441 mi^2 (6,322 km^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 (1,789 m) by barometer. Prior to May 4, 1912, non-recording gage at site 0.25 mi (0.40 km) upstream at different datums. May 4, 1912 to Mar. 31, 1935, water-stage recorder at site 0.05 mi (0.08 km) upstream at different datum. Apr. 1, 1935 to Apr. 7, 1936, at datum 0.7 ft (0.213 m) higher. Apr. 8, 1936 to Feb. 25, 1970, at datum 0.5 ft (0.152 m) higher. Feb. 26, 1970 to Apr. 22, 1979 at site 0.25 mi (0.40 km) downstream at different datum.

REMARKS.--Records good. Flow regulated by Piute Reservoir (see station 10191000).

AVERAGE DISCHARGE.--69 years (1912-81), 212 ft^3/s (6.004 m^3/s), 153,600 acre-ft/yr (189 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,600 ft^3/s (73.6 m^3/s) May 23, 24, 1922; practically no flow at times when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 799 ft^3/s (22.6 m^3/s) June 22, gage height, 2.13 ft (0.649 m); minimum daily, 5.5 ft^3/s (0.155 m^3/s) many days during Jan. and Feb.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	252	257	230	5.5	29	267	522	26	692	480	248
2	56	252	257	156	5.5	70	267	543	25	692	480	212
3	56	252	257	156	5.5	149	267	543	25	692	558	212
4	56	257	257	156	5.5	230	267	543	18	692	580	220
5	56	257	257	153	5.5	230	267	543	18	662	572	216
6	65	257	257	79	5.5	225	257	536	19	655	565	160
7	160	252	257	79	5.5	225	207	494	25	640	558	122
8	179	252	257	41	5.5	225	220	494	29	625	536	119
9	175	252	257	8.4	5.5	225	230	454	100	610	536	77
10	160	252	257	8.4	5.5	225	230	428	175	580	536	26
11	212	248	252	7.9	5.5	230	225	428	267	558	522	35
12	248	248	252	7.9	5.5	272	230	428	317	529	515	54
13	248	252	252	7.5	5.5	391	234	467	333	480	508	38
14	248	252	252	7.5	5.5	286	234	454	350	474	501	18
15	248	252	252	7.5	5.5	291	234	448	379	422	501	18
16	248	252	252	7.5	5.5	276	272	441	487	385	494	18
17	248	252	252	7.5	5.5	267	296	409	494	385	494	18
18	252	252	252	7.1	5.5	257	296	373	522	379	480	16
19	252	252	252	6.7	5.5	286	312	355	580	361	467	12
20	252	252	252	7.1	5.5	306	323	296	610	350	480	12
21	252	252	252	6.7	5.5	306	317	225	730	339	454	7.9
22	252	252	252	6.7	5.5	306	291	119	791	301	434	7.5
23	252	252	252	6.3	5.5	306	291	116	708	281	409	23
24	252	257	252	6.3	5.5	306	328	145	692	252	373	29
25	252	257	252	6.3	18	306	397	207	692	220	328	29
26	252	257	252	6.3	28	306	422	267	715	262	296	52
27	252	257	248	6.3	28	306	467	306	752	317	267	67
28	252	257	248	5.9	28	306	487	230	745	403	257	50
29	252	257	248	5.9	---	317	508	112	738	428	252	50
30	252	257	248	5.9	---	355	508	74	722	467	252	50
31	252	---	248	5.5	---	291	---	28	---	480	252	---
TOTAL	6247	7602	7842	1209.1	234.0	8106	9151	11028	12084	14613	13937	2216.4
MEAN	202	253	253	39.0	8.36	261	305	356	403	471	450	73.9
MAX	252	257	257	230	28	391	508	543	791	692	580	248
MIN	56	248	248	5.5	5.5	29	207	28	18	220	252	7.5
AC-FT	12390	15080	15550	2400	464	16080	18150	21870	23970	28980	27640	4400

CAL YR 1980 TOTAL 122068.2 MEAN 334 MAX 919 MIN 3.7 AC-FT 242100
WTR YR 1981 TOTAL 94269.5 MEAN 258 MAX 791 MIN 5.5 AC-FT 187000

10191500 SEVIER RIVER BELOW PIUTE DAM, NEAR MARYSVALE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1958 to September 1959, February 1961 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)
OCT										
10...	1400	161	470	8.4	23.0	15.0	9.0	210	0	--
NOV										
10...	1215	245	520	8.4	17.5	9.0	10.5	230	0	--
DEC										
09...	1100	244	445	8.6	-4.0	3.5	12.2	210	0	--
JAN										
12...	1330	7.8	465	8.2	7.5	5.0	10.6	210	0	--
FEB										
20...	1200	5.8	465	8.2	2.0	3.0	10.9	200	0	--
MAR										
20...	1130	312	455	8.2	12.0	5.0	11.0	210	--	--
APR										
17...	1230	297	465	8.4	25.0	10.0	10.4	210	--	.00
MAY										
18...	1230	356	460	8.3	15.5	12.5	10.0	210	--	.00
JUL										
02...	1030	662	475	7.9	18.0	18.5	6.8	200	--	.00
AUG										
04...	1200	573	485	8.1	27.5	21.0	7.4	200	--	.00
SEP										
01...	1200	249	510	8.0	28.0	19.0	8.3	210	--	.00

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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY FIELD (MG/L AS CACO3)
OCT									
10...	46	22	23	19	.7	4.6	--	--	--
NOV									
10...	51	24	29	21	.8	5.0	--	--	--
DEC									
09...	46	22	26	21	.8	4.9	280	20	263
JAN									
12...	45	23	28	22	.8	3.2	--	--	--
FEB									
20...	47	21	27	22	.8	2.8	--	--	--
MAR									
20...	47	22	24	20	.7	3.3	--	--	--
APR									
17...	47	22	24	20	.7	3.6	--	--	--
MAY									
18...	47	22	24	20	.7	3.7	--	--	--
JUL									
02...	44	23	27	22	.8	3.5	--	--	--
AUG									
04...	43	23	27	22	.9	4.4	--	--	--
SEP									
01...	46	22	29	23	1.0	4.6	--	--	--

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	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)
OCT									
10...	230	--	23	10	.3	21	288	.39	125
NOV									
10...	240	--	28	12	.4	23	317	.43	210
DEC									
09...	220	1.3	24	9.0	.3	19	309	.42	204
JAN									
12...	--	--	24	9.5	.4	28	299	.41	6.3
FEB									
20...	230	--	8.8	9.5	.0	23	278	.38	4.4
MAR									
20...	220	--	23	8.7	.3	24	285	.39	240
APR									
17...	230	--	25	9.1	.3	24	294	.40	236
MAY									
18...	220	--	24	8.9	.3	18	280	.38	269
JUL									
02...	210	--	35	12	.3	18	290	.39	518
AUG									
04...	220	--	9.0	18	.5	23	281	.38	435
SEP									
01...	250	--	25	14	.3	28	320	.44	215

10191500 SEVIER RIVER BELOW PIUTE DAM, NEAR MARYSVALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	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, DIS-SOLVED (MG/L AS P)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT 10...	--	--	.04	.030	--
NOV 10...	--	--	.11	.030	--
DEC 09...	--	--	.00	.010	--
JAN 12...	--	--	.01	.040	2.4
FEB 20...	--	--	.14	.000	2.1
MAR 20...	.000	.00	.11	--	2.5
APR 17...	--	--	.08	.030	2.7
MAY 18...	--	--	.01	.020	2.8
JUL 02...	--	--	.18	.040	2.6
AUG 04...	--	--	.12	.040	--
SEP 01...	--	--	.06	.040	--

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT 10...	1400	80	--
NOV 10...	1215	80	--
DEC 09...	1100	80	--
JAN 12...	1330	60	--
FEB 20...	1200	60	--
APR 17...	1230	50	--
MAY 18...	1230	50	--
JUL 02...	1030	60	4
AUG 04...	1200	60	--
SEP 01...	1200	70	--

10194000 SEVIER RIVER ABOVE CLEAR CREEK, NEAR SEVIER, UTAH

LOCATION.--Lat 38°34'20", long 112°15'27", in NE¼NW¼NE¼ sec.5, T.26 S., R.4 W., Sevier County, Hydrologic Unit 16030003, on right bank 0.6 mi (1.0 km) upstream from bridge on U.S. Highway 89, 0.7 mi (1.1 km) upstream from Clear Creek, and 1.0 mi (1.6 km) south of Sevier.

DRAINAGE AREA.--2,707 mi^2 (7,010 km^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 (1,695 m) by barometer. Prior to May 16, 1912, non-recording gage, and May 16, 1912 to Sept. 30, 1929, water-stage recorder, at site 0.8 mi (1.3 km) downstream at different datums (datum lowered 1.0 ft (3.05 m) Mar. 31, 1913).

REMARKS.--Records good. Many diversions above station for irrigation. Flow regulated by Piute Reservoir.

AVERAGE DISCHARGE.--41 years (1912-16, 1939-55, 1960-81), 234 ft^3/s (6.627 m^3/s), 169,500 acre-ft/yr (209 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--(Not including flow of Clear Creek): Maximum discharge, 2,270 ft^3/s (64.3 m^3/s) May 16, 1941, gage height, 4.83 ft (1.472 m); minimum, 2.3 ft^3/s (0.065 m^3/s) Dec. 13, 1964. 1916-29 (including flow of Clear Creek): Maximum discharge, 2,800 ft^3/s (79.3 m^3/s) during last week of May 1922, computed on basis of records for station near Marysvale; minimum, 9.8 ft^3/s (0.28 m^3/s) Mar. 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 681 ft^3/s (19.3 m^3/s) June 23, gage height, 2.78 ft (0.85 m); minimum, 21 ft^3/s (0.595 m^3/s) Feb. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	256	252	252	29	40	313	448	165	672	438	254
2	75	256	252	245	30	42	302	478	151	649	434	247
3	74	256	252	213	33	53	298	504	152	636	447	220
4	74	256	252	193	36	99	291	517	151	622	513	206
5	75	256	252	182	37	162	280	518	142	608	535	218
6	74	256	252	172	37	193	275	518	143	594	528	229
7	80	256	252	142	35	207	266	517	150	579	528	159
8	128	256	252	108	34	216	252	506	165	542	513	140
9	167	256	252	101	32	219	240	494	183	522	513	140
10	180	256	252	78	29	222	237	481	233	504	518	94
11	175	252	248	67	32	223	235	463	273	490	513	58
12	193	252	248	55	34	226	232	448	318	470	504	63
13	223	252	248	44	30	243	231	437	350	455	499	89
14	235	252	252	39	27	277	229	434	368	440	489	62
15	242	252	252	36	26	262	229	434	376	409	489	42
16	245	252	252	35	26	273	229	438	383	399	479	35
17	245	252	252	34	26	280	230	437	414	370	474	33
18	248	252	256	34	26	284	239	429	447	357	474	32
19	248	252	256	32	26	291	248	412	467	343	456	30
20	249	252	256	32	25	310	257	381	499	332	461	28
21	252	252	256	31	24	325	266	353	527	314	461	27
22	252	252	256	31	25	328	272	315	598	306	434	26
23	252	252	256	31	25	328	273	251	676	266	430	24
24	252	252	252	30	25	328	273	204	667	266	395	32
25	252	252	252	30	25	328	278	187	654	218	363	37
26	252	252	252	30	26	328	291	196	643	207	332	38
27	252	252	252	31	34	328	303	226	642	273	291	62
28	252	252	252	31	39	328	314	298	663	328	270	69
29	252	252	252	31	---	328	330	324	674	379	270	59
30	252	252	252	30	---	325	403	286	676	395	258	59
31	256	---	252	30	---	328	---	241	---	434	258	---
TOTAL	6083	7600	7824	2430	833	7724	8116	12175	11950	13379	13567	2812
MEAN	196	253	252	78.4	29.8	249	271	393	398	432	438	93.7
MAX	256	256	256	252	39	328	403	518	676	672	535	254
MIN	74	252	248	30	24	40	229	187	142	207	258	24
AC-FT	12070	15070	15520	4820	1650	15320	16100	24150	23700	26540	26910	5580

CAL YR 1980 TOTAL 137935 MEAN 377 MAX 1000 MIN 28 AC-FT 273600
WTR YR 1981 TOTAL 94493 MEAN 259 MAX 676 MIN 24 AC-FT 187400

10194200 CLEAR CREEK ABOVE DIVERSIONS, NEAR SEVIER, UTAH

LOCATION.--Lat 38°34'45", long 112°17'22", in NW¼NW¼SW¼ 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 (2.9 km) west of Sevier, 2.3 mi (3.7 km) upstream from mouth, and 17.2 mi (27.7 km) southwest of Richfield.

DRAINAGE AREA.--164 mi^2 (425 km^2).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,680 ft (1,731 m) from topographic map.

REMARKS.--Records good. Small diversions for irrigation above station. Flow regulated by several small reservoirs, combined capacity about 1,000 acre-ft (1.23 hm^3), at headwaters.

AVERAGE DISCHARGE.--24 years, 32.6 ft^3/s (0.923 m^3/s), 23,620 acre-ft/yr (29.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 769 ft^3/s (21.8 m^3/s) Apr. 29, 1973, gage height, 4.41 ft (1.344 m); minimum, 1.5 ft^3/s (0.04 m^3/s) Feb. 21, 1976, gage height, 0.85 ft (0.26 m); result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 189 ft^3/s (5.35 m^3/s) July 12, gage height, 2.30 ft (0.70 m) from floodmarks; minimum, 4.0 ft^3/s (0.113 m^3/s) Feb. 2, result of freezeup.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	17	16	15	14	19	11	65	95	32	9.0	15
2	15	16	15	15	8.1	18	11	71	94	32	8.9	14
3	15	16	16	14	12	17	12	80	96	29	8.5	11
4	15	16	17	15	12	16	12	77	91	26	8.3	11
5	15	16	17	15	9.4	18	11	68	87	26	8.1	12
6	15	16	16	14	13	18	12	62	87	25	7.8	29
7	15	16	16	10	12	18	13	58	88	22	7.6	20
8	15	16	15	9.8	13	17	15	55	89	18	7.4	24
9	15	16	6.3	8.1	17	15	16	52	84	16	7.6	28
10	15	16	6.3	7.7	17	17	19	50	82	16	11	22
11	15	15	8.5	8.1	11	17	23	48	78	21	15	17
12	25	17	9.4	13	17	18	27	47	74	27	18	16
13	23	18	9.4	15	16	19	29	47	69	25	16	16
14	19	15	8.5	13	17	19	34	45	62	21	15	14
15	21	11	9.0	14	16	18	35	48	55	16	16	12
16	20	12	10	14	16	18	39	53	50	16	16	10
17	19	9.4	12	16	17	16	44	50	48	15	16	9.0
18	18	11	15	15	17	13	44	47	47	15	17	9.2
19	18	11	16	14	18	19	50	45	46	13	18	9.0
20	18	12	15	15	18	17	46	56	46	12	17	9.5
21	18	11	16	14	14	13	42	56	45	12	17	9.7
22	18	16	16	14	15	17	41	54	45	11	17	10
23	17	16	15	14	17	18	44	55	43	10	18	10
24	16	15	14	16	17	16	50	55	41	10	17	12
25	16	15	15	16	17	14	58	56	39	10	17	10
26	17	12	15	8.5	17	13	65	59	37	11	17	11
27	18	12	15	14	15	12	65	79	38	11	19	11
28	16	13	15	17	16	11	60	97	40	10	18	10
29	16	15	15	15	---	11	57	95	36	9.8	22	9.9
30	17	17	12	15	---	11	60	94	34	9.3	19	9.9
31	17	---	13	11	---	11	---	99	---	8.9	17	---
TOTAL	532	434.4	414.4	415.2	418.5	494	1045	1923	1866	536.0	446.2	411.2
MEAN	17.2	14.5	13.4	13.4	14.9	15.9	34.8	62.0	62.2	17.3	14.4	13.7
MAX	25	18	17	17	18	19	65	99	96	32	22	29
MIN	15	9.4	6.3	7.7	8.1	11	11	45	34	8.9	7.4	9.0
AC-FT	1060	862	822	824	830	980	2070	3810	3700	1060	885	816

CAL YR 1980 TOTAL 18214.2 MEAN 49.8 MAX 272 MIN 6.3 AC-FT 36130
WTR YR 1981 TOTAL 8935.9 MEAN 24.5 MAX 99 MIN 6.3 AC-FT 17720

10205000 SEVIER RIVER NEAR SIGURD, UTAH

LOCATION.--Lat 38°52'13", long 111°57'14", in SW¼NE¼SW¼ sec.19, T.22 S., R.1 W., Sevier County, Hydrologic Unit 16030003, on left bank 200 ft (61 m) downstream from county road bridge, 0.5 mi (0.8 km) downstream from Rocky Ford Dam, 2.3 mi (3.7 km) northeast of Sigurd, and 5.0 mi (8.0 km) upstream from Lost Creek.

DRAINAGE AREA.--3,375 mi^2 (8,741 km^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 (1,579 m) by barometer. July to September 1912, nonrecording gage 0.3 mi (0.5 km) 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 (0.610 m) 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.--67 years, 96.4 ft^3/s (2.730 m^3/s), 69,840 acre-ft/yr (86.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,400 ft^3/s (68.0 m^3/s) May 30, 1922, gage height, 6.1 ft (1.859 m), present datum, from rating curve extended above 600 ft^3/s (17.0 m^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, 382 ft^3/s (10.8 m^3/s) Dec. 11, gage height, 3.18 ft (0.969 m); minimum daily, 2.8 ft^3/s (0.079 m^3/s) July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	280	358	362	127	86	99	8.5	165	6.9	5.9	83
2	118	269	361	362	126	85	136	6.9	146	16	7.7	65
3	118	267	361	356	125	84	173	5.3	145	16	6.1	35
4	117	267	358	340	127	99	161	4.3	145	16	4.4	27
5	120	273	356	333	127	100	146	4.3	137	16	4.4	39
6	119	275	358	310	126	107	142	4.1	123	16	4.6	46
7	102	277	356	306	129	134	138	4.1	109	15	4.5	53
8	96	288	358	284	123	134	132	22	95	11	4.8	57
9	95	295	358	254	119	144	101	39	64	2.8	4.3	77
10	90	295	354	239	118	161	43	47	33	3.0	4.0	98
11	88	295	365	186	114	190	35	39	20	13	4.3	98
12	94	291	370	171	106	203	34	31	13	17	3.9	113
13	98	310	363	162	116	210	18	30	11	29	3.8	120
14	106	315	358	153	115	217	14	35	13	45	3.9	118
15	110	317	356	148	115	233	18	47	16	54	3.8	118
16	154	317	354	144	110	260	21	65	15	76	3.8	116
17	254	317	354	144	109	277	28	78	12	78	15	114
18	252	317	354	145	110	267	44	86	38	88	42	112
19	250	319	354	138	111	226	66	92	45	88	23	112
20	248	321	356	135	110	134	43	93	52	65	18	110
21	250	324	358	135	105	93	25	96	28	36	10	110
22	252	326	361	132	100	71	22	92	11	20	8.2	98
23	256	326	361	130	100	64	22	86	10	23	8.4	91
24	277	328	363	132	102	71	20	87	10	37	9.0	84
25	315	340	363	130	95	78	14	76	8.8	38	16	67
26	297	349	363	127	87	75	11	52	8.4	42	22	62
27	284	349	361	120	85	84	10	47	7.5	35	18	32
28	280	352	361	123	86	86	9.8	61	6.9	23	16	23
29	277	352	361	133	---	82	9.4	114	7.2	20	65	22
30	295	356	358	131	---	81	9.4	161	5.8	21	88	22
31	306	---	362	129	---	83	---	185	---	11	82	---
TOTAL	5838	9307	11134	6094	3123	4219	1744.6	1798.5	1500.6	977.7	514.8	2322
MEAN	188	310	359	197	112	136	58.2	58.0	50.0	31.5	16.6	77.4
MAX	315	356	370	362	129	277	173	185	165	88	88	120
MIN	88	267	354	120	85	64	9.4	4.1	5.8	2.8	3.8	22
AC-FT	11580	18460	22080	12090	6190	8370	3460	3570	2980	1940	1020	4610

CAL YR 1980 TOTAL 95708.0 MEAN 261 MAX 774 MIN 2.2 AC-FT 189800
WTR YR 1981 TOTAL 48573.2 MEAN 133 MAX 370 MIN 2.8 AC-FT 96340

10205030 SALINA CREEK NEAR EMERY, UTAH

LOCATION.--Lat 38°54'43", long 111°31'47", in SE¼SW¼NW¼ sec.12, T.22 S., R.3 E., Sevier County, Hydrologic Unit 16030003, on right bank, 2.5 mi (4.0 km) upstream from Soil Conservation Service retention dam, 15.3 mi (24.6 km) west of Emery, and 18.4 mi (29.6 km) east of Salina.

DRAINAGE AREA.--51.8 mi^2 (134 km^2).

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

GAGE.--Water-stage recorder. Altitude of gage is 7,000 ft (2,134 m) from topographic map. Prior to June 9, 1971, at site 300 ft (91 m) downstream at different datum.

REMARKS.--Records good except those for the winter period, which are poor. No diversion above station. Slight regulation from small reservoirs at headwaters.

AVERAGE DISCHARGE.--18 years, 17.3 ft^3/s (0.490 m^3/s), 12,530 acre-ft/yr (15.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 519 ft^3/s (14.7 m^3/s) May 16, 1974, gage height, 5.07 ft (1.545 m); minimum discharge, 0.80 ft^3/s (0.023 m^3/s) Nov. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 60 ft^3/s (1.70 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 2	2100	71	2.01	3.51	1.070
May 20	2330	*83	2.35	3.61	1.100

Minimum daily, 3.9 ft^3/s (0.110 m^3/s) several days during November.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	11	10	9.0	8.0	7.7	7.9	56	39	15	12	9.6
2	13	11	10	8.8	8.0	7.7	7.9	59	38	15	11	9.5
3	13	11	10	8.8	8.0	7.7	8.3	58	39	15	11	9.4
4	13	11	10	8.8	8.0	7.7	8.2	42	34	14	11	9.7
5	13	11	10	8.8	7.6	7.8	8.2	38	32	14	11	12
6	13	11	10	8.4	7.4	7.7	8.3	35	31	14	11	11
7	12	11	9.7	8.0	7.4	7.7	8.7	32	29	14	11	10
8	12	11	9.2	7.8	7.4	7.6	8.4	30	27	13	11	12
9	12	11	8.6	7.8	8.2	7.7	9.2	26	26	13	11	13
10	12	11	8.2	8.1	8.0	7.5	10	29	25	15	11	13
11	12	11	8.2	8.4	7.6	7.4	11	32	23	14	12	11
12	14	11	8.2	8.8	7.8	7.4	11	30	22	14	12	10
13	13	11	9.0	8.7	8.0	7.4	11	29	21	14	12	9.4
14	13	8.0	9.4	8.6	8.0	7.7	14	32	21	13	12	9.7
15	13	5.6	9.4	8.6	7.9	7.7	17	32	20	13	13	10
16	13	3.9	9.4	8.5	7.9	7.7	19	31	19	13	12	9.7
17	13	3.9	9.4	8.4	8.0	7.7	20	29	19	13	12	10
18	13	3.9	9.4	8.4	8.2	7.7	20	28	18	13	11	10
19	13	3.9	9.4	8.5	8.2	7.7	20	31	18	12	11	9.7
20	12	3.9	9.4	8.5	8.2	7.7	16	29	17	12	11	10
21	12	3.9	9.4	8.5	8.8	7.5	17	30	17	12	11	10
22	12	3.9	9.4	8.5	8.6	7.4	19	35	16	12	11	9.7
23	12	3.9	9.4	8.5	8.3	7.4	24	36	16	12	11	9.4
24	12	4.3	9.4	8.5	7.8	7.4	29	33	16	12	11	9.4
25	12	5.0	9.1	8.5	7.9	7.5	35	33	15	12	11	9.4
26	12	6.0	9.1	7.0	7.9	7.8	34	36	15	12	12	9.1
27	12	7.2	9.1	6.4	8.1	8.1	32	54	16	12	11	8.8
28	12	8.5	9.1	9.2	7.7	7.9	36	53	16	12	11	8.5
29	12	10	9.0	8.5	---	7.7	41	53	16	12	10	8.5
30	11	10	9.0	8.2	---	8.2	51	46	15	12	9.8	8.5
31	11	---	9.0	8.0	---	8.2	---	42	---	11	9.6	---
TOTAL	385	238.8	287.9	259.5	222.9	238.0	562.1	1159	676	404	347.4	300.0
MEAN	12.4	7.96	9.29	8.37	7.96	7.68	18.7	37.4	22.5	13.0	11.2	10.0
MAX	14	11	10	9.2	8.8	8.2	51	59	39	15	13	13
MIN	11	3.9	8.2	6.4	7.4	7.4	7.9	26	15	11	9.6	8.5
AC-FT	764	474	571	515	442	472	1110	2300	1340	801	689	595

CAL YR 1980 TOTAL 10309.5 MEAN 28.2 MAX 208 MIN 3.9 AC-FT 20450
WTR YR 1981 TOTAL 5080.6 MEAN 13.9 MAX 59 MIN 3.9 AC-FT 10080

10206000 SALINA CREEK AT SALINA, UTAH

LOCATION.--Lat 38°57'24", long 111°51'58", in SW¼NW¼NW¼ sec.25, T.21 S., R.1 W., Sevier County, Hydrologic Unit 16030003, on right bank 150 ft (46 m) upstream from bridge on U.S. Highway 89 in Salina and 0.8 mi (1.3 km) upstream from mouth.

DRAINAGE AREA.--292 mi^2 (756 km^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 (1,567 m) estimated on basis of nearby benchmark. Prior to Mar. 23, 1915, nonrecording gage at site 150 ft (46 m) 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 (0.3 km) upstream at different datum.

REMARKS.--Records good. Diversions above and below station for irrigation.

AVERAGE DISCHARGE.--36 years (water years 1916, 1918-19, 1944-55, 1961-81), 21.3 ft^3/s (0.603 m^3/s), 15,430 acre-ft/yr (19.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,800 ft^3/s (51.0 m^3/s) Aug. 26, 1970, gage height, 7.17 ft (2.185 m) from floodmark, from rating curve extended above 400 ft^3/s (11.3 m^3/s), on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 192 ft^3/s (5.44 m^3/s) May 3, gage height, 2.14 ft (0.652 m); minimum, 0.10 ft^3/s (0.003 m^3/s) Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	23	23	16	16	19	4.5	118	51	.95	.71	.26
2	1.2	23	21	18	13	18	5.6	118	47	1.2	.59	.39
3	1.3	22	23	14	14	15	3.9	156	64	1.8	.83	.21
4	1.1	23	23	17	14	17	3.9	75	38	1.6	.32	.21
5	1.3	23	23	16	14	17	2.6	41	30	1.1	.26	3.9
6	1.1	23	19	15	18	16	2.6	38	26	1.4	.26	13
7	.71	24	19	9.3	12	17	6.9	25	25	.95	.21	1.8
8	1.5	24	19	10	12	16	4.8	19	20	.71	.21	1.3
9	1.4	23	11	11	19	15	4.5	13	17	.83	.21	32
10	1.4	23	6.8	10	19	17	7.8	13	14	1.1	.26	23
11	1.1	26	9.3	13	15	16	8.3	19	14	2.6	.32	6.8
12	6.0	26	16	18	20	15	6.0	22	10	1.2	.59	3.9
13	10	28	17	19	19	14	4.5	15	4.8	1.5	.71	2.1
14	2.0	23	16	12	20	6.8	3.9	16	4.2	1.1	.83	1.1
15	8.3	16	17	11	20	1.4	17	23	4.5	.95	.95	.71
16	14	16	20	14	19	1.1	45	32	2.6	1.1	.59	.59
17	19	20	23	19	23	.95	70	32	1.5	1.3	.39	.59
18	19	23	20	14	25	.95	55	25	1.8	1.1	.32	1.2
19	19	21	19	14	25	1.1	62	27	1.6	1.4	.48	1.2
20	19	25	17	16	23	1.4	32	42	1.1	1.3	.26	.95
21	23	23	18	13	17	1.7	24	40	1.5	1.1	.26	.71
22	23	22	19	13	17	1.1	22	36	1.4	1.1	.39	.59
23	22	25	19	13	19	1.3	32	34	1.5	.95	.32	.71
24	19	24	15	17	20	1.3	61	30	1.4	.95	.32	1.3
25	19	22	17	16	22	1.3	81	27	.83	.95	.32	1.1
26	23	21	17	4.5	22	1.7	98	30	.71	.95	.95	.83
27	25	20	17	3.3	17	4.5	57	73	.95	.83	.48	.71
28	23	24	17	13	18	4.2	51	92	1.6	.71	.32	1.1
29	22	25	15	13	---	3.3	54	81	1.4	.48	.26	1.3
30	23	23	12	15	---	7.8	81	61	.95	.48	.32	.95
31	25	---	13	16	---	3.9	---	62	---	.59	.32	---
TOTAL	376.61	684	541.1	423.1	512	257.80	911.8	1435	390.34	34.28	13.56	104.51
MEAN	12.1	22.8	17.5	13.6	18.3	8.32	30.4	46.3	13.0	1.11	.44	3.48
MAX	25	28	23	19	25	19	98	156	64	2.6	.95	32
MIN	.71	16	6.8	3.3	12	.95	2.6	13	.71	.48	.21	.21
AC-FT	747	1360	1070	839	1020	511	1810	2850	774	68	27	207

CAL YR 1980	TOTAL	16111.40	MEAN 44.0	MAX 433	MIN .50	AC-FT	31960	
WTR YR 1981	TOTAL	5684.10	MEAN 15.6	MAX 156	MIN .21	AC-FT	11270	

10208500 OAK CREEK NEAR FAIRVIEW, UTAH

LOCATION.--Lat 39°40'26", long 111°24'30", in NW¼NE¼SW¼ sec.19, T.13 S., R.5 E., Sanpete County, Hydrologic Unit 16030004, on right bank 2.1 mi (3.4 km) upstream from mouth and 3.7 mi (6.0 km) northeast of Fairview.

DRAINAGE AREA.--11.8 mi^2 (30.6 km^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 (2,000 m) from topographic map.

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

AVERAGE DISCHARGE.--17 years, 10.7 ft^3/s (0.303 m^3/s), 7,750 acre-ft/yr (9.56 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 262 ft^3/s (7.42 m^3/s) May 20, 1973, gage height, 4.08 ft (1.244 m); minimum, 0.78 ft^3/s (0.022 m^3/s) Nov. 29, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 25 ft^3/s (0.71 m^3/s), and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 3	0300	*82	2.32	3.49	1.064
May 26	2000	53	1.50	3.21	.978

Minimum daily, 1.3 ft^3/s (0.037 m^3/s) Dec. 5 and Sept. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	3.9	1.6	2.2	1.9	1.5	3.2	54	37	8.6	2.2	1.4
2	4.5	3.9	1.8	2.4	1.8	1.4	3.4	62	36	8.9	2.2	1.4
3	4.5	3.9	1.8	2.5	1.8	2.3	3.4	68	35	7.9	2.1	1.4
4	4.5	3.9	1.5	2.4	1.6	2.9	3.2	60	32	7.3	2.0	1.3
5	4.4	3.9	1.3	2.3	1.8	2.9	3.0	59	30	6.8	1.9	2.0
6	4.3	3.9	1.4	2.0	2.0	2.9	3.7	52	28	6.7	2.0	2.3
7	4.2	3.9	1.4	1.9	2.2	2.9	3.7	43	26	6.2	2.0	1.9
8	4.2	3.7	1.4	1.8	2.3	2.9	3.6	38	24	5.6	2.0	2.1
9	4.2	3.7	1.4	1.7	2.4	2.9	3.9	37	23	6.0	1.9	2.7
10	4.2	3.7	1.4	1.7	2.2	2.9	5.0	36	21	5.8	3.3	2.6
11	4.2	3.6	1.7	1.6	2.0	2.8	5.7	35	19	5.1	3.3	2.2
12	4.4	4.5	1.8	1.8	2.1	2.9	6.1	33	18	5.1	3.2	2.0
13	4.6	4.1	1.6	2.0	2.3	2.9	6.8	30	17	4.6	3.3	1.9
14	4.8	3.6	1.6	2.1	2.4	2.9	7.7	29	16	4.1	2.7	1.8
15	4.8	2.1	1.7	2.3	2.5	3.0	9.2	29	16	3.8	2.6	1.8
16	4.6	2.6	1.8	2.6	2.6	3.0	9.7	29	15	4.8	2.5	1.8
17	4.4	2.1	1.9	2.9	2.7	2.9	12	27	14	5.6	2.1	1.8
18	4.4	2.4	2.0	2.9	2.9	2.7	13	27	14	4.0	2.0	1.7
19	4.4	2.6	1.9	2.9	3.2	3.0	13	26	13	3.6	2.0	1.7
20	4.4	2.7	2.0	2.7	3.4	3.0	12	28	12	3.4	1.8	1.7
21	4.2	2.6	2.1	2.0	3.4	3.0	11	29	11	3.2	1.8	1.8
22	4.2	2.4	2.2	1.6	3.6	2.9	12	31	10	3.1	2.5	1.7
23	4.2	2.3	2.1	2.7	3.6	3.0	14	33	10	3.1	2.0	1.7
24	4.0	2.4	2.0	3.0	3.6	3.2	18	36	9.5	3.1	1.6	1.8
25	3.9	2.3	2.0	3.0	3.6	3.2	23	37	9.4	3.0	1.5	1.8
26	3.9	2.3	2.1	3.0	3.6	3.2	28	41	9.3	2.9	1.5	1.8
27	3.8	2.3	2.2	3.0	3.4	3.0	30	43	9.5	2.8	1.5	1.9
28	3.7	2.3	2.3	2.7	2.7	3.4	33	42	9.3	2.6	1.4	1.8
29	3.6	2.0	1.9	2.6	---	3.4	38	40	8.8	2.5	1.5	1.8
30	3.5	1.6	1.9	2.3	---	3.4	45	40	8.4	2.4	1.8	1.8
31	3.7	---	2.0	2.1	---	3.2	---	39	---	2.3	1.5	---
TOTAL	131.3	91.2	55.8	72.7	73.6	89.5	383.3	1213	541.2	144.9	65.7	55.4
MEAN	4.24	3.04	1.80	2.35	2.63	2.89	12.8	39.1	18.0	4.67	2.12	1.85
MAX	4.8	4.5	2.3	3.0	3.6	3.4	45	68	37	8.9	3.3	2.7
MIN	3.5	1.6	1.3	1.6	1.6	1.4	3.0	26	8.4	2.3	1.4	1.3
AC-FT	260	181	111	144	146	178	760	2410	1070	287	130	110

CAL YR 1980 TOTAL 6075.0 MEAN 16.6 MAX 138 MIN 1.3 AC-FT 12050
WTR YR 1981 TOTAL 2917.6 MEAN 7.99 MAX 68 MIN 1.3 AC-FT 5790

10215700 OAK CREEK NEAR SPRING CITY, UTAH

LOCATION.--Lat 39°26'52", long 111°25'29", in SW¼SE¼SW¼, sec.1, T.16 S., R.4 E., Sanpete County, Hydrologic Unit 16030004, on right bank about 400 ft (122 m) upstream from powerplant diversion, 0.8 mi (1.3 km) downstream from South Fork, and 4.5 mi (7.2 km) southeast of Spring City.

DRAINAGE AREA.--8.35 mi^2 (21.6 km^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 (2,260 m) from topographic map.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station. Flow includes discharge of Spring City tunnel (transmountain diversion from Colorado River Basin).

AVERAGE DISCHARGE.--12 years, 10.3 ft^3/s (0.292 m^3/s), 7,460 acre-ft/yr (9.20 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 300 ft^3/s (8.50 m^3/s) July 23, 1965, gage height, 3.75 ft (1.143 m) from floodmark, from rating curve extended above 75 ft^3/s (2.12 m^3/s); minimum, 0.93 ft^3/s (0.026 m3/s) Mar. 6, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 40 ft^3/s (1.13 m^3/s), 99 ft^3/s (2.80 m^3/s) June 7, gage height, 2.58 ft (0.786 m); minimum, 1.7 ft^3/s (0.048 m^3/s) Apr. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	4.8	4.1	4.1	2.9	2.9	3.2	16	46	11	7.2	4.9
2	6.0	4.8	4.1	4.1	2.5	2.9	3.2	16	48	11	7.2	4.8
3	6.0	5.2	4.1	4.0	2.7	3.2	2.9	14	49	11	6.8	4.8
4	6.0	5.2	4.1	3.9	2.9	2.9	2.9	11	49	10	7.2	4.8
5	6.0	5.2	3.8	3.8	2.9	2.9	2.6	12	58	9.8	7.2	6.5
6	6.0	5.2	3.8	3.6	2.9	2.9	2.9	12	61	9.8	7.1	7.0
7	6.0	5.2	3.6	3.5	2.9	2.9	2.9	11	74	9.8	6.8	5.7
8	6.0	5.2	3.3	3.4	2.9	2.9	2.9	12	72	9.3	6.8	6.1
9	6.0	4.8	3.1	3.0	2.9	2.9	3.2	12	72	9.3	6.8	7.2
10	6.0	4.8	3.1	3.0	2.7	2.9	3.5	14	63	9.3	7.9	5.7
11	6.0	4.8	3.3	3.0	2.4	2.9	3.8	15	55	9.3	7.5	5.6
12	6.4	4.8	3.4	3.1	2.5	2.9	3.5	14	49	8.8	7.4	5.2
13	6.4	4.8	3.4	3.4	2.6	2.9	3.5	13	40	8.8	7.3	5.1
14	6.4	4.8	3.4	3.3	2.6	2.9	3.8	15	32	8.4	6.8	4.8
15	6.0	4.1	3.5	3.2	2.9	2.9	4.1	16	25	8.0	7.0	4.8
16	5.6	3.8	3.6	3.4	2.9	2.9	4.1	14	23	8.3	6.8	4.8
17	5.6	3.4	3.7	3.5	2.9	2.9	4.1	13	23	7.7	6.8	4.8
18	5.6	3.6	3.8	3.4	3.2	3.2	3.8	13	21	8.0	6.8	4.8
19	5.6	3.8	3.7	3.3	2.9	2.9	3.8	14	20	7.9	6.4	4.8
20	6.0	3.8	3.7	3.3	2.9	2.9	3.5	13	19	7.5	6.4	4.4
21	5.6	3.8	3.8	3.3	2.6	2.9	3.5	12	19	7.2	6.4	4.3
22	5.2	3.8	4.0	3.4	3.5	2.3	3.5	12	17	7.6	6.8	4.8
23	4.4	3.8	3.9	3.4	3.2	2.3	3.2	12	16	7.6	6.0	4.3
24	4.8	3.8	3.6	3.2	3.2	2.3	3.5	13	15	7.5	6.0	4.8
25	5.2	3.8	3.8	3.0	2.9	2.6	4.8	15	13	7.2	5.6	4.8
26	5.2	3.8	3.8	3.1	3.2	2.6	6.4	19	13	7.5	5.6	4.3
27	4.8	3.8	3.8	3.0	2.9	2.9	8.8	26	13	7.2	5.6	4.2
28	5.2	4.1	3.9	2.9	2.9	2.9	8.8	28	12	7.2	5.7	4.2
29	5.2	4.1	3.9	2.9	---	2.9	11	32	12	7.2	5.3	4.2
30	5.2	4.1	3.9	2.9	---	2.7	14	36	12	7.1	5.5	4.2
31	4.4	---	4.0	2.9	---	3.2	---	42	---	7.2	5.3	---
TOTAL	175.2	131.0	115.0	103.3	80.4	88.2	135.7	517	1041	263.5	204.0	150.7
MEAN	5.65	4.37	3.71	3.33	2.87	2.85	4.52	16.7	34.7	8.50	6.58	5.02
MAX	6.4	5.2	4.1	4.1	3.5	3.2	14	42	74	11	7.9	7.2
MIN	4.4	3.4	3.1	2.9	2.4	2.3	2.6	11	12	7.1	5.3	4.2
AC-FT	348	260	228	205	159	175	269	1030	2060	523	405	299

CAL YR 1980 TOTAL 4256.3 MEAN 11.6 MAX 92 MIN 3.1 AC-FT 8440
WTR YR 1981 TOTAL 3005.0 MEAN 8.23 MAX 74 MIN 2.3 AC-FT 5960

10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UTAH

LOCATION.--Lat 39°15'33", long 111°34'45", in NE¼SE¼SE¼ sec.9, T.18 S., R.3 E., Sanpete County, Hydrologic Unit 16030004, on right bank 200 ft (61 m) downstream from a side road bridge 0.6 mi (1.0 km) upstream from upper powerplant, 2.3 mi (3.7 km) east of cattle guard at Manti-LaSal forest boundary, and 3.5 mi (5.6 km) east of Manti.

DRAINAGE AREA.--26.4 mi^2 (68.4 km^2).

PERIOD OF RECORD.--October 1964 to September 1974; October 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,800 ft (2,073 m) from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Records do not include flow diverted around station in an 8-inch (20-cm) 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.--13 years, 29.3 ft^3/s (0.830 m^3/s), 21,230 acre-ft/yr (26.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 682 ft^3/s (19.3 m^3/s) June 9, 1973, gage height, 2.93 ft (0.893 m), revised; minimum, 0.9 ft^3/s (0.025 m^3/s) Nov. 3, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 50 ft^3/s (1.42 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 2	2000	160	4.53	1.96	0.597
June 5	1900	*358	10.1	2.45	.747

Minimum daily, 2.4 ft^3/s (0.068 m^3/s) Jan. 8-10, 14, 15.

REVISIONS.--The maximum discharge, date, and gage height were incorrectly published in the 1979 and 1980 reports and have been revised to 682 ft^3/s (19.3 m^3/s) June 9, 1973, gage height, 2.93 ft (0.893 m), superseding data previously published.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	7.6	4.5	3.6	3.5	3.2	4.7	81	219	37	12	7.0
2	7.6	7.4	4.5	3.8	3.5	2.7	5.0	107	190	36	12	6.7
3	7.3	7.2	4.6	3.6	3.5	2.6	4.9	128	204	34	12	6.5
4	7.3	7.2	4.8	3.3	3.5	3.0	4.6	92	198	32	11	6.3
5	7.3	7.3	4.8	3.1	3.5	3.5	5.8	80	219	30	11	12
6	7.0	7.3	4.9	2.8	3.5	3.5	6.4	71	222	31	11	11
7	7.3	7.1	4.9	2.6	3.5	3.5	6.5	63	231	29	11	7.9
8	8.0	7.0	4.3	2.4	3.5	3.5	6.2	60	209	27	10	9.3
9	7.8	6.9	4.2	2.4	3.5	3.5	8.7	56	180	27	10	9.5
10	7.7	6.7	3.2	2.4	3.5	3.5	10	60	149	27	11	9.9
11	7.6	6.8	3.2	2.8	3.5	3.5	11	64	123	25	11	8.7
12	11	7.7	3.4	3.2	3.5	3.4	12	56	116	25	12	7.6
13	9.2	7.4	3.4	2.8	3.5	3.5	13	55	88	24	11	8.0
14	8.4	6.5	3.4	2.4	3.5	3.5	15	60	88	23	11	7.3
15	9.5	6.0	3.4	2.4	3.5	3.5	20	62	78	22	12	6.7
16	8.7	6.8	3.6	2.9	3.5	3.7	25	60	71	22	10	6.7
17	8.9	6.2	3.8	3.4	3.5	3.7	30	55	66	21	9.4	6.6
18	9.1	6.8	3.8	3.4	3.5	3.7	36	55	63	21	9.9	6.3
19	9.1	7.4	3.8	3.4	3.5	3.5	35	57	60	19	9.6	6.2
20	8.7	8.0	3.6	3.4	3.5	3.7	25	57	57	18	8.8	6.1
21	8.4	8.2	4.0	3.2	3.7	3.7	24	56	54	19	8.9	6.0
22	8.1	8.0	4.0	3.0	4.0	3.7	26	55	50	17	9.0	5.9
23	7.1	7.8	4.0	2.7	4.1	4.1	34	53	48	16	11	5.9
24	8.0	7.6	4.0	3.0	4.1	4.2	47	56	44	16	8.9	5.9
25	8.0	7.8	4.0	3.4	4.1	4.2	57	76	41	15	8.0	5.7
26	7.6	7.8	4.0	3.4	4.1	4.3	56	98	39	15	7.6	5.7
27	7.3	7.5	4.0	3.4	4.0	4.3	51	154	38	14	7.4	5.6
28	8.5	7.0	3.7	3.4	3.9	4.5	51	169	38	14	7.3	5.5
29	9.3	7.0	3.5	3.0	---	4.8	56	182	38	13	7.3	5.4
30	8.8	5.2	3.5	2.8	---	4.9	69	177	37	13	7.2	5.4
31	7.8	---	3.5	3.2	---	6.7	---	191	---	13	7.0	---
TOTAL	254.0	215.2	122.3	94.6	102.0	117.6	755.8	2646	3258	695	305.3	213.3
MEAN	8.19	7.17	3.95	3.05	3.64	3.79	25.2	85.4	109	22.4	9.85	7.11
MAX	11	8.2	4.9	3.8	4.1	6.7	69	191	231	37	12	12
MIN	7.0	5.2	3.2	2.4	3.5	2.6	4.6	53	37	13	7.0	5.4
AC-FT	504	427	243	188	202	233	1500	5250	6460	1380	606	423

CAL YR 1980 TOTAL 14822.4 MEAN 40.5 MAX 373 MIN 3.2 AC-FT 29400
WTR YR 1981 TOTAL 8779.1 MEAN 24.1 MAX 231 MIN 2.4 AC-FT 17410

10216200 GUNNISON RESERVOIR NEAR STERLING, UTAH

LOCATION.--Lat 39°12'23", long 111°42'37", in SE¼NW¼NE¼ sec.32, T.18 S., R.2 E., Sanpete County, Hydrologic Unit 16030004, on right bank 250 ft (76 m) upstream from earthfill, rock-faced dam on San Pitch River, 1.2 mi (1.9 km) northwest of Sterling, 5.7 mi (9.2 km) southwest of Manti, and 6.8 mi (10.9 km) northeast of Gunnison.

DRAINAGE AREA.--672 mi^2 (1,740 km^2).

PERIOD OF RECORD.--January 1965 to current year. No previous records collected at this site.

REVISED RECORDS.--WSP 2127: Drainage area. WDR UT-79-1: Change in contents.

GAGE.--Inclined staff gage. Datum of gage at top of dead storage is 5,366.2 ft (1,635.61 m) 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 (22.4 hm^3) at elevation 5,389.6 ft (1,642.75 m). Dead storage 650 acre-ft (0.80 hm^3) below elevation 5,366.2 ft (1,635.61 m). 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 18,960 acre-ft (23.4 hm^3) July 9-11, 1965, elevation, 5,390.2 ft (1,642.93 m); 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, 18,070 acre-ft (22.3 hm^3) Feb. 9, 18, elevation, 5,389.5 ft (1,642.72 m); minimum contents observed, 4,220 acre-ft (5.20 hm^3) Sept. 26.

Capacity table (elevation, in feet, and usable contents, in acre-feet)
(Based in field survey by Soil Conservation Service in 1965)

5,375	3,960	5,385	12,720
5,380	7,750	5,390	18,710

REVISIONS.--Contents on Sept. 30, 1980, change in contents for September 1980 and change in contents for water year 1980 have been revised as follows and supersede values previously published; Sept. 30, 1980, end of month contents, 9,210 acre-ft (11.4 hm^3), change in contents for September +340 acre-ft (0.42 hm^3), change in contents for water year 1980 +4,310 acre-ft (5.31 hm^3).

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	15600	---	---	---	---	17190	---	---	11640	---
2	---	---	---	---	---	17820	---	---	---	---	---	---
3	---	11530	---	---	---	---	---	---	---	---	---	---
4	---	---	---	17440	---	---	---	---	---	---	---	---
5	---	---	---	16320	---	---	---	---	---	---	---	---
6	---	---	16200	---	---	---	---	---	---	15360	---	---
7	---	---	---	15720	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	16940	---	---	5250
9	---	---	---	---	18070	---	---	---	---	---	---	5110
10	---	12390	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	16450	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	9420	---
14	---	---	---	16820	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	17440	14190	---	5180
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	13280	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	18070	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	8660	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	17440	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	17440	---	---	---	---	---
24	---	14420	---	---	---	---	---	---	---	---	7580	---
25	---	---	---	---	17950	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	4220
27	10700	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	a17870	---	---	---	---	12070	---	---
29	---	---	---	---	---	---	---	---	---	---	6240	---
30	---	a15430	17440	---	---	---	a17220	---	a16080	---	---	a3770
31	a11170	---	a17440	a17770	---	a17610	---	a16800	---	a11530	a6050	---
(‡)	+1960	+4260	+2010	+330	+100	-260	-390	-420	-720	-4550	-5480	-2280

CAL YR 1980 . . . . . (‡) +10300
WTR YR 1981 . . . . . (‡) -5440

(‡) CHANGE IN CONTENTS, IN ACRE-FEET
(a) NO GAGE-HEIGHT RECORD, CONTENTS INTERPOLATED

10217000 SEVIER RIVER BELOW SAN PITCH RIVER, NEAR GUNNISON, UTAH

LOCATION.--Lat 39°09'19", long 111°52'37", in NE¼NE¼SE¼ sec.14, T.19 S., R.1 W., Sanpete County, Hydrologic Unit 16030003, on left bank 1,000 ft (305 m) downstream from San Pitch River and 3.2 mi (5.1 km) west of Gunnison.

DRAINAGE AREA.--4,921 mi^2 (12,745 km^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 (1,532 m) from topographic map. Prior to Oct. 28, 1938, at same site at datum 0.36 ft (0.110 m) higher.

REMARKS.--Records good. Flow regulated by reservoirs and many diversions for irrigation above station. Most of flow diverted above station during irrigation season.

AVERAGE DISCHARGE.--69 years, 225 ft^3/s (6.37 m^3/s), 163,000 acre-ft/yr (201 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,620 ft^3/s (742 m^3/s) June 1, 1922, gage height, 5.68 ft (1.731 m); minimum, 5.6 ft^3/s (0.16 m^3/s) July 17-21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 675 ft^3/s (19.1 m^3/s) Dec. 31, gage height, 4.50 ft (1.372 m); minimum, 29 ft^3/s (0.82 m^3/s) July 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	216	456	527	672	378	228	203	182	393	62	67	165
2	213	432	532	670	364	221	216	216	366	61	63	160
3	207	422	537	659	358	213	252	220	345	64	73	143
4	209	421	539	645	358	214	296	230	348	68	74	121
5	211	432	539	583	358	216	308	166	310	68	62	119
6	211	437	536	559	361	228	304	150	301	65	55	206
7	213	443	537	528	365	261	286	137	275	58	56	159
8	207	433	539	494	363	281	294	120	248	57	60	199
9	204	436	543	478	379	274	252	124	255	58	64	184
10	204	440	538	454	377	269	213	131	214	60	63	233
11	205	447	534	439	355	272	159	137	187	58	64	221
12	213	448	544	413	360	306	149	138	131	63	63	216
13	249	458	563	403	361	315	145	128	119	85	67	221
14	239	472	565	397	359	323	140	122	110	91	66	232
15	274	496	560	373	356	327	122	129	97	117	67	234
16	295	497	557	364	350	361	201	158	80	127	68	194
17	347	478	567	364	331	379	200	175	89	144	67	212
18	400	488	573	367	323	385	209	188	88	142	67	216
19	396	479	575	367	321	372	222	193	97	142	87	206
20	395	479	580	366	320	345	245	218	108	144	82	202
21	395	481	586	366	313	262	205	247	121	133	64	192
22	396	485	597	362	301	230	189	253	97	107	63	180
23	420	490	601	358	295	148	189	246	67	96	60	175
24	411	500	601	360	292	149	203	241	61	98	63	176
25	418	504	600	362	284	148	224	236	66	107	63	169
26	444	505	603	355	256	149	225	224	63	105	64	159
27	450	504	606	340	227	173	210	265	66	108	74	156
28	449	506	620	342	226	187	196	318	68	103	78	145
29	443	515	659	357	---	182	184	300	67	78	85	144
30	435	525	664	378	---	187	202	339	65	74	129	137
31	446	---	673	383	---	207	---	360	---	73	164	---
TOTAL	9815	14109	17795	13558	9291	7812	6443	6291	4902	2816	2242	5476
MEAN	317	470	574	437	332	252	215	203	163	90.8	72.3	183
MAX	450	525	673	672	379	385	308	360	393	144	164	234
MIN	204	421	527	340	226	148	122	120	61	57	55	119
AC-FT	19470	27990	35300	26890	18430	15500	12780	12480	9720	5590	4450	10860

CAL YR 1980 TOTAL 182062 MEAN 497 MAX 1240 MIN 72 AC-FT 361100
WTR YR 1981 TOTAL 100550 MEAN 275 MAX 673 MIN 55 AC-FT 199400

10218500 SEVIER BRIDGE RESERVOIR NEAR JUAB, UTAH

LOCATION.--Lat 39°22'20", long 112°01'57", in NW¼NW¼NW¼ 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 (13,260 km^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 (18 m) and wire-weight gage above, at left end of dam, read once daily. Datum of gage is 4,937.51 ft (1,504.953 m) NGVD of 1929.

REMARKS.--Reservoir was formed by a 30-ft (9-m) earthfill dam. Storage began about 1904. Dam ultimately raised to 90 ft (27 m) by June 1916. Capacity, 236,000 acre-ft (291 hm^3) between gage heights 6.0 ft (1.83 m) (approximate bottom of outlet tunnel) and 80.0 ft (24.38 m) (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, 251,000 acre-ft (310 hm^3) Apr. 19, 20, 1922; gage height, 80.0 ft (24.38 m), from former capacity table; no storage at times in 1927-28, 1930-36, 1951, 1960-61.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 234,000 acre-ft (289 hm^3) Mar. 18, Apr. 9-12, gage height, 79.8 ft (24.32 m); minimum contents observed, 105,500 acre-ft (130 hm^3) Aug. 31 to Sept. 5, gage height, 63.1 ft (19.23 m).

Capacity table (elevation in feet, and contents in acre-feet)
(Based on field survey by Soil Conservation Service in 1961)

63	105,050	72	161,300
65	114,900	75	186,500
68	132,600	78	215,100
70	146,200	80	236,150

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144800	163700	---	214100	228600	229700	230800	224400	200400	161300	130700	105500
2	144800	164600	---	215100	229700	229700	231900	223400	202300	159000	130100	105500
3	144800	165400	---	216100	229700	229700	231900	222300	202300	158200	129400	105500
4	145500	166200	---	216100	230800	230800	231900	222300	203300	157500	128200	105500
5	146200	167000	---	217200	230800	230800	232900	220300	203300	155100	126900	105500
6	146200	168600	195700	217200	231900	230800	232900	216100	202300	154400	123900	106500
7	147000	168600	196600	218200	232900	230800	231900	215100	202300	152100	123400	106500
8	147000	169400	197600	219200	231900	230800	232900	212100	201400	151400	121600	106500
9	147700	170200	198500	219200	232900	230800	234000	212100	200400	150700	121000	107000
10	147700	171100	199500	219200	231900	231900	234000	208100	199500	149200	118800	107900
11	148400	---	200400	219200	232900	231900	234000	208100	199500	147700	117700	108400
12	148400	---	200400	219200	232900	231900	234000	206200	197600	147000	116600	108900
13	148400	---	201400	219200	232900	231900	232900	203300	196600	146200	115500	109800
14	149200	---	202300	219200	232900	231900	232900	201400	195600	144100	114900	109800
15	149200	---	203300	219200	232900	232900	232900	200400	193800	143400	114900	110300
16	149900	176900	204200	219200	231900	232900	232900	200400	193800	141300	114400	111300
17	150700	177800	205200	220300	231900	232900	232900	199500	192900	140600	113400	110800
18	151400	178700	206200	220300	231900	234000	231900	199500	191100	139900	112900	111300
19	152100	179500	206200	220300	231900	232900	231900	197600	188400	139200	112900	111900
20	152900	180400	207100	221300	231900	232900	232900	196600	185700	139200	113400	111900
21	154400	182200	208100	221300	231900	232900	231900	197600	183900	137900	113400	112900
22	155900	183000	208100	222300	230800	230800	231900	197600	182200	137200	113900	112900
23	156700	---	209100	222300	230800	232900	230800	197600	178700	137200	113400	112900
24	158200	---	209100	222300	230800	231900	230800	197600	177800	136500	112400	112900
25	159000	---	210100	223400	230800	231900	230800	198500	174400	135900	110800	112900
26	159000	---	210100	224400	230800	231900	228600	197600	173600	135900	110300	113400
27	159800	---	211100	225430	230800	231900	228600	200400	171100	135200	109800	113400
28	159800	---	---	226500	230800	230800	227600	201400	166200	137900	107900	113400
29	160600	---	212100	226500	---	231900	226500	201400	166200	146300	107000	114400
30	162100	a190200	213100	227600	---	230800	225400	201400	162900	134600	106000	114900
31	162900	---	214100	227600	---	230800	---	201400	---	133900	105500	---
MAX	162900	---	---	227600	232900	234000	234000	224400	203300	161300	130700	114900
MIN	144800	---	---	214100	228600	229700	225400	196600	162900	133900	105500	105500
(†)	72.2	---	77.9	79.2	79.5	79.5	79.0	76.6	72.2	68.2	63.1	65.0
(‡)	+18800	+27330	+23870	+13500	3200	0	-5400	-24000	-38500	-29000	-28400	+9400

CAL YR 1980 . . . . . (‡) +117550
WTR YR 1981 . . . . . (‡) -29200

(†) GAGE HEIGHT, IN FEET, AT END OF MONTH
(‡) CHANGE IN CONTENTS, IN ACRE-FEET
(a) NO GAGE-HEIGHT RECORD, CONTENTS INTERPOLATED

10219000 SEVIER RIVER NEAR JUAB, UTAH

LOCATION.--Lat 39°22'29", long 112°02'20", in SE¼SW¼SE¼ sec.35, T.16 S., R.2 W., Juab County, Hydrologic Unit 16030005, on right bank 0.5 mi (0.8 km) downstream from Sevier Bridge Dam and 11.6 mi (18.7 km) southwest of Juab.

DRAINAGE AREA.--5,165 mi^2 (13,377 km^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 (1,506 m) by barometer. Prior to Apr. 16, 1914, staff gage 500 ft (152 m) 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 (396 m) upstream at different datum. Apr. 1, 1942 to July 15, 1961, water-stage recorder on left bank same site and datum.

REMARKS.--Records good. No diversion between station near Gunnison and this station. Flow regulated by Sevier Bridge Reservoir (see station 10218500).

AVERAGE DISCHARGE.--70 years, 224 ft^3/s (6.34 m^3/s), 162,300 acre-ft/yr (200 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,140 ft^3/s (60.6 m^3/s) June 2, 1922, gage height, 8.50 ft (2.591 m); practically no flow at times when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,160 ft^3/s (32.9 m^3/s) June 26-29; minimum, 3.3 ft^3/s (0.093 m^3/s) Sept. 26, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	8.7	38	278	11	228	185	728	160	850	639	122
2	112	7.9	38	278	11	192	125	757	160	847	645	122
3	53	7.9	38	284	12	152	111	889	157	834	776	96
4	4.0	7.1	38	290	12	118	104	885	157	654	856	63
5	4.0	7.1	38	299	27	105	113	885	184	651	863	63
6	4.0	7.1	38	309	81	109	125	889	444	650	867	63
7	5.5	7.1	38	315	181	125	126	889	444	646	872	63
8	5.5	7.1	40	312	248	137	132	893	444	647	754	63
9	5.5	6.3	40	309	309	140	136	889	444	646	680	63
10	5.5	6.3	40	312	269	140	135	889	444	642	682	63
11	5.5	5.5	92	312	231	143	135	889	441	641	685	43
12	5.5	5.5	118	315	321	146	135	889	444	640	561	7.1
13	6.3	5.5	112	318	360	157	126	889	448	636	481	5.5
14	6.3	5.5	114	318	370	162	128	889	444	635	484	5.5
15	7.1	5.5	123	203	383	185	127	832	522	630	363	5.5
16	5.5	5.5	125	133	394	240	129	633	640	632	276	5.5
17	5.5	5.5	125	130	386	233	130	576	754	595	205	5.5
18	4.7	5.5	168	130	380	307	268	475	956	408	150	4.7
19	4.7	5.5	225	133	376	343	437	347	1050	412	151	4.7
20	5.5	5.5	217	135	363	337	339	165	1050	338	91	4.7
21	5.5	5.5	214	140	363	339	337	165	1060	207	55	4.7
22	5.5	5.5	222	42	353	336	337	165	1140	210	223	4.7
23	5.5	5.5	228	10	331	326	337	165	1140	211	427	4.2
24	5.5	5.5	231	11	309	294	333	165	1140	207	480	4.0
25	5.5	19	234	12	299	274	429	165	1150	208	492	4.0
26	5.5	38	240	12	293	278	569	165	1160	210	588	3.8
27	5.5	38	248	13	278	286	569	163	1160	209	656	4.0
28	7.1	38	251	12	263	284	563	163	1160	211	693	4.0
29	7.1	38	257	11	---	283	562	163	1160	252	547	4.0
30	7.1	38	266	11	---	267	610	163	961	464	461	3.6
31	8.7	---	275	11	---	238	---	160	---	634	250	---
TOTAL	436.1	358.6	4471	5398	7214	6904	7892	16979	21018	15657	15953	913.7
MEAN	14.1	12.0	144	174	258	223	263	548	701	505	515	30.5
MAX	112	38	275	318	394	343	610	893	1160	850	872	122
MIN	4.0	5.5	38	10	11	105	104	160	157	207	55	3.6
AC-FT	865	711	8870	10710	14310	13690	15650	33680	41690	31060	31640	1810

CAL YR 1980 TOTAL 105206.1 MEAN 287 MAX 1120 MIN 1.5 AC-FT 208700
WTR YR 1981 TOTAL 103194.4 MEAN 283 MAX 1160 MIN 3.6 AC-FT 204700

10219200 CHICKEN CREEK NEAR LEVAN, UTAH

LOCATION.--Lat 39°33'08", long 111°49'45", in NW¼NE¼SW¼ sec.33, T.14 S., R.1 E., Juab County, Hydrologic Unit 16030005, on right bank 370 ft (113 m) downstream from county road bridge, just upstream from diversion structure, 0.4 mi (0.6 km) upstream from mouth of canyon, and 1.9 mi (3.1 km) east of Levan.

DRAINAGE AREA.--27.9 mi^2 (72.3 km^2).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,500 ft (1,676 m) from topographic map. Prior to Jan. 18, 1978 at site 250 ft (76 m) upstream at different datum.

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

AVERAGE DISCHARGE.--19 years, 6.49 ft^3/s (0.184 m^3/s), 4,700 acre-ft/yr (5.80 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 390 ft^3/s (11.0 m^3/s) Sept. 8, 1981, gage height, 5.70 ft (1.737 m), from rating curve extended above 250 ft^3/s (7.08 m^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 (0.425 m^3/s), and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 16	1830	20	0.566	4.06	1.237
July 10	0430	16	.453	4.02	1.225
Sept. 8	1700	*390	11.0	5.70	1.737

Minimum discharge, 1.0 ft^3/s (0.028 m^3/s) Feb. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	3.3	2.0	1.9	1.8	1.8	2.4	7.6	6.7	4.6	3.1	2.2
2	3.7	3.2	2.0	1.9	1.4	1.8	2.4	7.2	6.4	4.5	3.1	2.2
3	3.7	3.2	2.0	1.8	1.4	1.8	3.0	7.2	6.1	4.6	3.0	2.2
4	3.7	3.2	2.0	1.8	1.2	1.8	2.7	7.2	6.3	4.4	2.9	2.2
5	3.6	3.2	2.0	1.8	1.2	1.8	2.7	6.7	5.8	4.2	2.8	2.2
6	3.5	3.2	2.0	1.7	1.4	1.8	3.2	6.3	5.7	4.1	3.1	3.5
7	3.5	3.2	2.0	1.5	1.4	1.9	4.3	5.8	5.4	4.1	3.1	3.3
8	3.5	3.2	2.0	1.7	1.4	1.9	4.1	5.6	5.4	4.1	3.1	35
9	3.5	3.2	1.4	1.8	1.7	1.8	5.1	5.2	5.4	5.1	3.0	4.4
10	3.3	3.2	1.1	1.8	1.6	1.8	8.6	5.0	5.1	6.0	3.2	4.3
11	3.3	3.2	1.1	1.7	1.4	1.8	9.7	5.0	5.1	4.4	3.8	3.2
12	3.5	3.5	1.1	1.8	1.5	1.8	11	4.9	4.8	4.5	3.5	3.0
13	3.5	3.7	1.1	1.8	1.6	1.8	10	4.8	4.8	5.4	3.1	2.8
14	3.5	3.3	1.1	1.4	1.6	1.8	10	4.7	4.8	4.8	2.8	2.8
15	4.1	2.8	1.2	1.5	1.6	1.8	12	4.6	4.8	5.7	2.7	2.7
16	4.1	2.4	1.5	1.7	1.6	1.8	15	4.8	4.8	4.6	2.6	2.6
17	4.1	2.1	1.8	1.8	1.7	1.8	15	5.2	4.8	4.5	2.5	2.3
18	4.1	2.1	1.7	1.6	1.7	1.8	14	5.0	4.8	4.2	2.4	2.3
19	3.9	2.1	1.7	1.6	1.8	1.8	14	4.8	4.5	3.9	2.4	2.3
20	3.7	2.2	1.7	1.7	1.8	1.8	11	5.4	4.6	3.7	2.4	2.2
21	3.7	2.2	1.7	1.7	1.7	1.8	10	5.8	4.4	3.5	2.4	2.2
22	3.5	2.2	1.7	1.7	1.7	1.7	9.7	5.4	4.3	3.5	2.4	2.2
23	3.3	2.2	1.7	1.8	1.8	1.7	9.7	5.4	4.3	3.4	2.3	2.1
24	3.2	2.3	1.7	1.8	1.8	1.7	9.7	5.8	4.7	3.4	2.5	2.0
25	3.2	2.3	1.7	1.8	1.8	1.7	10	6.0	4.8	3.5	2.4	2.0
26	3.2	1.8	1.7	1.5	1.8	1.8	10	6.8	4.8	3.2	2.4	2.0
27	3.3	1.9	1.7	1.6	1.8	1.8	9.1	7.2	4.6	3.5	2.4	2.0
28	3.2	2.0	1.7	1.7	1.8	1.8	8.6	8.1	4.6	3.3	2.3	2.0
29	3.2	2.0	1.7	1.8	---	2.0	8.1	8.1	4.4	3.3	2.3	2.0
30	3.2	2.0	1.8	1.8	---	2.5	7.6	7.2	4.5	3.3	2.4	2.0
31	3.2	---	1.9	1.8	---	2.3	---	6.7	---	3.1	2.3	---
TOTAL	109.7	80.4	51.5	53.3	45.0	57.0	252.7	185.5	151.5	128.4	84.7	108.2
MEAN	3.54	2.68	1.66	1.72	1.61	1.84	8.42	5.98	5.05	4.14	2.73	3.61
MAX	4.1	3.7	2.0	1.9	1.8	2.5	15	8.1	6.7	6.0	3.8	35
MIN	3.2	1.8	1.1	1.4	1.2	1.7	2.4	4.6	4.3	3.1	2.3	2.0
AC-FT	218	159	102	106	89	113	501	368	301	255	168	215

CAL YR 1980 TOTAL 5227.9 MEAN 14.3 MAX 125 MIN 1.1 AC-FT 10370
WTR YR 1981 TOTAL 1307.9 MEAN 3.58 MAX 35 MIN 1.1 AC-FT 2590

10224000 SEVIER RIVER NEAR LYNNDYL, UTAH

LOCATION.--Lat 39°28'55", long 112°23'35", in NW¼NE¼SE¼ sec.27, T.15 S., R.5 W., Millard County, Hydrologic Unit 16030005, on right bank 1.6 mi (2.6 km) downstream from highway bridge and 3.5 mi (5.6 km) southwest of Lynndyl.

DRAINAGE AREA.--5,966 mi^2 (16,240 km^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 (1,420 m) by barometer.

REMARKS.--Records good. Flow regulated by Sevier Bridge Reservoir about 35 mi (56 km) upstream (see station 10218500). Several diversions for irrigation between reservoir and station.

AVERAGE DISCHARGE.--44 years, 187 ft^3/s (5.296 m^3/s), 135,500 acre-ft/yr (167 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,980 ft^3/s (84.4 m^3/s) Feb. 10, 1962, gage height, 11.73 ft (3.575 m); minimum discharge, 2.4 ft^3/s (0.07 m^3/s) Jan. 26, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 967 ft^3/s (27.4 m^3/s) June 30, gage height, 7.32 ft (2.231 m); minimum discharge, 5.2 ft^3/s (0.15 m^3/s) Dec. 9, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	55	13	234	18	323	253	416	180	922	402	314
2	33	55	13	242	23	300	176	528	180	700	441	134
3	30	55	12	243	27	237	123	565	179	646	444	101
4	29	54	13	247	26	203	91	652	166	631	463	87
5	26	54	12	257	25	162	59	688	156	530	564	71
6	23	54	12	261	25	133	51	691	158	455	596	59
7	38	55	11	275	25	128	54	673	298	442	597	52
8	44	54	12	283	52	131	143	682	382	436	597	56
9	44	54	12	288	187	144	160	694	370	438	570	58
10	37	53	15	281	259	134	164	685	360	448	461	70
11	29	54	14	286	262	130	164	682	268	442	447	85
12	28	56	14	290	217	133	160	658	254	450	436	89
13	31	61	49	292	270	140	161	649	244	470	409	83
14	29	60	210	297	322	155	152	643	236	472	305	60
15	38	57	222	299	337	167	147	646	241	478	283	53
16	49	56	189	271	349	160	148	661	252	485	280	49
17	63	54	175	143	363	179	114	498	372	495	216	47
18	61	54	162	126	361	196	108	430	412	515	175	47
19	59	54	143	121	354	219	146	384	512	412	120	48
20	58	53	174	120	333	287	368	288	664	332	105	56
21	57	53	182	122	323	304	308	214	722	316	91	52
22	56	53	177	125	321	302	298	143	761	206	68	51
23	55	53	178	125	320	299	296	137	801	153	59	50
24	55	55	186	68	304	290	292	137	863	156	177	44
25	55	51	189	32	284	275	292	132	886	148	297	41
26	56	35	195	27	270	249	322	138	904	141	321	39
27	58	37	197	23	268	258	462	149	946	136	426	39
28	57	21	205	19	337	279	460	150	953	132	494	41
29	56	15	212	18	---	278	450	174	960	130	593	39
30	56	14	216	20	---	288	418	190	956	126	562	38
31	55	---	225	21	---	274	---	185	---	208	398	---
TOTAL	1403	1489	3639	5456	6262	6757	6540	13562	14636	12051	11397	2053
MEAN	45.3	49.6	117	176	224	218	218	437	488	389	368	68.4
MAX	63	61	225	299	363	323	462	694	960	922	597	314
MIN	23	14	11	18	18	128	51	132	156	126	59	38
AC-FT	2780	2950	7220	10820	12420	13400	12970	26900	29030	23900	22610	4070

CAL YR 1980 TOTAL 82867.0 MEAN 226 MAX 992 MIN 4.5 AC-FT 164400
WTR YR 1981 TOTAL 85245.0 MEAN 234 MAX 960 MIN 11 AC-FT 169100

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, current year, continuous.
WATER TEMPERATURES: March 1951 to September 1980, once-daily, current year, continuous.

INSTRUMENTATION.--Conductance and water temperature recorder since October 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: 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.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 4,580 micromhos Dec. 10, 12; minimum, 1,460 micromhos Dec. 14.
WATER TEMPERATURES: Maximum recorded, 33.0°C Aug. 23; minimum recorded, 0.0°C several days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	NITRO-GEN DIS-SOLVED (MG/L AS N)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT 15...	1100	35	2490	8.2	3.0	6.5	.60	9.8	.85	--
NOV 14...	1000	62	1860	8.1	.0	4.0	1.5	10.2	1.1	11
DEC 10...	1330	20	4300	8.2	3.0	.5	1.3	11.9	1.5	--
JAN 22...	1100	124	1790	8.5	-1.0	2.0	2.5	11.4	1.2	K160
FEB 19...	1100	332	1620	8.5	12.5	6.0	34	10.1	.60	K38
MAR 18...	1200	189	1700	8.6	8.5	7.0	22	10.2	1.3	K3
APR 15...	1000	141	1800	8.4	14.0	13.5	22	8.0	1.8	45
MAY 20...	1030	289	1810	8.3	11.0	13.0	42	7.8	1.3	K38
JUN 26...	1040	843	1730	8.2	31.0	20.5	56	6.9	1.2	480
JUL 23...	0930	143	2130	8.0	25.5	21.0	45	6.4	.91	140
AUG 27...	1200	422	1930	8.2	27.5	22.0	70	6.8	.88	1300
SEP 30...	1130	38	2500	8.3	19.5	13.5	14	8.7	.60	K38

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L 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 15...	--	610	340	--	84	96	320	53	5.7	7.4
NOV 14...	270	490	240	--	74	73	210	48	4.1	6.8
DEC 10...	49	940	570	--	130	150	590	57	8.4	14
JAN 22...	210	460	180	--	69	70	230	52	4.7	5.5
FEB 19...	K44	420	150	--	64	64	210	51	4.4	5.9
MAR 18...	K34	440	--	--	67	65	210	51	4.4	5.5
APR 15...	270	440	--	220	67	67	220	52	4.5	6.3
MAY 20...	260	450	--	170	65	69	230	52	4.7	6.4
JUN 26...	1200	410	--	150	60	64	220	53	4.7	7.4
JUL 23...	960	470	--	200	64	75	270	55	5.4	6.6
AUG 27...	1300	430	--	170	55	70	250	56	6.2	7.8
SEP 30...	190	600	--	320	79	98	310	53	5.5	7.8

K Results based on colony count outside the acceptable range (non-ideal colony count).

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, 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 CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT 15...	270	390	490	.4	14	1530	1560	2.1	145
NOV 14...	250	270	310	.5	14	1160	1110	1.6	195
DEC 10...	370	720	800	.5	23	2840	2650	3.9	153
JAN 22...	280	280	290	.4	11	1130	1130	1.5	378
FEB 19...	270	270	260	.3	13	1010	1050	1.4	905
MAR 18...	270	250	260	.3	14	1050	1040	1.4	536
APR 15...	220	270	280	.4	13	1110	1060	1.5	423
MAY 20...	280	270	270	.3	13	1120	1090	1.5	874
JUN 26...	260	270	260	.4	16	1070	1060	1.5	2440
JUL 23...	270	320	330	.3	15	1250	1240	1.7	483
AUG 27...	260	280	290	.4	17	1170	1130	1.6	1330
SEP 30...	280	400	440	.5	15	1510	1520	2.1	155

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DIS-SOLVED (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)
OCT 15...	.030	.050	.04	.06	.87	.66	.90	.19	.71
NOV 14...	.050	.050	.06	.06	.63	.63	.68	.00	.68
DEC 10...	.200	.070	.24	.09	.80	.63	1.00	.30	.70
JAN 22...	.130	.090	.16	.12	.71	.79	.84	.00	.88
FEB 19...	.000	.030	--	.04	.80	.17	.80	.60	.20
MAR 18...	.070	.040	--	.05	.88	.88	.95	.03	.92
APR 15...	.090	.110	--	.14	1.4	1.4	1.50	.00	1.5
MAY 20...	.130	.110	--	.14	1.7	.88	1.80	.81	.99
JUN 26...	.380	.150	--	.19	.72	.81	1.10	.14	.96
JUL 23...	.100	.130	--	.17	.80	.59	.90	.18	.72
AUG 27...	.150	.170	--	.22	.77	.52	.92	.23	.69
SEP 30...	.150	.140	--	.18	.25	.31	.40	.00	.45

DATE	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DIS-SOLVED (MG/L AS P)	POTASSIUM 40 DIS-SOLVED (PCI/L AS K40)
OCT 15...	1.1	.15	.14	4.6	.030	.09	.010	--
NOV 14...	1.1	.42	.44	4.9	.030	.09	.040	--
DEC 10...	1.8	.81	.82	8.0	.020	.06	.020	--
JAN 22...	1.2	.38	.36	5.4	.050	.15	.020	--
FEB 19...	1.2	.39	.40	5.3	.050	.15	.000	4.4
MAR 18...	1.3	.35	.36	5.8	.060	.18	.010	4.1
APR 15...	1.8	.31	.30	8.0	.070	.21	.060	4.7
MAY 20...	2.1	.32	.35	9.4	.120	.37	.020	4.8
JUN 26...	1.6	.49	.26	7.0	.100	.31	.030	5.5
JUL 23...	1.1	.15	.19	4.6	.080	.25	.030	4.9
AUG 27...	1.1	.19	.19	4.9	.160	.49	.010	--
SEP 30...	.56	.16	.15	2.5	<.010	--	.010	--

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	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, SUS-PENDED RECOV. (UG/L AS CR)
NOV 14...	1000	5	0	6	200	100	90	0	<1	20	20
FEB 19...	1100	7	0	9	100	10	90	0	<1	20	20
MAY 20...	1030	8	0	9	100	10	90	0	<1	10	10
AUG 27...	1200	10	0	10	200	100	90	0	<1	10	10

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	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)
NOV 14...	0	1	<3	5	3	2	170	--	<10	3
FEB 19...	0	2	<3	16	13	3	1000	980	20	46
MAY 20...	0	2	<3	10	8	2	1600	--	<10	5
AUG 27...	0	1	<3	11	8	3	2700	--	<10	17

DATE	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	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)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)
NOV 14...	1	2	30	20	10	.7	.7	.0	7	4
FEB 19...	46	0	40	40	3	.6	.4	.2	18	14
MAY 20...	0	6	70	70	3	2.0	1.7	.3	3	0
AUG 27...	10	7	110	110	3	.1	.1	.0	7	4

DATE	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)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV 14...	3	0	0	0	0	0	0	30	30	4
FEB 19...	4	0	0	0	1	1	0	10	3	7
MAY 20...	3	1	1	0	1	1	0	10	0	10
AUG 27...	3	1	0	1	0	0	0	30	20	7

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
OCT 15...	1100	12	--	--
NOV 14...	1000	--	18	.3
DEC 10...	1330	11	--	--
FEB 19...	1100	--	5.9	1.0
MAR 18...	1200	11	--	--
APR 15...	1000	17	--	--
MAY 20...	1030	--	5.6	1.1
JUN 26...	1040	18	--	--
JUL 23...	0930	4.8	--	--
AUG 27...	1200	--	5.2	.4
SEP 30...	1130	3.7	--	--

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	NOV 14,80		MAR 18,81		MAY 20,81		JUN 26,81	
TIME	0945		1400		1100		1040	
TOTAL CELLS/ML	790		1000		660		2200	
DIVERSITY: DIVISION	0.2		1.5		0.0		1.1	
.CLASS	0.2		1.5		0.0		1.1	
..ORDER	0.4		2.0		0.1		1.6	
...FAMILY	2.5		3.2		2.0		2.1	
....GENUS	2.7		3.3		2.4		2.1	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHLOROCOCCACEAE								
....SCHROEDERIA	--	-	26	2	--	-	--	-
...DICTYOSPHAERIACEAE								
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	90	9	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	210	9
....SELENASTRUM	--	-	13	1	--	-	--	-
...SCENEDESMACEAE								
....COELASTRUM	--	-	--	-	--	-	--	-
....GLOEOACTINIUM	--	-	--	-	--	-	--	-
....TETRASTRUM	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	27	3	140	14	--	-	26	1
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	27	3	39	4	13	2	270	12
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	190a	24	--	-	13	2	52	2
....COCCONEIS	--	-	--	-	--	-	--	-
...CYMBELLACEAE								
....AMPHORA	--	-	--	-	--	-	13	1
....CYMBELLA	160a	21	100	10	170a	25	13	1
...DIATOMACEAE								
....DIATOMA	14	2	13	1	13	2	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	230a	22	90	14	--	-
....FRAGILARIA	--	-	--	-	210a	31	--	-
....SYNEDRA	14	2	13	1	--	-	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	14	2	--	-	--	-	13	1
...NAVICULACEAE								
....ENTOMONEIS	41	5	--	-	--	-	--	-
....NAVICULA	220a	28	160	15	120a	18	77	4
...NITZSCHIACEAE								
....NITZSCHIA	82	10	78	7	39	6	1200a	53
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	13	1	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	39	4	--	-	370a	17
..OSCILLATORIALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....TRACHELOMONAS	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..DINOKONTAE								
...GLENODINIACEAE								
....GLENODINIUM	--	-	90	9	--	-	--	-

See footnote at end of table.

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	JUL 23,81		AUG 27,81		SEP 30,81	
TIME	1030		1200		1130	
TOTAL CELLS/ML	490		2700		890	
DIVERSITY: DIVISION	1.4		1.2		1.2	
.CLASS	1.4		1.2		1.2	
..ORDER	1.6		1.4		1.8	
...FAMILY	2.1		3.0		2.6	
....GENUS	2.1		3.3		2.7	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...CHLOROCOCCACEAE						
....SCHROEDERIA	64	13	460a	17	--	-
...DICTYOSPHAERIACEAE						
....DICTYOSPHAERIUM	52	11	--	-	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	--	-	--	-	29	3
....OOCYSTIS	26	5	120	4	58	6
....SELENASTRUM	--	-	--	-	--	-
...SCENEDESMACEAE						
....COELASTRUM	--	-	660a	24	--	-
....GLOEOACTINIUM	--	-	58	2	--	-
....TETRASTRUM	--	-	120	4	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	13	3	--	-	43	5
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	13	3	86	3	130	15
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	--	-
....COCCONEIS	--	-	86	3	--	-
...CYMBELLACEAE						
....AMPHORA	--	-	--	-	--	-
....CYMBELLA	--	-	43	2	14	2
...DIATOMACEAE						
....DIATOMA	--	-	58	2	--	-
...FRAGILARIACEAE						
....ASTERIONELLA	--	-	140	5	--	-
....FRAGILARIA	--	-	--	-	29	3
....SYNEDRA	--	-	--	-	--	-
...GOMPHONEMATACEAE						
....GOMPHONEMA	--	-	72	3	--	-
...NAVICULACEAE						
....ENTOMONEIS	--	-	--	-	--	-
....NAVICULA	39	8	360	13	170a	19
...NITZSCHIACEAE						
....NITZSCHIA	13	3	320	12	290a	32
CRYPTOPHYTA (CRYPTOMONADS)						
.CRYPTOPHYCEAE						
..CRYPTOMONADALES						
...CRYPTOMONADACEAE						
....CRYPTOMONAS	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	270a	55	--	-	--	-
..OSCILLATORIALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	--	-	--	-	130	15
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....TRACHELOMONAS	--	-	130	5	--	-
PYRRHOPHYTA (FIRE ALGAE)						
.DINOPHYCEAE						
..DINOKONTAE						
...GLENODINIACEAE						
....GLENODINIUM	--	-	--	-	--	-

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organism, may or may not have been counted: Less than 1/2 percent.

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	2220	2080	2170	2060	2000	2040	3980	3750	3920	1770	1750	1760
2	2380	2220	2320	2050	2020	2030	3950	3890	3920	1760	1740	1760
3	2630	2390	2550	2030	2000	2020	3990	3950	3970	1760	1750	1760
4	2680	2600	2650	2030	2000	2010	4200	4020	4080	1760	1750	1750
5	2700	2640	2670	2020	1990	2010	4200	4020	4120	1760	1740	1750
6	2900	2640	2800	2030	2000	2010	4110	4070	4090	1760	1750	1750
7	2950	2220	2670	2030	2000	2010	4090	4020	4070	1760	1740	1750
8	2210	2060	2140	2010	1970	1990	4270	4080	4220	1760	1740	1750
9	2140	2070	2100	1980	1940	1970	4470	4240	4320	1760	1740	1750
10	2140	2050	2090	1980	1940	1960	4580	4310	4410	1760	1750	1760
11	2460	2090	2330	1980	1940	1960	4540	4270	4420	1760	1740	1750
12	2490	2440	2470	2000	1930	1970	4580	4290	4410	1760	1740	1750
13	2500	2360	2450	1990	1860	1910	4530	2020	3810	1760	1750	1750
14	2480	2310	2380	1890	1850	1870	1910	1460	1630	1760	1740	1750
15	2480	2240	2420	1920	1880	1890	1890	1700	1790	1760	1750	1750
16	2500	1980	2310	1960	1920	1940	1900	1770	1840	1800	1750	1760
17	2020	1850	1920	2190	1970	2120	1840	1790	1810	1910	1810	1880
18	1860	1830	1850	2210	2080	2140	1850	1800	1820	1930	1850	1900
19	2260	1870	2070	2200	2030	2100	1870	1820	1850	1860	1830	1850
20	2250	2140	2190	2170	1990	2080	1830	1700	1730	1860	1820	1840
21	2190	2140	2160	2060	2030	2050	1800	1710	1770	1840	1800	1820
22	2190	2130	2160	2070	2010	2030	1800	1780	1790	1870	1780	1800
23	2150	2100	2120	2030	2000	2020	1790	1770	1780	1820	1780	1800
24	2120	2090	2110	2000	1980	1990	1780	1760	1770	2260	1830	2010
25	2110	2080	2100	2010	1950	1970	1780	1760	1770	2980	2310	2650
26	2100	2060	2080	2480	2050	2350	1780	1750	1770	3340	3020	3220
27	2080	1980	2030	2550	2370	2490	1780	1760	1770	3590	3300	3440
28	1990	1970	1990	2920	2250	2440	1780	1750	1770	3740	3620	3680
29	2000	1970	1990	3700	3000	3480	1770	1740	1760	3900	3690	3780
30	2020	1990	2010	3940	3720	3850	1780	1750	1770	3810	3690	3740
31	2040	2010	2020	---	---	---	1770	1740	1760	3840	3020	3660
MONTH	2950	1830	2240	3940	1850	2160	4580	1460	2760	3900	1740	2170

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3890	3720	3790	1690	1660	1680	1800	1730	1770			1720
2	4040	2680	3770	1700	1670	1680	1860	1800	1830			1730
3	2970	2550	2750	1720	1690	1710	2040	1820	1940			1680
4	2960	2480	2720	1750	1710	1730	2210	2020	2080			1720
5	3030	2430	2760	1790	1760	1770	2530	2220	2370			1680
6	2960	2600	2800	1840	1790	1820	2710	2540	2620			1710
7	2880	2650	2780	1830	1800	1820	2720	2570	2620			1680
8	3450	2190	2750	1810	1740	1770	2560	1810	2040			1710
9	2040	1610	1710	1790	1700	1740	1860	1810	1830			1670
10	1770	1670	1720	1780	1740	1750	1840	1790	1810			1690
11	1690	1680	1680	1790	1760	1780	1830	1790	1820			1710
12	1710	1690	1700	1800	1760	1780	1840	1800	1820			1710
13	1710	1670	1690	1780	1740	1760	1830	1780	1810			1720
14	1690	1650	1670	1760	1710	1740	1820	1790	1800			1710
15	1680	1640	1660	1720	1680	1700	1830	1800	1810			1690
16	1660	1630	1640	1750	1710	1720	1820	1780	1800			1760
17	1650	1620	1630	1780	1700	1730	1930	1790	1880			1710
18	1650	1630	1640	1760	1690	1710	1910	1870	1890			1730
19	1660	1610	1640	1780	1690	1740	1890	1690	1810			1780
20	1660	1640	1650	1700	1670	1690	1690	1550	1610			1790
21	1660	1640	1650	1690	1660	1670	1720	1680	1690			1900
22	1660	1620	1640	1690	1660	1680	1740	1710	1720			2120
23	1650	1630	1640	1710	1680	1700	1740	1710	1730			2010
24	1660	1630	1640	1710	1680	1690	1750	1710	1730			1980
25	1660	1630	1650	1720	1690	1700	1740	1710	1730			1980
26	1660	1630	1650	1740	1710	1720	1730	1680	1710			1920
27	1680	1620	1700	1720	1690	1700	1720	1680	1700			1860
28	1670	1640	1650	1690	1670	1680	1710	1660	1680			---
29	---	---	---	1730	1690	1710	1710	1670	1690			1830
30	---	---	---	1720	1670	1700	1710	1670	1690			1810
31	---	---	---	1760	1690	1710	---	---	---			1810
MONTH	4040	1610	2050	1840	1660	1730	2720	1550	1870			1780

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	1810	1760	1730	1750	1900	1840	1870	2090	1980	2010
2	---	---	1810	1760	1730	1740	1920	1800	1870	2290	2100	2200
3	---	---	1760	1760	1720	1740	1920	1870	1900	2410	2290	2340
4	---	---	---	1780	1720	1750	1920	1860	1900	2400	2310	2380
5	---	---	1810	1810	1730	1770	1930	1890	1910	2430	2310	2360
6	---	---	1760	1810	1770	1790	1920	1880	1900	2730	2490	2630
7	---	---	1600	1810	1760	1790	1930	1860	1900	2780	2630	2710
8	---	---	1700	1830	1750	1790	1930	1870	1900	2780	2590	2670
9	---	---	1680	1820	1760	1790	1950	1890	1920	2660	2430	2540
10	---	---	1710	1820	1740	1790	1960	1880	1920	2430	2170	2330
11	---	---	1730	1820	1760	1800	1910	1870	1890	2170	2070	2110
12	---	---	1710	1820	1770	1790	1930	1850	1890	2200	2060	2130
13	---	---	1760	1820	1760	1790	1980	1880	1920	2210	2140	2170
14	---	---	1760	1820	1770	1800	1990	1950	1970	2470	2210	2350
15	---	---	---	1830	1770	1800	1980	1920	1950	2590	2440	2500
16	---	---	1780	1830	1780	1800	2010	1900	1960	2700	2560	2620
17	---	---	1740	1850	1780	1810	2060	1950	2000	2780	2660	2700
18	---	---	1700	1870	1760	1820	2040	1980	2010	2740	2650	2710
19	---	---	1690	1920	1820	1860	2230	2020	2140	2640	2460	2530
20	---	---	1700	1890	1830	1870	2240	2150	2190	2440	2050	2320
21	---	---	1760	1930	1810	1870	2260	2170	2220	2240	2040	2180
22	---	---	1760	2060	1930	1990	2550	2180	2320	2250	2160	2220
23	---	---	1750	2080	2020	2050	2590	2480	2540	2250	2190	2220
24	---	---	1720	2040	1940	1980	2570	1670	2050	2420	2240	2290
25	1750	1720	1740	2010	1960	1980	1970	1780	1890	2500	2430	2470
26	1760	1720	1740	2020	1960	1990	1980	1920	1960	2560	2480	2530
27	1750	1730	1750	2010	1970	1990	1960	1910	1930	2590	2510	2550
28	1750	1710	1730	2010	1990	2000	1950	1910	1940	2550	2430	2500
29	1760	1710	1740	2020	1970	2000	1970	1920	1940	2480	2400	2440
30	1760	1710	1730	2040	2010	2030	2020	1950	1980	2530	2480	2510
31	---	---	---	2030	1830	1910	2010	1970	2000	---	---	---
MONTH	---	---	1740	2080	1720	1860	2590	1670	1990	2780	1980	2410

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	22.0	13.0	17.0	11.5	6.0	8.5	6.0	.5	2.5	3.5	1.5	2.5
2	21.5	13.0	17.0	12.0	6.5	9.0	5.0	1.5	3.0	5.0	2.5	3.5
3	21.0	12.0	16.5	11.5	6.5	8.5	5.0	3.5	4.5	4.5	3.0	3.5
4	21.0	12.0	16.5	12.5	6.5	9.0	7.0	3.0	4.5	4.0	4.0	4.0
5	21.0	12.5	16.5	13.0	7.0	9.5	5.0	3.5	4.5	4.0	3.0	3.5
6	21.0	12.0	16.0	13.0	7.5	10.0	6.0	3.5	4.5	3.5	2.5	3.0
7	20.5	12.5	16.5	12.5	8.0	10.0	4.5	1.0	2.5	2.5	1.5	2.0
8	20.0	12.0	16.0	12.5	7.0	9.5	1.5	.0	.5	2.5	2.0	2.0
9	19.5	11.5	15.5	12.0	7.0	9.0	1.0	.0	.0	2.5	2.0	2.0
10	19.5	11.5	15.5	11.5	6.0	8.5	.5	.0	.0	2.0	2.0	2.0
11	18.0	11.5	14.5	10.0	8.5	9.0	1.0	.0	.0	2.5	2.0	2.0
12	14.0	11.5	12.5	9.0	7.0	8.5	.5	.0	.0	2.5	1.5	2.0
13	15.5	10.0	12.5	7.5	5.5	6.5	.5	.0	.0	1.5	1.0	1.5
14	14.5	10.0	12.0	7.5	2.5	5.5	.0	.0	.0	2.0	1.5	1.5
15	10.5	6.5	8.5	6.5	2.0	4.0	.0	.0	.0	2.0	1.5	1.5
16	10.0	6.5	8.0	5.0	1.0	2.5	.0	.0	.0	2.0	1.5	1.5
17	11.5	7.0	9.0	4.0	.0	2.0	.0	.0	.0	4.0	1.0	2.5
18	13.5	7.5	10.0	4.5	.0	2.0	.0	.0	.0	4.0	1.0	2.5
19	14.5	8.5	11.0	4.5	.0	2.0	2.5	.0	1.0	3.0	1.5	2.5
20	14.5	8.5	11.0	5.0	.5	2.0	3.5	.5	2.0	3.5	1.5	2.5
21	14.5	8.5	11.0	4.5	.0	2.0	4.5	1.5	3.0	3.5	1.5	2.5
22	14.0	9.0	11.0	5.0	2.0	3.5	6.0	3.5	5.0	4.5	1.5	3.0
23	12.0	6.5	9.0	5.0	2.0	3.5	6.0	3.5	4.5	3.0	1.5	2.5
24	11.5	5.0	8.0	4.0	2.0	3.0	4.5	2.5	3.5	4.5	1.0	2.5
25	11.0	5.5	8.0	3.5	.0	1.5	5.5	3.5	4.5	5.0	.5	2.5
26	8.0	6.0	7.5	4.0	.0	2.0	5.5	3.0	4.0	2.0	.0	1.0
27	7.5	4.5	6.0	3.0	.0	1.5	5.5	3.0	4.0	2.0	.0	1.0
28	9.0	3.0	6.0	4.0	.0	1.5	5.0	3.0	4.0	3.0	.5	2.0
29	9.5	3.5	6.5	3.0	.5	2.0	4.5	2.5	3.5	4.5	.5	2.5
30	10.5	4.5	7.0	4.0	2.5	3.0	4.0	2.0	3.0	3.5	.0	1.5
31	11.5	6.0	8.5	---	---	---	4.0	1.5	2.5	.5	.0	.0
MONTH	22.0	3.0	11.5	13.0	.0	5.5	7.0	.0	2.5	5.0	.0	2.0

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.0	.0	.5	8.5	6.5	7.0	9.0	7.5	8.5			18.0
2	2.0	.0	.5	7.0	5.5	6.5	12.5	7.0	9.5			15.0
3	6.5	.0	3.0	6.5	5.0	5.5	11.0	6.5	9.0			14.0
4	6.5	.0	3.5	9.0	4.0	6.5	12.0	2.5	7.5			14.0
5	7.0	.0	4.0	9.0	6.0	7.0	16.0	.5	8.5			14.0
6	9.0	2.5	5.5	8.5	5.5	6.5	20.0	3.5	12.0			14.0
7	8.5	1.5	5.0	10.0	5.5	7.5	17.0	6.0	10.5			14.0
8	5.5	2.0	4.0	10.0	5.0	7.5	16.5	4.5	12.5			14.0
9	4.5	1.5	3.0	10.0	5.5	7.5	16.5	10.5	13.5			14.0
10	4.0	2.0	3.0	10.5	5.5	8.0	16.5	10.5	13.5			15.5
11	2.5	1.5	2.0	10.0	6.0	8.0	17.0	12.0	14.0			15.5
12	4.5	1.0	2.5	11.5	6.0	8.5	16.5	11.0	14.0			16.0
13	5.5	2.5	4.0	10.0	6.5	8.5	18.0	11.0	14.0			16.5
14	6.5	4.5	5.5	10.0	7.0	8.5	19.0	11.5	15.0			15.0
15	6.5	5.0	5.5	12.5	7.0	9.5	19.0	13.5	15.5			13.0
16	7.0	4.5	5.5	10.5	7.5	9.0	19.0	13.0	16.0			15.0
17	7.5	5.5	6.5	10.0	5.5	7.5	19.5	13.0	16.5			15.5
18	8.0	5.5	6.5	9.0	4.5	7.0	16.5	14.0	15.5			14.5
19	7.0	6.0	6.5	7.5	6.0	7.0	14.0	10.5	12.0			14.5
20	7.0	5.0	6.0	7.5	6.5	7.0	14.0	10.5	12.0			15.0
21	6.0	4.0	5.0	9.0	4.0	6.5	13.5	11.0	12.5			16.5
22	6.0	3.5	4.5	10.5	7.0	8.5	16.0	11.0	13.5			19.0
23	7.0	4.0	5.5	12.0	8.5	10.0	17.0	12.5	15.0			21.0
24	7.5	5.0	6.0	13.0	9.0	11.0	18.5	14.5	16.0			21.0
25	8.0	5.5	6.5	10.5	9.0	10.0	18.5	15.0	16.5			21.0
26	7.5	6.0	6.5	9.0	7.5	8.5	16.0	14.5	15.0			18.0
27	8.5	5.5	6.5	9.0	6.0	7.5	16.0	14.0	14.5			19.5
28	8.0	5.5	7.0	8.5	7.0	7.5	15.5	13.5	14.5			---
29	---	---	---	11.5	7.0	9.0	17.0	13.5	15.0			22.0
30	---	---	---	10.0	8.0	9.0	18.0	15.0	16.5			22.0
31	---	---	---	10.5	6.5	8.5	---	---	---			22.0
MONTH	9.0	.0	4.5	13.0	4.0	8.0	20.0	.5	13.5			16.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	23.0	20.0	19.5	19.5	23.5	20.5	22.0	22.0	18.5	20.0
2	---	---	20.0	21.0	19.0	19.5	23.5	20.5	22.0	23.5	17.5	20.5
3	---	---	20.0	21.5	19.0	20.0	23.0	20.5	21.5	24.0	18.0	21.0
4	---	---	---	22.0	19.5	21.0	22.5	20.0	21.5	23.5	18.0	20.5
5	---	---	23.0	22.5	20.0	21.5	22.0	20.5	21.5	23.5	13.5	17.0
6	---	---	24.0	22.5	21.0	22.0	22.5	20.5	21.5	23.5	13.0	17.0
7	---	---	23.0	23.0	20.0	21.0	23.0	20.5	21.5	27.5	11.5	18.0
8	---	---	22.0	22.5	19.5	21.0	23.0	21.0	22.0	26.0	15.0	19.0
9	---	---	23.0	22.5	20.5	21.5	23.0	21.0	22.0	20.0	13.5	16.5
10	---	---	23.0	22.5	19.5	21.0	22.5	20.5	21.5	23.5	14.0	18.5
11	---	---	22.0	22.5	20.0	21.0	20.5	19.0	20.0	24.0	17.5	20.5
12	---	---	20.0	22.0	20.5	21.0	21.0	18.5	19.5	25.0	18.5	21.0
13	---	---	20.0	22.5	20.0	21.0	21.5	19.5	20.5	24.0	17.0	20.0
14	---	---	17.0	23.5	21.0	22.0	23.5	19.5	21.0	29.0	13.5	20.5
15	---	---	---	23.0	20.5	22.0	24.0	20.0	21.5	30.0	12.0	21.0
16	---	---	20.0	23.5	20.5	22.0	24.0	20.5	22.0	31.5	13.0	22.5
17	---	---	20.0	23.0	20.0	21.5	25.0	19.0	22.0	32.0	14.5	22.0
18	---	---	20.0	23.0	21.0	22.0	24.0	19.5	21.5	31.5	13.0	22.0
19	---	---	20.0	24.5	20.5	22.5	24.5	18.0	21.5	30.5	13.0	22.0
20	---	---	20.0	23.5	20.5	22.0	25.0	19.5	22.0	27.0	12.0	20.0
21	---	---	21.0	24.0	20.0	22.0	24.0	20.5	22.0	29.0	14.0	21.5
22	---	---	21.0	26.0	20.0	23.0	31.0	16.0	23.5	28.5	12.0	21.0
23	---	---	21.0	26.0	20.5	23.0	33.0	17.5	24.5	27.0	10.5	20.0
24	---	---	21.0	25.0	19.5	22.0	24.0	19.0	21.5	26.0	17.5	20.5
25	21.5	20.5	21.0	25.0	19.5	22.0	24.0	20.5	22.0	23.5	10.5	17.5
26	21.5	20.5	21.0	24.5	18.0	21.0	24.5	21.0	22.5	24.5	7.5	15.5
27	20.5	19.0	20.0	26.0	18.5	22.0	24.0	21.5	22.5	29.5	9.5	19.0
28	21.0	18.5	19.5	26.0	19.5	22.5	23.0	21.5	22.0	27.0	10.5	19.5
29	21.5	19.5	20.5	25.0	19.5	22.0	22.5	20.5	21.5	24.5	12.5	18.5
30	21.0	19.5	20.0	24.5	19.0	21.5	21.5	20.0	21.0	21.5	7.5	14.5
31	---	---	---	24.5	19.0	21.5	22.0	19.0	20.5	---	---	---
MONTH	---	---	21.0	26.0	18.0	21.5	33.0	16.0	21.5	32.0	7.5	19.5

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT						
15...	1100	35	6.5	10	42	.94
NOV						
14...	1000	62	4.0	20	40	3.4
DEC						
10...	1330	20	.5	22	25	1.2
JAN						
22...	1100	124	2.0	46	92	15
FEB						
19...	1100	332	6.0	110	70	99
MAR						
18...	1200	189	7.0	92	80	47
APR						
15...	1000	141	13.5	272	77	104
MAY						
20...	1030	289	13.0	304	93	237
JUN						
26...	1040	843	20.5	880	58	2000
JUL						
23...	0930	143	21.0	281	98	108
AUG						
27...	1200	422	22.0	462	82	526
SEP						
30...	1130	38	13.5	96	92	9.8

10224100 OAK CREEK ABOVE LITTLE CREEK, NEAR OAK CITY, UTAH

LOCATION.--Lat 39°21'23", long 112°13'55", in NE¼NE¼NW¼ sec.7, T.17 S., R.3 W., Millard County, Hydrologic Unit 16030005, Fish Lake National Forest, on right bank 0.3 mi (0.5 km) upstream from a 12-inch (0.30-m) pipeline diversion at Walker's Fork and 5.7 mi (9.2 km) east of Oak City.

DRAINAGE AREA.--5.58 mi^2 (14.45 km^2).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,480 ft (1,975 m) from topographic map.

REMARKS.--Records good except for winter periods, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--17 years, 2.79 ft^3/s (0.079 m^3/s), 2,020 acre-ft/yr (2.49 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 120 ft^3/s (3.40 m^3/s) Apr. 29, 1973, gage height, 2.21 ft (0.674 m); minimum, 0.03 ft^3/s (0.001 m^3/s) Dec. 31, 1967, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 57 ft^3/s (1.614 m^3/s) May 28, gage height, 1.82 ft (0.555 m) and peak above base of 10 ft^3/s (0.28 m^3/s); minimum discharge, 0.13 ft^3/s (0.004 m^3/s) Aug. 25-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	.84	.89	.84	.80	.90	1.2	5.5	12	1.1	.40	.25
2	1.0	.84	.86	.84	.80	.91	1.3	5.1	10	1.0	.40	.25
3	1.0	.84	.90	.84	.79	.90	1.4	5.3	9.4	.96	.32	.25
4	.96	.84	.90	.85	.79	.89	1.4	4.8	8.3	.91	.32	.25
5	.96	.84	.92	.84	.79	.90	1.5	4.7	7.1	.85	.25	.36
6	.90	.84	.90	.84	.78	.90	1.6	4.6	6.0	.82	.25	.36
7	.90	.84	.90	.86	.74	.90	2.1	4.4	5.2	.78	.22	.36
8	.80	.84	.88	.86	.74	.91	2.2	4.2	4.9	.73	.22	.40
9	.77	.84	.86	.86	.74	.91	2.5	4.0	4.5	.76	.25	.40
10	.76	.84	.81	.86	.70	.93	3.3	3.8	4.0	.73	.36	.45
11	.72	.84	.77	.88	.72	.94	4.0	3.6	3.9	.70	.36	.36
12	.73	1.1	.73	.84	.70	.94	3.7	3.4	3.6	.66	.32	.32
13	.72	.90	.70	.82	.70	.96	3.7	3.0	3.4	.66	.32	.36
14	.79	.90	.66	.79	.70	.96	3.8	2.5	3.3	.62	.32	.32
15	.90	.84	.66	.77	.66	.96	4.1	2.9	3.1	.62	.32	.32
16	.79	.84	.66	.75	.66	.97	4.6	3.0	3.0	.62	.36	.32
17	.79	.82	.70	.76	.62	.96	4.9	2.8	2.9	.62	.28	.32
18	.79	.80	.76	.79	.49	.95	5.0	2.6	3.0	.53	.28	.32
19	.79	.80	.81	.79	.45	.98	6.2	2.5	2.8	.49	.28	.32
20	.79	.80	.87	.79	.49	.97	6.0	2.9	2.7	.45	.25	.28
21	.79	.80	.90	.80	.49	1.0	5.9	5.2	2.7	.45	.28	.28
22	.79	.80	.90	.80	.45	.94	6.0	5.0	2.7	.49	.22	.25
23	.79	.81	.85	.81	.45	.96	5.9	4.9	2.2	.45	.22	.28
24	.84	.86	.84	.84	.49	.96	5.9	5.3	1.7	.40	.22	.28
25	.84	.84	.86	.83	.62	.98	6.0	6.0	1.6	.36	.19	.28
26	.90	.80	.84	.80	.80	.97	6.0	7.6	1.5	.36	.19	.28
27	.84	.80	.84	.80	.86	1.2	5.8	10	1.4	.32	.19	.28
28	.84	.79	.84	.77	.88	1.0	5.9	15	1.3	.32	.28	.28
29	.84	.89	.84	.74	---	1.2	5.8	15	1.2	.40	.28	.28
30	.84	.90	.84	.78	---	1.3	5.7	13	1.1	.45	.28	.28
31	.84	---	.84	.84	---	1.5	---	12	---	.45	.25	---
TOTAL	26.01	25.33	25.53	25.28	18.90	30.65	123.4	174.6	120.5	19.06	8.68	9.34
MEAN	.84	.84	.82	.82	.68	.99	4.11	5.63	4.02	.61	.28	.31
MAX	1.0	1.1	.92	.88	.88	1.5	6.2	15	12	1.1	.40	.45
MIN	.72	.79	.66	.74	.45	.89	1.2	2.5	1.1	.32	.19	.25
AC-FT	52	50	51	50	37	61	245	346	239	38	17	19

CAL YR 1980 TOTAL 2392.75 MEAN 6.54 MAX 54 MIN .54 AC-FT 4750
WTR YR 1981 TOTAL 607.28 MEAN 1.66 MAX 15 MIN .19 AC-FT 1200

10224300 OAK CREEK BELOW BIG SPRING, NEAR OAK CITY, UTAH

LOCATION.--Lat 39°21'11", long 112°17'07", in NE¼NE¼SW¼, sec.10, T.17 S., R.4 W., Millard County, Hydrologic Unit 16030005, on right bank 0.5 mi (0.8 km) upstream from Fish Lake National Forest, 3.2 mi (5.15 km) east of Oak City along road to Forest Camp.

DRAINAGE AREA.--17.8 mi^2 (46.1 km^2).

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

GAGE.--Water-stage recorder, servo-manometer and concrete control. Altitude of gage is 5,640 ft (1,719 m) from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 101 ft^3/s (2.86 m^3/s) May 14, 1980, gage height, 1.43 ft (0.436 m); minimum daily, 1.8 ft^3/s (0.051 m^3/s) many days in Aug. and Sept. 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 20 ft^3/s (0.566 m^3/s), 33 ft^3/s (0.94 m^3/s) May 28, gage height, 1.04 ft (0.317 m); minimum daily, 1.8 ft^3/s (0.051 m^3/s) many days in Aug. and Sept.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	4.6	4.2	3.2	2.7	2.8	6.0	11	17	4.2	2.1	1.8
2	5.7	4.6	4.2	3.2	2.7	2.7	7.2	10	17	4.2	2.1	1.8
3	5.7	4.6	4.2	3.0	2.7	2.7	5.4	11	15	4.0	2.1	1.8
4	5.7	4.6	4.2	3.0	2.7	2.7	5.4	10	14	4.0	2.0	1.8
5	5.7	4.6	4.2	3.0	2.7	2.7	6.4	9.9	13	3.7	2.0	1.8
6	5.7	4.6	4.2	3.0	2.7	2.7	8.1	9.9	13	3.4	2.0	1.8
7	5.7	4.6	4.2	3.0	2.7	2.7	7.2	9.5	13	3.4	2.0	1.8
8	5.7	4.6	4.0	3.0	2.7	2.7	6.8	9.2	11	3.2	1.9	1.8
9	5.4	4.6	3.8	3.0	2.7	2.7	9.4	8.7	11	3.2	1.9	1.8
10	5.4	4.6	3.7	3.0	2.8	2.7	11	8.4	10	3.2	1.9	1.8
11	5.4	4.6	3.5	2.8	2.7	2.7	11	8.0	10	3.0	1.9	1.8
12	5.7	5.4	3.4	2.8	2.7	2.8	11	7.6	9.9	3.0	1.9	1.8
13	5.4	5.0	3.3	2.8	2.7	2.8	11	7.6	9.4	2.8	1.9	1.8
14	5.4	4.8	3.2	2.8	2.7	2.8	9.4	7.5	9.0	2.8	1.9	1.8
15	5.7	4.8	3.2	2.8	2.7	2.8	9.8	7.6	8.6	2.8	1.9	1.8
16	5.4	4.6	3.2	2.8	2.7	2.8	10	7.7	8.6	2.8	1.9	1.8
17	5.4	4.6	3.2	2.8	2.7	3.2	10	7.4	8.1	3.0	1.9	1.8
18	5.4	4.4	3.3	2.8	2.7	3.7	11	7.1	7.6	2.8	1.9	1.8
19	5.4	4.2	3.4	2.8	2.7	4.2	12	7.3	7.2	2.8	1.9	1.8
20	5.4	4.1	3.5	2.8	2.8	4.0	12	7.9	6.8	2.8	1.9	1.8
21	5.4	4.1	3.6	2.8	2.7	3.7	12	10	6.4	2.7	1.8	1.8
22	5.4	4.1	3.6	2.8	2.7	4.0	11	11	6.0	2.8	1.8	1.8
23	5.0	4.1	3.5	2.8	2.7	4.2	11	10	5.7	2.9	1.8	1.8
24	5.0	4.3	3.4	2.8	2.7	4.0	11	10	5.7	2.8	1.8	1.8
25	5.0	4.1	3.4	2.8	2.7	4.2	11	11	5.4	2.8	1.8	1.8
26	5.0	4.0	3.5	2.8	2.8	4.6	11	11	5.4	2.7	1.8	1.8
27	5.0	4.0	3.4	2.8	2.8	4.6	11	12	5.4	2.3	1.8	1.9
28	4.6	4.0	3.4	2.8	2.8	4.6	11	16	5.0	2.3	1.8	1.9
29	4.6	4.3	3.4	2.8	---	5.4	11	20	4.6	2.2	1.8	1.9
30	4.6	4.3	3.4	3.0	---	5.4	11	18	4.2	2.2	1.8	1.8
31	4.6	---	3.4	2.7	---	5.0	---	18	---	2.2	1.8	---
TOTAL	165.2	133.8	112.1	89.3	76.1	108.6	291.1	320.3	273.0	93.0	58.8	54.3
MEAN	5.33	4.46	3.62	2.88	2.72	3.50	9.70	10.3	9.10	3.00	1.90	1.81
MAX	5.7	5.4	4.2	3.2	2.8	5.4	12	20	17	4.2	2.1	1.9
MIN	4.6	4.0	3.2	2.7	2.7	2.7	5.4	7.1	4.2	2.2	1.8	1.8
AC-FT	328	265	222	177	151	215	577	635	541	184	117	108

CAL YR 1980 TOTAL 6149.4 MEAN 16.8 MAX 87 MIN 2.5 AC-FT 12200
WTR YR 1981 TOTAL 1775.6 MEAN 4.86 MAX 20 MIN 1.8 AC-FT 3520

10234500 BEAVER RIVER NEAR BEAVER, UTAH

LOCATION.--Lat 38°16'49", long 112°34'01", in SE¼SE¼SE¼ sec.18, T.29 S., R.6 W., Beaver County, Hydrologic Unit 16030007, on left bank 4.0 mi (6.4 km) east of Beaver.

DRAINAGE AREA.--91.0 mi^2 (236 km^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 (1,981 m) from topographic map. Prior to Mar. 30, 1914, nonrecording gage and Mar. 30, 1914 to Oct. 15, 1937, water-stage recorder, at site 1,000 ft (305 m) downstream at different datum. Oct. 16, 1937 to Mar. 20, 1959, at same site at different datum. Mar. 21, 1959 to Mar. 21, 1978 at site 2,000 ft (610 m) upstream at different datum.

REMARKS.--Records fair. 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.--67 years, 51.0 ft^3/s (1.44 m^3/s), 36,950 acre-ft/yr (45.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,080 ft^3/s (30.6 m^3/s) July 22, 1936, gage height, 7.27 ft (2,216 m) site and datum then in use, from rating curve extended above 500 ft^3/s (14.2 m^3/s); minimum, 1.8 ft^3/s (0.051 m^3/s) Dec. 6, 1976, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 150 ft^3/s (4.25 m^3/s), and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 25	2100	194	5.49	2.58	0.786
May 2	2130	*243	6.88	2.72	.829
May 27	2345	206	5.83	2.77	.844

Minimum discharge, 6.2 ft^3/s (0.176 m^3/s) Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	35	30	27	17	19	24	169	152	70	37	21
2	31	35	29	27	17	20	24	197	140	66	35	21
3	30	35	28	27	18	19	24	175	138	62	29	20
4	29	35	28	27	18	20	23	121	127	60	29	21
5	29	34	28	26	17	19	24	116	127	52	28	25
6	28	34	27	26	18	19	25	108	124	41	28	29
7	28	31	27	24	19	20	29	94	121	36	27	24
8	30	31	26	23	20	19	28	91	116	34	25	24
9	33	31	26	22	17	19	36	78	111	35	25	26
10	37	31	26	21	17	19	51	84	104	36	28	25
11	35	31	26	22	17	19	64	101	98	35	32	22
12	48	31	25	22	18	19	58	101	91	34	32	22
13	45	32	25	21	18	19	55	106	89	35	31	22
14	40	30	24	24	17	19	67	111	84	35	30	22
15	38	29	24	26	18	19	76	127	91	33	30	22
16	37	27	24	26	17	19	87	119	89	31	27	21
17	36	25	24	26	17	19	91	116	82	33	25	20
18	35	24	23	26	18	18	89	116	82	33	25	20
19	34	25	24	26	19	19	80	114	87	30	24	19
20	35	26	23	26	19	19	65	114	82	30	23	19
21	35	27	22	26	19	21	64	108	80	27	24	19
22	33	28	22	26	21	21	67	114	82	26	25	19
23	31	28	22	25	21	20	89	114	89	25	23	21
24	32	29	22	25	20	21	114	114	84	28	24	22
25	33	30	23	25	20	22	135	114	82	26	22	22
26	30	30	23	23	20	23	149	121	80	25	22	22
27	29	30	22	21	21	23	135	158	80	25	21	21
28	28	31	23	20	20	21	124	160	80	27	22	21
29	33	31	25	19	---	22	131	159	75	30	36	20
30	34	30	26	19	---	24	152	160	74	31	24	20
31	36	---	28	18	---	22	---	163	---	31	21	---
TOTAL	1043	906	775	742	518	622	2180	3843	2941	1122	834	652
MEAN	33.6	30.2	25.0	23.9	18.5	20.1	72.7	124	98.0	36.2	26.9	21.7
MAX	48	35	30	27	21	24	152	197	152	70	37	29
MIN	28	24	22	18	17	18	23	78	74	25	21	19
AC-FT	2070	1800	1540	1470	1030	1230	4320	7620	5830	2230	1650	1290

CAL YR 1980 TOTAL 35202 MEAN 96.2 MAX 623 MIN 14 AC-FT 69820
WTR YR 1981 TOTAL 16178 MEAN 44.3 MAX 197 MIN 17 AC-FT 32090

10237000 BEAVER RIVER AT ADAMSVILLE, UTAH

LOCATION.--Lat 38°15'13", long 112°45'56", in NE¼SW¼SW¼ sec.28, T.29 S., R.8 W., Beaver County, Hydrologic Unit 16030007, on right bank 80 ft (24 m) upstream from bridge on State Highway 21, 1.6 mi (2.6 km) upstream from Indian Creek, and 1.6 mi (2.6 km) east of Adamsville.

DRAINAGE AREA.--303 mi^2 (785 km^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 (1,692 m) 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 (1.8 km) downstream at different datum. Oct. 16, 1937, to May 28, 1946, water-stage recorder at site 1.2 mi (1.9 km) downstream at different datum. May 29, 1946, to Mar. 19, 1970 at site 1.75 mi (2.82 km) downstream at different datum. Mar. 20, 1970, to July 25, 1979 at site 450 ft (137 m) downstream at different datum.

REMARKS.--Records good. 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.--67 years (1914-81), 35.8 ft^3/s (1.014 m^3/s), 25,940 acre-ft/yr (32.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,090 ft^3/s (30.9 m^3/s) July 23, 1941, gage height, 4.68 ft (1.426 m), site and datum then in use, from rating curve extended above 500 ft^3/s (14.2 m^3/s); no flow during summer and fall months in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 164 ft^3/s (4.64 m^3/s) May 30, gage height, 5.10 ft (1.554 m); minimum, 1.1 ft^3/s (0.031 m^3/s) several days during July and Aug.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	52	58	42	45	40	52	5.5	91	3.2	1.2	2.1
2	9.3	63	59	43	44	49	49	10	79	3.2	1.3	2.1
3	9.7	59	60	40	44	47	52	26	70	3.0	1.4	2.0
4	12	57	55	41	43	41	48	10	55	2.9	1.5	2.0
5	10	56	53	41	43	40	35	9.7	42	3.4	1.5	2.1
6	10	54	51	40	43	43	26	4.2	40	4.1	1.4	2.5
7	8.9	54	52	39	42	53	25	3.2	32	3.3	1.3	3.4
8	12	54	52	41	43	51	24	3.4	21	3.5	1.1	3.5
9	12	54	52	37	41	42	23	4.3	14	3.2	1.4	7.0
10	12	52	52	38	40	41	25	3.5	13	3.6	1.6	8.2
11	21	52	53	39	41	42	27	2.1	6.7	3.3	1.8	4.4
12	66	56	55	40	42	42	30	2.1	4.3	3.1	2.8	3.0
13	53	59	48	41	42	44	25	2.4	4.2	3.6	1.8	3.3
14	37	51	52	41	41	57	23	2.2	3.7	3.5	1.8	4.1
15	47	47	52	39	40	58	17	2.5	4.6	3.4	2.2	5.0
16	55	47	48	37	40	46	16	35	3.8	2.4	2.5	4.2
17	48	52	45	39	41	41	16	48	3.4	2.0	2.1	6.4
18	44	57	46	38	40	39	10	19	3.1	5.9	2.1	6.8
19	41	57	44	38	41	42	30	14	2.9	2.8	2.4	12
20	40	54	45	38	41	44	23	35	2.8	2.2	2.5	12
21	44	58	44	38	38	47	12	33	2.4	2.2	3.0	8.5
22	44	54	46	37	35	45	9.5	30	2.6	2.2	2.6	3.4
23	43	55	45	37	36	42	9.9	21	2.7	1.8	2.6	3.0
24	44	60	44	36	38	44	16	14	2.4	1.6	2.9	2.7
25	46	62	43	36	37	46	17	11	2.2	1.3	2.9	2.6
26	47	62	44	39	42	48	17	13	2.1	1.2	2.4	2.6
27	52	62	43	39	44	55	15	35	2.5	1.3	2.4	2.7
28	47	60	44	39	42	62	11	118	3.6	1.3	2.5	2.8
29	45	59	43	38	---	58	6.5	134	5.4	1.2	3.6	2.5
30	46	58	43	40	---	64	4.6	125	3.9	1.2	2.2	2.8
31	47	---	43	40	---	57	---	91	---	1.2	2.1	---
TOTAL	1062.9	1677	1514	1211	1149	1470	694.5	867.1	526.3	82.1	64.9	129.7
MEAN	34.3	55.9	48.8	39.1	41.0	47.4	23.2	28.0	17.5	2.65	2.09	4.32
MAX	66	63	60	43	45	64	52	134	91	5.9	3.6	12
MIN	8.9	47	43	36	35	39	4.6	2.1	2.1	1.2	1.1	2.0
AC-FT	2110	3330	3000	2400	2280	2920	1380	1720	1040	163	129	257

CAL YR 1980 TOTAL 30011.9 MEAN 82.0 MAX 656 MIN 1.8 AC-FT 59530
WTR YR 1981 TOTAL 10448.5 MEAN 28.6 MAX 134 MIN 1.1 AC-FT 20720

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, monthly.

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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	NITRO-GEN DIS-SOLVED (MG/L AS N)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 14...	1200	42	620	8.3	14.0	9.5	.90	9.5	1.0	39	320
NOV 12...	1230	57	340	8.7	7.0	9.0	3.5	10.2	.47	K75	170
DEC 12...	1330	52	320	8.5	8.0	3.0	2.1	12.8	.86	110	88
JAN 23...	1030	35	355	7.7	-2.0	.5	1.3	11.7	1.2	K89	94
FEB 18...	1030	42	340	8.0	3.0	2.5	14	11.4	.70	K50	100
MAR 19...	1230	43	380	8.1	6.0	4.5	7.4	10.8	.85	K22	160
APR 16...	1130	19	475	8.7	22.5	12.0	4.3	12.0	1.1	340	240
MAY 21...	1130	34	620	8.2	15.5	10.0	5.0	9.6	1.1	690	960
JUN 25...	0930	2.4	740	8.0	21.5	16.0	1.0	7.4	1.0	230	130
JUL 21...	1030	2.4	750	7.8	26.0	16.5	2.5	8.8	.67	220	350
AUG 26...	1300	2.5	780	8.4	25.5	25.5	1.0	10.3	1.1	K950	2100
SEP 29...	1045	2.5	790	8.0	20.5	12.0	2.1	8.9	--	230	630

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L 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)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)
OCT 14...	220	0	--	58	18	41	28	1.2	12	--	--
NOV 12...	130	0	--	38	8.9	19	23	.7	4.5	160	20
DEC 12...	130	0	--	36	9.3	19	24	.7	3.9	--	--
JAN 23...	140	3	--	41	9.8	23	25	.8	3.5	--	--
FEB 18...	140	0	--	40	9.6	20	23	.7	3.9	--	--
MAR 19...	140	--	--	41	10	24	26	.9	4.0	--	--
APR 16...	190	--	.00	51	15	30	25	1.0	7.0	--	--
MAY 21...	230	--	.00	61	20	44	28	1.3	9.7	--	--
JUN 25...	260	--	.00	72	20	63	33	1.7	9.5	--	--
JUL 21...	260	--	.00	73	20	64	34	1.7	7.5	--	--
AUG 26...	260	--	.00	70	21	73	37	2.1	9.4	--	--
SEP 29...	270	--	.00	73	21	71	35	2.0	9.7	--	--

K Results based on colony count outside the acceptable range (non-ideal colony count).

10237000 BEAVER RIVER AT ADAMSVILLE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALKALINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	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 14...	250	--	36	31	1.0	39	443	386	.60	50.2
NOV 12...	250	.6	21	14	.6	31	223	287	.30	34.3
DEC 12...	140	--	22	12	.5	33	225	222	.31	31.8
JAN 23...	140	--	26	15	.6	33	243	238	.33	23.1
FEB 18...	140	--	15	13	.4	33	228	221	.31	25.9
MAR 19...	140	--	26	15	.5	35	245	241	.33	28.6
APR 16...	190	--	40	19	.9	38	324	315	.44	16.6
MAY 21...	260	--	48	30	1.1	35	406	405	.55	37.5
JUN 25...	290	--	14	44	1.2	42	480	440	.65	3.2
JUL 21...	300	--	3.0	41	1.0	46	487	436	.66	3.2
AUG 26...	330	--	<5.0	56	1.2	50	522	477	.71	3.5
SEP 29...	310	--	45	42	1.3	45	501	494	.68	3.4

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	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)
OCT 14...	.040	.090	.05	.12	1.3	.91	1.30	.30	1.0
NOV 12...	.010	.010	.01	.01	.77	.45	.78	.32	.46
DEC 12...	.050	.050	.06	.06	.57	.38	.62	.19	.43
JAN 23...	.080	.100	.10	.13	.72	.65	.80	.05	.75
FEB 18...	.030	.060	--	.08	.65	.30	.68	.32	.36
MAR 19...	.040	.000	--	.00	.53	.52	.57	.05	.52
APR 16...	.060	.060	--	.08	.94	.94	1.00	.00	1.0
MAY 21...	.130	.100	--	.13	.97	1.0	1.10	.00	1.1
JUN 25...	.060	.060	--	.08	1.0	.91	1.10	.13	.97
JUL 21...	.080	.090	--	.12	.81	.55	.89	.25	.64
AUG 26...	.130	.130	--	.17	.87	.87	1.00	.00	1.0
SEP 29...	.130	.110	--	.14	.51	.58	.64	.00	.69

DATE	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (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)	POTASSIUM 40 DISSOLVED (PCI/L AS K40)
OCT 14...	1.3	.00	.04	5.8	.130	.40	.100	--
NOV 12...	.94	.16	.01	4.2	.080	.25	.070	--
DEC 12...	1.1	.45	.43	4.7	.050	.15	.040	--
JAN 23...	1.2	.44	.43	5.5	.100	--	.070	--
FEB 18...	1.1	.41	.34	4.8	.080	.25	.050	2.9
MAR 19...	.90	.33	.33	4.0	.120	.37	.070	3.0
APR 16...	1.1	.10	.08	4.9	.180	.55	.130	5.2
MAY 21...	1.1	.02	.03	5.0	.120	.37	.140	7.2
JUN 25...	1.1	.03	.05	5.0	.160	.49	.160	7.1
JUL 21...	.91	.02	.03	4.0	.150	.46	.120	5.6
AUG 26...	1.1	.11	.11	4.9	.100	.31	.100	--
SEP 29...	--	<.10	<.10	--	.110	.34	.090	--

BEAVER RIVER BASIN

10237000 BEAVER RIVER AT ADAMSVILLE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	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, SUS-PENDED RECOV. (UG/L AS CR)
NOV 12...	1230	2	0	4	100	60	40	1	<1	10	10
FEB 18...	1030	3	1	2	0	0	40	0	<1	20	20
MAY 21...	1130	4	0	5	0	0	60	0	<1	10	10
AUG 26...	1300	6	0	7	100	50	50	1	<1	10	10

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	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)
NOV 12...	0	2	<3	16	13	3	290	270	20	7
FEB 18...	0	0	<3	3	1	2	540	510	30	13
MAY 21...	0	1	<3	8	6	2	330	280	50	0
AUG 26...	0	1	<3	5	3	2	200	160	36	35

DATE	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	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)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)
NOV 12...	3	4	50	20	30	.6	.6	.0	8	1
FEB 18...	13	0	120	40	80	.8	.3	.5	2	0
MAY 21...	0	3	100	20	80	.5	.0	.7	3	0
AUG 26...	29	6	170	20	150	.1	.1	.0	6	3

DATE	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)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV 12...	7	0	0	0	0	0	0	40	20	20
FEB 18...	3	0	0	0	0	0	0	10	--	<3
MAY 21...	3	0	0	0	0	0	0	40	--	<3
AUG 26...	3	0	0	0	1	1	0	20	10	6

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
OCT 14...	1200	13	--	--
NOV 12...	1230	--	5.7	.5
DEC 12...	1330	8.8	--	--
FEB 18...	1030	--	3.1	.6
MAR 19...	1230	5.3	--	--
APR 16...	1130	10	--	--
MAY 21...	1130	--	20	.4
JUN 25...	0930	9.6	--	--
JUL 21...	1030	6.7	--	--
AUG 26...	1300	--	9.4	.2
SEP 29...	1045	6.5	--	--

10237000 BEAVER RIVER AT ADAMSVILLE, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	NOV 12,80		MAR 19,81		MAY 21,81		JUN 25,81	
TIME	1415		1300		1230		0930	
TOTAL CELLS/ML	1500		160		310		580	
DIVERSITY: DIVISION	1.3		0.0		0.5		1.0	
.CLASS	1.3		0.0		0.5		1.0	
..ORDER	1.8		0.0		0.8		1.8	
...FAMILY	3.3		2.2		1.7		1.9	
....GENUS	3.6		2.4		1.7		1.9	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...HYDRODICTYACEAE								
....PEDIASTRUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	28	2	--	-	--	-	52	9
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	150	10	--	-	39	13	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	120	8	--	-	13	4	13	2
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	69	5	13	8	--	-	--	-
....COCCONEIS	83	6	13	8	26	8	--	-
....RHOICOSPHENIA	14	1	--	-	--	-	--	-
...CYMBELLACEAE								
....CYMBELLA	14	1	--	-	--	-	--	-
...DIATOMACEAE								
....DIATOMA	190	13	26a	17	--	-	--	-
...FRAGILARIACEAE								
....SYNEDRA	69	5	13	8	--	-	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	180	12	--	-	--	-	--	-
...NAVICULACEAE								
....NAVICULA	150	10	52a	33	52a	17	13	2
...NITZSCHIACEAE								
....NITZSCHIA	110	7	39a	25	180a	58	64	11
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOMONADACEAE								
....CRYPTOMONAS	55	4	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	--	-	130a	22
..NOSTOCALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	--	-
..OSCILLATORIALES								
...OSCILLATORIACEAE								
....LYNGBYA	69	5	--	-	--	-	--	-
....OSCILLATORIA	170	11	--	-	--	-	310a	53

See footnote at end of table.

10237000 BEAVER RIVER AT ADAMSVILLE, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	JUL 21,81		AUG 26,81		SEP 29,81	
TIME	1200		1300		1045	
TOTAL CELLS/ML	39		1600		160	
DIVERSITY: DIVISION	0.9		1.2		0.0	
.CLASS	0.9		1.2		0.0	
..ORDER	0.9		1.2		0.0	
...FAMILY	0.9		1.4		1.6	
....GENUS	0.9		1.4		1.6	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...HYDRODICTYACEAE						
....PEDIASTRUM	--	-	460a	28	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	--	-	--	-	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	--	-	--	-	--	-
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	--	-	--	-	--	-
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	--	-
....COCCONEIS	--	-	58	4	86a	55
....RHOICOSPHENIA	--	-	14	1	--	-
...CYMBELLACEAE						
....CYMBELLA	--	-	--	-	--	-
...DIATOMACEAE						
....DIATOMA	--	-	--	-	--	-
...FRAGILARIACEAE						
....SYNEDRA	--	-	29	2	--	-
...GOMPHONEMATACEAE						
....GOMPHONEMA	--	-	14	1	14	9
...NAVICULACEAE						
....NAVICULA	13a	33	29	2	43a	27
...NITZSCHIACEAE						
....NITZSCHIA	--	-	--	-	14	9
CRYPTOPHYTA (CRYPTOMONADS)						
.CRYPTOPHYCEAE						
..CRYPTOMONADALES						
...CRYPTOMONADACEAE						
....CRYPTOMONAS	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	26a	67	--	-	--	-
..NOSTOCALES						
...NOSTOCACEAE						
....ANABAENA	--	-	1000a	63	--	-
..OSCILLATORIALES						
...OSCILLATORIACEAE						
....LYNGBYA	--	-	--	-	--	-
....OSCILLATORIA	--	-	--	-	--	-

NOTE.--(a) Dominant organism: Equal to or greater than 15 percent.
(b) Observed organism, may or may not have been counted: Less than 1/2 percent.

10237000 BEAVER RIVER AT ADAMSVILLE, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	692	648	668	437	377	414	---	---	---	366	336	350
2	670	650	662	374	351	360	---	---	---	366	346	357
3	673	649	661	366	349	357	---	---	---	366	336	351
4	680	636	658	365	345	354	---	---	---	376	356	362
5	701	649	675	363	346	353	---	---	---	366	346	358
6	682	652	670	364	347	355	---	---	---	366	346	353
7	714	652	688	364	341	353	---	---	---	376	326	356
8	689	651	669	362	340	352	---	---	---	356	316	341
9	672	646	664	360	339	350	---	---	---	386	316	354
10	673	573	655	364	338	348	---	---	---	356	306	336
11	662	605	632	360	334	350	---	---	---	346	316	333
12	765	617	672	385	339	359	326	316	317	336	326	328
13	703	618	653	388	363	376	336	306	324	356	326	339
14	627	578	602	364	360	362	346	306	326	366	336	351
15	598	568	581	---	---	---	336	296	317	366	326	348
16	567	520	544	---	---	---	346	316	339	366	326	344
17	518	493	505	---	---	---	366	326	347	366	346	351
18	499	483	492	---	---	---	366	336	348	366	336	351
19	488	469	480	---	---	---	366	336	349	366	336	351
20	486	461	472	---	---	---	356	326	344	366	346	351
21	473	445	459	---	---	---	366	336	347	366	336	350
22	456	438	449	---	---	---	366	336	354	366	336	351
23	453	435	444	---	---	---	366	336	347	356	336	350
24	442	424	434	---	---	---	356	326	344	365	345	354
25	439	424	432	---	---	---	356	336	348	365	345	354
26	449	425	435	---	---	---	366	336	352	404	324	359
27	458	443	450	---	---	---	366	336	351	364	324	342
28	449	429	439	---	---	---	366	336	350	353	333	345
29	441	423	431	---	---	---	356	336	348	363	343	353
30	441	423	431	---	---	---	356	336	348	362	332	341
31	437	415	426	---	---	---	356	336	347	382	322	350
MONTH	765	415	553	---	---	---	---	---	---	404	306	349

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	371	331	346	366	346	354	390	360	376	736	546	664
2	391	321	363	456	356	388	361	341	353	737	477	559
3	380	330	347	445	385	400	381	351	362	618	368	459
4	379	330	347	395	365	375	401	351	371	640	540	606
5	389	309	353	364	354	360	471	381	414	781	641	702
6	348	318	332	384	344	359	492	472	482	812	652	702
7	358	318	343	443	383	407	482	452	469	774	684	736
8	357	327	340	443	403	427	461	421	444	805	745	775
9	377	327	339	402	382	393	461	431	446	816	706	768
10	366	346	354	392	372	379	450	400	414	827	717	758
11	376	336	354	381	361	376	409	369	384	939	839	893
12	355	335	348	381	361	371	389	349	368	990	850	916
13	375	345	354	370	350	361	448	368	383	981	841	920
14	364	344	350	440	370	393	467	397	429	993	873	933
15	354	334	348	479	439	464	497	427	461	944	834	904
16	353	333	343	429	389	404	516	466	489	825	595	662
17	352	333	344	378	368	371	537	477	505	667	617	645
18	352	332	344	378	357	367	559	519	540	648	618	637
19	351	331	342	407	357	370	580	550	570	649	589	637
20	351	331	339	397	357	375	591	531	561	641	581	611
21	370	330	343	407	377	387	643	563	578	632	560	611
22	380	340	357	388	368	377	624	574	598	608	578	594
23	359	329	345	388	368	377	625	555	584	589	559	574
24	339	329	334	368	348	359	586	456	516	629	549	585
25	338	318	326	349	339	342	568	498	532	620	580	598
26	398	308	335	339	329	336	559	429	484	600	560	580
27	397	357	379	429	339	376	540	500	515	591	511	554
28	377	357	368	479	389	422	582	522	548	551	471	490
29	---	---	---	460	380	419	733	563	619	452	422	436
30	---	---	---	470	360	425	754	574	667	432	392	418
31	---	---	---	440	400	416	---	---	---	453	423	440
MONTH	398	308	347	479	329	385	754	341	482	993	368	657

10237000 BEAVER RIVER AT ADAMSVILLE, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	433	413	423	722	702	716	951	911	928	796	766	782
2	434	414	422	721	681	703	921	891	909	827	777	792
3	434	414	421	701	671	685	911	851	885	858	808	821
4	445	415	427	700	670	683	901	861	884	869	809	826
5	455	425	442	700	650	677	881	841	857	869	789	838
6	446	416	432	699	649	666	871	851	860	880	800	848
7	466	436	451	669	639	652	891	851	871	861	751	821
8	497	457	480	688	648	665	911	871	888	852	792	817
9	507	477	491	708	688	696	921	811	871	823	743	791
10	588	488	531	717	687	700	911	791	847	754	714	739
11	608	588	594	697	677	682	931	811	873	775	735	758
12	649	599	619	716	676	694	851	741	801	795	725	754
13	669	629	653	696	676	683	851	771	830	786	726	761
14	680	630	650	745	685	710	851	821	834	757	697	721
15	650	610	625	725	685	706	831	791	814	698	658	676
16	671	631	654	744	704	724	810	791	798	739	679	698
17	651	621	638	754	724	743	810	790	800	710	650	667
18	682	631	649	753	643	675	800	780	789	711	681	690
19	712	652	682	753	653	726	780	750	765	671	631	645
20	712	683	696	752	712	737	780	730	756	672	632	645
21	703	673	688	762	722	740	790	730	751	723	633	669
22	733	664	696	762	722	743	810	780	792	774	734	752
23	764	664	699	812	752	783	810	760	778	815	735	773
24	754	704	734	842	752	794	810	760	781	816	776	796
25	765	725	750	872	832	850	800	750	773	877	797	813
26	794	734	765	902	872	882	801	780	786	807	777	789
27	774	724	751	902	812	881	802	772	790	788	768	781
28	743	703	726	892	862	877	793	753	776	789	749	775
29	733	683	721	942	872	904	803	744	770	820	750	794
30	732	702	725	931	881	916	824	784	799	810	770	793
31	---	---	---	931	901	911	805	775	790	---	---	---
MONTH	794	413	608	942	639	749	951	730	821	880	631	761

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19.0	7.5	13.0	13.0	5.0	8.5	---	---	---	7.0	.5	3.5
2	18.0	8.0	12.5	12.5	5.0	8.5	---	---	---	8.0	3.5	5.5
3	19.0	7.0	12.5	12.5	5.0	8.0	---	---	---	6.5	1.0	4.0
4	18.5	7.0	12.5	13.0	5.5	9.0	---	---	---	8.0	4.5	6.0
5	18.0	8.0	12.5	13.5	5.5	9.0	---	---	---	6.0	2.0	4.0
6	18.5	8.5	13.0	13.5	5.5	9.0	---	---	---	6.0	1.5	3.0
7	19.5	8.5	13.0	13.0	5.5	9.0	---	---	---	5.5	.5	2.5
8	20.0	8.0	13.5	12.5	5.5	8.5	---	---	---	4.5	.5	2.0
9	18.5	8.0	13.0	12.5	4.5	8.0	---	---	---	4.0	.5	1.5
10	18.0	7.5	12.5	11.5	4.0	7.5	---	---	---	4.5	.5	1.5
11	17.5	8.0	12.5	10.5	6.5	8.5	---	---	---	3.5	.5	1.5
12	15.5	11.0	12.5	9.5	7.5	8.5	5.5	1.5	4.0	3.5	1.0	2.0
13	17.0	8.5	12.5	8.5	5.0	6.5	4.5	.5	2.0	6.5	1.5	3.5
14	14.0	8.0	10.5	4.5	3.0	4.0	5.0	.5	1.5	5.5	.5	2.0
15	9.0	7.0	8.0	---	---	---	6.0	.5	2.5	5.0	.5	2.0
16	11.0	5.0	7.5	---	---	---	6.0	.5	2.5	5.0	.5	2.5
17	12.0	5.5	8.5	---	---	---	7.0	.5	3.5	7.0	2.0	4.0
18	13.5	5.5	9.0	---	---	---	7.5	1.0	4.0	7.0	.5	3.5
19	15.0	5.5	9.5	---	---	---	7.0	1.0	3.5	6.5	.5	3.0
20	15.0	6.0	10.0	---	---	---	6.0	.5	3.0	7.0	.5	3.0
21	15.0	6.0	10.0	---	---	---	7.5	1.0	4.0	6.5	.5	3.0
22	14.5	6.5	10.0	---	---	---	8.0	4.0	5.5	7.0	.5	3.0
23	12.5	4.5	8.5	---	---	---	7.0	1.5	4.0	4.0	.5	2.0
24	12.0	3.0	7.0	---	---	---	5.5	.5	2.5	7.0	1.0	3.5
25	11.5	3.0	7.5	---	---	---	7.5	1.5	4.0	5.0	1.0	2.5
26	8.5	7.0	7.5	---	---	---	8.0	1.5	4.5	3.0	.5	1.0
27	8.5	5.0	6.5	---	---	---	7.5	1.0	4.0	3.5	.5	1.5
28	10.0	3.0	6.0	---	---	---	8.0	2.0	4.5	5.0	2.0	3.0
29	11.0	3.0	6.5	---	---	---	7.0	1.0	3.5	6.5	1.5	4.0
30	12.5	3.5	7.5	---	---	---	6.0	.5	2.5	4.5	.5	2.0
31	12.5	5.0	8.5	---	---	---	6.5	.5	3.0	2.5	.5	1.0
MONTH	20.0	3.0	10.0	---	---	---	---	---	---	8.0	.5	3.0

10237000 BEAVER RIVER AT ADAMSVILLE, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.0	.5	1.5	9.5	3.5	6.0	14.0	3.5	8.0	24.5	9.5	16.0
2	3.5	.5	1.0	9.0	3.0	6.0	12.0	3.5	7.5	20.5	10.5	15.0
3	5.0	.5	1.5	9.0	3.0	5.5	9.0	3.0	5.5	18.0	8.0	12.0
4	5.0	.5	1.5	11.5	1.0	5.5	13.0	.5	6.0	18.5	6.0	12.5
5	4.0	.5	1.5	8.0	3.5	5.5	16.0	1.5	8.5	20.5	7.5	13.0
6	6.5	.5	2.5	7.0	3.5	5.0	17.0	3.5	10.0	17.5	6.5	11.5
7	6.5	.5	2.5	9.0	3.0	5.5	16.5	5.0	10.5	20.0	3.5	11.5
8	5.0	.5	2.0	10.5	3.0	6.5	17.5	4.5	10.5	19.0	5.0	11.5
9	6.5	1.5	3.5	12.5	2.0	7.0	18.0	5.5	11.5	21.0	4.0	12.0
10	5.0	.5	2.0	8.0	3.0	5.5	17.0	5.5	11.0	21.5	7.0	13.0
11	5.5	.5	2.0	11.0	2.0	6.0	17.0	5.5	11.0	23.5	8.0	14.5
12	8.5	.5	3.5	11.5	2.5	6.5	14.0	4.0	9.0	23.5	9.0	14.5
13	9.0	.5	4.0	7.5	3.0	5.0	18.0	4.0	10.5	25.0	5.5	14.5
14	9.5	2.5	6.0	11.0	3.5	6.0	14.5	4.5	10.0	21.5	8.0	14.5
15	9.5	2.0	5.5	13.5	3.0	7.5	20.0	7.5	13.5	14.5	9.0	11.5
16	10.0	1.5	5.0	11.0	4.5	7.5	18.5	7.0	12.5	12.0	6.5	9.5
17	11.5	3.0	6.5	12.0	2.0	6.0	17.0	6.5	11.5	20.0	7.5	13.0
18	11.5	2.5	6.5	12.5	1.0	6.5	13.0	9.0	10.5	21.0	7.5	13.5
19	9.5	2.5	6.0	7.0	3.5	5.5	11.5	6.0	8.5	13.0	9.5	11.5
20	7.0	2.0	4.5	6.5	2.0	4.5	17.5	4.5	10.0	13.5	6.5	10.0
21	7.5	.5	3.0	12.0	.0	5.0	17.5	5.0	11.0	16.0	7.5	11.5
22	10.0	.5	4.0	14.0	2.0	7.5	18.0	6.0	12.0	21.5	7.5	14.0
23	10.5	.5	5.0	15.5	4.0	9.0	21.5	5.5	13.0	22.5	8.5	15.5
24	10.5	1.0	5.5	14.5	4.5	9.0	21.0	7.5	14.0	21.0	9.5	15.5
25	9.0	2.0	5.0	11.5	2.5	7.0	21.0	8.0	14.0	17.5	13.0	15.5
26	8.0	2.0	5.5	9.5	3.0	5.5	16.5	7.5	12.0	16.5	12.0	14.0
27	11.0	1.5	5.5	11.0	1.5	6.0	17.0	8.0	12.5	20.0	11.5	14.5
28	10.0	1.5	5.5	7.0	3.0	5.0	19.0	6.0	12.5	19.0	9.5	14.0
29	---	---	---	15.0	3.5	8.0	23.5	6.5	14.0	19.5	10.0	14.5
30	---	---	---	10.0	3.0	6.0	22.0	8.0	15.0	21.5	11.0	16.0
31	---	---	---	14.0	1.0	7.0	---	---	---	21.5	12.0	16.0
MONTH	11.5	.5	4.0	15.5	.0	6.5	23.5	.5	11.0	25.0	3.5	13.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	20.5	11.0	16.0	25.0	15.5	19.5	29.0	13.5	20.0	27.0	12.5	19.0
2	18.5	11.5	15.0	28.0	14.5	19.5	29.5	12.5	20.0	25.5	13.0	18.5
3	21.0	10.5	15.5	28.0	13.0	20.0	27.0	11.5	19.0	25.5	11.5	18.0
4	21.5	10.0	15.5	28.5	14.0	21.0	28.0	11.0	19.0	25.0	11.5	17.5
5	25.0	10.5	17.5	27.5	14.5	21.0	28.5	10.5	19.0	21.5	14.0	16.5
6	23.0	12.5	17.5	24.5	16.0	20.0	29.5	11.5	19.5	22.5	11.0	16.0
7	23.5	13.0	18.0	26.0	15.0	20.0	29.0	11.5	19.0	20.5	11.0	15.0
8	25.0	12.5	18.5	27.0	14.0	20.0	29.0	11.5	19.5	23.5	12.5	16.5
9	25.0	13.0	19.0	22.5	15.5	19.5	27.0	12.5	19.0	18.0	13.0	15.5
10	26.5	13.5	19.5	27.5	15.0	20.5	17.0	14.0	15.5	21.0	11.5	15.5
11	25.5	13.5	19.0	22.0	15.0	18.5	22.0	11.5	16.0	24.0	11.0	17.0
12	24.0	13.5	18.0	23.5	15.5	18.5	26.0	12.0	18.0	23.0	12.5	17.0
13	22.5	9.5	15.5	23.0	14.0	18.5	24.5	15.0	18.5	24.0	11.0	16.0
14	20.0	9.0	13.5	29.0	15.0	21.5	26.0	13.5	19.0	21.5	11.0	15.5
15	22.0	8.0	14.5	30.0	14.5	21.0	27.0	14.5	19.0	21.5	10.5	15.5
16	23.0	9.5	16.0	25.5	16.0	19.5	27.5	13.0	19.5	20.0	11.0	15.0
17	25.0	11.0	17.5	28.5	15.5	20.0	28.5	12.5	19.5	23.0	10.0	15.0
18	25.5	12.0	18.5	27.0	15.5	21.0	24.0	13.5	17.5	24.5	10.0	16.5
19	27.0	13.0	19.5	28.5	14.0	21.0	24.5	12.5	18.0	23.0	10.5	16.5
20	27.5	14.0	20.0	27.0	13.5	20.0	26.0	13.0	19.0	23.5	10.5	16.0
21	28.0	13.5	20.5	27.5	13.0	20.0	25.5	15.0	19.0	22.0	11.0	16.0
22	28.5	14.5	21.0	29.5	15.0	21.0	27.5	15.0	20.0	23.0	10.5	16.0
23	28.0	14.0	21.0	28.5	14.0	20.0	24.0	14.0	19.0	22.0	10.5	15.5
24	29.5	14.5	21.5	28.0	14.5	20.0	27.5	13.5	19.5	21.0	12.0	15.5
25	29.0	15.5	22.0	27.5	13.5	19.5	28.0	13.5	20.0	19.0	10.0	13.5
26	28.0	15.0	21.0	27.5	13.0	19.5	26.5	14.5	19.5	21.0	7.0	13.5
27	23.5	16.5	19.0	29.5	12.0	20.0	29.0	13.5	19.5	20.5	8.0	14.0
28	24.5	16.0	19.0	30.0	12.5	20.5	26.0	15.5	20.0	19.5	8.5	13.5
29	25.5	13.5	18.5	27.0	13.0	19.5	26.5	15.0	20.0	17.5	9.0	13.0
30	22.5	13.5	18.0	28.0	13.5	20.0	25.0	14.5	19.0	21.0	9.5	14.0
31	---	---	---	28.5	12.0	20.0	26.5	12.5	19.0	---	---	---
MONTH	29.5	8.0	18.0	30.0	12.0	20.0	29.5	10.5	19.0	27.0	7.0	16.0

10237000 BEAVER RIVER AT ADAMSVILLE, UT--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT						
14...	1200	42	9.5	70	71	7.9
NOV						
12...	1230	57	9.0	12	74	1.8
DEC						
12...	1330	52	3.0	12	67	1.7
JAN						
23...	1030	35	.5	19	90	1.8
FEB						
18...	1030	42	2.5	21	82	2.4
MAR						
19...	1230	43	4.5	26	82	3.0
APR						
16...	1130	19	12.0	66	87	3.4
MAY						
21...	1130	34	10.0	47	89	4.3
JUL						
21...	1030	2.4	16.5	153	69	1.0
AUG						
26...	1300	2.5	25.5	114	60	.75
SEP						
29...	1045	2.5	12.0	57	54	.38

10238500 MINERSVILLE RESERVOIR NEAR MINERSVILLE, UTAH

LOCATION.--Lat 38°13'03', long 112°50'05, in SE¼NE¼NW¼ 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 (8.0 km) east of Minersville.

DRAINAGE AREA.--534 mi^2 (1,383 km^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 (1,661.77 m) NGVD of 1929 (levels by topographic survey).

REMARKS.--Reservoir is formed by earthfill dam completed in 1914. Capacity, 23,260 acre-ft (28.7 hm^3) between gage height, 8.0 ft (2.438 m) (bottom of outlet tunnel) and 51.0 ft (15.54 m) (spillway crest). Prior to fall of 1937, the spillway crest was at elevation 52.5 ft (16.00 m); capacity, 24,910 acre-ft (30.7 hm^3). 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 (32.5 hm^3) June 24-29, 1969, gage height, 53.8 ft (16.40 m). No contents at times in 1915, 1918-19, 1939, 1956, and 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 24,730 acre-ft (30.5 hm^3) Apr. 20, gage height, 53.8 ft (16.398 m); minimum observed, 8,130 acre-ft (10.0 hm^3), gage height, 34.5 ft (10.5 m) Sept. 25.

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

34.0	7,860	50.0	20,560
35.0	8,400	53.0	23,850
40.0	11,790	54.0	24,950

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	24070	---	---	---	---	---	---
3	---	---	---	21330	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	14620	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	21880	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	24400	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	17910	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	24730	---	---	14220	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	20560	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	8130
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	19140	---	---	a23970	---	---	---	---	---	---	---
29	---	---	---	---	---	---	24620	21660	17530	---	---	---
30	---	a19250	---	---	---	---	a24520	---	a17370	---	---	a8350
31	a16350	---	a21120	a22640	---	a24620	---	a21660	---	a12620	a8130	---
(‡)	+1920	+2900	+1870	+1520	+1330	+650	-100	-2860	-4290	-4750	-4490	+220

CAL YR 1980 . . . . . (‡) +6310
WTR YR 1981 . . . . . (‡) -6080

(‡) CHANGE IN CONTENTS, IN ACRE-FEET
(a) NO GAGE-HEIGHT RECORD, CONTENTS INTERPOLATED

10239000 BEAVER RIVER AT ROCKY FORD DAM, NEAR MINERSVILLE, UTAH

LOCATION.--Lat 38°13'03", long 112°50'22", in SE¼NW¼NW¼ sec.11, T.30 S., R.9 W., Beaver County, Hydrologic Unit 16030007, on right bank and 0.5 mi (0.8 km) downstream from Rocky Ford Dam and 4.8 mi (7.7 km) east of Minersville.

DRAINAGE AREA.--535 mi^2 (1,386 km^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 (1,646 m) by barometer. Prior to June 1, 1916, at site 1,500 ft (457 m) upstream at different datum.

REMARKS.--Records poor. 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.--66 years (1914-36, 1937-81), 37.2 ft^3/s (1.054 m^3/s), 26,950 acre-ft/yr (33.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 762 ft^3/s (21.6 m^3/s) June 11, 1980, gage height, 3.95 ft (1.204 m); minimum daily, 0.4 ft^3/s (0.011 m^3/s) Mar. 20, 1914.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 142 ft^3/s (4.02 m^3/s) June 27; minimum daily, 1.7 ft^3/s (0.048 m^3/s) Sept. 13 and 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	4.8	9.3	14	12	9.6	66	52	86	128	72	80
2	36	5.0	9.3	14	12	9.7	40	80	96	120	72	74
3	36	5.4	9.6	14	12	9.6	39	95	102	117	72	77
4	37	5.4	9.9	14	12	9.8	38	103	109	117	71	77
5	38	5.5	9.9	13	12	9.9	34	106	110	118	72	60
6	38	6.0	9.3	11	12	9.9	38	106	112	119	72	51
7	39	6.0	9.2	12	12	9.9	35	110	109	120	87	34
8	40	6.5	9.0	12	12	10	30	113	106	123	104	16
9	40	6.5	8.7	12	11	10	24	113	107	123	104	8.8
10	40	6.6	8.7	12	11	11	21	112	107	124	105	9.6
11	39	6.8	8.9	12	10	34	21	111	94	122	88	10
12	41	7.0	9.3	12	31	69	23	112	92	122	79	8.0
13	39	7.2	9.3	13	72	74	24	111	100	119	77	1.7
14	37	7.4	9.3	13	88	72	23	111	99	116	78	1.7
15	37	7.8	9.3	12	64	70	22	104	99	120	79	1.9
16	17	8.0	9.3	12	48	68	20	92	99	124	79	2.2
17	3.0	8.4	9.3	12	13	49	19	81	99	94	77	2.2
18	2.9	8.4	9.3	12	10	12	21	74	99	73	78	2.5
19	3.2	8.7	9.3	13	10	24	26	70	103	103	79	2.5
20	3.2	8.7	9.3	13	10	47	28	60	119	90	80	3.0
21	3.2	8.8	9.6	13	10	47	27	53	119	82	73	3.5
22	3.6	9.3	10	13	9.9	47	26	53	122	81	69	9.8
23	3.6	9.3	11	12	9.4	46	16	54	124	79	70	13
24	4.0	9.3	11	13	9.7	46	15	54	124	76	75	13
25	4.0	9.2	11	13	9.9	45	15	55	125	71	85	13
26	4.0	9.2	12	13	10	42	14	58	133	68	86	12
27	4.4	9.3	12	13	9.9	39	39	61	142	59	86	13
28	4.0	9.3	12	12	9.9	39	47	63	141	57	88	8.6
29	4.4	9.3	12	12	---	40	49	62	136	58	88	4.8
30	4.4	9.3	12	12	---	65	52	67	131	62	88	4.8
31	4.4	---	13	12	---	76	---	72	---	71	88	---
TOTAL	645.3	228.4	311.1	390	552.7	1150.4	892	2568	3344	3056	2521	618.6
MEAN	20.8	7.61	10.0	12.6	19.7	37.1	29.7	82.8	111	98.6	81.3	20.6
MAX	41	9.3	13	14	88	76	66	113	142	128	105	80
MIN	2.9	4.8	8.7	11	9.4	9.6	14	52	86	57	69	1.7
AC-FT	1280	453	617	774	1100	2280	1770	5090	6630	6060	5000	1230

CAL YR 1980 TOTAL 27063.4 MEAN 73.9 MAX 638 MIN 2.9 AC-FT 53680
WTR YR 1981 TOTAL 16277.5 MEAN 44.6 MAX 142 MIN 1.7 AC-FT 32290

10241470 CENTER CREEK ABOVE PAROWAN CREEK, NEAR PAROWAN, UTAH

LOCATION.--Lat 37°47'35", long 112°48'55", in SW¼NE¼NE¼ sec.1, T.35 S., R.9 W., Iron County, Hydrologic Unit 16030006, on left bank about 900 ft (274 m) above mouth of Parowan Creek and 3.5 mi (5.6 km) south of Parowan.

DRAINAGE AREA.--11.6 mi^2 (30.0 km^2), does not include 2.0 mi^2 (5.18 km^2) that contributes runoff to Yankee Meadows Reservoir, located on Boworg Creek, which is a tributary to Center Creek, 0.5 mi (0.8 km) 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 (2,103 m) from topographic map.

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

AVERAGE DISCHARGE.--17 years, 6.25 ft^3/s (0.177 m^3/s), 4,530 acre-ft/yr (5.59 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 353 ft^3/s (10.0 m^3/s) Aug. 10, 1965, gage height, 4.96 ft (1.512 m) from floodmarks, from rating curve extended above 18 ft^3/s (0.51 m^3/s) on basis of slope-area measurement at gage height, 4.96 ft (1.512 m); minimum recorded, 1.4 ft^3/s (0.040 m^3/s) July 16, 1972 and Jan. 24, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 30 ft^3/s (0.85 m^3/s), and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 12	1230	*67	1.90	1.62	0.494
July 12	1700	56.0	1.59	1.43	.436

Minimum, 2.87 ft^3/s (0.079 m^3/s) Feb. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	5.2	4.5	5.3	3.8	4.8	5.2	6.0	7.2	8.4	4.6	4.0
2	5.2	5.2	4.5	5.5	4.0	5.0	5.0	6.2	7.2	8.4	4.7	3.9
3	5.2	5.2	4.5	5.2	4.1	4.8	4.8	6.4	7.4	8.0	4.4	3.9
4	5.2	5.2	4.5	5.2	4.1	4.5	4.8	5.7	7.0	8.0	4.2	3.9
5	5.2	5.1	4.5	5.1	4.0	4.5	5.2	5.3	6.9	7.4	4.3	4.6
6	5.4	5.3	4.5	5.0	4.3	4.8	5.4	5.0	6.9	7.1	4.2	4.8
7	5.2	5.2	4.5	5.0	4.5	4.5	5.4	4.7	6.7	7.1	4.8	4.5
8	5.2	5.2	4.6	5.0	4.3	4.5	5.5	4.4	6.7	7.1	4.7	4.5
9	5.1	5.2	4.3	5.0	4.8	4.5	6.5	4.1	7.0	6.8	4.8	4.9
10	5.2	5.2	3.9	5.0	4.8	4.5	7.2	3.9	7.2	6.4	7.2	5.0
11	5.1	5.2	4.0	5.1	4.6	4.5	7.0	3.8	7.0	6.2	4.6	4.6
12	10	5.5	4.1	5.0	4.5	4.5	5.9	3.9	6.8	8.8	4.4	5.1
13	5.4	5.4	4.1	5.0	4.5	4.8	5.9	3.9	7.3	6.4	4.5	5.2
14	5.3	4.8	4.2	4.9	4.5	4.8	6.7	3.8	7.3	6.4	4.3	4.9
15	5.4	4.8	4.2	4.9	4.8	4.8	7.9	4.6	7.7	6.0	5.0	4.5
16	5.3	4.9	4.4	4.7	4.8	4.8	8.1	5.6	7.7	6.3	4.7	4.3
17	5.2	4.9	4.7	4.7	4.8	4.8	8.2	5.3	7.9	6.0	4.7	4.3
18	5.1	4.9	4.8	4.6	4.8	5.0	11	5.4	8.2	5.5	5.2	4.2
19	5.2	5.0	4.6	4.6	4.5	4.8	9.2	5.4	8.0	5.4	4.8	4.2
20	5.2	5.1	4.8	4.7	4.8	4.5	6.5	7.0	8.0	5.3	4.6	4.3
21	5.2	5.1	5.9	4.7	4.8	4.8	6.0	7.2	8.0	5.2	5.1	4.3
22	5.2	4.9	5.6	4.7	4.5	4.5	6.1	6.7	8.0	5.1	4.9	4.1
23	5.1	4.8	5.7	4.7	4.8	4.8	6.0	6.4	8.0	4.8	5.5	4.1
24	4.9	4.9	5.8	4.8	4.8	4.8	6.3	6.3	8.0	4.7	4.9	4.2
25	5.2	4.3	5.9	4.8	4.8	4.5	6.4	6.0	8.0	4.6	4.9	4.2
26	5.4	4.0	5.8	4.8	5.0	4.8	6.3	6.3	8.0	4.6	4.8	4.2
27	5.3	3.8	5.9	4.6	4.8	4.5	6.2	7.0	8.4	4.4	4.4	4.2
28	5.3	3.5	5.9	4.5	4.8	4.5	5.9	7.1	9.3	4.4	4.3	4.4
29	5.2	3.7	5.7	4.7	---	5.0	5.7	7.1	9.0	4.5	4.2	4.4
30	5.3	4.4	5.5	4.5	---	5.2	5.8	7.0	8.7	4.4	4.0	4.7
31	5.3	---	5.4	4.1	---	5.4	---	7.0	---	4.6	3.9	---
TOTAL	166.7	145.9	151.3	150.4	127.6	146.5	192.1	174.5	229.5	188.3	145.6	132.4
MEAN	5.38	4.86	4.88	4.85	4.56	4.73	6.40	5.63	7.65	6.07	4.70	4.41
MAX	10	5.5	5.9	5.5	5.0	5.4	11	7.2	9.3	8.8	7.2	5.2
MIN	4.9	3.5	3.9	4.1	3.8	4.5	4.8	3.8	6.7	4.4	3.9	3.9
AC-FT	331	289	300	298	253	291	381	346	455	373	289	263

CAL YR 1980 TOTAL 2573.7 MEAN 7.03 MAX 19 MIN 3.4 AC-FT 5100
WTR YR 1981 TOTAL 1950.8 MEAN 5.34 MAX 11 MIN 3.5 AC-FT 3870

10241600 SUMMIT CREEK NEAR SUMMIT, UTAH

LOCATION.--Lat 37°47'13", long 112°54'56", in NW¼NE¼SW¼ sec.6, T.35 S., R.9 W., Iron County, Hydrologic Unit 16030006, on left bank about 900 ft (274 m) upstream from concrete diversion dam, 1.2 mi (1.9 km) south of U.S. Highway 91, and 1.3 mi (2.1 km) southeast of Summit.

DRAINAGE AREA.--24.0 mi^2 (62.2 km^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 (1,924 m) (levels by U.S. Geological Survey). Prior to July 15, 1971, at site 600 ft (183 m) downstream at different datum.

REMARKS.--Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--17 years, 4.17 ft^3/s (0.118 m^3/s), 3,020 acre-ft/yr (3.72 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 858 ft^3/s (24.3 m^3/s) Aug. 6, 1971, gage height, 4.25 ft (1.295 m) from rating curve extended on basis of slope-area measurement of peak flow; minimum, 0.05 ft^3/s (0.001 m^3/s) Feb. 5-7, 1971.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 15 ft^3/s (0.42 m^3/s), and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 25	2230	*39.0	1.104	2.62	0.799
May 27	1700	21.0	0.595	2.52	.768

Minimum, 0.07 ft^3/s (0.002 m^3/s) Jan. 12-13, result of freezeup.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.6	2.3	2.3	2.0	2.0	2.0	17	11	3.7	1.4	1.2
2	2.0	2.3	2.3	2.0	1.7	1.7	2.3	17	10	3.7	1.4	1.2
3	2.0	2.3	2.3	2.0	1.2	1.7	2.0	16	11	3.7	1.4	1.2
4	1.7	2.3	2.6	2.0	.59	1.4	2.0	15	11	3.1	1.2	1.2
5	2.0	2.3	2.9	2.0	.48	1.7	2.0	14	10	3.1	1.2	2.3
6	1.7	2.3	2.9	1.4	.39	1.7	2.6	12	9.8	3.1	.99	3.4
7	1.7	2.3	2.9	2.0	.14	1.7	2.9	11	9.8	3.1	.99	2.3
8	1.7	2.3	2.9	1.4	.19	1.4	2.9	9.8	9.8	2.9	.99	2.0
9	1.7	2.3	2.2	.59	2.0	1.7	3.4	9.2	8.6	2.9	.99	2.9
10	2.0	2.3	1.7	.48	1.4	1.4	4.6	8.6	7.5	2.6	4.6	2.3
11	2.0	2.3	.70	.39	1.7	1.7	5.7	8.6	6.9	2.6	2.9	2.0
12	5.2	2.9	.25	.14	1.4	1.7	5.2	8.1	6.3	4.6	2.6	2.9
13	3.1	3.4	.19	.12	1.4	2.0	5.2	8.1	6.3	4.6	2.6	2.3
14	2.6	2.0	1.2	.99	1.4	1.7	6.3	8.1	6.2	3.4	2.9	2.3
15	2.9	1.7	2.3	2.3	1.4	2.0	6.9	8.1	5.8	2.9	2.6	2.3
16	2.6	1.3	2.3	2.3	1.4	2.0	9.2	9.2	5.4	2.9	2.6	1.7
17	2.6	.99	2.3	2.0	1.4	1.7	12	8.6	5.0	2.9	2.0	1.7
18	2.6	.39	2.0	2.0	1.2	2.0	14	9.8	4.8	2.8	1.7	1.7
19	2.6	.48	2.0	2.0	1.2	1.7	12	9.8	4.6	2.6	1.7	1.7
20	2.6	1.4	2.0	2.0	1.2	1.7	8.6	11	4.6	2.3	1.4	1.7
21	2.6	1.7	2.0	2.0	2.0	1.7	9.2	11	4.6	2.3	2.0	1.7
22	2.6	2.0	2.0	2.3	2.0	2.0	11	12	4.6	2.3	2.0	1.7
23	2.3	2.3	2.0	2.3	2.0	1.7	11	13	4.0	3.8	2.6	1.7
24	2.3	2.3	2.0	2.3	2.0	1.7	14	13	4.0	2.6	2.0	1.7
25	2.3	2.3	2.0	2.3	1.7	1.7	20	13	3.7	2.3	1.7	1.7
26	2.6	2.6	2.0	2.1	1.7	2.0	18	12	3.7	2.0	1.7	1.7
27	2.6	2.3	2.0	2.0	1.7	1.7	17	14	4.0	2.0	1.4	1.4
28	2.6	2.3	2.0	2.0	1.7	1.7	17	14	5.2	2.0	1.4	1.4
29	2.3	2.3	2.0	2.0	---	1.7	17	13	6.3	1.7	1.4	1.4
30	2.6	2.0	1.7	2.3	---	2.0	17	11	5.2	1.7	1.2	1.4
31	2.6	---	2.0	2.1	---	2.0	---	11	---	1.4	1.2	---
TOTAL	74.7	62.26	61.94	54.11	38.59	54.5	263.0	356.0	199.7	87.6	56.76	56.1
MEAN	2.41	2.08	2.00	1.75	1.38	1.76	8.77	11.5	6.66	2.83	1.83	1.87
MAX	5.2	3.4	2.9	2.3	2.0	2.0	20	17	11	4.6	4.6	3.4
MIN	1.7	.39	.19	.12	.14	1.4	2.0	8.1	3.7	1.4	.99	1.2
AC-FT	148	123	123	107	77	108	522	706	396	174	113	111

CAL YR 1980 TOTAL 2098.00 MEAN 5.73 MAX 50 MIN .19 AC-FT 4160
WTR YR 1981 TOTAL 1365.26 MEAN 3.74 MAX 20 MIN .12 AC-FT 2710

10241600 SUMMIT CREEK NEAR SUMMIT, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1980 to August 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	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											
07...	1425	2.0	425	--	15.0	--	--	--	--	--	--
NOV											
13...	1455	2.9	455	--	5.0	--	--	--	--	--	--
DEC											
17...	1350	2.2	465	--	4.5	--	--	--	--	--	--
JAN											
20...	1330	2.0	470	--	4.5	--	--	--	--	--	--
MAR											
18...	1340	1.2	495	--	7.0	--	--	--	--	--	--
APR											
16...	1520	6.0	415	--	14.5	--	--	--	--	--	--
23...	1021	12	385	8.6	5.5	200	--	55	16	5.8	6
MAY											
01...	1200	17	325	--	9.0	--	--	--	--	--	--
28...	1230	12	380	--	11.5	--	--	--	--	--	--
JUN											
19...	1150	4.8	410	--	14.0	--	--	--	--	--	--
JUL											
15...	1230	3.2	390	--	20.0	--	--	--	--	--	--
AUG											
26...	1150	1.6	400	--	17.5	--	--	--	--	--	--
26...	2005	2.3	375	8.4	17.0	190	48	39	22	8.0	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, 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)
OCT											
07...	--	--	--	--	--	--	--	--	--	--	--
NOV											
13...	--	--	--	--	--	--	--	--	--	--	--
DEC											
17...	--	--	--	--	--	--	--	--	--	--	--
JAN											
20...	--	--	--	--	--	--	--	--	--	--	--
MAR											
18...	--	--	--	--	--	--	--	--	--	--	--
APR											
16...	--	--	--	--	--	--	--	--	--	--	--
23...	.2	1.5	190	11	5.3	.2	16	245	--	.33	7.9
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
JUN											
19...	--	--	--	--	--	--	--	--	--	--	--
JUL											
15...	--	--	--	--	--	--	--	--	--	--	--
AUG											
26...	--	--	--	--	--	--	--	--	--	--	--
26...	.3	2.1	140	25	17	.1	21	220	218	.30	1.4

DATE	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
APR	
23...	1.1

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)
APR								
23...	1021	20	380	370	10	20	20	2
AUG								
26...	2005	--	200	--	<10	0	0	2

10242000 COAL CREEK NEAR CEDAR CITY, UTAH

LOCATION.--Lat 37°40'20", long 113°02'02", in SE¼SE¼NE¼ sec.13, T.36 S., R.11 W., Iron County, Hydrologic Unit Unit 16030006, on right bank 600 ft (183 m) downstream from powerplant, 1.2 mi (1.9 km) east of Cedar City, and 3.0 mi (4.8 km) from the mouth of Right Hand Creek.

DRAINAGE AREA.--80.9 mi^2 (209.5 km^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 (1,829 m) 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 (0.8 km) upstream at various datums. May 15, 1945 to Oct. 10, 1951, May 4 to July 2, 1952, water-stage recorder at site 2 mi (3 km) upstream at different datum. July 3, 1952 to Nov. 17, 1967, water-stage recorder at site 600 ft (183 m) 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.--45 years (1935-37, 1938-81), 32.2 ft^3/s (0.912 m^3/s), 23,330 acre-ft/yr (28.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,620 ft^3/s (131 m^3/s) July 23, 1969, gage height, 11.67 ft (3.557 m) 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 (0.008 m^3/s) Nov. 5, 14, 17, 26, 1959, Feb. 17, 1960, Feb. 24, 1961.

EXTREMES FOR CURRENT YEAR.--No peak discharge above base of 550 ft^3/s (15.6 m^3/s); maximum discharge, 376 ft^3/s (10.6 m^3/s) Apr. 30, gage height, 5.29 ft (1.612 m); minimum, 3.6 ft^3/s (0.10 m^3/s) Nov. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	12	11	14	11	13	20	209	105	22	17	17
2	13	12	11	14	10	14	22	220	96	22	17	15
3	13	12	12	14	11	13	18	180	92	20	17	13
4	13	12	14	14	10	12	16	139	82	19	16	13
5	13	12	14	14	10	13	19	122	75	18	11	18
6	13	12	14	12	12	13	28	105	71	18	9.4	40
7	12	11	14	11	12	14	31	89	67	18	9.5	20
8	12	11	13	13	11	12	31	82	63	18	9.7	17
9	12	11	9.0	13	13	12	42	76	58	18	9.7	20
10	12	11	11	14	12	14	52	78	54	18	47	18
11	12	11	13	15	12	14	51	76	51	18	34	16
12	93	15	15	16	13	13	44	76	47	20	16	19
13	20	14	15	15	12	14	43	77	45	23	28	23
14	14	10	13	14	13	15	49	78	43	32	34	20
15	16	8.3	14	14	13	14	58	80	40	20	52	18
16	14	8.3	14	14	13	16	77	78	37	21	33	15
17	14	8.0	14	14	15	15	91	75	35	22	19	16
18	14	8.3	14	14	15	13	130	82	32	19	17	14
19	13	9.4	14	14	14	14	116	75	30	18	16	12
20	13	10	14	14	13	14	82	85	29	18	15	12
21	13	9.7	14	14	12	13	81	85	27	17	16	11
22	12	11	14	12	13	13	93	116	25	17	30	11
23	12	11	14	13	14	17	118	114	25	18	36	11
24	11	10	14	13	13	21	154	99	24	17	20	11
25	12	9.4	14	10	13	22	182	96	23	18	16	10
26	13	11	14	10	14	20	184	97	21	18	21	10
27	13	12	14	13	11	17	158	109	26	18	17	9.7
28	12	12	14	13	12	16	161	139	33	16	19	9.7
29	11	12	14	12	---	16	182	149	27	16	16	9.7
30	12	12	13	12	---	20	217	133	25	16	16	10
31	12	---	14	11	---	16	---	122	---	16	16	---
TOTAL	482	328.4	416.0	410	347	463	2550	3341	1408	589	650.3	459.1
MEAN	15.5	10.9	13.4	13.2	12.4	14.9	85.0	108	46.9	19.0	21.0	15.3
MAX	93	15	15	16	15	22	217	220	105	32	52	40
MIN	11	8.0	9.0	10	10	12	16	75	21	16	9.4	9.7
AC-FT	956	651	825	813	688	918	5060	6630	2790	1170	1290	911

CAL YR 1980 TOTAL 18172.5 MEAN 49.7 MAX 400 MIN 8.0 AC-FT 36050
WTR YR 1981 TOTAL 11443.8 MEAN 31.4 MAX 220 MIN 8.0 AC-FT 22700

RAFT RIVER BASIN

13077700 GEORGE CREEK NEAR YOST, UTAH

LOCATION.--Lat 41°55'07", long 113°28'51", in SE¼SW¼SW¼ sec.20, T.14 N., R.14 W., Box Elder County, Hydrologic Unit 17040201, on right bank 1,000 ft (305 m) upstream from section corner and boundary of Sawtooth National Forest, 4.5 mi (7.2 km) southeast of Yost, 5 mi (8 km) south of Utah-Idaho State line, and 16 mi (26 km) southwest of Strevell, Idaho.

DRAINAGE AREA.--7.84 mi^2 (20.31 km^2).

PERIOD OF RECORD.--July 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,000 ft (2,134 m) from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--22 years, 7.61 ft^3/s (0.216 m^3/s), 5,510 acre-ft/yr (6.79 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 146 ft^3/s (4.13 m^3/s) June 10, 1963, gage height, 1.96 ft (0.597 m); minimum, 1.0 ft^3/s (0.03 m^3/s) July 14-19, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 57 ft^3/s (1.61 m^3/s) May 30, gage height, 1.36 ft (0.415 m); minimum daily, 1.8 ft^3/s (0.051 m^3/s) many days during February-April.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	3.6	2.9	2.4	2.1	1.8	2.0	29	45	6.4	2.8	2.7
2	4.6	3.6	2.9	2.4	2.1	1.8	2.0	31	45	6.7	2.8	2.8
3	4.7	3.4	2.9	2.4	2.1	1.8	1.9	26	42	6.4	2.7	2.7
4	4.8	3.4	2.9	2.4	2.1	1.8	1.8	23	38	5.5	2.9	2.7
5	4.8	3.2	2.8	2.3	2.1	1.9	2.0	21	37	5.1	2.9	2.7
6	4.8	3.4	2.7	2.3	2.1	1.8	2.0	18	38	5.8	2.8	2.7
7	4.8	3.4	2.7	2.2	2.1	1.8	2.0	16	37	5.4	2.7	2.6
8	4.9	3.4	2.6	2.2	2.0	1.8	1.8	14	36	4.8	2.7	2.6
9	4.8	3.0	2.7	2.2	2.0	1.8	1.8	12	33	4.6	2.7	2.5
10	4.5	3.0	2.6	2.2	2.0	1.8	2.1	12	31	4.4	2.7	2.5
11	4.5	3.0	2.7	2.2	2.0	1.9	2.6	12	27	4.2	2.7	2.4
12	4.8	3.2	2.7	2.1	2.0	1.9	2.8	10	24	4.0	2.7	2.4
13	4.8	2.9	2.6	2.1	2.0	1.8	2.9	10	23	3.9	2.9	2.4
14	5.1	2.2	2.6	2.0	2.0	1.8	3.6	11	20	3.9	3.1	2.2
15	5.1	2.4	2.7	2.0	2.0	2.0	6.3	11	17	3.7	3.0	2.4
16	5.1	2.4	2.7	2.1	2.0	2.0	8.0	11	16	3.5	2.9	2.4
17	5.1	2.4	2.7	2.2	2.1	1.8	8.5	10	14	3.6	2.8	2.4
18	5.1	2.6	2.6	2.1	2.0	1.8	10	11	12	3.7	2.8	2.1
19	5.1	2.8	2.5	2.1	2.1	1.8	19	11	12	3.4	2.8	2.1
20	4.8	2.8	2.5	2.1	2.0	2.0	15	13	11	3.2	2.8	2.1
21	4.5	2.8	2.6	2.0	2.0	1.9	12	16	11	3.1	3.0	2.2
22	4.5	2.9	2.6	2.1	2.0	2.0	9.8	16	10	3.0	3.0	2.2
23	3.9	2.9	2.5	2.1	2.0	1.8	11	16	9.8	3.0	2.9	2.2
24	4.2	2.9	2.5	2.1	2.0	2.0	16	16	9.2	2.9	2.9	2.2
25	4.2	2.9	2.8	2.1	2.0	2.0	22	22	8.7	2.9	2.9	2.3
26	4.2	2.9	2.7	2.0	2.0	2.0	22	35	8.2	2.9	2.9	2.5
27	3.6	2.9	2.7	2.1	2.0	2.0	19	41	7.8	3.0	3.0	2.1
28	3.6	2.9	2.5	2.1	1.8	2.0	16	43	7.5	3.0	2.9	2.1
29	3.6	2.9	2.4	2.1	---	2.1	18	41	7.1	2.9	2.9	2.1
30	3.6	2.9	2.4	2.2	---	2.0	23	42	6.5	2.9	2.9	2.1
31	3.6	---	2.4	2.1	---	2.0	---	46	---	2.9	2.7	---
TOTAL	140.4	89.0	82.1	67.0	56.7	58.7	266.9	646	643.8	124.7	88.2	71.4
MEAN	4.53	2.97	2.65	2.16	2.03	1.89	8.90	20.8	21.5	4.02	2.85	2.38
MAX	5.1	3.6	2.9	2.4	2.1	2.1	23	46	45	6.7	3.1	2.8
MIN	3.6	2.2	2.4	2.0	1.8	1.8	1.8	10	6.5	2.9	2.7	2.1
AC-FT	278	177	163	133	112	116	529	1280	1280	247	175	142

CAL YR 1980 TOTAL 5035.0 MEAN 13.8 MAX 104 MIN 1.4 AC-FT 9990
WTR YR 1981 TOTAL 2334.9 MEAN 6.40 MAX 46 MIN 1.8 AC-FT 4630

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other that stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow of flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites now included in the partial-record program. These measurements generally are made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations generally are presented in two tables. However, no records at low-flow partial-record stations are available for the 1981 water year. A table of annual maximum stage and discharge at partial-record stations is given first, followed by a table of measurements made at miscellaneous sites.

Annual maximum discharge at partial-record stations

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
Tributary between Weber and Jordan Basins							
10142000	Farmington Creek near Farmington, Utah	Lat 41°00'05", long 111°52'21", in NE¼NE¼NE¼ sec.18, T.3 N, R.1 E., Davis County, Hydrologic Unit 16020102, on right bank 1.0 mi (1.6 km) northeast of Farmington.	10.0	1949-1981	5-22-81	1.27	76
Bear River basin							
10019700	Whitney Canyon Creek near Evanston, WY	Lat 41°25'42", long 110°58'21", in SE¼NW¼ sec.27, T.17 N., R.120 W., Uinta County, at culvert on dirt road and 11.1 mi (17.9 km) north of Evanston.	8.93	1965-1981	3-27-81	5.23	20

DISCHARGE MEASUREMENTS AT SOUTHERN PACIFIC TRANSPORTATION CO. CAUSEWAY

Compilation of data for flow through the two 15-ft (4.6-m) culverts

Part 10 — Great Salt Lake Basin

Date of Observation	EAST CULVERT Lat 41°13'17", long 112°33'36" 3.2 mi (5.1 km) 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 (13.2 km) 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. 28, 1980	(a) 655	1.096	11.5	(a) 702	1.093	11.5
	(b) 84.0	1.185	12.5	(b) 146	1.186	11.5
Nov. 17	(a) 694	1.093	7.5	(a) 759	1.099	8.0
	(b) 64.7	1.176	8.5	(b) 126	1.169	8.0
Dec. 15	(a) 741	1.084	-1.0	(a) 822	1.098	2.0
	(b) 84.2	1.174	2.5	(b) 121	1.144	2.0
Jan. 15, 1981	(a) 747	1.074	0.0	(a) 805	1.084	3.0
	(b) 158	1.164	2.5	(b) 122	1.144	2.0
Feb. 17	(a) 762	1.087	6.5	(a) 873	1.086	5.5
	(b) 156	1.156	4.5	(b) 130	1.162	4.0
Mar. 16	(a) 803	1.088	9.0	(a) 522	1.088	9.0
	(b) 138	1.168	9.0	(b) 238	1.182	9.5
April 15	(a) 973	1.092	12.5	(a) 923	1.088	13.0
	(b) 83.3	1.158	11.5	(b) 108	1.138	12.5
May 14	(a) 633	1.086	16.0	(a) 652	1.085	16.0
	(b) 133	1.162	15.0	(b) 167	1.158	15.5
June 15	(a) 823	1.087	20.5	(a) 871	1.088	22.0
	(b) 79.6	1.200	20.0	(b) 114	1.156	20.5
July 15	(a) 620	1.085	26.0	(a) 641	1.088	25.0
	(b) 100	1.179	25.5	(b) 158	1.174	25.5
Aug. 17	(a) 492	1.092	27.5	(a) 530	1.093	27.0
	(b) 69.5	1.183	25.0	(b) 148	1.187	25.5
Sept. 14	(a) 408	1.090	25.0	(a) 415	1.098	25.0
	(b) 71.7	1.204	24.0	(b) 125	1.216	24.0

(a) indicates flow from south to north
(b) indicates flow from north to south

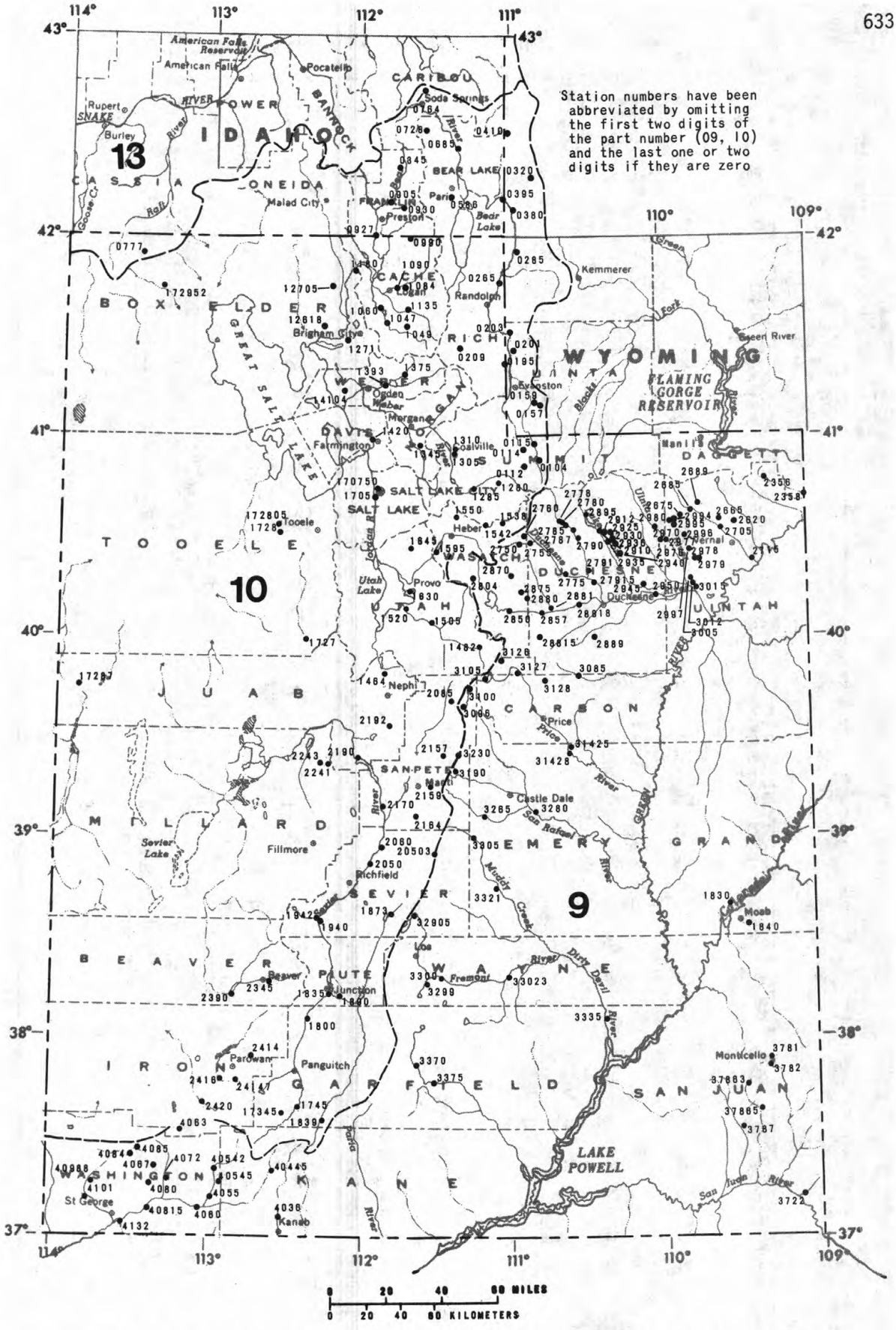

Figure 11.—Location of sites in Utah where data were obtained on the specific conductance of surface water.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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					JUN				
10...	0940	.13	12.0	880	04...	1130	.14	23.0	800
NOV					JUL				
17...	0940	.16	1.0	880	09...	1215	.07	30.0	820
MAR					AUG				
02...	0930	1.1	7.5	850	12	0840	.13	21.5	650
APR					SEP				
10...	0920	1.0	10.0	850	01...	0900	.13	17.5	860
MAY					17...	1005	.11	15.0	910
06...	1220	.14	19.5	830					
09184000 MILL CREEK NEAR MOAB, UT (LAT 38°33'44", LONG 109°30'48")									
OCT					JUN				
10...	1330	6.3	11.5	220	04...	0900	4.6	17.0	210
NOV					10...	0915	12	18.0	200
17...	1100	7.0	2.0	250	JUL				
MAR					09...	0930	9.2	22.0	200
02...	1130	4.4	5.0	180	AUG				
APR					12...	0945	8.0	20.0	195
10...	1230	4.8	17.0	260	SEP				
MAY					01...	1105	9.6	18.0	195
06...	0910	6.6	13.0	200					
GREEN RIVER BASIN									
09235600 POT CREEK ABOVE DIVERSIONS, NEAR VERNAL, UT (LAT 40°46'05", LONG 109°19'06")									
NOV					MAY				
10...	1240	.26	5.5	330	27...	1040	6.1	12.5	160
DEC					JUN				
08...	1145	.27	.5	330	10...	1045	2.1	17.0	130
31...	--	.27	--	--	26...	1200	.19	20.0	195
MAR					JUL				
19...	1545	1.0	.5	260	16...	--	.00	--	--
APR					AUG				
27...	1115	5.6	10.0	105	18...	--	.00	--	--
MAY									
04...	1420	9.2	8.5	130					
09235800 POT CREEK NEAR VERNAL, UT (LAT 40°40'25", LONG 109°03'03")									
OCT					MAY				
24...	1245	.90	4.0	230	04...	1610	.10	18.5	--
NOV					27...	1300	.06	16.0	450
10...	0955	.01	4.0	580	JUN				
DEC					10...	--	.00	--	--
08...	1335	.01	1.0	630	26...	--	.00	--	--
31...	1000	.04	.5	480	JUL				
MAR					16...	--	.00	--	--
19...	1300	.08	4.0	580	AUG				
APR					18...	--	.00	--	--
27...	1320	.01	15.0	500					
09262000 BIG BRUSH CREEK NEAR VERNAL, UT (LAT 40°34'54", LONG 109°26'03")									
OCT					APR				
01...	1030	16	10.0	500	28...	--	72	--	--
NOV					30...	0915	104	5.5	135
10...	1500	16	9.5	600	JUN				
DEC					02...	1230	88	10.0	150
19...	1025	12	6.0	520	19...	0950	50	11.5	190
31...	1505	13	6.5	500	JUL				
FEB					13...	1315	39	15.5	260
19...	0925	12	5.0	540	AUG				
APR					24...	1445	24	16.0	470
01...	1410	12	11.0	560					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

GREEN RIVER BASIN

09266500 ASHLEY CREEK NEAR VERNAL, UT (LAT 40°34'39", LONG 109°37'17")

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					MAY				
08...	1115	41	10.0	165	06...	1140	286	7.0	60
NOV					JUN				
19...	1440	20	7.5	190	08...	1230	217	11.5	66
DEC					19...	1400	92	12.5	97
31...	1430	13	7.5	195	JUL				
MAR					09...	1430	125	14.0	108
06...	1330	12	8.0	--	AUG				
09...	1010	11	7.5	200	24...	1145	57	11.5	135
APR									
13...	1145	20	9.5	185					

09267500 MOSBY CANAL NEAR LAPOINT, UT (LAT 40°36'30", LONG 109°53'00")

OCT					MAY				
16...	1245	3.2	4.0	<50	12...	0830	1.9	.5	<50
NOV					JUN				
04...	1200	3.2	6.5	<50	25...	0830	17	13.0	<50
DEC					JUL				
01...	1245	3.0	2.5	<50	17...	--	14	--	--
JAN					AUG				
09...	--	.00	--	--	19...	0815	7.2	11.0	<50

09268500 NORTH FORK OF DRY FORK NEAR DRY FORK, UT (LAT 49°38'34", LONG 109°48'37")

OCT					MAY				
14...	1245	3.0	5.5	<50	07...	1115	26	2.0	<50
NOV					28...	1000	24	4.5	<50
03...	1200	2.6	4.0	<50	JUN				
17...	1430	2.2	1.0	<50	05...	1030	25	6.0	<50
DEC					15...	1415	21	7.0	<50
17...	1035	1.5	2.0	<50	JUL				
JAN					07...	1045	7.7	11.0	<50
20...	1100	1.1	1.0	<50	AUG				
MAR					17...	1030	3.6	9.0	<50
12...	1000	.76	1.0	<50					
APR									
08...	1000	.61	2.5	<50					

09268900 BROWNIE CANYON ABOVE SINKS, NEAR DRY FORK, UT (LAT 40°39'34", LONG 109°45'01")

OCT					MAY				
14...	1415	5.2	4.5	<50	07...	1530	31	4.0	<50
NOV					28...	1225	41	5.0	<50
03...	1400	3.7	2.0	<50	JUN				
17...	1215	2.3	1.0	<50	05...	1300	48	7.5	<50
DEC					15...	1130	40	4.5	<50
26...	1045	1.4	1.0	<50	JUL				
JAN					07...	1300	11	10.5	<50
20...	--	E1.5	--	<50	AUG				
APR					17...	1400	4.5	10.0	<50
08...	1245	1.3	1.0	<50					

09270500 DRY FORK AT MOUTH, NEAR DRY FORK, UT (LAT 40°31'35", LONG 109°36'18")

OCT					MAY				
07...	1345	1.8	23.0	700	01...	1225	23	16.0	360
NOV					JUN				
04...	1515	2.6	9.0	820	08...	1500	138	17.0	160
DEC					JUL				
31...	1210	2.5	2.0	820	09...	1030	2.7	21.0	540
MAR					AUG				
02...	1320	2.1	2.0	860	14...	1500	.72	23.0	580
APR									
01...	1210	1.7	7.5	920					

E Estimated values.

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT					MAY				
10...	1345	21	13.5	2500	28...	1320	31	17.5	2270
NOV					JUN				
20...	1600	27	3.0	2200	23...	1330	9.2	24.5	2500
DEC					JUL				
31...	0950	21	.5	1900	13...	1030	12	22.0	2350
MAR					AUG				
02...	0940	22	4.5	2240	25...	0900	4.6	19.0	2900
APR									
01...	0925	17	7.5	2400					
29...	1345	9.6	17.5	2550					

09275000 WEST FORK DUCHESNE RIVER BELOW DRY HOLLOW, NEAR HANNA, UT (LAT 40°26'55", LONG 110°58'30")

OCT					MAY				
22...	1105	12	1.0	390	04...	1540	80	8.0	320
DEC					JUN				
10...	1000	16	.0	420	05...	1310	113	10.0	260
JAN					JUL				
29...	1245	8.0	.5	390	23...	1120	14	13.0	385
MAR					AUG				
31...	1415	13	2.0	350	25...	1415	9.5	16.0	355

09275500 WEST FORK DUCHESNE RIVER NEAR HANNA, UT (LAT 40°27'01", LONG 110°53'01")

OCT					MAY				
22...	1420	23	6.0	460	04...	1810	99	8.5	320
DEC					JUN				
10...	1600	26	.0	490	05...	1415	118	13.0	300
JAN					JUL				
29...	1510	18	.5	340	23...	1210	22	16.5	440
MAR					AUG				
31...	1825	22	2.0	360	25...	1850	15	18.5	430

09276000 WOLF CREEK ABOVE RHOADES CANYON, NEAR HANNA, UT (LAT 40°28'16", LONG 110°55'05")

OCT					MAY				
22...	1245	5.7	5.0	300	04...	1705	12	7.5	270
DEC					JUN				
10...	1255	4.6	2.0	300	05...	1120	20	8.0	230
JAN					JUL				
29...	1355	3.4	4.0	300	23...	1310	6.0	11.0	300
MAR					AUG				
31...	1525	2.9	7.5	290	25...	1630	4.7	12.0	285

09277500 DUCHESNE RIVER NEAR TABIONA, UT (LAT 40°18'01", LONG 110°36'06")

OCT					MAY				
20...	1710	139	11.0	540	06...	1550	143	7.0	370
DEC					JUN				
08...	1630	104	3.5	560	03...	1535	921	12.0	200
JAN					JUL				
27...	1510	98	2.5	520	21...	1420	108	18.5	590
APR					AUG				
03...	1110	90	6.0	485	28...	1115	80	15.0	680

09277800 ROCK CREEK ABOVE SOUTH FORK, NEAR HANNA, UT (LAT 40°33'27", LONG 110°41'50")

OCT					MAY				
21...	1015	33	1.0	<50	05...	1210	284	3.0	<50
DEC					JUN				
09...	1003	40	.0	<50	04...	1135	653	4.0	<50
JAN					JUL				
28...	1130	20	.0	<50	22...	1140	70	11.5	<50
APR					AUG				
01...	1045	25	2.0	<50	26...	1100	41	10.5	<50

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT					MAY				
21...	1150	9.5	.0	205	05...	1240	26	2.0	120
DEC					JUN				
09...	1300	4.3	.0	230	04...	1305	48	6.0	130
JAN					JUL				
28...	1215	3.0	.0	235	22...	1415	11	12.0	170
APR					AUG				
01...	1100	2.6	.5	235	26...	1300	6.1	11.0	<50

09278500 ROCK CREEK NEAR HANNA, UT (LAT 40°32'44", LONG 110°39'20")

OCT					MAY				
21...	1325	45	5.0	50	05...	1420	289	3.5	<50
DEC					JUN				
09...	1330	40	.0	73	04...	1525	727	8.0	<50
JAN					JUL				
28...	1405	22	.5	72	22...	1610	85	12.0	51
APR					AUG				
01...	1345	38	3.5	79	26...	1625	53	14.0	62

09278700 ROCK CREEK BELOW MINERS GULCH, NEAR HANNA, UT (LAT 40°31'57", LONG 110°37'22")

OCT					MAY				
21...	1500	44	6.0	61	05...	1750	295	3.0	<50
DEC					JUN				
09...	1540	36	.0	82	04...	1825	784	9.0	<50
JAN					JUL				
28...	1715	22	.0	170	22...	1850	81	15.5	56
APR					AUG				
02...	1145	20	3.5	82	26...	1845	47	14.0	64

09279000 ROCK CREEK NEAR MOUNTAIN HOME, UT (LAT 40°29'36", LONG 110°34'39")

OCT					JUN				
23...	1220	53	2.0	115	05...	2020	926	9.0	60
DEC					JUL				
11...	1100	47	.0	140	23...	1530	105	16.0	87
APR					AUG				
01...	0750	40	1.5	145	27...	1125	66	12.0	110
MAY									
06...	1040	283	2.0	110					

09279100 ROCK CREEK NEAR TALMAGE, UT (LAT 40°18'40", LONG 110°29'36")

OCT					MAY				
22...	1640	84	8.0	210	06...	1250	311	12.0	90
DEC					JUN				
11...	1415	76	.5	270	05...	1755	918	10.0	85
JAN					JUL				
27...	1820	48	.5	305	21...	1845	131	16.5	150
APR					AUG				
02...	1435	51	10.5	295	27...	1425	80	19.0	200

09279150 DUCHESNE RIVER ABOVE KNIGHT DIVERSION, NEAR DUCHESNE, UT
(LAT 40°16'14", LONG 110°26'31")

OCT					MAY				
23...	0930	240	3.0	450	07...	1015	349	12.5	230
DEC					JUN				
11...	1545	184	1.0	800	03...	1855	1530	12.0	150
JAN					JUL				
27...	1700	169	.5	465	21...	1645	190	21.0	360
APR					AUG				
02...	1625	145	12.0	440	27...	1820	125	15.0	440

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT					MAY				
20...	1300	.30	7.0	240	04...	1145	9.1	4.0	70
DEC					JUN				
08...	1130	.28	.0	170	03...	1045	7.5	9.0	85
JAN					JUL				
27...	1010	.24	.0	200	21...	1145	.18	14.0	205
MAR					AUG				
31...	0955	.39	.0	210	25...	1000	.16	12.5	220

09285000 STRAWBERRY RIVER NEAR SOLDIER SPRINGS, UT (LAT 40°08'00", LONG 111°01'27")

OCT					MAY				
20...	1510	11	8.0	450	05...	1400	18	5.5	450
JAN					JUL				
19...	1425	18	4.0	470	06...	1505	21	8.0	430

09285700 STRAWBERRY RIVER ABOVE RED CREEK, NEAR FRUITLAND, UT
(LAT 40°07'01", LONG 110°48'27")

OCT					JUN				
22...	1345	42	7.0	600	02...	1435	57	12.0	600
DEC					JUL				
02...	1250	37	3.0	620	07...	1525	42	19.0	620
JAN					AUG				
20...	1520	40	4.0	610	13...	1525	47	11.5	610
MAR					SEP				
10...	1305	36	4.5	620	16...	1610	42	15.5	500
MAY									
06...	1950	59	9.0	610					

09287000 CURRANT CREEK BELOW RED LEDGE HOLLOW, NEAR FRUITLAND, UT
(LAT 40°19'27", LONG 111°02'43")

OCT					JUN				
20...	1715	14	7.5	460	01...	1640	36	14.5	385
DEC					JUL				
01...	1700	11	1.0	510	06...	1755	12	19.0	450
JAN					AUG				
19...	1730	11	1.5	530	10...	1530	3.7	17.0	560
MAR					SEP				
09...	1710	12	3.5	510	15...	1845	5.4	18.0	510
MAY									
05...	1805	43	8.0	350					

09287500 WATER HOLLOW NEAR FRUITLAND, UT (LAT 40°14'30", LONG 110°58'48")

OCT					JUN				
24...	1240	1.0	.5	600	01...	1905	.36	19.0	680
DEC					JUL				
01...	1525	1.0	.0	630	10...	1220	.48	19.0	600
JAN					AUG				
19...	1625	.94	.0	630	10...	1920	.45	16.0	600
MAR					SEP				
09...	1515	.79	5.0	590	15...	1950	.23	17.0	610
MAY									
05...	1605	.70	13.0	650					

09288000 CURRANT CREEK NEAR FRUITLAND, UT (LAT 40°12'01", LONG 110°54'25")

OCT					JUN				
24...	1115	38	2.0	460	04...	1420	52	16.0	440
DEC					JUL				
05...	1125	37	2.0	480	10...	1400	23	18.0	500
JAN					AUG				
22...	1330	38	2.5	530	11...	1650	19	14.0	520
MAR					SEP				
12...	1500	35	5.5	510	18...	1505	21	16.0	520
MAY									
08...	1635	56	9.5	440					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

GREEN RIVER BASIN

09288100 RED CREEK BELOW CURRANT CREEK, NEAR FRUITLAND, UT (LAT 40°08'47", LONG 110°45'09")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
22...	1145	45	6.0	560
DEC				
02...	1050	40	.0	590
JAN				
20...	1225	53	.0	590
MAR				
10...	1040	38	2.5	610
MAY				
06...	1235	63	9.0	540
JUN				
02...	1120	57	13.0	600
JUL				
07...	1315	26	23.0	680
AUG				
11...	1940	17	16.0	720
SEP				
16...	1420	24	19.0	700

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)
OCT				
22...	1650	3.8	8.0	540
DEC				
02...	1435	1.7	5.0	630
JAN				
20...	1650	2.0	6.0	630
MAR				
20...	1450	1.7	8.0	620
MAY				
06...	1720	24	10.0	490
JUN				
02...	1705	40	9.0	440
JUL				
07...	1955	6.6	18.0	530
AUG				
13...	1300	4.9	12.5	560
SEP				
16...	1810	2.4	15.0	590

09288180 STRAWBERRY RIVER NEAR DUCHESNE, UT (LAT 40°09'17", LONG 110°33'15")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
23...	1650	98	7.0	700
DEC				
02...	1740	78	1.5	780
JAN				
20...	1025	95	.0	780
MAR				
10...	1750	89	8.5	790
MAY				
08...	1415	148	10.0	740
JUN				
02...	2040	182	12.5	720
JUL				
08...	1740	58	24.5	900
AUG				
13...	1815	71	16.5	920
SEP				
18...	1220	74	15.0	790

09288900 SOWERS CREEK NEAR DUCHESNE, UT (LAT 39°59'22", LONG 110°27'33")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
23...	1300	6.2	3.0	1160
DEC				
04...	1205	4.0	2.5	1300
JAN				
22...	1125	1.7	.0	1550
MAR				
12...	1220	2.8	5.0	1330
MAY				
08...	1135	2.7	4.0	1340
JUN				
04...	1130	2.6	12.0	1350
JUL				
08...	1235	1.4	18.5	1260
AUG				
11...	1140	1.1	12.0	1200
SEP				
16...	1115	1.2	10.0	1300

09289500 LAKE FORK RIVER ABOVE MOON LAKE, NEAR MOUNTAIN HOME, UT (LAT 40°36'24", LONG 110°31'35")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
06...	1425	35	9.0	<50
NOV				
10...	1355	28	4.0	<50
DEC				
09...	1330	39	.5	<50
JAN				
06...	1300	32	.5	<50
MAR				
11...	1200	29	.5	<50
MAY				
04...	1110	240	5.0	<50
JUN				
03...	0955	472	4.5	<50
16...	1020	212	5.0	<50
JUL				
21...	1115	66	11.5	<50
AUG				
25...	1220	58	12.5	<50

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

GREEN RIVER BASIN

09291000 LAKE FORK RIVER BELOW MOON LAKE, NEAR MOUNTAIN HOME, UT
(LAT 40°33'23", LONG 110°29'02")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
06...	1725	108	10.5	<50
07...	0800	174	10.5	<50
NOV				
10...	--	.00	--	--
DEC				
09...	--	.00	--	--
JAN				
06...	--	.00	--	--
MAR				
11...	--	.00	--	--
MAY				
04...	1530	237	5.5	<50
JUN				
03...	1320	145	9.5	<50
16...	1315	255	9.0	<50
JUL				
21...	0915	324	14.5	<50
AUG				
25...	1450	135	14.0	<50

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				
07...	1050	92	10.0	--
NOV				
24...	1530	9.9	2.0	305
DEC				
22...	1410	9.5	3.5	340
MAR				
09...	1330	7.6	5.0	360
APR				
14...	1200	7.4	13.0	370
MAY				
05...	1050	133	7.5	61
JUN				
03...	1450	19	15.5	200
16...	1620	187	16.5	56
JUL				
21...	1115	241	15.5	<50
AUG				
26...	1045	63	14.0	100

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				
07...	1400	76	11.5	87
NOV				
24...	1245	58	3.0	100
DEC				
22...	1200	44	3.0	105
MAR				
09...	1130	45	3.0	120
APR				
14...	1015	51	6.0	115
MAY				
05...	0900	182	5.0	<50
JUN				
04...	0825	457	10.0	<50
17...	0840	261	8.0	<50
JUL				
21...	1350	104	17.0	66
AUG				
26...	0850	112	10.5	<50

09293000 YELLOWSTONE RIVER AT MOUTH, NEAR MOUNTAIN HOME, UT (LAT 40°26'39", LONG 110°21'49")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
07...	1600	9.3	16.5	110
NOV				
25...	1130	50	.0	100
DEC				
23...	1150	52	1.0	120
MAR				
09...	1415	43	4.5	120
APR				
14...	1400	48	13.0	125
MAY				
05...	1340	99	12.0	56
JUN				
08...	1145	602	9.5	<50
17...	1045	124	10.0	<50
JUL				
21...	1630	16	22.0	<50
AUG				
26...	1335	101	16.0	65

09293500 LAKE FORK RIVER NEAR ALTONAH, UT (LAT 40°26'13", LONG 110°21'49")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
07...	1900	49	13.5	90
NOV				
25...	1415	79	.0	120
DEC				
23...	1355	62	2.5	140
MAR				
09...	1600	53	5.5	180
APR				
14...	1545	12	14.5	170
MAY				
05...	1420	165	12.0	64
JUN				
04...	1345	224	11.0	<50
17...	1230	159	14.0	54
JUL				
21...	1605	161	20.0	<50
AUG				
26...	1420	113	18.0	100

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

GREEN RIVER BASIN

09293600 LAKE FORK RIVER NEAR ALTAMONT, UT (LAT 40°21'28", LONG 110°18'46")

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					MAY				
10...	1200	11	11.5	145	15...	1115	29	10.5	120
DEC					JUN				
01...	1130	9.1	.0	350	08...	1245	131	13.0	52
30...	1345	56	2.0	180	17...	1215	28	15.0	90
MAR					JUL				
04...	1115	4.4	2.5	490	14...	1450	27	21.0	75
APR					AUG				
09...	1230	3.1	11.5	530	20...	--	17	--	--

09294000 LAKE FORK RIVER NEAR UPALCO, UT (LAT 40°15'30", LONG 110°13'18")

OCT					MAY				
09...	1515	E1.0	18.5	590	15...	1230	E1.0	17.0	620
NOV					JUN				
21...	1545	10	1.5	720	11...	--	E.10	--	--
DEC					JUL				
30...	1530	68	2.5	370	14...	1240	E.20	29.0	800
MAR					AUG				
04...	1400	1.4	8.5	970	20...	1210	E.08	24.5	530
APR									
09...	1345	E.50	18.0	2000					

09294500 LAKE FORK RIVER NEAR MYTON, UT (LAT 40°12'32", LONG 110°06'59")

OCT					MAY				
09...	1400	41	14.5	1420	15...	1335	40	14.5	1630
NOV					JUN				
21...	1350	20	2.0	1750	11...	1230	26	20.0	1250
JAN					JUL				
08...	1155	61	.5	600	14...	1155	23	21.0	1310
MAR					AUG				
04...	1600	18	7.5	1850	20...	1010	20	19.0	2000
APR									
09...	1530	20	14.5	6000					

09295000 DUCHESNE RIVER AT MYTON, UT (LAT 40°12'01", LONG 110°03'47")

OCT					MAY				
09...	1000	58	14.0	1450	27...	0905	111	15.0	1520
NOV					JUN				
21...	1130	297	1.5	850	04...	1040	1320	12.0	340
JAN					17...	1430	207	19.0	780
07...	1150	261	1.0	850	JUL				
FEB					14...	0900	62	20.5	1290
25...	0845	22	2.5	1940	AUG				
MAR					18...	0900	34	18.5	1260
27...	1215	135	8.5	950					
APR									
28...	0910	55	11.5	1860					

09297000 UINTA RIVER NEAR NEOLA, UT (LAT 40°32'08", LONG 110°03'46")

OCT					MAY				
09...	1300	97	9.5	<50	13...	1030	162	4.0	<50
NOV					JUN				
06...	1230	87	6.0	50	10...	0915	922	9.0	<50
DEC					18...	0840	280	8.0	<50
24...	--	64	--	--	JUL				
MAR					07...	1015	272	13.0	<50
04...	1245	54	2.0	59	AUG				
APR					17...	1110	150	12.5	<50
09...	1140	49	6.5	<50					

E Estimated values.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

GREEN RIVER BASIN

09297600 WEST CHANNEL UINTA RIVER BELOW DIVERSION WORKS, NEAR WHITEROCKS, UT
(LAT 40°27'39", LONG 109°57'00")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
02...	1130	34	12.0	<50
DEC				
01...	1500	12	1.0	65
24...	1100	20	.5	60
MAR				
02...	1130	12	2.0	65
APR				
13...	0940	22	9.0	63
MAY				
07...	1430	53	11.0	65
JUN				
02...	0915	148	7.5	<50
16...	1515	108	12.5	<50
JUL				
09...	1210	72	19.5	<50
AUG				
14...	1300	69	16.5	<50

09297700 EAST CHANNEL UINTA RIVER BELOW DIVERSION WORKS, NEAR WHITEROCKS, UT
(LAT 40°28'19", LONG 109°57'18")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
02...	1325	.78	14.5	<50
DEC				
03...	1130	32	2.5	60
MAR				
03...	1030	13	1.0	68
APR				
13...	1130	.21	12.0	63
MAY				
07...	1200	1.4	9.0	<50
JUN				
02...	1120	223	10.0	<50
16...	1230	3.1	13.0	<50
JUL				
09...	1040	1.9	19.0	<50
AUG				
19...	1220	1.1	17.5	<50

09297800 EAST CHANNEL UINTA RIVER AT COUNTY ROAD BRIDGE, NEAR WHITEROCKS, UT
(LAT 40°27'18", LONG 109°56'09")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
03...	1015	20	10.5	265
NOV				
03...	1200	47	5.5	140
DEC				
24...	1345	37	2.5	140
FEB				
27...	1130	29	3.0	165
APR				
07...	1055	12	6.5	295
MAY				
07...	1130	18	8.5	200
JUN				
02...	1310	218	11.5	<50
10...	1140	306	13.0	<50
16...	1045	42	11.0	145
JUL				
09...	0830	33	17.0	190
AUG				
19...	1045	21	16.5	240

09297900 EAST CHANNEL UINTA RIVER AT LAPOINT ROAD, NEAR LAPOINT, UT
(LAT 40°24'13", LONG 109°52'31")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
02...	1430	E.10	18.5	380
NOV				
03...	1445	49	6.5	180
JAN				
05...	1100	58	2.5	160
FEB				
27...	0900	39	1.0	180
APR				
07...	0845	16	7.0	285
MAY				
07...	1630	26	14.0	150
JUN				
02...	1505	226	14.0	<50
15...	1630	38	16.5	90
JUL				
09...	1545	18	23.0	--
AUG				
19...	1350	30	20.0	130

09298000 FARM CREEK NEAR WHITEROCKS, UT (LAT 40°34'03", LONG 109°57'39")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
09...	1030	3.4	7.0	360
NOV				
06...	1015	3.4	6.0	360
JAN				
08...	1055	3.3	8.5	--
MAR				
03...	1330	3.4	5.0	320
APR				
09...	1400	3.1	11.0	335
MAY				
13...	1245	14	6.0	180
JUN				
09...	1615	12	13.0	200
JUL				
07...	1250	4.6	13.0	290
AUG				
17...	1345	3.5	12.5	310

E Estimated values.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

GREEN RIVER BASIN

09299400 WHITEROCKS RIVER BELOW DAMSITE, NEAR WHITEROCKS, UT
(LAT 40°35'13", LONG 109°55'37")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
23...	1515	61	5.0	<50
NOV				
24...	1440	34	1.5	58
DEC				
23...	1015	29	1.0	--
MAR				
02...	1115	23	2.0	70
APR				
10...	1000	27	4.0	65
MAY				
06...	1040	--	5.5	<50
JUL				
02...	1100	150	12.5	<50
AUG				
13...	0955	140	12.5	<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				
27...	1030	57	3.0	60
NOV				
24...	1230	37	2.0	68
DEC				
23...	1300	30	1.5	--
JAN				
19...	1340	25	1.0	100
MAR				
02...	1345	24	1.5	90
APR				
10...	1130	30	6.5	92
MAY				
06...	1200	272	6.5	50
JUN				
05...	1325	347	12.5	<50
15...	1220	210	8.5	<50
JUL				
06...	1100	146	13.5	<50
AUG				
13...	1135	140	13.0	<50

09299600 WHITEROCKS RIVER BELOW FARM CREEK CANAL, NEAR WHITEROCKS, UT
(LAT 40°31'57", LONG 109°55'21")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
03...	1230	30	10.5	60
NOV				
05...	1200	36	6.0	75
DEC				
23...	1500	28	1.5	--
MAR				
03...	1230	16	1.0	90
APR				
10...	1410	16	9.0	98
MAY				
06...	1500	186	7.5	<50
JUN				
05...	1110	251	9.0	<50
15...	1305	150	10.0	<50
JUL				
06...	1320	95	17.0	<50
AUG				
13...	1255	108	14.5	<50

09299700 WHITEROCKS RIVER AT WHITEROCKS, UT (LAT 40°28'02", LONG 109°54'48")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
28...	1315	4.3	9.0	75
NOV				
05...	1030	2.2	11.0	100
DEC				
05...	1130	20	3.5	85
24...	--	15	--	--
JAN				
08...	1235	13	1.5	--
MAR				
02...	1345	.86	5.0	--
MAY				
07...	0955	22	6.0	62
JUN				
04...	1610	106	15.5	<50
15...	1445	60	15.0	<50
JUL				
02...	1300	42	19.0	<50
AUG				
14...	1010	51	15.0	<50

09300500 UINTA RIVER AT FORT DUCHESNE, UT (LAT 40°18'07", LONG 109°51'09")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
10...	1430	4.9	15.5	1250
NOV				
26...	1445	16	2.0	750
JAN				
05...	1230	45	2.5	700
20...	1335	109	.0	--
FEB				
25...	1330	34	5.0	650
MAR				
25...	1255	4.7	9.5	1270
APR				
28...	1320	1.5	15.5	1520
MAY				
27...	1120	27	17.0	770
JUN				
03...	1420	208	7.0	340
05...	1550	77	22.5	--
11...	1200	224	18.0	205
18...	1050	14	16.0	900
JUL				
14...	1020	17	24.0	670
AUG				
18...	1310	2.5	23.5	620

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

GREEN RIVER BASIN

09301200 DRY GULCH NEAR FORT DUCHESNE, UT (LAT 40°14'20", LONG 109°51'06")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
16...	1415	211	8.0	2200
DEC				
03...	1445	60	3.0	2000
JAN				
05...	1415	38	3.0	2450
FEB				
26...	1245	27	5.0	3070
APR				
02...	1010	29	8.0	2940
28...	1410	18	19.5	3150
MAY				
27...	1325	53	20.0	2500
JUN				
05...	1430	132	20.5	1510
11...	1415	115	22.5	1400
18...	1235	59	17.0	1660
JUL				
14...	1230	28	25.0	2350
AUG				
18...	1120	23	19.0	2500

09301500 UINTA RIVER AT RANDLETT, UT (LAT 40°14'01", LONG 109°48'11")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
16...	1230	252	8.0	2000
DEC				
04...	1245	87	2.0	1500
JAN				
16...	1140	60	.5	1210
FEB				
26...	0845	62	3.0	1890
MAR				
27...	1615	32	9.0	--
APR				
29...	0845	22	14.5	3150
MAY				
28...	0830	65	16.0	1960
JUN				
03...	1705	316	19.5	840
05...	1305	176	20.5	1310
12...	1030	195	20.5	1050
24...	0950	27	20.5	2400
JUL				
23...	1355	20	24.0	--
AUG				
24...	0945	25	18.5	2730

09308500 MINNIE MAUD CREEK NEAR MYTON, UT (LAT 39°48'10", LONG 110°35'00")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
09...	1120	2.5	20.0	790
NOV				
26...	1000	1.5	.0	790
JAN				
13...	0955	.42	.0	830
APR				
14...	1335	9.6	13.0	590
MAY				
14...	0930	7.0	5.0	530
JUN				
17...	1020	3.4	12.5	770
JUL				
16...	1000	1.5	16.5	780
AUG				
07...	1200	.84	22.0	850
SEP				
17...	0920	1.1	17.5	640

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)
MAY				
05...	--	.67	--	285
JUL				
15...	2045	12	17.5	275
AUG				
05...	1645	12	22.5	225
SEP				
10...	1110	7.2	12.5	160

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)
DEC				
02...	1130	4.3	.5	175
FEB				
06...	1310	5.3	.0	375
APR				
28...	1500	65	3.5	--
JUN				
09...	1700	31	17.0	325
JUL				
15...	1850	6.5	21.0	160
AUG				
05...	1845	3.3	22.5	145
SEP				
10...	1320	6.3	15.0	135

09310500 FISH CREEK ABOVE RESERVOIR, NEAR SCOFIELD, UT (LAT 39°46'28", LONG 111°11'25")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
08...	1530	12	14.0	300
NOV				
25...	1015	20	.0	290
JAN				
14...	1035	8.8	.0	410
FEB				
06...	1535	11	.0	365
APR				
13...	1325	28	8.0	370
27...	1340	134	6.0	305
MAY				
13...	1255	93	9.0	340
JUN				
16...	1430	49	16.0	320
JUL				
15...	1455	14	22.5	315
AUG				
06...	1350	6.2	20.5	290

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

GREEN RIVER BASIN

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)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT					MAY				
08...	1315	5.1	12.0	600	13...	1550	24	12.5	500
NOV					JUN				
24...	1300	4.9	1.0	580	16...	1245	24	14.0	475
JAN					JUL				
14...	1225	4.6	.0	600	15...	1305	8.2	29.5	650
MAR					AUG				
16...	1400	9.7	3.0	600	06...	1145	1.8	21.5	530
APR									
13...	1450	25	10.5	500					

09312700 BEAVER CREEK NEAR SOLDIER SUMMIT, UT (LAT 39°49'50", LONG 110°58'07")

OCT					MAY				
08...	1125	.08	12.0	540	13...	1750	.28	18.0	485
NOV					JUN				
24...	1400	.17	.0	550	16...	1200	.09	17.0	540
JAN					JUL				
14...	1340	.04	.0	550	15...	1140	.03	26.0	550
MAR					AUG				
16...	1500	.10	2.0	550	06...	1100	E.01	15.0	550
APR									
13...	1645	1.8	13.5	375					

09312800 WILLOW CREEK NEAR CASTLE GATE, UT (LAT 39°46'37", LONG 110°47'30")

OCT					MAY				
08...	1040	3.0	6.5	1000	15...	0850	6.6	7.0	840
NOV					JUN				
24...	1440	1.9	.0	970	18...	0930	3.8	10.0	820
JAN					JUL				
14...	1500	1.4	.0	1210	17...	0915	2.1	14.5	960
MAR					AUG				
16...	1635	10	5.0	740	06...	0940	.66	10.5	990
APR									
14...	0910	10	2.0	520					

09314250 PRICE RIVER BELOW MILLER CREEK, NEAR WELLINGTON, UT
(LAT 39°26'59", LONG 110°37'08")

OCT					JUN				
07...	1400	32	17.5	4490	17...	1430	29	25.5	2900
NOV					JUL				
25...	1500	32	1.0	3100	16...	1400	37	25.5	2800
JAN					23...	1400	19	27.0	2850
13...	1240	29	.5	3140	AUG				
MAR					05...	1425	27	27.5	2650
18...	1220	30	8.0	3000	SEP				
APR					17...	1600	20	25.0	3900
14...	1635	42	18.0	2990					
MAY									
14...	1415	31	19.0	2920					

09314280 DESERT SEEP WASH NEAR WELLINGTON, UT (LAT 39°25'16", LONG 110°38'44")

OCT					MAY				
07...	1500	28	17.0	3430	14...	1240	23	15.0	2770
NOV					JUN				
25...	1330	18	1.0	4790	17...	1300	13	21.5	2900
JAN					JUL				
13...	1435	20	.5	5320	16...	1215	17	22.5	3140
MAR					AUG				
18...	1010	22	5.5	5000	07...	0928	3.0	19.5	4670
APR					SEP				
23...	1430	18	19.0	4970	17...	1430	14	25.0	4510

E Estimated.

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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									
09319000 EPHRAIM TUNNEL NEAR EPHRAIM, UT (LAT 39°19'47", LONG 111°25'51")									
FEB					JUL				
06...	--	.00	--	--	15...	1200	2.3	13.0	335
MAY					AUG				
06...	1050	21	2.0	385	06...	1600	.49	17.0	280
JUN					20...	1845	.18	13.0	285
09...	1315	50	11.5	235					
09323000 SPRING CITY TUNNEL NEAR SPRING CITY, UT (LAT 39°25'34", LONG 111°21'51")									
APR					AUG				
28...	1215	2.9	2.5	270	06...	1820	1.5	17.5	295
JUN									
08...	1305	35	8.0	215					
09326500 FERRON CREEK (UPPER STATION) NEAR FERRON, UT (LAT 39°06'15", LONG 111°12'47")									
OCT					MAY				
15...	1230	25	6.5	500	14...	0925	99	4.5	350
NOV					JUN				
25...	1010	12	.0	540	17...	1025	99	11.0	380
JAN					JUL				
15...	1130	11	.0	580	16...	1230	29	19.0	440
MAR					AUG				
17...	1015	9.9	1.0	550	06...	1005	16	14.0	450
APR					SEP				
14...	1005	29	4.5	420	16...	1320	15	16.0	450
09328000 SAN RAFAEL RIVER NEAR CASTLE DALE, UT (LAT 39°08"37", LONG 111°53'50")									
OCT					MAY				
14...	1320	110	11.0	3350	13...	1410	23	17.0	4580
DEC					JUN				
03...	1300	64	4.5	3610	16...	1440	38	22.0	2900
JAN					JUL				
12...	1330	58	.0	3350	15...	1600	40	27.0	2780
MAR					AUG				
16...	1425	49	8.0	4880	05...	1500	5.3	28.0	4270
APR									
13...	1445	29	17.0	3600					
DIRTY DEVIL RIVER BASIN									
09329050 SEVEN MILE CREEK NEAR FISH LAKE, UT (LAT 38°37'40", LONG 111°38'50")									
OCT					JUN				
07...	1445	11	10.0	115	22...	--	8.8	--	125
31...	1500	12	4.0	--	JUL				
JAN					16...	0925	6.9	10.0	125
21...	--	7.9	--	120	SEP				
APR					02...	1055	6.4	9.5	115
28...	1245	47	5.0	110					
MAY									
28...	1110	22	5.5	120					
09330000 FREMONT RIVER NEAR BICKNELL, UT (LAT 38°18'25", LONG 111°31'03")									
OCT					JUN				
07...	1130	64	9.0	500	09...	1230	49	17.0	490
DEC					23...	1030	49	--	475
08...	1400	76	3.0	430	JUL				
JAN					16...	1110	54	16.0	530
22...	1230	75	2.0	500	SEP				
MAR					01...	1230	58	--	475
24...	0900	88	6.5	540					
APR									
28...	1505	88	10.0	350					

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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									
09330230 FREMONT RIVER NEAR CAINEVILLE, UT (LAT 38°16'40", LONG 111°04'00")									
OCT					JUN				
07...	0830	45	11.0	750	09...	1130	10	19.0	880
DEC					23...	0905	20	18.0	670
08...	1605	79	3.0	600	JUL				
JAN					16...	1305	38	19.0	870
22...	1030	85	1.0	570	SEP				
MAR					02...	0750	41	15.5	--
24...	1300	82	13.5	620	02...	0830	41	15.5	--
APR									
29...	0840	49	9.0	540					
09330500 MUDDY CREEK NEAR EMERY, UT (LAT 38°58'55", LONG 111°14'55")									
OCT					MAY				
16...	1005	32	3.0	365	15...	0945	37	5.5	355
NOV					JUN				
26...	1000	12	.0	450	18...	1020	51	10.0	320
JAN					JUL				
16...	1020	7.1	.0	430	17...	0940	27	--	360
MAR					AUG				
18...	1010	7.3	.0	420	07...	1030	34	13.5	350
APR									
15...	1020	29	6.5	370					
09332100 MUDDY CREEK BELOW INTERSTATE 70, NEAR EMERY, UT (LAT 38°48'44", LONG 111°11'53")									
OCT					MAY				
16...	1200	16	7.0	3280	15...	1130	2.6	14.0	1800
NOV					JUN				
26...	1210	27	.0	3500	18...	1230	4.0	22.0	2100
JAN					JUL				
16...	1200	16	.0	2460	17...	1200	2.9	24.0	3460
MAR					AUG				
18...	1215	7.8	4.0	2600	07...	1230	2.0	24.0	4300
APR					SEP				
10...	0940	30	8.0	1370	16...	1440	6.4	25.0	3450
09333500 DIRTY DEVIL RIVER ABOVE POISON SPRING WASH, NEAR HANKSVILLE, UT (LAT 38°05'50", LONG 110°24'27")									
OCT					APR				
07...	1600	52	21.0	2500	08...	1330	106	16.5	1710
NOV					MAY				
13...	1245	99	9.5	2060	06...	1240	47	18.0	3150
DEC					JUN				
10...	1610	105	1.5	1860	02...	1235	61	23.0	2650
JAN					JUL				
23...	1540	128	3.0	--	07...	1135	8.9	26.0	4070
MAR					AUG				
11...	1000	132	8.5	2150	03...	1320	.00	--	--
ESCALANTE RIVER BASIN									
09337000 PINE CREEK NEAR ESCALANTE, UT (LAT 37°51'45", LONG 111°38'07")									
OCT					MAY				
06...	1715	3.5	14.0	345	19...	1240	5.1	11.0	375
DEC					JUN				
01...	1415	4.1	.5	310	24...	0835	9.3	14.0	225
JAN					JUL				
14...	1410	5.6	.5	330	15...	1010	6.3	15.0	310
MAR					SEP				
24...	1255	3.3	8.5	375	03...	1240	2.6	16.0	370
APR									
21...	1215	9.0	7.0	--					

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
ESCALANTE RIVER BASIN									
09337500 ESCALANTE RIVER NEAR ESCALANTE, UT (LAT 37°46'41", LONG 111°34'26")									
OCT					MAY				
06...	1430	7.6	20.0	1100	19...	1125	4.9	12.0	1560
DEC					JUN				
01...	1210	9.3	--	980	24...	0945	3.6	16.0	1630
JAN					JUL				
14...	1215	15	1.5	870	15...	1205	13	23.0	890
MAR					SEP				
24...	1130	6.9	11.0	1120	03...	1015	7.5	14.5	1120
APR									
21...	1045	13	11.0	--					
09372200 McELMO CREEK NEAR BLUFF, UT (LAT 37°13'00", LONG 109°11'00")									
OCT					JUN				
03...	1200	40	18.5	2760	02...	1215	121	22.0	1920
27...	1200	48	8.0	3500	JUL				
NOV					22...	1040	94	23.5	1730
13...	1450	49	12.0	2850	AUG				
MAR					28...	0945	13	19.0	2860
09...	1150	41	10.0	2920					
APR									
22...	0940	7.8	15.0	3200					
SAN JUAN RIVER BASIN									
09378100 NORTH CREEK ABOVE RANGER STATION, NEAR MONTICELLO, UT (LAT 37°52'23", LONG 109°21'57")									
OCT					JUN				
02...	1030	.00	--	--	03...	1415	.13	10.5	800
28...	--	.00	--	--	JUL				
NOV					21...	1540	.00	--	--
14...	1400	.00	--	--	AUG				
MAR					27...	0950	.00	--	--
09...	1500	E.01	5.0	200					
APR									
21...	1610	.06	7.0	960					
09378200 MONTEZUMA CREEK AT GOLF COURSE, AT MONTICELLO, UT (LAT 37°51'38", LONG 109°20'30")									
OCT					JUN				
02...	0935	.00	--	--	03...	1310	.10	17.0	750
28...	--	.00	--	--	JUL				
NOV					21...	1440	.09	28.0	800
14...	1330	.00	--	--	AUG				
MAR					27...	1040	.23	19.0	440
09...	1430	.00	--	--					
APR									
21...	1530	.67	16.0	410					
09378630 RECAPTURE CREEK NEAR BLANDING, UT (LAT 37°45'20", LONG 109°28'33")									
OCT					JUN				
02...	1440	.00	--	--	10...	1440	.18	23.0	--
NOV					JUL				
14...	1145	E.01	3.0	200	21...	1150	.03	22.0	220
APR					AUG				
21...	1120	1.8	8.5	460	27...	1145	.01	19.5	240
JUN									
03...	1115	.47	11.0	250					
09378650 RECAPTURE CREEK BELOW JOHNSON CREEK, NEAR BLANDING, UT (LAT 37°40'51", LONG 109°27'43")									
OCT					JUN				
02...	1530	.00	--	--	03...	0945	.04	14.5	520
NOV					JUL				
14...	1300	.00	--	--	21...	1300	.00	--	--
MAR					AUG				
10...	0930	.00	--	--	27...	1135	.00	--	--
APR									
21...	1300	3.1	18.0	270					

E Estimated.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

SAN JUAN RIVER BASIN

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				
03...	1343	.00	--	--
NOV				
14...	0920	3.5	5.0	540
MAR				
10...	1050	5.3	7.0	540
APR				
22...	1315	6.9	22.0	610
JUN				
02...	1450	3.8	28.0	520
JUL				
22...	1325	.14	31.0	680
AUG				
27...	1415	.29	29.5	245

09403600 KANAB CREEK NEAR KANAB, UT (LAT 37°06'01", LONG 112°33'09")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
13...	1430	12	17.0	910
NOV				
21...	1240	15	3.0	560
JAN				
02...	1255	18	8.5	850
27...	1210	17	1.0	560
MAR				
19...	1340	17	8.0	980
APR				
15...	1255	10	24.0	560
MAY				
18...	1310	8.0	21.5	490
JUN				
11...	1130	4.5	23.0	490
JUL				
14...	1305	8.2	30.0	485
AUG				
12...	1225	12	22.0	800
SEP				
09...	1230	18	--	630

VIRGIN RIVER BASIN

09404450 EAST FORK VIRGIN RIVER NEAR GLENDALE, UT (LAT 37°20'19", LONG 112°36'13")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
03...	1140	22	8.0	580
NOV				
18...	1700	21	4.5	435
JAN				
02...	1025	22	4.0	560
MAR				
19...	1050	23	--	530
APR				
15...	1005	21	9.5	510
JUN				
11...	1335	14	17.5	540
JUL				
14...	1045	13	15.0	490
AUG				
12...	1025	14	12.5	520
20...	1000	12	13.5	500
SEP				
09...	1230	14	13.0	500

09405420 NORTH FORK VIRGIN RIVER BELOW BULLOCK CANYON, NEAR GLENDALE, UT (LAT 37°25'06", LONG 112°47'59")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
29...	1030	19	4.0	395
DEC				
01...	1405	20	5.0	370
JAN				
13...	0955	18	2.5	375
MAR				
19...	1035	16	3.0	460
APR				
09...	1005	18	5.0	450
MAY				
05...	1000	16	6.0	420
JUN				
02...	0905	21	9.0	400
JUL				
08...	1340	12	19.0	365
AUG				
05...	1000	9.2	9.0	405
20...	1430	9.3	14.5	385
SEP				
10...	--	9.3	--	405

09405450 NORTH FORK VIRGIN RIVER ABOVE ZION NARROWS, NEAR GLENDALE, UT (LAT 37°23'26", LONG 112°49'30")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
29...	1135	19	4.0	445
DEC				
01...	1130	19	1.5	--
JAN				
13...	1200	18	3.5	440
MAR				
19...	1125	17	4.0	550
APR				
09...	1110	17	7.0	520
22...	1154	27	11.0	520
MAY				
05...	1110	15	9.5	500
JUN				
02...	1015	18	9.5	445
JUL				
08...	1125	12	16.5	420
AUG				
05...	0850	6.3	9.0	430
20...	1120	7.5	16.0	420
26...	1145	6.9	16.5	415
SEP				
10...	--	7.7	--	430

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

VIRGIN RIVER BASIN

09405500 NORTH FORK VIRGIN RIVER NEAR SPRINGDALE, UT (LAT 37°12'35", LONG 112°58'40")

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					JUN				
15...	1410	69	11.0	600	02...	1405	112	17.0	490
DEC					JUL				
04...	1240	59	6.0	710	08...	0905	52	16..5	610
JAN					16...	1450	45	24..0	970
14...	1230	53	5.0	740	AUG				
MAR					04...	1505	56	21..5	570
05...	1030	58	7.0	750	24...	1115	43	18..5	790
APR					SEP				
08...	1500	81	14.5	630	10...	--	40	--	730
MAY									
05...	1510	160	13.0	475					

09406000 VIRGIN RIVER NEAR VIRGIN, UT (LAT 37°11'55", LONG 113°12'25")

OCT					JUN				
15...	1040	146	10.0	960	04...	0850	158	16.0	670
DEC					JUL				
10...	1435	132	5.0	830	07...	1410	88	27.5	700
JAN					14...	1000	92	21.0	--
14...	1000	130	4.0	860	AUG				
MAR					04...	1300	90	24.0	710
05...	1240	146	10.5	880	24...	1800	80	29.5	960
APR					SEP				
08...	1140	188	13.0	760	10...	--	90	--	820
MAY									
06...	1135	223	13.0	630					

09406300 KANARRA CREEK AT KANARRAVILLE, UT (LAT 37°32'13", LONG 113°10'00")

OCT					APR				
09...	1020	2.8	8.0	495	24...	1455	9.5	14.5	470
NOV					MAY				
13...	1300	3.0	4.0	500	12...	1515	4.7	15.0	485
DEC					JUN				
19...	1410	2.9	3.0	490	18...	1505	4.0	18.5	445
JAN					JUL				
23...	1350	2.9	4.5	485	14...	1325	2.7	20.0	430
MAR					AUG				
12...	1500	3.0	7.0	475	17...	0945	2.6	12.0	415
APR					27...	1305	2.5	18.0	400
15...	1320	5.0	12.5	480					

09406700 SOUTH ASH CREEK BELOW MILL CREEK, NEAR PINTURA, UT
(LAT 37°21'50", LONG 113°20'01")

OCT					MAY				
14...	1310	2.9	9.0	205	12...	1230	6.1	11.0	190
NOV					JUN				
25...	1215	2.8	1.0	235	18...	1045	4.5	11.5	185
JAN					JUL				
08...	1320	3.5	1.0	265	14...	1045	2.7	16.0	185
FEB					AUG				
24...	1245	2.5	4.0	255	17...	1145	1.6	15.5	185
APR					27...	1020	1.4	16.0	200
08...	1155	5.0	9.0	220					

09407200 ASH CREEK BELOW WEST FIELD DITCH, AT TOQUERVILLE, UT
(LAT 37°15'57", LONG 113°16'15")

OCT					JUN				
16...	1000	13	16.0	660	04...	1030	9.9	17.0	690
DEC					JUL				
12...	1620	16	16.0	680	07...	1605	7.9	17.0	700
JAN					AUG				
12...	1330	16	16.0	680	03...	1405	7.5	17.0	690
MAR					25...	0900	9.3	16.5	700
05...	1440	15	16.0	680	SEP				
APR					09...	--	12	--	680
10...	1000	11	17.0	680					
MAY									
06...	1350	9.2	17.0	680					

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

VIRGIN RIVER BASIN

09408000 LEEDS CREEK NEAR LEEDS, UT (LAT 37°16'03", LONG 113°22'12")

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					JUN				
14...	1000	7.3	9.0	295	04...	1330	7.4	17.0	--
DEC					JUL				
04...	0900	4.8	5.5	315	06...	1510	5.5	22.0	235
JAN					AUG				
12...	1000	4.5	6.0	330	04...	0920	3.0	13..0	265
MAR					24...	0900	3.0	16..5	255
04...	1430	4.4	8.0	--	SEP				
APR					09...	--	3.1	--	270
10...	0825	4.9	8.0	315					
MAY									
07...	1000	7.4	7.0	280					

09408150 VIRGIN RIVER NEAR HURRICANE, UT (LAT 37°09'45", LONG 113°23'42")

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					JUN				
06...	1550	117	23.0	2390	03...	0950	193	18.0	1600
DEC					JUL				
03...	1340	186	10.5	1860	07...	1155	84	26.5	2730
JAN					16...	1215	236	24.5	2150
12...	--	179	--	1790	AUG				
MAR					04...	1050	83	21.0	2600
09...	1435	230	15.5	1540	31...	0900	93	20.0	3120
APR					SEP				
08...	1000	203	14.0	1620	09...	--	99	--	2480
MAY									
07...	0830	198	11.0	1600					

09408400 SANTA CLARA RIVER NEAR PINE VALLEY, UT (LAT 37°23'00", LONG 113°28'57")

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					JUN				
08...	1140	6.1	10.5	96	01...	1150	16	8.0	61
DEC					JUL				
02...	1010	3.5	2.5	110	06...	0950	5.0	15.5	91
JAN					AUG				
15...	1320	2.8	4.0	115	03...	0930	3.3	15.0	95
MAR					17...	1130	3.2	15.5	96
06...	1230	3.1	.0	110	SEP				
APR					08...	1145	2.6	13.0	100
07...	0955	8.5	5.0	99					
MAY									
04...	1055	30	6.0	<50					

09408500 SANTA CLARA-PINTO DIVERSION NEAR PINTO, UT
(LAT 37°28'04", LONG 113°28'21")

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)
OCT					MAY				
08...	--	.00	--	--	04...	0850	21	4.0	105
DEC					JUN				
02...	--	.00	--	--	01...	1000	13	9.5	135
JAN					JUL				
15...	--	.00	--	--	06...	--	.00	--	--
MAR					AUG				
09...	--	.00	--	--	03...	--	.00	--	--
APR					SEP				
07...	0900	1.8	8.5	265	08...	--	.00	--	--

09409880 SANTA CLARA RIVER AT GUNLOCK, UT (LAT 37°16'55", LONG 113°46'00")

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					JUL				
02...	1310	31	8.0	435	06...	1110	7.8	25.0	415
MAR					AUG				
06...	1055	31	7.0	400	03...	1050	12	22.5	420
APR					18...	1545	6.2	26.0	460
07...	1130	31	--	390	SEP				
MAY					08...	1345	11	25.0	455
04...	1305	38	19.0	340					
JUN									
01...	1320	32	21.5	365					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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 WINDSOR DAM, NEAR SANTA CLARA, UT (LAT 37°11'18", LONG 113°46'01")									
OCT					JUN				
07...	1210	22	16.0	420	01...	1530	14	18.0	430
DEC					JUL				
03...	0815	25	6.0	445	06...	1245	18	20.0	430
JAN					AUG				
15...	0905	19	4.0	490	03...	--	18	--	430
MAR					18...	1730	18	24.5	415
06...	0900	5.0	7.0	680	SEP				
APR					08...	1540	25	--	430
07...	1345	62	13.0	440					
MAY									
04...	1455	19	17.0	450					
09413200 VIRGIN RIVER NEAR BLOOMINGTON, UT (LAT 37°04' 10", LONG 113°35'00")									
DEC					JUL				
03...	1100	199	7.0	2090	07...	1000	21	24.0	4330
JAN					14...	1205	75	24.5	--
14...	1555	186	10.5	2090	16...	1040	473	23.0	2660
MAR					AUG				
09...	1220	315	12.0	1740	04...	0740	19	15.5	4510
APR					28...	1415	35	29.0	4180
08...	--	188	--	1840	SEP				
MAY					09...	--	61	--	3170
06...	0830	216	13.0	1860					
JUN									
03...	0755	147	16.5	2030					
BEAR RIVER BASIN									
10010400 EAST FORK BEAR RIVER NEAR EVANSTON, WY (LAT 40°52'25", LONG 110°47'00")									
OCT					MAY				
07...	0845	14	4.0	190	21...	1620	70	4.5	88
NOV					JUN				
18...	1010	14	.0	180	02...	0745	299	2.0	50
JAN					30...	0725	121	6.5	75
06...	0920	13	.0	205	AUG				
MAR					03...	1650	24	18.0	160
10...	1000	11	.0	205	SEP				
MAY					09...	1105	21	12.0	150
05...	1440	100	6.5	73					
10011200 WEST FORK BEAR RIVER AT WHITNEY DAM, NEAR OAKLEY, UT (LAT 40°56'40", LONG 110°51'40")									
OCT					SEP				
07...	1605	.39	10.5	320	01...	1255	46	15.0	240
JUN									
30...	1515	.63	10.0	320					
10011400 WEST FORK BEAR RIVER BELOW DEER CREEK, NEAR EVANSTON, WY (LAT 40°56'40", LONG 110°51'40")									
OCT					JUN				
07...	1300	9.2	10.0	430	30...	1150	30	15.0	360
NOV					AUG				
18...	1240	18	.0	420	04...	1045	21	12.5	330
APR					SEP				
23...	0935	38	3.0	340	09...	1035	24	11.0	340
MAY									
05...	1050	108	4.5	270					
21...	1025	108	3.5	260					
10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE (LAT 40°57'55", LONG 110°51'10")									
OCT					MAY				
07...	1100	43	10.0	305	05...	1640	471	8.5	240
NOV					21...	1250	347	5.5	235
18...	1400	50	.0	190	JUN				
JAN					02...	1345	992	5.0	195
06...	1225	58	.0	280	30...	0945	328	11.0	220
MAR					AUG				
10...	1345	38	2.0	220	04...	0900	84	10.5	280
APR					SEP				
23...	1200	162	7.0	120	09...	1315	78	13.0	290

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

BEAR RIVER BASIN

10015700 SULPHUR 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				
06...	1430	.22	16.0	750
NOV				
18...	1630	.66	.0	900
JAN				
05...	1530	4.9	1.0	650
MAR				
09...	1800	5.7	1.0	630
APR				
14...	1610	131	9.5	420
MAY				
21...	1755	53	7.5	440
JUN				
29...	1640	2.0	19.0	570
AUG				
03...	1410	.40	18.0	520
SEP				
10...	1320	.24	17.5	520

10015900 SULPHUR 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				
06...	--	.00	--	--
MAR				
09...	--	.00	--	--
APR				
14...	0940	150	3.5	580
MAY				
22...	1000	67	9.0	445
JUN				
29...	1515	6.0	21.0	500
AUG				
03...	1330	36	17.0	520
SEP				
10...	1000	6.8	14.5	560

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				
06...	1400	8.0	15.0	470
NOV				
17...	--	.00	--	--
MAR				
09...	1115	14	2.0	195
APR				
13...	1850	9.4	12.0	480
MAY				
06...	1020	45	5.5	265
MAY				
20...	1850	72	11.0	280
JUN				
29...	1250	30	19.0	250
AUG				
03...	1045	4.3	15.0	590
31...	1840	3.3	20.0	540
SEP				
08...	1655	15	18.0	425

10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT
(LAT 41°30'20", LONG 111°00'50")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
08...	1230	2.6	17.0	580
NOV				
19...	--	E.20	--	--
DEC				
23...	1650	32	3.0	510
JAN				
05...	--	E.20	--	--
MAR				
09...	1355	9.8	7.0	590
MAY				
04...	1655	23	11.5	500
08...	1100	661	11.5	480
MAY				
22...	1300	958	10.5	370
JUN				
12...	1400	1260	17.0	320
JUL				
01...	0830	673	17.0	300
20...	--	232	--	--
AUG				
04...	1520	61	21.0	375
SEP				
11...	1045	60	17.0	380

10020900 WOODRUFF CREEK BELOW RESERVOIR, NEAR WOODRUFF, UT
(LAT 41°28'06", LONG 111°18'50)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
06...	1130	790	11.0	420
NOV				
17...	--	.00	--	--
MAY				
22...	1625	28	10.0	315
JUN				
01...	0825	127	8.5	345
29...	1115	3.8	18.5	365
SEP				
08...	--	.00	--	--

E Estimated values.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

BEAR RIVER BASIN

10026500 BEAR RIVER NEAR RANDOLPH, UT (LAT 41°48'02", LONG 111°04'20")

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					MAY				
06...	0925	32	10.0	780	18...	1300	133	11.0	500
NOV					JUN				
17...	1325	62	.0	670	29...	--	232	17.5	630
JAN					AUG				
05...	0925	52	.0	620	03...	0755	101	16.0	800
MAR					SEP				
09...	0855	78	4.0	620	08...	1320	9.1	18.0	750
APR									
13...	1405	41	13.0	750					

10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY (LAT 41°56'20", LONG 110°59'05")

OCT					JUL				
08...	1500	50	17.0	880	01...	1150	131	22.0	700
APR					AUG				
16...	1130	12	12.5	850	04...	1630	100	21.5	600
MAY					SEP				
18...	1555	.70	15.0	770	11...	1555	22	19.5	870

10032000 SMITHS FORK NEAR BORDER, WY (LAT 42°17'16", LONG 110°52'14")

JAN					JUN				
07...	1200	49	.0	390	01...	1505	480	11.0	310
MAR					JUL				
11...	1230	60	3.0	320	01...	1550	192	13.0	340
APR					AUG				
16...	1435	87	10.5	375	04...	1800	111	19.5	320
MAY					SEP				
18...	1730	176	12.0	310	11...	1755	83	18.0	340

10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY (LAT 42°07'36", LONG 110°58'21")

OCT					MAY				
09...	0930	176	10.0	650	19...	1750	198	13.5	480
NOV					JUN				
20...	1230	209	.0	600	01...	1730	806	17.0	610
JAN					JUL				
08...	0830	149	.0	600	02...	0820	324	15.0	680
MAR					AUG				
12...	0815	189	2.0	300	05...	1000	169	15.0	580
APR									
16...	1625	152	12.0	660					

10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE (LAT 42°24'10", LONG 111°01'30")

OCT					MAY				
09...	1100	23	6.5	1200	19...	1445	30	14.5	820
NOV					JUN				
21...	0905	13	.0	1250	02...	0920	44	10.0	790
JAN					24...	1030	26	14.5	890
08...	1105	8.8	.0	1400	JUL				
MAR					28...	1040	13	14.5	1120
12...	1000	15	1.5	1490	SEP				
APR					01...	1000	8.8	9.0	1140
17...	1015	27	7.5	1100					

10058600 BLOOMINGTON CREEK AT BLOOMINGTON, ID (LAT 42°11'05", LONG 111°25'30")

OCT					MAY				
10...	0950	23	5.0	410	19...	0910	22	6.5	265
NOV					JUN				
21...	1340	20	5.0	220	02...	1425	36	9.0	270
JAN					24...	0845	22	8.0	310
09...	1000	14	3.5	360	JUL				
MAR					28...	0845	19	7.5	360
13...	0915	16	2.0	350	SEP				
APR					01...	0840	17	6.0	360
17...	1645	14	12.0	320					

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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									
10068500 BEAR RIVER AT PESCADERO, ID (LAT 42°24'06", LONG 111°21'22")									
OCT					APR				
09...	1530	1060	11.0	790	17...	1510	73	16.0	800
NOV					MAY				
21...	1040	954	2.0	680	19...	1200	233	13.0	640
JAN					JUN				
08...	1330	809	1.0	700	24...	1215	998	20.0	650
MAR					JUL				
12...	1355	88	10.0	640	28...	1505	1080	22.0	800
10072800 EIGHTMILE CREEK NEAR SODA SPRINGS, ID (LAT 42°32'15", LONG 111°34'20")									
OCT					MAY				
28...	1440	5.5	6.0	340	29...	1245	58	9.5	250
DEC					JUN				
09...	1430	2.7	1.5	360	24...	1610	20	15.0	260
JAN					JUL				
27...	1300	3.2	3.0	325	28...	1710	5.9	14.5	340
APR					SEP				
24...	1000	16	5.5	320	01...	1430	3.4	10.5	360
MAY									
06...	1240	24	8.0	260					
10076400 SODA CREEK AT FIVEMILE MEADOWS, NEAR SODA SPRINGS, ID (LAT 42°43'45", LONG 111°36'55")									
OCT					MAY				
28...	1220	12	7.0	800	28...	1105	11	13.0	850
DEC					JUN				
09...	1200	7.7	1.0	--	25...	1000	5.2	15.0	780
JAN					JUL				
27...	1045	7.8	4.0	820	29...	1040	2.5	15.0	750
APR					SEP				
24...	1105	13	13.0	890	02...	1010	1.7	9.5	800
MAY									
06...	1100	11	7.5	810					
10084500 COTTONWOOD CREEK NEAR CLEVELAND, ID (LAT 42°19'57", LONG 111°46'27")									
OCT					MAY				
28...	0950	10	4.0	340	23...	1940	148	13.0	240
DEC					JUN				
09...	1000	6.4	1.5	360	03...	0925	82	10.0	320
JAN					25...	1145	12	22.0	310
27...	0900	11	2.0	350	JUL				
APR					29...	1300	4.2	14.0	360
24...	1310	64	13.0	270	SEP				
MAY					02...	1205	2.4	11.5	380
06...	0815	13	8.0	330					
10090500 BEAR RIVER NEAR PRESTON, ID (LAT 42°10'05", LONG 111°50'59")									
MAR					JUN				
25...	1230	85	9.5	750	05...	1105	2080	12.5	435
APR					AUG				
28...	0925	52	7.0	1000	12...	1055	2500	17.0	800
10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE (LAT 42°00'47", LONG 111°55'14")									
MAR					JUL				
24...	0830	113	9.5	1000	10...	1035	234	23.0	880
APR									
24...	1335	194	10.0	1050					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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				
24...	1230	25	4.0	300
DEC				
12...	1050	20	2.0	340
MAR				
25...	1005	20	5.0	320
APR				
28...	1210	168	9.0	265
MAY				
04...	1235	167	7.5	260
MAY				
05...	0830	185	5.5	260
23...	1805	341	6.5	240
JUN				
04...	1405	378	9.0	260
JUL				
10...	1340	61	14.0	295
AUG				
12...	1440	39	13.5	280

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				
24...	1010	11	3.0	350
DEC				
08...	1130	2.8	.0	380
MAR				
25...	0735	17	3.5	280
APR				
28...	1100	57	7.0	300
MAY				
04...	1020	65	7.0	250
MAY				
23...	1300	169	8.0	300
JUN				
04...	1140	142	7.5	290
JUL				
06...	1140	28	9.0	310
AUG				
12...	0800	16	8.0	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				
30...	0950	27	4.5	410
DEC				
11...	1030	27	2.0	440
MAR				
20...	0910	24	5.0	360
APR				
30...	1100	71	9.5	260
MAY				
28...	1030	112	9.5	240
JUN				
30...	1045	27	19.0	390
JUL				
31...	0955	18	14.0	410
AUG				
31...	1110	16	12.0	500

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				
30...	1255	9.1	7.0	400
DEC				
11...	1330	7.2	3.5	400
MAR				
20...	1125	7.0	5.0	380
APR				
30...	1245	33	12.5	320
MAY				
28...	1300	68	12.5	330
JUN				
30...	1230	12	13.5	370
JUL				
31...	1220	7.6	15.5	425
AUG				
31...	1240	6.6	13.0	435

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				
01...	0940	60	11.0	650
31...	0930	49	6.0	480
DEC				
01...	1230	49	5.0	480
31...	0900	47	5.0	480
FEB				
02...	0945	44	1.0	600
27...	1000	60	4.0	550
MAR				
31...	0930	70	5.0	420
APR				
30...	0850	94	11.0	--
MAY				
05...	1305	38	12.0	500
28...	0820	95	11.0	325
JUN				
30...	0820	30	14.0	--
JUL				
31...	0810	30	14.5	320
AUG				
31...	0910	35	11.5	350

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

BEAR RIVER BASIN

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)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT					MAY				
31...	0910	39	5.0	360	28...	1100	1.4	8.5	280
DEC					JUL				
01...	0910	.65	6.0	360	01...	1020	64	9.0	--
APR					AUG				
01...	0850	3.1	5.0	400	31...	1045	30	9.5	300
30...	1050	14	7.5	290					

10109000 LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UT
(LAT 41°44'40", LONG 111°47'00")

OCT					APR				
01...	1430	141	12.0	400	30...	1210	277	9.5	295
31...	1155	126	5.5	360	MAY				
DEC					22...	1220	540	8.0	290
01...	1130	123	5.0	380	28...	1215	556	10.0	280
31...	1305	115	5.0	380	JUL				
FEB					01...	1210	191	9.0	--
02...	1030	96	1.0	400	31...	1005	130	10.0	380
27...	1400	102	7.0	400	AUG				
APR					31...	1140	87	10.5	400
01...	1040	96	7.0	340					

10113500 BLACKSMITH FORK ABOVE UTAH POWER & LIGHT CO.'S DAM, NEAR HYRUM, UT
(LAT 41°37'18", LONG 111°44'42")

OCT					APR				
01...	1130	109	10.0	1000	30...	0830	96	7.0	400
31...	1215	100	7.0	400	MAY				
DEC					05...	1115	87	9.5	400
01...	1510	88	5.0	400	28...	0845	156	9.5	--
31...	1020	65	4.0	380	JUL				
FEB					01...	0830	84	--	--
02...	1310	79	3.5	420	31...	0735	69	11.0	420
27...	1150	84	5.5	380	AUG				
MAR					31...	0850	64	--	430
31...	1145	85	6.0	450					

10118000 BEAR RIVER NEAR COLLINSTON, UT (LAT 41°50'03", LONG 112°03'16")

OCT					APR				
03...	1300	3050	13.0	--	08...	1400	1380	10.0	750
NOV					JUN				
17...	0930	3000	3.0	--	04...	1250	2610	11.0	500
DEC					JUL				
16...	1515	19	2.0	950	09...	1350	20	25.5	3500
JAN					AUG				
14...	1150	1990	.0	--	13...	1220	18	22.0	1800

10126180 SULPHUR CREEK NEAR CORINNE, UT (LAT 41°34'25", LONG 112°13'07")

NOV					JUN				
17...	1105	71	3.0	2800	10...	1215	46	17.0	2600
JAN					JUL				
08...	1330	52	3.0	3700	08...	1205	78	16.0	4000
APR					AUG				
10...	1155	36	14.0	3250	11...	1200	68	21.0	3800

10127050 SALT CREEK BELOW SALT SPRING, NEAR TREMONTON, UT
(LAT 41°42'41", LONG 112°13'36")

NOV					JUN				
07...	1415	22	20.0	2800	10...	1050	58	19.0	1500
DEC					JUL				
19...	1200	26	16.0	2200	08...	1100	24	19.5	2500
APR					AUG				
09...	1415	20	21.0	3000	11...	1020	22	20.5	3000
MAY									
05...	1110	19	19.0	3200					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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									
10127100 BLACK SLOUGH NEAR BRIGHAM CITY, UT (LAT 41°30'36", LONG 112°04'34")									
NOV					JUN				
03...	1345	37	9.0	2000	10...	1313	24	20.5	2200
JAN					JUL				
08...	1045	46	2.0	1600	08...	1320	6.8	19.5	1300
APR					AUG				
10...	0945	36	11.0	1600	11...	1300	4.6	20.0	1050
WEBER RIVER BASIN									
10128000 SMITH AND MOREHOUSE CREEK NEAR OAKLEY, UT (LAT 40°47"09", LONG 111°06'42")									
OCT					MAY				
07...	1450	11	11.5	270	01...	1110	209	6.0	60
NOV					28...	1430	284	9.0	50
04...	--	18	--	--	JUN				
04...	1255	17	6.5	280	29...	1415	67	16.0	115
DEC					JUL				
17...	1455	11	2.0	240	28...	1410	28	17.5	175
JAN					AUG				
27...	1410	11	2.5	265	28...	1305	13	15.0	275
APR									
01...	1145	12	5.0	205					
29...	1200	104	5.5	85					
10128500 WEBER RIVER NEAR OAKLEY, UT (LAT 40°44'14", LONG 111°14'50")									
OCT					APR				
28...	1136	56	2.0	270	29...	1515	367	10.5	180
NOV					JUN				
21...	0920	44	.0	290	02...	1035	1280	5.5	100
DEC					29...	1200	223	12.5	210
31...	0955	44	.0	290	JUL				
JAN					28...	1130	107	12.5	235
27...	--	48	--	--	AUG				
27...	0947	50	.0	280	27...	1455	59	18.0	--
FEB					SEP				
17...	1035	52	1.0	250	29...	1110	51	9.5	--
APR									
01...	1430	53	5.5	295					
10130500 WEBER RIVER NEAR COALVILLE, UT (LAT 40°53'43", LONG 111°24'04")									
OCT					JUN				
07...	1150	161	12.0	325	02...	1415	1180	14.0	315
NOV					03...	1015	1260	13.5	295
04...	1030	129	8.0	340	18...	1415	272	15.5	--
DEC					JUL				
17...	1205	132	2.5	350	30...	1625	74	17.5	390
JAN					AUG				
12...	1135	25	.5	475	21...	1350	135	15.5	330
MAR					SEP				
19...	1035	28	6.0	520	15...	1345	172	14.0	--
MAY									
28...	1810	670	14.0	340					
10131000 CHALK CREEK AT COALVILLE, UT (LAT 40°55'14", LONG 111°24'03")									
OCT									
OCT					MAY				
07...	1000	19	9.5	700	28...	1010	313	10.0	370
NOV					JUN				
04...	0900	24	5.0	580	18...	1020	86	10.5	570
DEC					JUL				
17...	1000	22	1.0	600	30...	1200	10	14.5	800
JAN					AUG				
12...	0926	15	1.0	610	19...	1430	14	15.5	750
MAR					21...	--	15	--	--
19...	0930	25	4.0	560	SEP				
MAY					15...	1510	26	16.0	--
01...	1350	267	11.0	350					

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
WEBER RIVER BASIN									
10134500 EAST CANYON CREEK NEAR MORGAN, UT (LAT 40°55'21", LONG 111°36'23")									
OCT					MAY				
18...	1420	7.2	11.0	540	16...	1040	21	7.0	550
NOV					JUN				
25...	1435	6.2	7.5	560	18...	1720	36	15.0	590
DEC					JUL				
19...	1020	7.1	5.0	540	01...	0930	98	14.0	570
JAN					AUG				
13...	1230	7.0	7.5	530	14...	1400	171	15.0	590
MAR					SEP				
19...	1455	7.9	9.0	580	02...	--	116	--	580
APR									
18...	1233	8.3	12.0	570					
10137500 SOUTH FORK OGDEN RIVER NEAR HUNTSVILLE, UT (LAT 41°16'07", LONG 111°40'24")									
OCT					MAY				
04...	1315	59	11.5	330	09...	1045	94	9.0	305
NOV					JUN				
25...	1030	27	3.0	380	17...	0945	70	9.5	345
DEC					JUL				
18...	0905	31	1.0	350	01...	1240	98	11.5	310
JAN					AUG				
10...	1230	32	2.0	360	13...	0950	76	15.0	380
31...	1030	34	2.0	340	SEP				
MAR					02...	--	33	--	365
19...	0900	37	4.0	340					
APR									
04...	1030	42	4.0	340					
10139300 WHEELER CREEK NEAR HUNTSVILLE, UT (LAT 41°15'14", LONG 111°50'32")									
OCT					MAY				
04...	1520	1.5	12.0	380	09...	1250	12	8.0	290
NOV					22...	1530	73	9.0	185
25...	1145	.66	4.0	425	JUN				
DEC					17...	1200	15	9.0	290
18...	1110	.90	4.0	400	JUL				
JAN					06...	--	3.3	--	--
10...	1050	.81	.0	420	06...	0850	3.6	12.0	340
MAR					AUG				
19...	1050	1.4	6.0	440	13...	1245	2.0	14.0	400
APR					SEP				
04...	1210	5.3	4.5	290	02...	--	1.0	--	395
10141040 HOOPER SLOUGH NEAR HOOPER, UT (LAT 41°11'26", LONG 112°09'07")									
OCT					MAY				
08...	1120	18	14.0	740	09...	1510	24	16.0	630
NOV					JUN				
28...	1145	8.4	3.5	1130	22...	0910	9.8	18.0	830
DEC					AUG				
18...	1305	7.9	3.0	1000	13...	1520	15	21.0	810
JAN					14...	0940	21	18.5	800
10...	0850	7.7	2.0	1110	SEP				
MAR					03...	1000	12	18.0	1110
19...	1235	7.0	10.0	1400					
APR									
04...	1420	9.0	11.0	1500					
10142000 FARMINGTON CREEK ABOVE DIVERSION, NEAR FARMINGTON, UT (LAT 41°00'05", LONG 111°52'21")									
OCT					MAY				
02...	1345	4.2	11.0	120	16...	1305	24	5.0	80
APR									
18...	0930	30	5.0	70					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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									
10146400 CURRANT CREEK NEAR MONA, UT (LAT 39°48'10", LONG 111°51'58")									
OCT					MAY				
06...	1530	12	14.5	1100	06...	1705	13	14.0	1400
NOV					JUN				
04...	1145	17	7.0	1700	04...	1130	14	15.0	2000
DEC					JUL				
09...	1155	23	2.5	2300	14...	1510	8.7	22.0	1020
JAN					AUG				
26...	1110	25	2.0	2100	04...	1140	3.6	18.0	1000
MAR					SEP				
02...	1220	27	5.0	2600	08...	1955	7.5	18.0	1020
APR									
13...	1335	16	16.0	1770					
10148200 TIE FORK NEAR SOLDIER SUMMIT, UT (LAT 39°57'00", LONG 111°12'58")									
OCT					MAY				
24...	1230	4.0	3.5	610	04...	1805	3.9	7.5	590
NOV					JUN				
20...	1110	3.1	2.0	600	09...	2125	3.8	16.0	560
DEC					JUL				
30...	1425	3.8	4.5	600	16...	--	3.1	--	530
JAN					AUG				
18...	1055	2.9	1.0	600	05...	1345	2.7	19.0	600
MAR					SEP				
06...	1250	2.8	5.0	610	09...	1210	2.9	13.5	590
APR									
15...	1810	3.4	10.0	570					
10150500 SPANISH FORK AT CASTILLA, UT (LAT 40°02'59", LONG 111°32'50")									
OCT					MAY				
24...	1730	87	8.0	730	04...	1530	457	9.5	610
NOV					JUN				
20...	1440	90	5.0	740	05...	1410	200	17.5	550
DEC					JUL				
30...	1147	85	3.5	750	16...	1655	362	21.0	390
JAN					AUG				
18...	1137	86	4.0	740	05...	1135	500	17.5	370
MAR					SEP				
10...	1045	88	5.0	800	09...	1440	137	13.0	590
APR									
12...	1455	113	12.0	690					
10152000 SPANISH FORK NEAR LAKE SHORE, UT (LAT 40°09'30", LONG 111°43'50")									
OCT					MAY				
29...	1140	123	5.0	780	04...	1015	16	10.0	750
NOV					JUN				
21...	1330	104	4.8	790	05...	1050	5.9	18.5	1230
JAN					JUL				
08...	1235	104	3.0	770	22...	1140	1.7	20.0	770
MAR					AUG				
10...	1405	108	8.0	800	05...	0855	2.1	18.0	960
APR					SEP				
15...	1045	118	12.0	740	09...	1845	50	17.0	660
MAY									
04...	--	8.9	--	--					
10153800 NORTH FORK PROVO RIVER NEAR KAMAS, UT (LAT 40°35'48", LONG 111°05'48")									
OCT					MAY				
11...	1020	4.2	5.0	<50	01...	0900	161	8.0	<50
NOV					JUN				
15...	1430	8.2	.0	50	03...	1640	184	8.5	<50
DEC					JUL				
17...	1100	5.2	.0	<50	10...	1730	39	15.0	<50
JAN					AUG				
14...	1030	6.1	.0	55	04...	1020	8.3	14.0	<50
MAR					SEP				
18...	1020	6.7	.5	55	14...	1530	6.8	15.0	<50

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

JORDAN RIVER BASIN

10154200 PROVO RIVER NEAR WOODLAND, UT (LAT 40°33'28", LONG 111°10'05")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
11...	1230	54	9.0	230
NOV				
15...	1210	42	4.0	310
DEC				
16...	1130	62	1.0	265
JAN				
14...	1230	41	2.5	340
FEB				
17...	1310	60	6.0	215
MAR				
11...	1155	45	5.0	255
APR				
09...	1330	77	9.0	190
MAY				
02...	1315	934	6.0	60
JUN				
02...	1600	756	9.0	70
JUL				
10...	1415	107	17.5	140
AUG				
03...	1715	90	19.5	180
SEP				
02...	1615	76	17.0	190

10155000 PROVO RIVER NEAR HAILSTONE, UT (LAT 40°36'03", LONG 111°21'35")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
11...	1435	68	12.0	220
NOV				
15...	1025	88	.5	230
DEC				
16...	1215	87	.0	310
JAN				
14...	1420	103	.0	330
MAR				
10...	1445	85	6.0	240
APR				
09...	1105	139	8.0	225
MAY				
05...	1510	1250	14.0	490
13...	1610	411	11.0	120
JUN				
03...	1330	874	9.0	490
JUL				
10...	1230	96	17.0	155
AUG				
03...	1535	49	23.0	200
SEP				
14...	1325	88	17.0	195

10159500 PROVO RIVER BELOW DEER CREEK DAM, UT
(LAT 40°24'12", LONG 111°31'44")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
30...	1310	310	--	430
NOV				
22...	1415	253	8.0	440
DEC				
15...	1210	289	5.0	475
JAN				
15...	1045	65	4.0	485
MAR				
10...	1230	61	5.0	440
18...	1225	180	4.0	620
APR				
08...	1410	71	8.0	450
MAY				
13...	1230	442	7.0	540
JUN				
02...	1215	801	15.0	345
JUL				
09...	1550	394	18.0	275
AUG				
11...	1310	457	13.0	355

10163000 PROVO RIVER AT PROVO, UT (LAT 40°14'16", LONG 111°41'55")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
09...	1150	137	13.0	405
NOV				
22...	1150	313	7.0	420
DEC				
15...	1630	295	5.5	405
JAN				
15...	1315	107	2.0	495
MAR				
04...	1200	88	8.5	415
APR				
08...	0930	108	9.0	435
MAY				
02...	1840	60	10.0	500
JUN				
04...	1135	439	10.0	430
JUL				
30...	1410	8.7	22.5	470
AUG				
11...	1545	42	16.0	410
20...	1215	9.0	20.0	770
SEP				
02...	1125	14	18.0	480

10164500 AMERICAN FORK ABOVE UPPER POWERPLANT, NEAR AMERICAN FORK, UT
(LAT 40°26'52", LONG 111°58'28")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT				
09...	1420	29	10.0	465
NOV				
22...	0910	21	3.0	480
DEC				
15...	0910	28	3.0	465
JAN				
15...	1440	18	2.0	470
MAR				
10...	0935	15	6.0	480
APR				
09...	1825	19	8.0	500
MAY				
02...	2030	114	9.0	285
JUN				
04...	1525	153	9.5	260
25...	1130	--	11.5	326
JUL				
09...	1340	59	14.0	355
AUG				
03...	1240	38	14.0	400
SEP				
02...	0930	24	12.0	460

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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									
10170500 SURPLUS CANAL AT SALT LAKE CITY, UT (LAT 40°43'37", LONG 111°55'33")									
OCT					MAY				
14...	1110	229	13.0	1650	18...	1145	466	13.5	1280
NOV					JUN				
17...	0954	446	5.0	1580	05...	1330	631	--	780
DEC					JUL				
04...	1029	516	6.0	1440	16...	1420	222	21.0	1930
JAN					AUG				
21...	1136	547	4.0	1430	14...	1500	230	20.5	1770
MAR					SEP				
23...	1525	589	11.5	1710	14...	1320	257	22.0	1710
APR									
29...	1300	311	14.5	1350					
10170750 SURPLUS CANAL AT NORTH TEMPLE STREET, AT SALT LAKE CITY, UT (LAT 40°46'14", LONG 111°58'28")									
OCT					MAY				
02...	1530	138	17.0	1700	12...	1525	372	14.5	1500
NOV					JUN				
19...	1415	303	5.5	1600	05...	1355	746	13.5	820
DEC					JUL				
15...	1530	506	3.5	1550	07...	1340	112	22.0	1750
JAN					AUG				
23...	1555	522	3.5	1520	18...	1540	158	22.0	1850
MAR					SEP				
31...	1500	719	9.0	1530	18...	1530	151	20.0	1810
APR									
23...	1100	478	12.5	1450					
RUSH VALLEY									
10172700 VERNON CREEK NEAR VERNON, UT (LAT 39°58'46", LONG 112°22'46")									
OCT					MAY				
03...	1150	4.7	8.0	500	04...	1700	4.1	15.0	400
NOV					JUN				
03...	1110	5.0	8.0	460	08...	1110	3.8	13.0	470
DEC					JUL				
10...	1655	5.3	4.0	450	06...	1040	3.6	15.0	440
JAN					AUG				
08...	1720	4.4	4.0	380	03...	1635	2.6	19.0	480
MAR					SEP				
23...	1235	3.9	10.0	--	14...	1210	3.3	14.0	480
APR									
13...	1925	4.0	9.5	450					
TOOELE VALLEY									
10172800 SOUTH WILLOW CREEK NEAR GRANTSVILLE, UT (LAT 40°29'47", LONG 112°34'25")									
OCT					MAY				
13...	1400	4.0	8.0	360	04...	1500	8.6	8.0	210
NOV					JUN				
10...	1515	3.7	6.0	350	08...	1455	13	9.5	185
DEC					JUL				
10...	1430	3.4	3.0	340	06...	1320	5.0	10.5	260
JAN					AUG				
09...	1510	3.1	3.0	300	10...	1520	3.3	10.5	330
MAR					SEP				
23...	1530	2.6	5.0	350	15...	1355	2.8	10.0	340
APR									
16...	1620	4.1	7.5	300					
10172805 NORTH WILLOW CREEK NEAR GRANTSVILLE, UT (LAT 40°31'58", LONG 112°34'19")									
OCT					MAY				
13...	1150	2.3	9.0	330	01...	1020	9.2	8.0	--
NOV					04...	--	8.4	9.5	--
10...	1340	2.3	8.5	320	JUN				
DEC					08...	1640	6.9	11.0	215
10...	1250	2.0	3.0	320	JUL				
JAN					06...	1530	2.5	14.5	300
09...	1330	1.8	3.5	320	AUG				
MAR					11...	1350	1.9	13.0	320
23...	1700	2.0	7.0	--	SEP				
APR					14...	1445	1.8	14.0	330
17...	1335	5.0	10.5	--					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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									
10172870 TROUT CREEK NEAR CALLAO, UT (LAT 39°44'39", LONG 113°53'21")									
OCT					MAY				
07...	1420	1.8	10.0	80	21...	1820	10	7.0	70
NOV					JUN				
03...	1720	2.1	5.0	80	17...	1800	9.7	10.0	70
DEC					JUL				
11...	1545	2.2	.0	80	21...	1600	2.5	16.0	60
MAR					AUG				
19...	1235	1.9	3.0	85	12...	2030	1.9	13.0	75
APR					SEP				
14...	1305	3.4	8.0	90	02...	1830	1.6	14.0	80
TRIBUTARIES BETWEEN GREAT SALT LAKE DESERT AND BEAR RIVER									
10172952 DUNN CREEK NEAR PARK VALLEY, UT (LAT 41°51'31", LONG 113°19'35")									
NOV					JUN				
18...	1410	2.1	4.0	260	05...	1325	14	15.5	120
JAN					JUL				
23...	1255	1.2	3.0	280	21...	1655	2.3	21.0	225
APR					AUG				
17...	1250	1.8	14.5	320	25...	1155	1.7	17.0	250
SEVIER LAKE BASIN									
10173450 MAMMOTH CREEK ABOVE WEST HATCH DITCH, NEAR HATCH, UT (LAT 37°37'19", LONG 112°31'07")									
OCT					APR				
06...	1405	34	18.0	215	07...	1245	17	10.5	230
NOV					MAY				
14...	1530	31	3.0	220	07...	1300	154	6.5	140
DEC					JUN				
05...	1355	25	2.0	210	05...	1205	133	9.5	170
JAN					JUL				
06...	1335	32	.5	225	02...	1245	36	14.5	200
FEB					SEP				
25...	1235	13	3.5	225	08...	1220	23	12.0	210
10174500 SEVIER RIVER AT HATCH, UT (LAT 37°39'07", LONG 112°25'47")									
OCT					MAY				
06...	1135	106	10.0	345	05...	1220	278	8.0	190
NOV					JUN				
14...	1330	90	5.0	325	05...	0900	195	9.5	240
DEC					JUL				
05...	1140	95	4.0	325	02...	1110	77	16.0	320
JAN					AUG				
06...	1120	80	3.0	330	04...	1010	71	13.5	330
FEB					SEP				
25...	1045	74	4.0	340	08...	1035	69	12.0	350
APR									
07...	1055	73	8.5	350					
10180000 SEVIER RIVER NEAR CIRCLEVILLE, UT (LAT 38°06'15", LONG 112°20'08")									
OCT					MAY				
08...	1205	132	11.0	490	26...	1325	140	14.0	410
DEC					JUN				
01...	1330	175	4.0	425	15...	1145	80	12.0	450
JAN					JUL				
13...	1110	164	4.0	410	13...	1020	144	15.5	370
MAR					SEP				
12...	1125	138	7.0	440	02...	0950	93	13.5	490
APR									
14...	1030	98	10.0	435					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

SEVIER LAKE BASIN

10183500 SEVIER RIVER NEAR KINGSTON, UT (LAT 38°12'22", LONG 112°12'25")

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					JUN				
01...	1130	87	13.0	520	02...	1100	128	15.0	470
30...	1130	189	7.0	--	30...	0945	18	15.0	590
JAN					JUL				
08...	1100	186	5.0	--	30...	1000	16	15.0	590
MAR					SEP				
04...	1105	173	70.0	495	01...	1100	28	16.0	520
APR									
02...	1030	133	12.0	470					
29...	1215	58	15.0	480					

10183900 EAST FORK SEVIER RIVER NEAR RUBYS INN, UT (LAT 37°34'33", LONG 112°15'54")

OCT					MAY				
06...	1100	13	9.5	480	05...	1430	17	13.0	485
NOV					JUN				
12...	1230	18	5.5	490	08...	1220	11	17.0	--
DEC					24...	1205	6.8	17.0	420
02...	0915	6.8	.5	510	JUL				
JAN					15...	1435	9.0	21.0	460
15...	0915	3.4	.5	510	AUG				
MAR					04...	1205	5.9	15.0	410
24...	1535	18	6.5	485	SEP				
APR					03...	1415	7.2	18.0	415
21...	1500	27	7.0	--					

10187300 OTTER CREEK NEAR KOOSHAREM, UT (LAT 38°36'40", LONG 111°48'40")

OCT					MAY				
03...	0910	9.9	7.0	110	28...	1250	20	9.5	88
NOV					JUN				
13...	1100	9.7	2.0	110	22...	1250	12	14.0	98
JAN					JUL				
21...	1305	7.9	3.0	110	15...	1820	10	16.0	105
MAR					SEP				
24...	1610	9.9	8.0	115	01...	1415	8.6	14.0	105
APR									
28...	1115	23	7.0	85					

10189000 EAST FORK SEVIER RIVER NEAR KINGSTON, UT (LAT 38°11'49", LONG 112°09'01")

OCT					MAY				
01...	1230	100	14.5	430	01...	1550	194	12.0	410
30...	1235	20	8.0	460	JUN				
JAN					02...	1150	181	16.0	445
08...	1230	29	1.0	495	30...	1100	139	19.0	440
MAR					JUL				
04...	1205	70	8.0	440	30...	1145	128	21.0	440
APR					SEP				
02...	1150	90	9.0	440	01...	1200	67	19.5	445

10194000 SEVIER RIVER ABOVE CLEAR CREEK, NEAR SEVIER, UT
(LAT 38°34'20", LONG 112°15'27")

OCT					MAY				
01...	1615	74	17.0	490	14...	1100	444	12.0	450
31...	1030	258	8.0	--	JUN				
JAN					15...	1100	381	12.0	440
08...	1430	100	5.0	470	JUL				
MAR					15...	1145	420	20.0	485
23...	1300	337	9.0	475	SEP				
APR					04...	1000	217	17.0	480
13...	1330	233	12.0	440					

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

SEVIER LAKE BASIN

10194200 CLEAR CREEK ABOVE DIVERSIONS, NEAR SEVIER, UT
(LAT 38°34'45", LONG 112°17'22")

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					JUN				
01...	1730	15	16.5	225	15...	1315	55	11.0	125
31...	1115	16	7.0	--	JUL				
JAN					15...	1300	17	15.5	195
08...	1545	7.7	.5	260	AUG				
MAR					05...	1205	9.3	17.0	230
23...	1450	15	13.0	265	SEP				
APR					04...	1125	11	14.5	230
13...	1400	30	12.0	210					
MAY									
14...	1330	46	13.5	145					

10205000 SEVIER RIVER NEAR SIGURD, UT (LAT 38°52'13", LONG 111°57'14")

OCT					MAY				
02...	1015	121	15.5	960	15...	1015	48	12.5	1160
JAN					JUN				
09...	1030	252	3.0	850	16...	0935	16	17.0	1070
MAR					JUL				
05...	1230	80	7.0	890	15...	1535	60	20.0	990
APR					SEP				
14...	0840	11	12.0	--	02...	1315	83	22.0	1190

10205030 SALINA CREEK NEAR EMERY, UT (LAT 38°54'43", LONG 111°31'47")

OCT					MAY				
06...	1325	13	10.5	400	26...	1030	31	7.5	390
NOV					JUN				
26...	1045	6.7	1.0	470	30...	1100	15	11.5	415
JAN					JUL				
06...	1140	7.6	1.5	420	29...	--	12	--	--
APR					SEP				
22...	0910	15	4.5	460	02...	1210	9.7	13.0	405

10206000 SALINA CREEK AT SALINA, UT (LAT 38°57'24", LONG 111°51'58")

OCT					MAY				
06...	1540	1.4	17.0	2350	26...	1510	32	17.0	740
NOV					JUN				
26...	1620	30	1.0	--	30...	1250	.99	21.5	3720
JAN					JUL				
06...	1335	15	3.0	900	28...	--	.58	--	--
MAR					SEP				
10...	0955	17	4.0	880	02...	1330	.54	22.0	3750
APR									
22...	1135	27	11.5	720					

10208500 OAK CREEK NEAR FAIRVIEW, UT (LAT 39°40'26", LONG 111°24'30")

OCT					MAY				
31...	1200	3.1	3.5	410	05...	1330	57	12.0	380
DEC					JUN				
08...	0925	1.4	.5	510	08...	1755	22	15.0	365
JAN					JUL				
17...	1515	2.9	4.0	445	16...	1005	4.0	13.0	420
MAR					AUG				
06...	1025	2.3	1.0	530	06...	0805	2.2	14.0	435
APR					SEP				
16...	0810	8.6	3.5	395	10...	1610	2.5	11.5	380

10215700 OAK CREEK NEAR SPRING CITY, UT (LAT 39°26'52", LONG 111°25'29")

NOV					MAY				
01...	1030	4.7	2.0	405	05...	1030	11	11.0	430
DEC					JUN				
08...	1218	3.8	.0	410	08...	1550	68	11.5	265
JAN					JUL				
17...	1050	3.6	3.5	405	15...	1525	8.1	14.5	375
MAR					AUG				
05...	0940	2.9	.0	510	06...	2030	6.0	13.0	310
APR					SEP				
16...	1225	4.1	9.0	410	11...	1440	5.3	9.5	405

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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									
10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UT (LAT 39°15'33", LONG 111°34'45")									
OCT					JUN				
07...	1010	7.8	7.0	540	29...	1905	31	15.0	475
DEC					JUL				
07...	1310	7.8	1.0	590	29...	--	13	--	--
MAR					SEP				
10...	1430	3.5	3.0	570	02...	2000	5.9	16.0	495
APR									
21...	1450	22	7.0	520					
10217000 SEVIER RIVER BELOW SAN PITCH RIVER, NEAR GUNNISON, UT (LAT 39°09'19", LONG 111°52'37")									
OCT					MAY				
07...	1330	222	15.0	1900	26...	1235	235	15.5	2020
NOV					JUN				
25...	--	500	--	--	30...	0840	61	16.5	3020
JAN					JUL				
06...	--	543	--	--	29...	--	74	--	--
MAR					SEP				
10...	1130	290	9.5	1490	02...	1645	165	20.0	2060
APR									
21...	1700	194	14.0	2000					
10219000 SEVIER RIVER NEAR JUAB, UT (LAT 39°22'29", LONG 112°02'20")									
OCT					MAY				
07...	1700	4.8	21.0	1700	28...	0930	176	12.0	1680
JAN					JUN				
07...	1505	328	2.5	1710	29...	1515	1130	24.5	1700
MAR					JUL				
11...	1250	148	6.5	1670	28...	--	213	--	--
APR					SEP				
21...	1000	351	10.0	1600	03...	--	120	22.0	1880
10219200 CHICKEN CREEK NEAR LEVAN, UT (LAT 39°33'03", LONG 111°49'42")									
OCT					MAY				
07...	1530	3.7	15.0	800	28...	1145	7.9	13.0	590
NOV					JUN				
25...	1250	2.3	4.0	940	29...	1640	4.8	22.5	650
JAN					JUL				
07...	1210	1.3	3.0	1030	28...	--	3.7	--	--
MAR					SEP				
11...	1000	1.8	5.0	890	03...	0950	2.4	12.0	770
APR									
21...	1245	9.5	10.0	480					
10224100 OAK CREEK ABOVE LITTLE CREEK, NEAR OAK CITY, UT (LAT 39°21'23", LONG 112°13'55")									
OCT					MAY				
08...	1110	.97	10.0	280	19...	1200	2.7	9.0	155
NOV					JUN				
19...	1210	.81	2.0	--	23...	1300	1.6	17.0	180
JAN					JUL				
15...	1150	.83	1.5	270	22...	1110	.54	17.0	230
MAR					SEP				
17...	1015	.88	3.0	--	04...	0925	.28	12.5	260
APR									
14...	1030	3.6	6.5	160					

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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									
10224300 OAK CREEK BELOW BIG SPRING, NEAR OAK CITY, UT (LAT 39°21'11", LONG 112°17'07")									
OCT					MAY				
08...	1300	5.3	11.0	460	19...	1305	6.7	10.0	345
NOV					JUN				
19...	1315	4.1	5.5	--	23...	1435	6.0	17.0	335
JAN					JUL				
15...	1250	2.7	5.0	475	22...	1245	2.9	16.0	410
MAR					SEP				
17...	1200	2.7	6.5	420	04...	1215	1.8	14.0	430
APR									
14...	1210	8.1	10.5	345					
BEAVER RIVER BASIN									
10234500 BEAVER RIVER NEAR BEAVER, UT (LAT 38°16'49", LONG 112°34'01")									
OCT					APR				
29...	1205	27	3.0	130	29...	1155	105	5.5	86
NOV					MAY				
26...	1400	31	.0	130	29...	1215	144	7.0	91
DEC					JUN				
29...	1225	23	2.0	130	29...	1145	83	14.5	105
JAN					JUL				
29...	1145	22	1.5	130	31...	0920	30	15.0	125
FEB					AUG				
26...	1250	21	.5	125	31...	1000	21	13.0	140
MAR					SEP				
30...	1115	27	3.0	130	25...	1045	22	10.5	135
10239000 BEAVER RIVER AT ROCKY FORD DAM, NEAR MINERSVILLE, UT (LAT 38°13'03", LONG 112°50'22")									
OCT					MAY				
10...	1345	41	16.0	490	29...	0920	58	13.5	540
NOV					JUN				
19...	1335	9.3	12.0	570	29...	1440	128	18.0	550
DEC					JUL				
23...	1215	10	11.5	560	20...	1215	86	21.5	570
JAN					AUG				
15...	1215	12	10.0	570	31...	1215	90	21.0	600
MAR					SEP				
17...	1350	56	9.0	520	25...	1250	13	17.0	610
APR									
20...	1120	27	13.0	530					
PAROWAN VALLEY									
10241470 CENTER CREEK ABOVE PAROWAN CREEK, NEAR PAROWAN, UT (LAT 37°47'35", LONG 112°48'55")									
OCT					APR				
07...	1455	5.4	12.0	300	16...	1355	6.4	12.0	330
NOV					MAY				
12...	1120	5.3	7.0	310	28...	1040	7.3	3.5	210
DEC					JUN				
17...	1210	5.0	3.0	320	19...	1015	8.4	8.5	240
JAN					JUL				
20...	1140	4.8	2.5	325	15...	1055	6.8	12.0	255
MAR					AUG				
18...	1215	6.3	.0	320	26...	1015	5.3	12.0	300
10241600 SUMMIT CREEK NEAR SUMMIT, UT (LAT 37°47'13", LONG 112°54'56")									
OCT					MAY				
07...	1425	2.0	15.0	425	01...	1200	17	9.0	325
NOV					28...	1230	12	11.5	380
13...	1455	2.9	5.0	455	JUN				
DEC					19...	1150	4.8	14.0	410
17...	1350	2.2	4.5	465	JUL				
JAN					15...	1230	3.2	20.0	390
20...	1330	2.0	4.5	470	AUG				
MAR					26...	1150	1.6	17.5	400
18...	1340	1.2	7.0	495	26...	2005	2.3	17.0	375
APR									
16...	1520	6.0	14.5	415					
23...	1021	12	5.5	385					

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
PAROWAN VALLEY									
10242000 COAL CREEK NEAR CEDAR CITY, UT (LAT 37°40'20", LONG 113°02'02")									
OCT					MAY				
09...	1535	12	17.0	620	28...	1415	90	11.5	365
DEC					JUN				
03...	1025	12	3.0	660	16...	1055	37	10.0	485
JAN					JUL				
22...	1550	15	6.0	660	13...	1415	20	19.5	510
MAR					SEP				
10...	1445	12	7.0	660	02...	1300	12	19.5	570
APR									
13...	1230	31	10.5	530					
22...	1520	76	12.0	425					
RAFT RIVER BASIN									
13077700 GEORGE CREEK NEAR YOST, UT (LAT 41°55'07", LONG 113°28'51")									
NOV					JUN				
18...	1015	2.3	3.5	175	05...	0900	35	6.0	60
JAN					JUL				
23...	1000	2.1	3.0	200	22...	0845	3.2	10.5	260
APR					AUG				
17...	0915	6.6	6.0	180	26...	0800	2.5	12.0	240

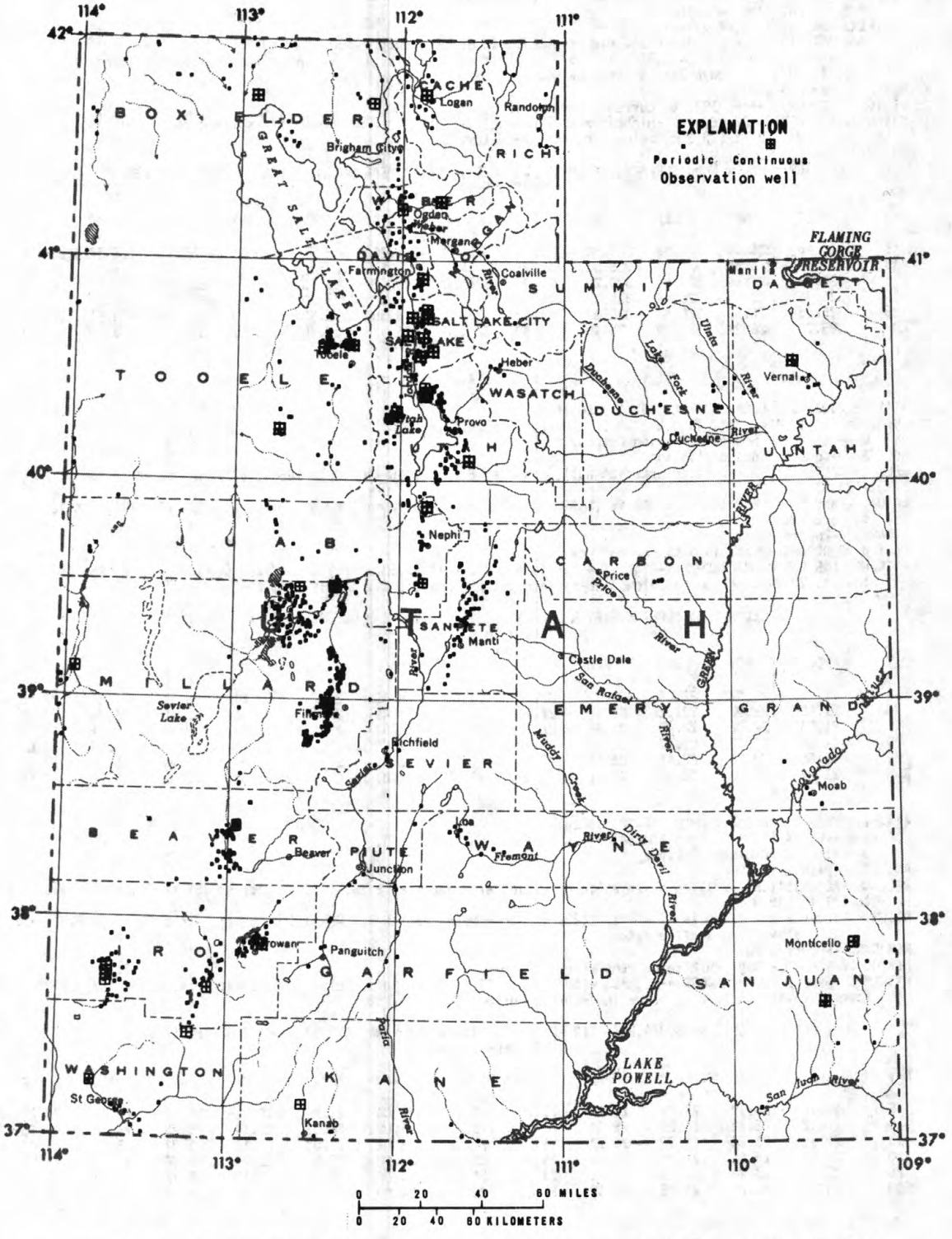

Figure 12.—Location of observation wells in Utah where data were obtained on ground-water levels.

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. (0.15 m), depth 400 ft (122 m).
DATUM.--Land-surface datum is 5,320 ft (1,622 m) above mean sea level. Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--Apr. 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 323.75 ft (98.7 m) below land-surface datum, May 15, 1976; lowest, 325.72 ft (99.3 m) below land-surface datum, Oct. 31, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	325.46	325.69	325.48	325.34	325.65	325.39	325.31	325.53	325.39	325.39	325.57	325.30
10	325.46	325.69	325.47	325.31	325.29	---	325.37	325.55	325.38	325.38	325.32	325.42
15	325.33	325.49	325.46	325.29	325.37	325.52	325.56	325.63	325.58	325.38	325.34	325.33
20	325.45	325.45	325.44	325.30	325.23	325.16	325.52	325.38	325.47	325.38	325.50	325.50
25	325.15	325.67	325.41	325.33	325.65	325.22	325.35	325.52	325.39	325.50	325.56	325.55
EOM	325.72	325.34	325.39	325.43	325.43	325.50	325.56	325.49	325.39	325.37	325.30	325.69

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. (0.15 m), depth 705 ft (215 m), cased to 437 ft (133 m).
DATUM.--Land-surface datum is 4,318 ft (1,316 m) above mean sea level. Measuring point: Top of casing, at land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--Oct. 1979 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 21.74 ft (6.63 m) below land-surface datum, Oct. 15, 16, 1980; lowest, 23.94 ft (7.30 m) below land-surface datum, June 16, 17, 18, 19, 25, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.97	21.98	22.04	22.50	22.78	23.03	23.49	23.76	23.87	23.91	23.81	23.66
10	21.95	21.92	22.32	22.59	22.71	23.24	23.49	23.82	23.86	23.90	23.84	23.69
15	21.74	22.02	22.40	22.64	22.96	23.24	23.64	23.74	23.91	23.90	23.81	23.68
20	21.90	22.12	22.37	22.68	22.94	23.16	23.60	23.78	23.93	23.89	23.77	23.61
25	21.85	22.11	22.43	22.68	22.93	23.35	23.68	23.79	23.94	23.85	23.74	23.57
EOM	21.96	22.03	22.48	22.65	23.04	23.33	23.81	23.80	23.91	23.83	23.68	23.56

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. (0.20 m), depth 162 ft (49.4 m), cased to 131 ft (39.9 m).
DATUM.--Land-surface datum is 4,239 ft (1,292 m) above mean sea level. Measuring point: Top of casing, 2.00 ft (0.61 m) above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--Aug. 1972 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 23.88 ft (7.28 m) below land-surface datum, Aug. 22, 1972; lowest, 25.46 ft (7.76 m) below land-surface datum, Sept. 30, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.12	25.19	25.26	25.25	25.20	25.10	25.04	24.99	25.11	25.23	25.20	25.27
10	25.12	25.22	25.29	25.24	25.19	25.09	25.02	25.03	25.14	25.25	25.20	25.32
15	25.12	25.24	25.29	25.23	25.17	25.08	25.02	25.03	25.17	25.27	25.21	25.37
20	25.15	25.25	25.26	25.22	25.17	25.04	25.00	25.04	25.19	25.20	25.22	25.41
25	25.16	25.28	25.25	25.21	25.10	25.06	24.98	25.06	25.19	25.18	25.23	25.43
EOM	25.19	25.24	25.25	25.19	25.12	25.04	24.99	25.08	25.21	25.19	25.27	25.46

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. (0.05 m), depth 43 ft (13.1 m), cased to 43 ft (13.1 m).
DATUM.--Land-surface datum is 4,442 ft (1,354 m) above mean sea level. Measuring point: Top of coupling, 0.30 ft (0.09 m) above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--Aug. 1940 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 22.90 ft (6.98 m) above land-surface datum, Sept. 25, 1950; lowest, 13.60 ft (4.15 m) above land-surface datum, Aug. 24, 1940.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.50	20.20	20.10	19.90	19.80	19.30	19.00	18.40	18.40	17.50	17.50	17.40
10	20.70	20.50	20.10	19.50	19.70	19.40	19.00	18.80	18.50	17.70	17.00	17.20
15	20.50	19.90	19.80	19.30	19.20	19.30	19.00	18.10	18.70	18.10	17.50	17.40
20	20.40	20.00	19.70	19.50	19.20	19.30	18.80	18.30	18.30	17.50	16.90	17.20
25	20.30	20.10	19.70	19.40	19.20	18.80	18.70	18.50	18.20	17.60	17.30	17.50
EOM	20.40	20.20	19.80	19.40	19.50	18.70	18.70	18.50	18.60	17.40	17.20	18.10

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. (0.05 m), depth 90 ft (27.4 m), cased to 90 ft (27.4 m).
DATUM.--Land-surface datum is 4,285 ft (1,306 m) above mean sea level. Measuring point: Top of recorder shelter support, 2.40 ft (0.73 m) 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 (9.63 m) above land-surface datum, June 9, 1944; lowest, 2.70 ft (0.82 m) above land-surface datum, Aug. 5, 1961.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.00	16.90	15.80	14.90	13.00	15.50	12.10	13.50	13.80	12.30	12.40	12.90
10	17.00	16.80	15.60	14.10	13.00	12.70	13.80	13.60	13.60	11.50	12.60	13.30
15	16.00	16.60	15.40	14.40	13.10	14.70	12.50	13.50	13.40	12.00	13.40	13.60
20	16.70	16.40	15.20	13.80	13.30	13.00	13.60	13.70	12.50	11.80	12.30	13.40
25	16.60	16.20	15.10	13.90	14.80	12.90	13.90	13.80	11.40	12.00	13.20	14.00
EOM	17.00	16.00	15.00	13.80	15.30	12.30	13.80	14.00	12.10	12.20	12.20	13.60

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. (0.30 m), depth 420 ft (128 m).
DATUM.--Land-surface datum is 5,802 ft (1,768 m) above mean sea level. Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--Sept. 1935 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 13.45 ft (4.10 m) below land-surface datum, June 26, 1949; lowest, 42.40 ft (12.9 m) below land-surface datum, Sept. 7, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	39.90	40.32	40.61	40.59	40.07	40.56	40.42	40.39	40.81	41.32	41.96	42.37
10	39.99	40.38	40.54	40.65	40.40	40.53	40.42	40.40	40.94	41.40	42.06	42.34
15	40.07	40.43	40.56	40.61	40.43	40.51	40.41	40.48	40.86	41.53	42.17	42.15
20	40.20	40.48	40.56	40.60	40.41	40.51	40.40	40.48	40.97	41.61	42.20	42.00
25	40.18	40.51	40.59	40.63	40.48	40.43	40.38	40.49	41.08	41.74	42.29	41.94
EOM	40.27	40.59	40.58	40.56	40.51	40.42	40.39	40.51	41.18	41.87	42.33	41.92

IRON COUNTY--Continued

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. (0.41 m), depth 100 ft (30.5 m), perforated 26-35 ft (7.9-10.7 m), 60-70 ft (18.3-21.3 m), 90-100 ft (27.4-30.5 m).
DATUM.--Land-surface datum is 5,164.80 ft (1,574 m) above mean sea level. Measuring point: Top of tie, at land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--May 1937 to Dec. 1942, Aug. 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 25.99 ft (7.92 m) below land-surface datum, Apr. 16, 1938; lowest, 80.81 ft (24.6 m) below land-surface datum, Sept. 14, 1979.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	73.90	72.95	72.30	71.87	71.37	70.75	70.04	70.52	71.14	71.98	72.68	73.08
10	73.86	72.80	72.29	71.80	71.27	70.63	70.11	70.73	71.17	72.19	72.93	72.56
15	73.67	72.73	72.18	71.76	71.17	70.51	70.11	70.84	71.39	72.23	72.79	72.21
20	73.46	72.61	72.08	71.67	71.06	70.38	70.32	70.87	71.54	72.02	72.91	71.92
25	73.20	72.50	72.02	71.58	70.95	70.24	70.26	70.97	71.58	72.42	73.02	71.58
EOM	73.09	72.42	71.96	71.47	70.87	70.09	70.27	70.96	71.79	72.57	72.93	71.42

374132113063601. LOCAL NUMBER, (C-36-11)8aab-1.
LOCATION.--Lat 37°41'32", long 113°06'36", Hydrologic Unit 16030006.
Owner: Aril Stratton.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in. (0.20 m), depth 220 ft (67.1 m).
DATUM.--Land-surface datum is 5,563 ft (1,696 m) above mean sea level. Measuring point: Top of casing, 3.50 ft (1.07 m) above land-surface datum.
REMARKS.--Record fair.
PERIOD OF RECORD.--Sept. 1935 to Dec. 1943, Mar. 1945 to Mar. 1973, Apr. 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 45.67 ft (13.9 m) below land-surface datum, Sept. 27, 1943; lowest, 100.08 ft (30.5 m) below land-surface datum, Sept. 10, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	76.63	71.50	67.80	65.58	63.60	62.02	61.08	61.33	69.07	76.43	81.22	81.55
10	76.30	70.76	67.45	65.22	63.30	61.96	61.00	64.70	69.60	77.42	82.04	81.16
15	75.02	70.22	67.09	64.86	62.80	61.73	60.88	65.84	71.19	78.07	81.95	79.33
20	74.63	69.54	66.73	64.48	62.80	61.33	60.82	67.11	72.88	78.92	81.90	77.67
25	73.08	68.94	66.37	64.20	62.60	61.25	60.76	67.84	74.23	79.39	81.85	78.05
EOM	72.31	68.31	65.94	63.90	62.30	61.17	61.33	68.15	75.42	80.30	81.84	77.25

374306113422501. LOCAL NUMBER, (C-36-17)1acc-1.
LOCATION.--Lat 37°43'06", long 113°42'25", Hydrologic Unit 16030006.
Owner: Sam Arentz.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled water-table well, diameter 4 in. (0.10 m), depth 200 ft (61.0 m), cased to 200 ft (61.0 m).
DATUM.--Land-surface datum is 5,208.41 ft (1,588 m) above mean sea level. Measuring point: Top of casing, 1.50 ft (0.46 m) above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--Apr. 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 111.11 ft (33.9 m) below land-surface datum, Apr. 11, 1975; lowest, 145.99 ft (44.5 m) below land-surface datum, Sept. 30, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	120.21	118.60	117.15	116.00	117.51	118.63	118.57	130.07	134.33	138.63	141.97	145.20
10	119.90	118.35	117.10	115.78	117.84	118.80	118.54	130.55	135.05	139.23	142.59	145.45
15	119.60	118.10	116.88	116.17	118.23	118.78	122.27	131.18	135.82	139.75	142.83	145.35
20	119.35	117.85	116.66	116.56	118.38	118.58	124.96	132.01	136.67	140.09	142.99	145.45
25	119.10	117.62	116.44	116.95	118.48	118.60	127.20	132.52	137.43	140.38	143.62	145.79
EOM	118.85	117.39	116.22	117.33	118.60	118.63	129.05	133.69	138.17	141.17	144.55	145.99

IRON COUNTY--Continued

374309113415301. LOCAL NUMBER, (C-36-17)36add-1.
LOCATION.--Lat 37°43'09", long 113°41'53", Hydrologic Unit 16030006.
Owner: Sherwood Bracken.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 14 in. (0.36 m), depth 202 ft (61.6 m).
DATUM.--Land-surface datum is 5,269.89 ft (1,606 m) above mean sea level. Measuring point: Top of casing, 0.50 ft (0.15 m) 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 (34.3 m) below land-surface datum, Mar. 24, 1950; lowest, 183.94 ft (56.1 m) below land-surface datum, Sept. 10, 1977.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	155.04	150.54	148.91	148.46	148.22	148.08	148.53	153.12	153.73	162.76	169.28	164.80
10	154.04	150.11	149.16	148.49	148.18	148.40	148.43	151.59	154.01	164.92	168.61	166.58
15	152.98	149.90	148.99	148.32	148.16	148.45	148.60	154.72	157.93	164.62	169.21	165.47
20	152.48	149.74	148.63	148.32	148.14	148.00	148.62	152.77	160.89	163.37	167.15	164.46
25	151.44	149.62	148.65	148.20	148.12	148.25	148.53	152.99	162.68	166.12	167.66	163.88
EOM	151.20	148.99	148.45	148.24	148.10	148.52	149.30	153.37	163.45	168.12	167.45	163.45

JUAB COUNTY

395242111502701. LOCAL NUMBER, (D-11-1)8aad-1.
LOCATION.--Lat 39°52'42", long 111°50'27", Hydrologic Unit 16020201.
Owner: Orvil Andrews and others.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Jetted irrigation and stock artesian well, diameter 6 in. (0.15 m), depth 100 ft (30.5 m), cased to 100 ft (30.5 m).
DATUM.--Land-surface datum is 4,929.30 ft (1,502 m) above mean sea level. Measuring point: Top of casing, at land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--Jan. 1956 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.80 ft (1.77 m) above land-surface datum, May 10, 1958; lowest, 36.86 ft (11.2 m) below land-surface datum, Sept. 5, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.11	12.01	9.62	7.96	6.65	5.77	4.93	5.03	6.32	14.05	18.73	20.61
10	15.35	11.53	9.45	7.80	6.50	5.73	4.95	6.31	6.83	14.95	20.27	18.50
15	14.36	11.19	9.20	7.48	6.33	5.56	4.80	7.81	9.51	15.85	19.55	17.42
20	13.78	10.80	8.80	7.31	6.05	5.22	4.83	9.68	10.90	15.98	20.34	16.37
25	13.04	10.47	8.53	7.05	5.88	5.18	4.75	10.05	11.56	16.53	19.73	15.60
EOM	12.56	9.86	8.18	6.84	5.88	5.00	5.12	9.75	13.15	17.42	20.64	15.11

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. (0.15 m), depth 117 ft (36 m), cased to 117 ft (36 m).
DATUM.--Land-surface datum is 5,196.90 ft (1,584 m) above mean sea level. Measuring point: Top of casing, 1.50 ft (0.46 m) above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--Aug. 1935 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 48.56 ft (14.8 m) below land-surface datum, Mar. 22, 1954; lowest, 62.16 ft (18.9 m) below land-surface datum, June 20, 1936.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	55.38	54.97	54.48	54.03	53.69	53.44	53.16	53.11	54.48	55.68	55.93	55.96
10	55.31	54.88	54.51	54.01	53.64	53.40	53.10	53.61	54.86	55.54	56.04	55.92
15	55.17	54.85	54.45	53.87	53.60	53.66	53.05	54.14	55.09	55.58	56.15	55.88
20	55.19	54.78	54.28	53.83	53.56	53.21	53.00	54.02	55.22	55.86	56.16	55.84
25	55.06	54.74	54.23	53.79	53.51	53.20	52.92	54.19	55.38	55.93	55.95	55.80
EOM	55.06	54.53	54.09	53.74	53.48	53.21	52.98	54.28	55.53	55.86	55.97	55.76

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. (0.46 m), depth 700 ft (213 m).
DATUM.--Land-surface datum is 5,620 ft (1,713 m) above mean sea level. Measuring point: Top of casing, 1.60 ft (0.49 m) above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--Feb. 1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 165.10 ft (50.3 m) below land-surface datum, Sept. 29, 1981; lowest, 167.40 ft (51.0 m) below land-surface datum, Apr. 8, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	167.10	167.02	166.74	166.61	166.49	166.34	166.33	165.93	165.87	165.57	165.42	165.26
10	166.99	166.77	166.73	166.75	166.65	166.34	166.33	166.16	165.71	165.65	165.39	165.34
15	166.52	166.80	166.73	166.52	166.34	166.34	166.33	165.77	165.94	165.57	165.58	165.35
20	167.11	166.99	166.72	166.58	166.34	166.33	166.01	165.80	165.77	165.58	165.42	165.19
25	166.78	166.75	166.71	166.44	166.34	166.33	166.05	165.96	165.74	165.53	165.42	165.15
EOM	167.15	166.75	166.70	166.59	166.34	166.33	166.14	165.92	165.66	165.47	165.24	165.13

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. (0.30 m), depth 1,190 ft (363 m), cased to 1,115 ft (340 m), perforated 860-1,050 ft (262-320 m).
DATUM.--Land-surface datum is 4,780 ft (1,457 m) above mean sea level. Measuring point: Top of 12-in. (0.3- m) casing, 2.00 ft (0.61 m) above land-surface datum.
REMARKS.--Record fair.
PERIOD OF RECORD.--Jan. 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 104.83 ft (32.0 m) below land-surface datum, Mar. 7, 1975; lowest, 174.62 ft (53.2 m) below land-surface datum, Aug. 24, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	112.94	112.55	112.12	111.31	114.00	114.20	110.53	110.01	109.96	109.72	109.22	109.41
10	112.86	112.41	112.04	111.56	116.34	113.00	110.28	110.00	109.96	109.68	109.13	109.35
15	112.78	112.41	111.88	110.76	117.88	112.25	110.27	110.00	110.18	109.72	109.18	109.51
20	112.83	112.39	111.60	110.77	118.58	111.38	110.15	110.08	109.91	109.73	109.28	109.59
25	112.59	112.30	111.53	110.64	119.07	111.11	110.03	110.12	109.92	109.50	109.33	109.73
EOM	112.66	112.21	111.33	110.70	117.24	110.83	110.12	110.00	109.80	109.29	109.33	109.98

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. (0.15 m), depth 182 ft (55.5 m).
DATUM.--Land-surface datum is 4,630 ft (1,411 m) above mean sea level. Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--Aug. 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.62 ft (3.54 m) below land-surface datum, May 15, 16, 1981; lowest, 15.91 ft (4.85 m) below land-surface datum, Oct. 16, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.22	12.96	12.50	12.13	11.86	11.65	11.68	11.70	11.74	12.01	12.23	12.31
10	13.12	12.86	12.48	12.12	11.78	11.70	11.67	11.69	11.74	12.05	12.25	12.31
15	13.07	12.83	12.42	12.03	11.82	11.64	11.72	11.62	11.84	12.09	12.27	12.30
20	13.13	12.78	12.29	12.02	11.75	11.64	11.70	11.67	11.84	12.13	12.27	12.25
25	13.00	12.67	12.27	11.95	11.68	11.64	11.70	11.72	11.90	12.14	12.28	12.27
EOM	13.01	12.55	12.18	11.89	11.72	11.63	11.72	11.71	11.95	12.19	12.29	12.31

MILLARD COUNTY--Continued

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. (0.41 m), depth unknown.
DATUM.--Land-surface datum is 4,948 ft (1,508 m) above mean sea level. Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--Apr. 1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.24 ft (4.95 m) below land-surface datum, Apr. 5, 1977; lowest, 20.80 ft (6.34 m) below land-surface datum, Sept. 30, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.80	18.66	18.37	18.30	18.19	18.06	17.98	18.48	18.53	18.95	19.67	20.58
10	18.82	18.60	18.35	18.28	18.17	18.06	17.98	18.55	18.60	19.15	19.80	20.65
15	18.97	18.56	18.35	18.26	18.14	18.05	18.04	18.50	18.66	19.18	20.00	20.70
20	18.97	18.51	18.34	18.23	18.12	18.01	18.22	18.50	18.86	19.25	20.11	20.74
25	18.72	18.46	18.34	18.20	18.06	18.00	18.16	18.56	18.87	19.38	19.85	20.77
EOM	18.71	18.39	18.31	18.20	18.06	18.00	18.45	18.52	18.87	19.58	20.26	20.80

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. (0.15 m), depth 246 ft (75.0 m), cased to 220 ft (67.1 m).
DATUM.--Land-surface datum is 4,744.44 ft (1,446 m) above mean sea level. Measuring point: Top of casing, 0.50 ft (0.15 m) 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 (0.60 m) above land-surface datum, Feb. 24, 1949; lowest, 83.02 ft (25.3 m) below land-surface datum, July 20, 1965.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	53.13	47.65	44.10	41.06	38.25	36.56	37.35	52.73	54.02	60.93	63.93	60.00
10	52.04	47.05	43.60	40.53	37.84	36.43	38.87	54.34	53.46	62.13	62.76	58.34
15	50.50	46.48	43.10	40.00	37.67	36.28	42.74	57.09	54.72	61.75	64.27	57.64
20	49.79	45.92	42.60	39.59	37.32	35.74	44.47	55.03	59.03	60.31	64.73	57.19
25	48.90	45.36	42.10	39.19	36.96	35.89	48.44	53.28	60.08	60.86	64.07	56.67
EOM	48.29	44.53	42.56	38.70	36.89	36.02	52.39	52.65	60.87	62.30	62.11	55.51

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. (0.05 m), depth 455 ft (139 m).
DATUM.--Land-surface datum is 4,230 ft (1,289 m) above mean sea level. Measuring point: Bottom of recorder shelter, 0.50 ft (0.15 m) above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--Dec. 1956 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 24.00 ft (7.32 m) above land-surface datum, May 25, 1973; lowest, 8.00 ft (2.44 m) 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 1980 TO SEPTEMBER 1981
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.70	14.00	13.70	15.00	15.40	16,80	18.20	15.40	15.80	14.80	14.30	15.80
10	12.90	14.60	14.20	15.00	15.40	16.90	14.10	14.00	15.50	14.60	14.30	16.30
15	12.00	14.40	14.50	15.00	15.60	17.20	14.00	13.90	15.20	14.50	14.60	16.50
20	12.50	14.70	14.70	15.20	15.60	17.70	14.90	14.40	15.30	14.10	14.90	11.00
25	13.20	14.50	14.80	15.20	16.70	18.00	14.70	15.10	15.20	13.90	15.40	11.40
EOM	13.40	13.70	15.00	15.30	16.30	18.00	15.00	15.40	15.00	14.00	15.60	12.00

SALT LAKE COUNTY--Continued

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. (0.41 m), depth 795 ft (242 m), perforated 187-372 ft (57-113 m).
DATUM.--Land-surface datum is 4,461 ft (1,360 m) above mean sea level. Measuring point: Top of casing, 2.10 ft (0.64 m) above land-surface datum.
REMARKS.--Record poor.
PERIOD OF RECORD.--Apr. 1966 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 49.75 ft (15.2 m) below land-surface datum, Oct. 25, 1971; lowest, 81.08 ft (24.7 m) below land-surface datum, Sept. 30, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5			---	75.04	75.84	74.23	78.33	79.40	80.22	75.67	72.86	78.75
10			---	75.90	74.68	75.58	78.98	79.57	80.68	74.62	74.39	79.06
15			---	76.17	73.75	76.26	79.74	79.76	80.92	73.87	75.60	79.33
20			---	76.48	73.05	76.45	79.65	79.85	80.20	73.22	76.59	79.89
25			72.21	77.08	72.41	76.64	79.19	79.57	78.50	72.62	77.10	80.46
EOM			73.87	77.39	72.83	77.30	79.19	79.65	76.98	72.10	78.09	81.08

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. (0.51 m), depth 500 ft (152 m), cased to 138 ft (42 m).
DATUM.--Land-surface datum is 4,606.34 ft (1,404 m) above mean sea level. Measuring point: Top of casing, 1 ft (0.30 m) above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--Jan. 1980 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 139.88 ft (42.64 m) below land-surface datum, June 2, 1980; lowest, 168.73 ft (51.43 m) below land-surface datum, Oct. 11, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	164.28	157.96	153.04	148.63	145.93	144.91	142.64	145.37	144.89	151.61	159.08	162.97
10	168.43	156.67	152.42	148.77	145.63	144.53	142.95	144.70	147.31	153.01	159.90	163.34
15	165.10	155.82	151.75	148.26	144.78	143.99	143.29	144.70	148.19	151.99	160.53	163.52
20	162.13	154.78	150.99	147.79	145.36	143.65	143.29	144.19	149.62	154.92	159.71	163.31
25	160.57	154.44	150.32	146.63	145.45	143.41	144.65	143.50	152.36	155.54	162.30	162.18
EOM	159.41	153.18	149.33	145.45	145.14	142.91	145.90	143.35	149.95	157.62	162.01	162.19

404356111503901. LOCAL NUMBER, (D-1-1)16caa-1.
LOCATION.--Lat 40°43'57", 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. (0.51 m), depth 502 ft (153 m), cased to 502 ft (153 m), perforated 90-486 ft (27-148 m).
DATUM.--Land-surface datum is 4,489.69 ft (1,368 m) above mean sea level. Measuring point: Top of casing, at land-surface datum.
REMARKS.-- Record good.
PERIOD OF RECORD.--Sept. 1934 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 48.42 ft (14.8 m) below land-surface datum, July 25, 1938; lowest, 70.65 ft (21.5 m) below land-surface datum, Apr. 29, 1935.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	57.06	57.19	57.30	57.48	57.72	57.91	58.15	58.34	58.27	58.21	58.01	63.25
10	57.08	57.21	57.34	57.52	57.77	57.95	58.18	58.38	58.27	58.16	58.00	63.62
15	57.10	57.23	57.36	57.56	57.80	58.01	58.21	58.40	58.27	58.11	60.83	63.80
20	57.12	57.25	57.40	57.60	57.83	58.07	58.24	58.40	58.26	58.09	60.01	57.98
25	57.14	57.28	57.43	57.65	57.86	58.09	58.27	58.35	58.25	58.07	62.58	58.01
EOM	57.17	57.28	57.45	57.70	57.88	58.12	58.30	58.31	58.25	58.03	62.29	58.03

SALT LAKE COUNTY--Continued

403746111522001. LOCAL NUMBER, (D-2-1)19dad-1.
LOCATION.--Lat 40°37'46", long 111°52'20", Hydrologic Unit 16020204.
Owner: Utah Department of Transportation.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in. (0.15 m), depth 35 ft (10.7 m), cased to 35 ft (10.7 m).
DATUM.--Land-surface datum is 4,400 ft (1,340 m) above mean sea level. Measuring point: Top of casing, at land-surface datum.
REMARKS.--Record good. Well dry from Feb. to June 1981.
PERIOD OF RECORD.--July 1980 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 26.46 ft (8.06 m) below land-surface datum, Aug. 16, 1980; lowest, 36.42 ft (11.10 m) below land-surface datum, July 11, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	30.15	32.35	33.48	34.78						---	34.01	33.34
10	29.95	32.60	33.67	34.83						---	33.87	33.12
15	30.26	32.88	33.89	34.95						35.52	33.47	33.04
20	30.99	33.00	34.14	35.10						35.27	33.51	33.00
25	31.46	33.07	34.41	35.14						34.84	33.39	33.03
EOM	32.00	33.26	34.72	---						34.13	33.32	33.13

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. (0.61 m), depth 1,007 ft (307 m), perforated 525-990 ft (160-302 m).
DATUM.--Land-surface datum is 5,000 ft (1,524 m) above mean sea level. Measuring point: Top of flange, at land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--Mar. 1956 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 515.66 ft (157 m) below land-surface datum, Nov. 25, 1958; lowest, 564.51 ft (172 m) below land-surface datum, Sept. 30, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	557.76	554.50	553.21	552.85	551.78	550.99	551.65	554.70	554.74	559.10	562.08	563.30
10	557.84	554.12	553.61	552.80	551.49	551.22	551.75	554.70	555.14	559.76	562.30	563.50
15	556.80	554.06	553.52	552.51	551.65	550.98	552.26	554.68	555.93	560.40	562.50	563.70
20	556.34	553.90	553.13	552.40	551.34	550.44	552.70	554.62	556.44	560.90	562.70	563.90
25	555.28	553.79	553.13	552.12	551.08	550.91	552.99	554.89	557.46	561.54	562.90	564.07
EOM	555.00	553.14	552.92	551.95	551.22	551.37	554.19	554.76	558.48	562.08	563.10	564.51

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. (0.41 m) to 350 ft (107 m), 12 in. (0.30 m) from 350-741 ft (107-226 m), 10 in. (0.25 m) from 741-1,150 ft (226-351 m), perforated 400-1,150 ft (122-351 m).
DATUM.--Land-surface datum is 4,414 ft (1,345 m) above mean sea level. Measuring point: Top of casing, 1.15 ft (0.35 m) 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 (7.21 m) below land-surface datum, July 5, 1967; lowest, 83.20 ft (25.4 m) below land-surface datum, Aug. 6, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	79.23	75.13	74.08	74.02	74.38	74.41	75.08	78.12	76.98	80.80	83.00	81.18
10	78.87	74.90	74.16	74.22	74.30	74.60	75.29	77.49	78.33	81.00	82.82	79.43
15	77.36	74.76	74.18	74.42	74.42	74.50	75.88	77.25	78.71	81.80	82.20	79.81
20	76.15	74.78	74.03	74.42	74.38	74.41	76.53	76.80	79.63	81.29	82.02	80.64
25	75.48	74.63	74.12	74.32	74.40	74.73	77.00	76.88	80.41	82.00	81.97	80.60
EOM	75.23	74.14	74.04	74.40	74.43	74.80	78.09	76.80	80.80	82.40	82.03	80.75

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. (0.25 m), depth 319 ft (97.2 m).
DATUM.--Land-surface datum is 6,916 ft (2,108 m) above mean sea level. Measuring Point: Top of casing, 1.00 ft (0.30 m) 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 (49.7 m) below land-surface datum, May 20, 1975; lowest, 202.89 ft (61.8 m) below land-surface datum, July 25, 1958.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	167.90	167.70	167.13	166.98	166.67	166.14	166.22	165.74	166.15	166.88	167.36	167.71
10	167.81	167.56	167.52	167.10	166.27	166.41	165.90	165.87	166.20	166.98	167.50	167.81
15	167.33	167.46	167.47	166.87	166.70	166.27	166.11	165.68	166.49	166.95	167.58	167.88
20	167.82	167.55	167.28	166.84	166.45	165.80	165.90	165.81	166.52	167.03	167.69	167.80
25	167.57	167.46	167.34	166.68	166.33	166.17	165.81	166.04	166.80	167.05	167.72	167.77
EOM	167.84	167.22	167.19	166.54	166.40	165.99	165.90	166.10	166.81	167.15	167.66	167.85

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. (0.18 m), depth 140 ft (42.7 m).
DATUM.--Land-surface datum is 6,200 ft (1,890 m) above mean sea level. Measuring point: Top of recorder platform, 3.00 ft (0.91 m) above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--Oct. 1960 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 41.18 ft (12.6 m) below land-surface datum, Aug. 17, 1980; lowest, 57.23 ft (17.4 m) below land-surface datum, Oct. 20, 1960.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	41.33	42.07	42.04	42.56	42.93	42.96	43.83	43.70	43.89	43.58	43.38	43.38
10	41.44	41.94	42.60	42.84	42.58	43.40	43.56	43.80	43.66	43.61	43.43	43.51
15	41.55	41.95	42.63	42.66	43.15	43.41	43.93	43.52	43.86	43.58	43.44	43.61
20	41.66	42.18	42.55	42.74	42.98	42.95	43.79	43.69	43.64	43.56	43.38	43.54
25	41.62	42.14	42.72	42.65	43.00	43.49	43.74	43.89	43.71	43.34	43.46	43.55
EOM	42.09	41.99	42.65	42.66	43.14	43.48	43.90	43.86	43.60	43.38	43.36	43.64

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. (0.10 m), depth 182 ft (55.5 m).
DATUM.--Land-surface datum is 4,393.88 ft (1,339 m) above mean sea level. Measuring point: Top of casing, at land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--Oct. 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.50 ft (0.76 m) below land-surface datum, Apr. 25, 1976; lowest, 25.44 ft (7.75 m) below land-surface datum, July 20, 1968.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.54	14.57	13.44	12.76	12.08	11.57	11.19	12.80	13.81	16.33	18.17	19.13
10	16.12	14.20	13.39	12.65	11.95	11.54	11.11	13.10	13.77	15.94	18.31	18.31
15	15.66	14.09	13.27	12.49	11.94	11.48	11.22	13.40	13.74	16.70	18.61	18.63
20	15.32	13.92	13.11	12.44	11.74	11.28	11.57	13.80	14.63	16.47	18.55	18.08
25	14.96	13.79	13.01	12.33	11.67	11.29	12.00	14.08	15.41	17.08	19.13	18.11
EOM	14.76	13.55	12.83	12.18	11.67	11.24	12.40	13.96	16.17	17.72	18.85	18.06

TOOELE COUNTY--Continued

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. (0.15 m), depth 176 ft (53.6 m), cased to 166 ft (50.6 m).
DATUM.--Land-surface datum is 4,373.70 ft (1,333 m) 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 (22.2 m) below land-surface datum, June 11, 1952; lowest, 98.81 ft (30.1 m) below land-surface datum, Oct. 7, 1961.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	93.89	92.78	92.11	91.68	91.00	90.60	90.70	90.83	90.89	93.24	96.00	97.71
10	93.79	92.60	92.11	91.59	90.80	90.62	90.70	90.93	90.94	93.90	96.50	97.34
15	93.56	92.54	92.04	91.42	90.66	90.65	90.70	90.93	90.98	94.20	96.99	96.95
20	93.46	92.42	91.91	91.35	90.57	90.65	90.72	90.82	91.26	94.60	97.33	96.74
25	93.20	92.42	91.86	91.24	90.60	90.65	90.71	90.86	91.82	95.00	97.39	96.58
EOM	92.98	92.29	91.77	91.10	90.60	90.70	90.87	90.88	92.75	95.50	97.67	96.45

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. (0.20 m), depth 175 ft (53.3 m), cased to 175 ft (53.3 m), perforated 115-175 ft (35.1-53.3 m).
DATUM.--Land-surface datum is 4,850 ft (1,478 m) above mean sea level. Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--Nov. 1946 to Mar. 1947, Jan. 1951 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 73.32 ft (22.3 m) below land-surface datum, Jan. 26, 1951; lowest, 93.67 ft (28.6 m) below land-surface datum, Oct. 15, 1966.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	82.44	82.00	81.67	81.43	81.17	81.00	80.89	81.11	81.36	82.10	82.72	82.93
10	82.37	81.92	81.74	81.44	81.10	81.06	80.80	81.05	81.46	82.20	82.73	82.94
15	82.24	81.93	81.66	81.35	81.05	81.06	80.89	81.17	81.65	82.30	82.83	82.95
20	82.26	81.85	81.55	81.31	81.03	80.84	80.89	81.22	81.65	82.40	82.86	82.86
25	82.04	81.88	81.52	81.27	81.00	80.88	80.90	81.29	81.82	82.51	82.89	82.87
EOM	82.11	81.62	81.43	81.26	81.07	80.92	80.91	81.29	82.00	82.65	82.95	82.95

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. (0.30 m), depth 43 ft (13.1 m), cased to 32 ft (9.75 m).
DATUM.--Land-surface datum is 5,992 ft (1,826 m) above mean sea level. Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--May 1965 to Aug. 1966, Mar. 1972 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.97 ft (0.30 m) below land-surface datum, July 5, 1966; lowest, 7.50 ft (2.29 m) below land-surface datum, Sept. 5, 1974.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.90	4.90	5.06	5.29	5.61	5.39	5.33	5.57	2.43	4.71	5.46	5.84
10	5.03	4.99	5.11	5.39	5.70	5.38	5.37	5.63	4.25	4.95	5.36	5.87
15	4.15	4.63	5.27	5.49	5.72	5.40	5.42	5.65	4.61	4.44	5.39	6.08
20	4.43	5.03	5.29	5.52	5.57	5.31	5.45	5.36	4.76	3.94	5.77	6.30
25	4.68	5.02	5.29	5.53	5.55	5.36	5.49	5.21	4.98	4.62	5.89	6.26
EOM	4.81	5.15	5.28	5.56	5.49	5.30	5.52	1.33	4.85	5.04	6.04	6.40

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. (0.41 m), depth 1,258 ft (383 m), cased to 1,254 ft (382 m).
DATUM.--Land-surface datum is 4,865.70 ft (1,483 m) above mean sea level. Measuring point: Top of casing, at land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--Dec. 1954 to Apr. 1955, Mar. 1963 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 109.06 ft (33.2 m) below land-surface datum, Apr. 12, 1955; lowest, 141.41 ft (43.1 m) below land-surface datum, Aug. 15, 1965.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	123.56	120.56	119.67	119.36	119.09	118.84	118.77	121.85	121.41	122.76	122.98	122.01
10	122.81	120.29	119.37	119.35	118.98	118.94	118.67	122.17	120.83	122.76	122.12	121.34
15	122.12	120.20	119.69	119.27	119.07	118.87	118.73	122.51	121.39	122.84	122.04	120.97
20	121.69	120.10	119.53	119.26	118.98	118.70	119.40	122.78	122.03	122.87	122.45	120.52
25	121.14	119.96	119.51	119.17	118.88	118.76	120.57	123.07	122.21	122.86	122.62	120.24
EOM	120.83	119.73	119.42	119.10	118.92	118.72	121.55	122.26	122.43	123.01	122.71	120.04

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. (0.36 m), depth 240 ft (73.1 m), cased to 240 ft (73.1 m), perforated at 85, 105, 165, and 200 ft (25.9, 32.0, 50.3, and 61.0 m).
DATUM.--Land-surface datum is 4,555.03 ft (1,388 m) above mean sea level. Measuring point: Top of recorder platform, 3.50 ft (1.07 m) above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--Sept. 1935 to Dec. 1936, Apr. 1947, Mar. 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.72 ft (0.52 m) below land-surface datum, Feb. 15, 1970, Feb. 28, 1970; lowest, 35.29 ft (10.8 m) below land surface datum, Aug. 31, 1963.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.68	6.58	5.56	5.50	5.47	5.55	5.83	8.29	7.59	17.07	19.32	17.43
10	10.97	6.33	5.80	5.54	5.44	6.27	5.88	8.35	10.42	17.14	19.35	15.26
15	9.15	6.20	5.75	5.40	5.60	6.00	6.50	10.11	11.79	16.70	17.92	14.68
20	8.06	6.10	5.68	5.39	5.60	5.94	6.86	8.28	13.80	16.94	18.52	15.73
25	5.51	5.85	5.94	5.44	5.53	5.76	8.52	7.73	14.79	18.23	17.22	14.83
EOM	7.15	5.65	5.72	5.47	5.48	5.79	8.84	7.39	16.55	18.59	17.42	14.59

402236111511501. LOCAL NUMBER, (D-5-1)20aba-1.
LOCATION.--Lat 40°22'36", long 111°51'15", Hydrologic Unit 16020201.
Owner: Jacob G. Cox.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Jetted irrigation artesian well, diameter 3 in. (0.08 m), depth 292 ft (89.0 m), cased to 292 ft (89.0 m).
DATUM.--Land-surface datum is 4,522.10 ft (1,378 m) above mean sea level. Measuring point: Top of 3-in. (0.08-m) elbow, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Well is used in summer months for irrigation. Record fair.
PERIOD OF RECORD.--Sept. 1935 to current year.
EXTREMES FOR PERIOD OF RECORD.-- Highest water level, 60.40 ft (18.4 m) above land-surface datum, Apr. 7, 1953; lowest, 12.60 ft (3.84 m) above land-surface datum, Sept. 20, 1961.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	49.00	50.00	50.50	50.00	50.50	49.00	42.50				
10	42.00	49.00	50.00	50.50	50.00	50.00	48.00	43.00				
15	42.50	49.00	50.05	50.50	51.00	50.00	48.00	43.50				
20	44.00	49.00	50.00	50.50	51.00	50.00	---	45.00				
25	46.00	50.00	50.50	50.50	51.00	50.00	---	46.00				
EOM	47.50	50.00	50.50	50.50	51.00	50.00	---	46.50				

UTAH COUNTY--Continued

402234111511502. LOCAL NUMBER, (D-5-1)20aba-2.
LOCATION.--Lat 40°22'34", long 111°51'15", Hydrologic Unit 16020201.
Owner: Jacob G. Cox.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Jetted unused artesian well, diameter 2 to 2 1/2 in. (0.06 to 0.05 m), depth 154 ft (46.9 m), cased to 152 ft (46.3 m).
DATUM.--Land-surface datum is 4,522 ft (1,378 m) above mean sea level. Measuring point: Top of 3/4-in. (0.02-m) ell, 1.50 ft (0.46 m) above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--Sept. 1935 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 37.90 ft (11.6 m) above land-surface datum, Feb. 10, 1970; lowest, 4.70 ft (1.43 m) above land-surface datum, July 20, 25, Aug. 5, 1961.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.80	30.10	30.90	31.40	31.60	31.70	31.40	28.50	27.40	13.90	13.80	14.60
10	25.00	30.40	30.90	31.30	31.60	31.30	31.60	27.80	24.00	14.70	13.50	20.00
15	27.00	30.60	31.10	31.40	31.70	31.00	31.50	26.40	21.00	14.40	15.40	20.70
20	29.10	30.60	31.10	31.60	31.80	31.20	30.70	28.10	17.90	14.10	16.00	21.40
25	29.80	30.70	31.20	31.40	32.10	31.30	24.70	28.80	16.00	13.80	16.20	22.10
EOM	30.20	30.90	31.40	31.80	31.70	31.30	24.90	29.50	14.30	13.50	15.50	22.80

400510111352201. LOCAL NUMBER, (D-8-3)34bab-1.
LOCATION.--Lat 40°05'10", long 111°35'22", Hydrologic Unit 16020201.
Owner: Olson Brothers.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused irrigation well, diameter 16 in. (0.41 m), depth 470 ft (143 m), cased to 470 ft (143 m).
DATUM.--Land-surface datum is 4,800 ft (1,463 m) above mean sea level. Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Record fair.
PERIOD OF RECORD.--Nov. 1961 to Apr. 1962, Mar. 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 133.96 ft (40.8 m) below land-surface datum, June 25, 1975; lowest, 166.72 ft (50.8 m) below land-surface datum, Aug. 25, 1966.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	144.37	143.31	143.16	143.42	143.84	144.21	144.83	145.23	145.24	146.96	149.56	148.34
10	144.17	143.28	143.46	143.56	143.66	144.46	144.58	145.15	145.45	147.11	149.17	148.25
15	143.89	143.39	143.43	143.44	144.08	144.41	144.82	145.16	146.27	147.28	148.38	148.49
20	143.78	143.20	143.28	143.57	143.90	144.12	144.74	145.27	146.24	147.37	148.19	148.04
25	143.42	143.43	143.41	143.70	143.90	144.44	144.75	145.26	146.58	147.43	148.11	148.33
EOM	143.53	142.92	143.33	143.82	144.25	144.63	145.23	145.14	146.77	149.21	148.25	148.58

WASHINGTON COUNTY

372815113134801. LOCAL NUMBER, (C-38-12)20cca-1.
LOCATION.--Lat 37°28'15", long 113°13'48", Hydrologic Unit 15010008.
Owner: E. Graff.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused irrigation artesian well, diameter 14 in. (0.36 m), depth 290 ft (88.4 m), cased to 185 ft (56.4 m), perforated 80-90 ft (24.4-27.4 m), 93-116 ft (28.3-35.4 m), 150-152 ft (45.7-46.3 m), open hole 185-290 ft (56.4-88.4 m).
DATUM.--Land-surface datum is 5,150 ft (1,570 m) above mean sea level. Measuring point: Top of shelter floor, 1.40 ft (0.43 m) above land-surface datum.
REMARKS.-- Record good.
PERIOD OF RECORD.--Nov. 1969 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 34.05 ft (10.4 m) below land-surface datum, June 10, 1980; lowest, 47.08 ft (14.3 m) below land-surface datum, Oct. 15, 1972.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	35.23	35.32	35.37	35.52	35.68	35.79	36.04	36.13	36.23	36.57	37.07	37.53
10	35.28	35.29	35.48	35.55	35.71	35.87	36.08	36.11	36.28	36.65	37.13	37.62
15	35.24	35.31	35.51	35.54	35.74	35.91	36.15	36.10	36.36	36.74	37.22	37.70
20	35.33	35.36	35.49	35.60	35.72	35.83	36.17	36.14	36.39	36.84	37.28	37.76
25	35.26	35.41	35.51	35.60	35.74	35.92	36.13	36.21	36.46	36.90	37.36	37.83
EOM	35.35	35.33	35.48	35.66	35.81	36.04	36.16	36.21	36.50	36.98	37.46	37.92

WASHINGTON COUNTY--Continued

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. (0.30 m), depth 375 ft (114 m), cased to 203 ft (61.9 m).
DATUM.--Land-surface datum is 3,600 ft (1,097 m) above mean sea level. Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--Mar. 1971 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 209.79 ft (63.9 m) below land-surface datum, Jan 20, 1974; lowest, 225.61 ft (68.8 m) below land-surface datum, Oct. 15, 1977.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	220.67	219.73	218.84	218.04	217.65	217.61	218.17	219.00	218.27	219.79	221.38	222.54
10	220.48	219.63	218.89	217.94	217.55	217.68	218.46	218.77	218.24	220.04	221.71	222.45
15	220.21	219.56	218.63	217.69	217.54	217.71	218.45	218.71	218.86	220.24	221.89	222.49
20	220.18	219.40	218.41	217.68	217.48	217.35	218.54	218.65	219.08	220.50	222.13	222.56
25	219.84	219.38	218.30	217.65	217.55	217.48	218.79	218.63	219.56	220.69	222.33	222.68
EOM	220.08	218.87	218.00	217.75	217.80	217.97	218.99	218.40	219.73	220.99	222.42	222.68

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. (0.20 m), depth 155 ft (47.2 m), perforated 105-115 ft (32.0-35.1 m), 125-145 ft (38.1-44.2 m).
DATUM.--Land-surface datum is 4,924 ft (1,501 m) above mean sea level. Measuring point: Top of casing, 2.00 ft (0.61 m) above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--Jan. 1956 to Mar. 1966, Oct. 1968 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.16 ft (2.49 m) below land-surface datum, June 22, 1978; lowest, 34.96 ft (10.6 m) below land-surface datum, Nov. 30, 1956.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.09	18.91	19.18	20.24	19.62	19.54	18.98	19.97	15.60	20.46	23.17	24.95
10	16.20	19.04	19.39	20.08	19.53	19.58	19.06	18.12	16.40	20.76	23.67	24.04
15	16.30	18.90	19.57	20.04	19.70	20.82	19.33	19.32	17.20	21.21	23.90	24.58
20	17.94	18.80	19.70	20.03	19.83	19.43	19.86	17.84	18.91	21.71	24.13	24.19
25	18.21	19.02	20.05	20.23	19.79	19.30	19.25	16.01	19.60	22.18	24.50	24.20
EOM	18.79	19.15	20.24	19.76	19.66	18.96	18.95	15.29	19.91	22.68	25.10	24.22

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. (0.40 m), depth 595 ft (181 m), cased to 400 ft (122 m).
DATUM.--Land-surface datum is 4,275 ft (1,303 m) above mean sea level. Measuring point: Top of casing, 0.10 ft (0.03 m) below land-surface datum.
REMARKS.--Record good. Recorder installed Oct. 1981. Replaces (B-6-1)30cca-1.
PERIOD OF RECORD.--Aug. 1935 to Dec. 1950, Jan. 1953 to Oct. 1961, Feb. 1963 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 20.50 ft (6.25 m) above land-surface datum, Mar. 11, 1937; lowest, 11.38 ft (3.47 m) below land-surface datum, Sept. 10, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	6.58	4.68	3.61	2.63	1.94	2.10	3.01	3.77	5.68	9.07	11.22
10	---	6.18	4.54	3.44	2.49	1.93	2.20	3.22	3.94	6.35	9.60	11.38
15	---	5.89	4.35	3.27	2.43	1.78	2.30	3.25	4.20	7.40	9.99	11.37
20	7.84	5.59	4.16	3.13	2.26	1.68	2.50	3.35	4.36	7.62	10.27	11.21
25	7.44	5.31	3.95	2.97	2.11	2.80	2.62	3.45	4.64	8.10	10.62	11.09
EOM	6.99	4.96	3.78	2.88	2.08	2.00	2.77	3.65	5.12	8.70	10.93	10.98

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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		--	81-06-09	660	--	16.0	--	--	--	--
382924112592901	(C-28-10) 5ADD- 1	100VLFL	--	81-07-16	720	7.8	20.5	200	--	47	19
382336112592601	(C-28-10) 8ADD- 2		185	81-06-09	1020	--	16.0	--	--	--	--
382204113001302	(C-28-10)17CDC- 2	100VLFL	220	81-07-01	850	--	26.0	--	--	--	--
382019112591701	(C-28-10)28CCC- 1	100VLFL	415	81-07-16	690	7.9	20.0	260	--	55	30
382020113015701	(C-28-11)25DCD- 1	100VLFL	431	81-07-01	1600	7.0	18.0	730	--	210	49
381625112412901	(C-29- 7)19BCD- 1	100VLFL	256	81-07-01	400	7.2	14.5	170	--	52	10
381516112422201	(C-29- 8)25CAC- 1	100VLFL	250	81-06-09	280	--	23.0	--	--	--	--
381435112471401	(C-29- 8)31ADD- 1	100VLFL	310	81-07-01	750	7.4	14.5	230	--	65	17
381835113000001	(C-29-10) 5CDD- 5	100VLFL	95	81-06-09	940	--	14.0	--	--	--	--
381714113003401	(C-29-10)18DAA- 1	100VLFL	298	81-07-01	360	--	16.5	--	--	--	--
381901113014101	(C-29-11) 1ADD- 2	100VLFL	64	81-06-09	940	7.5	20.0	400	--	120	25
381700113033401	(C-29-11)14CDB- 1	100VLFL	--	81-07-01	450	--	18.5	--	--	--	--
				BOX ELDER COUNTY							
412214112023301	(B- 7- 2) 2CBA- 5	100VLFL	342	81-08-06	400	--	14.5	--	--	--	--
412740112023401	(B- 8- 2) 2BCB- 1		--	81-08-10	760	--	12.5	--	--	--	--
412736112023601	(B- 8- 2) 2BCC- 1		--	81-08-10	420	--	12.0	--	--	--	--
412405112022501	(B- 8- 2)26BCD- 1	100VLFL	118	81-08-10	450	7.4	13.0	230	--	62	18
413057112023901	(B- 9- 2)15DAA- 1	100VLFL	465	81-08-11	600	8.6	17.0	14	--	4.1	1.0
412903112012201	(B- 9- 2)25CCB- 1		--	81-08-10	550	--	15.0	--	--	--	--
412943112014201	(B- 9- 2)26ABA- 2		--	81-08-11	340	--	16.5	--	--	--	--
412825112014201	(B- 9- 2)35ADC- 1		--	81-08-11	380	--	14.0	--	--	--	--
414313112172501	(B-11- 4) 3BAC- 1		--	81-06-30	1870	--	16.0	--	--	--	--
413806113543401	(B-11-18)33ADB- 1		232	81-07-28	960	--	11.0	--	--	--	--
414339112173401	(B-12- 4)34CCA- 1	100VLFL	292	81-07-17	1840	7.2	17.0	530	--	120	56
414418112154801	(B-12- 4)35AAB- 1		--	81-06-30	1930	--	16.5	--	--	--	--
414802113073701	(B-12-11) 5BAC- 1		--	81-07-30	2500	--	15.5	--	--	--	--
414813113074801	(B-12-11) 5BBA- 1	100VLFL	--	81-07-30	1280	--	17.5	--	--	--	--
414813113075401	(B-12-11) 5BBB- 1	100VLFL	240	81-07-30	1540	7.7	15.0	570	--	155	44
414747113073701	(B-12-11) 5BDC- 1		190	81-07-30	2130	--	15.0	--	--	--	--
414721113064801	(B-12-11) 8AAA- 1		--	81-07-30	5460	--	16.5	--	--	--	--
414710113071601	(B-12-11) 8ABB- 1		275	81-07-30	2340	--	14.5	--	--	--	--
414634113075401	(B-12-11) 8CCC- 1		--	81-07-30	1080	--	15.0	--	--	--	--
414617113075301	(B-12-11)17BBC- 1		--	81-07-30	1370	--	14.5	--	--	--	--
415320112290901	(B-13- 6) 1DBB- 1		704	81-05-19	770	7.4	19.0	--	--	--	--
415832112464301	(B-14- 8) 5BDB- 1		--	81-05-19	1850	--	18.5	--	--	--	--
415828112472601	(B-14- 8) 6ACD- 1		--	81-05-13	1570	--	17.0	--	--	--	--
415825112470501	(B-14- 8) 6ADD- 1		--	81-05-19	1590	--	19.5	--	--	--	--
415737112431601	(B-14- 8)11BCA- 1	100VLFL	416	81-05-19	2800	--	11.5	--	--	--	--
415847112532901	(B-14- 9) 5BAA- 1	100VLFL	405	81-07-20	1130	--	19.0	--	--	--	--
415847112540401	(B-14- 9) 5BBB- 1	100VLFL	300	81-05-13	690	7.5	16.5	270	--	79	17
415759112534701	(B-14- 9) 5CCD- 1	100VLFL	400	81-05-13	4400	--	16.5	--	--	--	--
415754112551301	(B-14- 9) 7BBB- 1		608	81-06-17	790	7.2	19.0	--	--	--	--
415703112513501	(B-14- 9)16AAA- 1		--	81-06-02	2500	--	13.5	--	--	--	--
415637112513401	(B-14- 9)16DAA- 1		--	81-05-19	1530	--	14.5	--	--	--	--
415635112533001	(B-14- 9)17CAA- 1		--	81-06-02	2670	--	18.5	--	--	--	--
415637112544101	(B-14- 9)18BDD- 1		--	81-06-02	1530	--	16.5	--	--	--	--
415608112551201	(B-14- 9)19BBB- 1		--	81-06-02	950	--	15.5	--	--	--	--
415845112562201	(B-14-10) 1BBB- 1	100VLFL	420	81-07-20	540	7.7	16.0	210	--	59	16
415726112573301	(B-14-10)11CBB- 1		--	81-06-03	630	--	21.0	--	--	--	--
415737112562201	(B-14-10)12BCB- 1		--	81-06-02	620	--	18.0	--	--	--	--
415723112562201	(B-14-10)12CBB- 1		--	81-06-02	850	--	17.5	--	--	--	--
415634112555201	(B-14-10)13CAA- 1		--	81-06-02	940	--	16.0	--	--	--	--
415636112564301	(B-14-10)14ACD- 1		--	81-06-03	1340	--	18.5	--	--	--	--
415654112573301	(B-14-10)14BBC- 1	100VLFL	840	81-06-03	1380	--	23.0	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.
112PLCN - PLEISTOCENE SERIES, PLEISTOCENE AGE.
112PVNT - PAVANT FLOW, PLEISTOCENE AGE.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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							
--	--	--	--	--	--	--	--	--	--	--	--	--
63	2.5	--	60	150	0.2	25	413	0.82	0.04	10	1	160
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
32	3.2	--	130	79	0.4	32	415	1.2	0.03	30	3	60
67	7.6	--	450	170	0.4	41	1110	1.9	0.02	20	1	120
24	4.4	--	31	27	0.7	37	286	2.2	0.04	30	3	50
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72	5.1	--	58	37	0.7	49	480	1.7	0.10	10	1	130
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38	5.8	--	87	130	0.3	38	576	2.7	0.04	10	1	60
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					BOX ELDER COUNTY							
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7.5	3.0	--	40	9.4	0.1	11	274	0.02	0.04	2100	310	30
150	2.0	--	9.0	14	0.6	17	385	0.19	1.5	200	16	230
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150	4.3	--	120	420	0.2	23	1010	2.4	0.09	10	1	60
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93	11	--	60	380	0.2	28	907	3.6	0.01	0	1	80
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30	9.1	--	31	120	0.1	54	431	1.5	0.05	10	3	40
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29	7.2	--	28	76	0.2	63	363	0.00	0.01	0	1	20
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GEOLOGICAL UNIT (AQUIFER)--CONTINUED

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.
220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.
231SRMP - SHINARUMP MEMBER OF CHINLE FORMATION, UPPER TRIASSIC AGE.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
				BOX ELDER COUNTY							
415622112573601	(B-14-10)15DDA- 1	100VLFL	550	81-06-03	910	--	19.5	--	--	--	--
415605112570401	(B-14-10)23BBB- 1		--	81-06-03	1790	--	20.0	--	--	--	--
415956112525201	(B-15- 9)28CBB- 1	100VLFL	400	81-05-19	5870	7.0	23.5	1600	--	450	120
415955112540301	(B-15- 9)29CBB- 1		--	81-07-20	6340	--	23.0	--	--	--	--
415847112545301	(B-15- 9)31CDC- 1		--	81-07-20	770	--	19.0	--	--	--	--
415918112530801	(B-15- 9)32DAB- 1		--	81-07-20	2440	--	21.0	--	--	--	--
415941112495801	(B-15- 9)35ABB- 1		--	81-05-19	2980	--	23.0	--	--	--	--
415939112562201	(B-15-10)36BBB- 1	100VLFL	613	81-07-20	450	7.9	16.5	--	--	--	--
				CACHE COUNTY							
414216111511001	(A-11- 1) 8DDA- 3	100VLFL	85	81-07-17	490	7.3	10.0	260	--	64	25
415020111520401	(A-13- 1)29BCD- 1	100VLFL	334	81-07-17	410	7.5	14.0	180	--	39	21
				DAVIS COUNTY							
405535111525101	(A- 2- 1) 7ABA- 4	100VLFL	450	81-08-05	260	8.0	16.0	--	--	--	--
405019111560001	(B- 1- 1)10AAC- 1		231	81-08-05	2800	--	15.5	--	--	--	--
405338111544001	(B- 2- 1)23ADD- 2		--	81-08-05	500	--	17.0	--	--	--	--
405451111540801	(B- 2- 1)24BAD- 3	100VLFL	386	81-08-05	450	8.0	16.0	110	--	32	7.0
405258111544101	(B- 2- 1)26AAD- 3	100VLFL	--	81-08-05	860	--	12.0	--	--	--	--
405305111550101	(B- 2- 1)26ABA- 1		--	81-08-05	900	--	14.5	--	--	--	--
410135111580001	(B- 3- 1) 4BCA- 2		250	81-08-04	340	--	16.0	--	--	--	--
410008111545401	(B- 3- 1)12CCD- 1	100VLFL	65	81-08-05	420	--	12.5	--	--	--	--
405959111564101	(B- 3- 1)15BAC- 1	100VLFL	985	81-08-04	320	8.2	20.5	87	--	29	3.6
410608112064401	(B- 4- 2) 7BAD- 1	100VLFL	--	81-08-04	460	--	14.5	--	--	--	--
410430112054001	(B- 4- 2)17CDD- 1	100VLFL	583	81-08-04	370	--	16.0	--	--	--	--
410340112030001	(B- 4- 2)27ABA- 1		304	81-08-04	830	8.8	13.5	14	--	3.0	1.5
410354112135201	(B- 4- 3)19CAA- 3		430	81-08-04	1170	--	24.5	--	--	--	--
410830111584001	(B- 5- 1)29BDC- 1		627	81-08-06	560	--	11.5	--	--	--	--
410835111591501	(B- 5- 1)30ADA- 1		900	81-08-06	490	7.7	12.0	260	--	73	18
410820112041501	(B- 5- 2)28DBA- 2		--	81-08-04	1110	--	15.5	--	--	--	--
410710112071901	(B- 5- 3)36DDD- 1		--	81-08-04	360	--	18.5	--	--	--	--
				GARFIELD COUNTY							
380920111585001	(C-31- 2)23BCD- 1	100VLFL	90	81-08-26	420	8.4	19.0	220	--	68	11
375924112234001	(C-32- 5)35BAB- 1		456	81-08-26	270	--	14.5	--	--	--	--
				GRAND COUNTY							
383539109340901	(D-25-21)26DCC- 1	112ALVM	55	81-03-02	510	7.9	10.0	260	--	73	20
				IRON COUNTY							
375257112483501	(C-33- 8)31CCC- 2		450	81-07-07	470	7.8	17.5	190	--	40	22
375320112510001	(C-33- 9)35ACD- 2	100VLFL	500	81-07-07	480	7.3	13.5	220	--	46	25
375151112525002	(C-34- 9) 9BBD- 2		324	81-07-07	860	6.5	16.5	450	--	110	43
375033112561101	(C-34-10)13CBD- 2	100VLFL	--	81-07-07	520	--	12.5	--	--	--	--
374834113384301	(C-34-16)28DCC- 2	100VLFL	148	81-06-05	1070	7.7	14.0	410	--	130	20
374619113053101	(C-35-11) 9DBA- 1		--	81-06-11	610	7.6	15.0	310	--	61	38
374550113040601	(C-35-11)11CCC- 1		300	81-05-27	870	--	13.5	--	--	--	--
374304113052901	(C-35-11)33CAC- 1		236	81-07-21	1010	7.0	13.0	600	--	140	60
374623113381301	(C-35-16) 9ADD- 1		150	81-06-05	930	7.6	13.0	390	--	120	21
374412113384503	(C-35-16)21DCC- 3	100VLFL	300	81-06-23	490	--	15.0	--	--	--	--
374227113394101	(C-35-16)32DCD- 1	100VLFL	140	81-06-23	900	7.6	17.0	390	--	120	22
374105113084901	(C-36-12)12DBA- 1	100VLFL	600	81-06-11	540	7.7	13.5	--	--	--	--
373915113125601	(C-36-12)21CBB- 1	100VLFL	228	81-05-27	320	7.9	14.0	160	--	42	13
374040113343102	(C-36-15) 7CDD- 2		500	81-06-05	1500	7.8	23.0	290	--	89	16
374212113394501	(C-36-16) 5L 1- 1	100VLFL	200	81-06-05	1920	6.8	14.0	940	--	290	53

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.
112PLCN - PLEISTOCENE SERIES, PLEISTOCENE AGE.
112PVNT - PAVANT FLOW, PLEISTOCENE AGE.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
					BOX ELDER COUNTY							
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610	2.5	--	99	1900	0.1	65	3320	2.4	0.02	100	20	90
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					CACHE COUNTY							
6.9	1.2	--	27	7.2	0.1	10	285	1.1	0.03	10	1	20
28	1.4	--	13	13	0.1	11	254	0.25	0.04	170	40	40
					DAVIS COUNTY							
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63	1.1	--	28	35	0.2	17	286	1.5	0.05	16	7	30
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59	2.2	--	1.0	17	0.3	29	254	0.80	0.04	640	120	50
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190	8.7	410	2.0	29	0.5	25	507	0.00	0.56	72	6	400
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20	2.0	--	33	19	0.1	12	319	0.71	0.02	20	13	30
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					GARFIELD COUNTY							
12	2.6	200	16	4.8	0.2	36	281	--	0.06	200	90	50
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					GRAND COUNTY							
21	2.6	--	120	17	0.4	12	363	0.08	0.02	--	--	60
					IRON COUNTY							
22	2.7	--	26	31	0.2	29	280	1.1	0.05	0	1	40
13	2.5	--	24	18	0.1	26	275	2.8	0.04	0	1	20
12	3.3	320	98	33	0.1	29	539	4.2	0.04	10	4	30
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35	7.7	--	85	190	0.4	54	609	1.9	0.03	40	20	90
18	2.6	--	180	8.7	0.3	22	423	0.42	0.03	0	2	40
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17	2.9	--	340	18	0.1	18	775	2.5	0.03	0	2	40
22	6.0	--	48	150	0.1	48	531	3.1	0.05	50	20	50
--	--	--	--	--	--	--	--	--	--	--	--	--
26	7.4	--	47	98	0.2	51	526	2.2	0.03	0	2	30
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11	2.9	--	40	15	0.2	42	240	0.31	0.04	20	2	30
220	8.6	--	520	67	2.8	52	1040	0.87	0.01	130	40	600
34	9.2	--	130	370	0.1	38	1160	7.0	0.22	10	7	30

GEOLOGICAL UNIT (AQUIFER)--CONTINUED

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.
220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.
231SRMP - SHINARUMP MEMBER OF CHINLE FORMATION, UPPER TRIASSIC AGE.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
				IRON COUNTY							
374015113391501	(C-36-16) 9BDC- 1	100VLFL	272	81-06-05	390	7.8	15.5	180	--	57	8.9
373854113411501	(C-36-16)19ABB- 1	100VLFL	352	81-06-05	420	--	12.0	--	--	--	--
373710113381201	(C-36-16)27CDC- 1	100VLFL	344	81-06-05	650	--	17.0	--	--	--	--
373656113415201	(C-36-17)36AAD- 1	100VLFL	363	81-07-31	490	--	12.0	--	--	--	--
373407113100801	(C-37-12)23ACB- 1	100VLFL	300	81-05-28	780	7.7	13.5	320	--	72	34
373234113111601	(C-37-12)34ABB- 1	100VLFL	190	81-07-21	920	7.2	13.0	--	--	--	--
				JUAB COUNTY							
395319113431201	(C-11-17)11AAA- 1		480	81-07-21	420	7.6	15.5	130	--	38	9.1
394545111531001	(C-12- 1)24BAA- 1	100VLFL	66	81-06-25	1300	--	12.5	--	--	--	--
394215111530501	(C-13- 1) 1CDD- 1		150	81-06-25	1100	--	10.0	--	--	--	--
393955112293101	(C-13- 6)26BAC- 1	100VLFL	175	81-07-07	3370	7.9	15.0	760	--	91	130
394518111515801	(D-12- 1)19DBB- 1	100VLFL	248	81-06-25	1300	7.5	12.0	310	--	75	30
394225111495701	(D-13- 1) 4CCA- 1	100VLFL	375	81-07-15	1600	--	12.0	--	--	--	--
394136111512001	(D-13- 1) 7DAD- 2		228	81-06-25	1730	7.3	10.0	490	--	130	40
394137111515001	(D-13- 1) 7DBC- 1		210	81-06-25	1500	7.4	11.0	470	--	110	48
394132111512001	(D-13- 1) 7DDA- 1	100VLFL	145	81-06-25	1820	--	10.0	--	--	--	--
393301111512501	(D-14- 1)31DAB- 1		420	81-06-24	1200	7.2	11.0	520	--	130	47
				KANE COUNTY							
370843112340602	(C-42- 6)19BDC- 2	220NVJO	250	81-07-30	240	--	15.0	--	--	--	--
				MILLARD COUNTY							
393154112192901	(C-15- 4) 8CBA- 1	100VLFL	--	81-06-29	3300	--	14.5	--	--	--	--
393158112152001	(C-15- 4)11ADD- 1	100VLFL	485	81-07-01	2250	7.0	15.5	700	--	160	74
393102112194501	(C-15- 4)18DAA- 1	100VLFL	--	81-07-14	2900	--	16.0	--	--	--	--
392854112154601	(C-15- 4)26DCC- 1		660	81-07-01	840	7.2	15.0	410	--	110	32
392913112364301	(C-15- 7)27DAA- 1		--	80-11-25	800	--	14.0	--	--	--	--
392344112203801	(C-16- 4)30CAC- 1	100VLFL	337	81-07-09	700	8.0	14.0	300	--	75	28
392135113585501	(C-17-19) 4ADD- 1	100VLFL	640	81-09-03	450	7.8	16.5	150	--	35	14
391313112234601	(C-18- 5)27DBA- 1	100VLFL	520	81-06-16	1160	--	17.0	--	--	--	--
391303112243201	(C-18- 5)28DDA- 1	100VLFL	550	81-06-16	1060	--	17.0	--	--	--	--
391234112233601	(C-18- 5)34ADB- 1	100VLFL	354	81-06-16	1600	--	16.5	--	--	--	--
391246112241601	(C-18- 5)34BBA- 2	100VLFL	502	81-06-16	1400	--	17.0	--	--	--	--
391232112241501	(C-18- 5)34BCA- 1	100VLFL	400	81-06-16	1820	--	19.0	--	--	--	--
391231112230101	(C-18- 5)35BDB- 1		--	81-07-09	760	--	16.0	--	--	--	--
391224112220201	(C-18- 5)36BCD- 1		--	81-06-16	660	--	19.5	--	--	--	--
391212112221301	(C-18- 5)36CBC- 1		--	81-06-16	580	--	19.5	--	--	--	--
391710112334701	(C-18- 6) 6ABA- 2	100VLFL	--	81-01-30	410	--	26.0	--	--	--	--
391420112412001	(C-18- 8)24ADA- 2	100VLFL	--	81-07-01	3500	8.0	25.0	92	--	17	12
391324114000001	(C-18-19)20DDD- 2	100VLFL	560	81-09-03	380	7.4	18.0	170	--	53	8.2
390918112195701	(C-19- 4)17CCC- 1		--	81-06-17	480	--	20.0	--	--	--	--
390807112192501	(C-19- 4)29ACB- 1		--	81-07-09	770	--	17.0	--	--	--	--
390759112194801	(C-19- 4)29BCD- 1	100VLFL	390	81-06-16	660	7.5	20.0	350	--	76	39
390757112202001	(C-19- 4)30DAB- 1		--	81-07-09	900	--	14.5	--	--	--	--
390714112200201	(C-19- 4)31ADA- 1	100VLFL	545	81-06-17	1480	--	14.0	--	--	--	--
390700112203101	(C-19- 4)31DBB- 1	100VLFL	--	81-06-17	1170	--	15.0	--	--	--	--
390647112194601	(C-19- 4)32CCA- 1	100VLFL	465	81-07-09	1880	--	14.0	--	--	--	--
391145112212801	(C-19- 5) 1ABD- 1		--	81-06-16	500	--	20.0	--	--	--	--
391147112221801	(C-19- 5) 2AAD- 1	100VLFL	655	81-06-16	670	--	19.5	--	--	--	--
391053112222201	(C-19- 5)11AAD- 1		--	81-06-16	670	--	20.0	--	--	--	--
391043112220001	(C-19- 5)12BAD- 1		--	81-06-16	500	--	20.0	--	--	--	--
390715112213001	(C-19- 5)36ACA- 1	100VLFL	--	81-06-17	2260	--	16.5	--	--	--	--
390730112214501	(C-19- 5)36BAA- 1	100VLFL	500	81-06-17	660	--	15.5	--	--	--	--
390617113571601	(C-19-19)35CDD- 1	100VLFL	--	81-09-03	510	7.7	12.5	200	--	49	20
390614112193101	(C-20- 4) 5CAA- 1		--	81-06-17	960	--	16.0	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.
112PLCN - PLEISTOCENE SERIES, PLEISTOCENE AGE.
112PVNT - PAVANT FLOW, PLEISTOCENE AGE.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
						IRON COUNTY						
14	3.7	160	12	23	0.2	38	258	1.1	0.08	130	60	30
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37	1.9	--	200	39	0.1	17	485	1.2	0.03	0	1	50
--	--	--	--	--	--	--	--	--	--	--	--	--
						JUAB COUNTY						
46	2.2	150	14	42	0.3	20	262	0.01	0.03	20	1	40
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420	5.7	--	540	720	0.7	57	2080	2.0	0.03	80	10	580
130	3.9	--	85	240	0.1	26	710	1.3	0.02	0	8	40
--	--	--	--	--	--	--	--	--	--	--	--	--
180	3.8	--	120	260	0.2	28	1020	5.1	0.03	0	1	80
120	3.7	--	100	240	0.1	26	856	7.6	0.02	0	1	230
--	--	--	--	--	--	--	--	--	--	--	--	--
42	2.3	--	250	61	0.2	13	731	2.5	0.01	0	1	50
						KANE COUNTY						
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						MILLARD COUNTY						
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230	6.7	--	340	440	0.4	22	1370	1.6	0.01	20	0	240
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33	1.8	--	140	110	0.1	14	566	15	0.01	10	2	40
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58	1.3	--	62	79	0.1	14	476	6.0	0.03	0	1	60
36	2.0	--	11	31	0.1	15	246	1.2	0.03	12	2	60
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660	3.1	--	140	830	2.1	29	1840	0.02	0.06	170	0	3300
16	0.4	--	8.0	16	0.1	11	209	0.01	0.02	0	1	20
--	--	--	--	--	--	--	--	--	--	--	--	--
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29	3.5	--	26	82	0.1	20	457	5.7	0.02	0	1	40
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22	2.8	--	26	41	0.2	23	281	0.18	0.02	11	2	40
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GEOLOGICAL UNIT (AQUIFER)--CONTINUED

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.
220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.
231SRMP - SHINARUMP MEMBER OF CHINLE FORMATION, UPPER TRIASSIC AGE.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

STATION NUMBER	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)
				MILLARD COUNTY							
390557112194501	(C-20- 4) 5CCA- 1	100VLFL	565	81-06-17	1270	--	17.0	--	--	--	--
390628112201401	(C-20- 4) 6ACA- 1	100VLFL	506	81-06-17	2010	7.0	16.0	1000	--	240	98
390559112202301	(C-20- 4) 6DBD- 1	100VLFL	435	81-06-17	1290	--	18.0	--	--	--	--
390523112225001	(C-20- 5)11BDD- 1		--	81-07-08	1780	--	17.0	--	--	--	--
390333112243501	(C-20- 5)21DAA- 1		--	81-06-16	3300	--	18.5	--	--	--	--
390350112214501	(C-20- 5)24BAD- 2		--	81-07-09	2420	--	16.0	--	--	--	--
390259112240501	(C-20- 5)27BAC- 1	100VLFL	480	81-07-09	1710	--	17.0	--	--	--	--
390248112235901	(C-20- 5)27BDA- 1	100VLFL	475	81-07-09	1010	--	16.5	--	--	--	--
390255112243301	(C-20- 5)28AAD- 1	100VLFL	559	81-06-17	1800	--	19.0	--	--	--	--
390416113573801	(C-20-19)14BBC- 1		--	81-08-13	470	--	12.5	--	--	--	--
390100112263001	(C-21- 5) 5BAC- 1		--	81-06-17	1120	--	14.5	--	--	--	--
390044112261402	(C-21- 5) 5DBC- 2	100VLFL	400	81-06-17	650	--	17.0	--	--	--	--
390043112273901	(C-21- 5) 6CAC- 1		90	81-06-17	2380	--	13.0	--	--	--	--
390027112264001	(C-21- 5) 7BBB- 1	100VLFL	--	81-07-09	1510	--	12.5	--	--	--	--
385939112272301	(C-21- 5) 7CDD- 3	112PVNT	96	81-06-18	1450	7.3	14.0	500	--	110	54
385941112265802	(C-21- 5) 7DDC- 3	112PVNT	--	81-06-18	950	--	13.0	--	--	--	--
390005112262301	(C-21- 5) 8BDC- 2	100VLFL	407	81-06-18	830	7.5	17.0	340	--	81	34
385942112261501	(C-21- 5) 8CDD- 2	100VLFL	278	81-06-18	600	--	15.0	--	--	--	--
385941112275801	(C-21- 5)12BAD- 1		--	81-07-09	630	--	14.0	--	--	--	--
385919112253801	(C-21- 5)16BCB- 1		--	81-07-06	620	--	15.0	--	--	--	--
385915112253701	(C-21- 5)16BCC- 2		--	81-07-06	640	--	15.0	--	--	--	--
385916112251701	(C-21- 5)16BDC- 1		--	81-07-06	640	--	14.0	--	--	--	--
385846112252001	(C-21- 5)16CDC- 2		--	81-06-15	580	--	16.0	--	--	--	--
385912112254101	(C-21- 5)17ADD- 3		--	81-07-06	500	--	15.0	--	--	--	--
385916112261401	(C-21- 5)17BDD- 3		--	81-07-06	600	--	14.0	--	--	--	--
385911112263101	(C-21- 5)17CAB- 1		--	81-07-06	650	--	15.0	--	--	--	--
385848112261501	(C-21- 5)17CDD- 3		--	81-06-15	750	--	16.5	--	--	--	--
385848112254101	(C-21- 5)17DDD- 1		--	81-07-06	500	--	15.0	--	--	--	--
385937112270601	(C-21- 5)18ABA- 1	100VLFL	150	81-07-06	1570	--	13.0	--	--	--	--
385918112264902	(C-21- 5)18ADA- 2		--	81-06-15	970	--	15.5	--	--	--	--
385911112270501	(C-21- 5)18DBA- 1		--	81-06-15	800	--	17.0	--	--	--	--
385853112264901	(C-21- 5)18DDA- 1		--	81-06-15	720	--	17.5	--	--	--	--
385822112264801	(C-21- 5)19ADD- 1		--	81-06-15	1040	--	19.0	--	--	--	--
385754112273901	(C-21- 5)19CCD- 3		--	81-06-16	2430	--	14.0	--	--	--	--
385816112264801	(C-21- 5)19DAA- 3	100VLFL	650	81-06-15	880	--	18.5	--	--	--	--
385835112274101	(C-21- 5)20AAD- 2		--	81-06-15	670	--	15.5	--	--	--	--
385843112255701	(C-21- 5)20ABA- 1		--	81-06-15	660	--	15.0	--	--	--	--
385839112263101	(C-21- 5)20BBA- 1		--	81-07-06	720	--	17.0	--	--	--	--
385820112261501	(C-21- 5)20BDD- 2		--	81-06-16	650	--	16.0	--	--	--	--
385806112263201	(C-21- 5)20CCA- 2	100VLFL	631	81-06-16	730	--	17.0	--	--	--	--
385806112254001	(C-21- 5)20DAD- 1		--	81-07-08	630	--	14.0	--	--	--	--
385828112245501	(C-21- 5)21ACA- 1		--	81-06-15	610	--	16.5	--	--	--	--
385751112243201	(C-21- 5)28AAA- 1	100VLFL	510	81-07-08	600	--	15.0	--	--	--	--
385725112261501	(C-21- 5)29BDD- 2		--	81-06-16	900	--	18.5	--	--	--	--
385714112264701	(C-21- 5)29CBC- 1	100VLFL	--	81-06-16	2940	6.9	20.5	1100	--	280	94
385715112271201	(C-21- 5)30DBC- 3	100VLFL	787	81-06-07	2100	7.5	19.5	770	--	190	71
385656112263101	(C-21- 5)32BBA- 1		--	81-06-16	1870	--	21.5	--	--	--	--
385650112243601	(C-21- 5)33AAD- 1		--	81-07-08	500	--	15.0	--	--	--	--
385611112252801	(C-21- 5)33CCD- 1	100VLFL	250	81-06-16	1100	--	16.5	--	--	--	--
385657112243201	(C-21- 5)34BBB- 1		--	81-07-08	370	--	14.5	--	--	--	--
390045112281201	(C-21- 6) 1DDB- 1	112PVNT	105	81-06-17	2250	7.4	13.0	880	--	200	93
385755112280801	(C-21- 6)24DDC- 1		--	81-06-16	3900	--	14.5	--	--	--	--
385724112275601	(C-21- 6)25DAA- 1		--	81-06-16	1820	--	18.0	--	--	--	--
385612112383201	(C-21- 6)36CDD- 1		--	81-07-06	880	--	16.0	--	--	--	--
385650114010601	(C-21-19)31ACD- 1	100VLFL	400	81-09-03	750	7.3	11.0	340	--	93	25
385605112240301	(C-22- 5) 3BAA- 1		--	81-07-08	1130	--	14.0	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.
112PLCN - PLEISTOCENE SERIES, PLEISTOCENE AGE.
112PVNT - PAVANT FLOW, PLEISTOCENE AGE.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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						
--	--	--	--	--	--	--	--	--	--	--	--	--
78	4.3	--	360	390	0.3	21	1370	7.7	0.02	40	10	100
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WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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							
385528112241901	(C-22- 5) 3CDB- 1		--	81-07-08	1220	--	15.5	--	--	--	--
385557112252901	(C-22- 5) 4BBD- 1		--	81-07-08	1370	--	14.5	--	--	--	--
385523112252501	(C-22- 5) 4CDB- 1		--	81-06-16	1580	--	18.0	--	--	--	--
385529112245401	(C-22- 5) 4DCA- 1	100VLFL	251	81-07-08	1580	--	15.5	--	--	--	--
385426112262101	(C-22- 5) 8CDD- 3		--	81-07-07	850	--	17.0	--	--	--	--
385514112252801	(C-22- 5) 9BBA- 1		--	81-06-16	2900	--	19.0	--	--	--	--
385438112251401	(C-22- 5) 9CAD- 2	100VLFL	527	81-06-16	2700	--	21.0	--	--	--	--
385514112241801	(C-22- 5)10BAB- 1		--	81-06-17	1250	--	17.5	--	--	--	--
385511112243701	(C-22- 5)10BBB- 1	100VLFL	338	81-06-17	1480	7.3	18.0	440	--	120	33
385335112262101	(C-22- 5)17CDD- 1		--	81-07-07	880	--	14.0	--	--	--	--
385344112254801	(C-22- 5)17DAD- 1	100VLFL	490	81-06-17	770	--	15.5	--	--	--	--
385348112260401	(C-22- 5)17DBD- 2	100VLFL	560	81-06-17	770	--	16.0	--	--	--	--
385336112260801	(C-22- 5)17DCD- 1	100VLFL	350	81-06-17	630	--	18.0	--	--	--	--
385239112265701	(C-22- 5)19DDD- 1		--	81-06-17	670	--	14.5	--	--	--	--
385319112254701	(C-22- 5)20AAD- 1		--	81-06-17	700	--	16.0	--	--	--	--
385329112260901	(C-22- 5)20ABA- 1		--	81-07-07	730	--	14.0	--	--	--	--
385311112261101	(C-22- 5)20ACD- 2	100VLFL	255	81-06-07	760	--	15.5	--	--	--	--
385310112255601	(C-22- 5)20ADC- 1	100VLFL	--	81-06-17	850	--	15.0	--	--	--	--
385308112250301	(C-22- 5)21ACD- 1		--	81-06-17	870	--	15.0	--	--	--	--
385324112252301	(C-22- 5)21BAB- 2	100VLFL	--	81-06-17	850	--	15.0	--	--	--	--
385303112234801	(C-22- 5)22ADC- 1	100VLFL	155	81-07-07	1260	7.6	16.0	340	--	87	29
385317112241801	(C-22- 5)22BAC- 1		--	81-06-17	1120	--	16.5	--	--	--	--
385230112244601	(C-22- 5)28AAD- 1	100VLFL	354	81-07-07	990	--	15.5	--	--	--	--
385053112262501	(C-22- 5)32CDD- 1	100VLFL	256	81-06-18	1030	--	14.5	--	--	--	--
385135112250301	(C-22- 5)33ABD- 1	100VLFL	375	81-06-17	680	7.7	17.0	280	--	86	17
385129112244101	(C-22- 5)33ADA- 1	100VLFL	--	81-07-07	390	--	14.0	--	--	--	--
385132112251901	(C-22- 5)33BAD- 1		--	81-07-07	1520	--	14.0	--	--	--	--
385053112253101	(C-22- 5)33CCD- 1		--	81-06-17	960	--	15.5	--	--	--	--
385053112252401	(C-22- 5)33CCD- 2		--	81-06-17	990	--	15.5	--	--	--	--
385055112333501	(C-22- 6)32CCC- 1	100VLFL	115	81-06-18	8570	--	14.0	--	--	--	--
385615114013801	(C-22-19) 6BAC- 1	100VLFL	167	81-08-13	590	--	11.0	--	--	--	--
385002112252301	(C-23- 5) 4CCD- 1		--	81-07-07	790	--	15.5	--	--	--	--
385025112264001	(C-23- 5) 5CBA- 1	100VLFL	225	81-06-18	880	--	13.0	--	--	--	--
385018112273101	(C-23- 5) 6CAD- 1		--	81-07-07	850	--	12.5	--	--	--	--
385023112270201	(C-23- 5) 6DAA- 3		--	81-06-18	770	--	13.0	--	--	--	--
384959112271401	(C-23- 5) 6DCD- 1		--	81-06-18	740	--	13.5	--	--	--	--
384956112265501	(C-23- 5) 7AAA- 1		--	81-07-07	770	--	12.5	--	--	--	--
384816112274901	(C-23- 5)18CCD- 1		--	81-06-18	720	--	14.5	--	--	--	--
385015112333601	(C-23- 6) 5CBC- 1	112PVNT	--	81-06-18	9580	--	14.0	--	--	--	--
384906112303701	(C-23- 6)15ABA- 1		--	81-06-17	950	--	15.5	--	--	--	--
384906112305001	(C-23- 6)15BAA- 1		--	81-07-07	3090	--	14.5	--	--	--	--
384849112310701	(C-23- 6)15BCA- 1	112PVNT	145	81-07-07	4620	7.4	15.5	1100	--	310	79
384829112315901	(C-23- 6)16CDA- 1	112PVNT	205	81-06-18	5040	7.0	16.5	1300	--	360	99
384828112313801	(C-23- 6)16DDB- 1		--	81-07-07	4250	--	18.0	--	--	--	--
384815112312301	(C-23- 6)16DDD- 1		--	81-06-18	3690	--	15.0	--	--	--	--
384815112331401	(C-23- 6)17CDC- 1		440	81-07-07	7270	--	16.5	--	--	--	--
384830112323501	(C-23- 6)17DAD- 1		--	81-06-18	5180	--	16.0	--	--	--	--
384751112312201	(C-23- 6)21ADD- 1	100VLFL	--	81-06-18	1580	7.5	15.0	480	--	84	65
384748112315801	(C-23- 6)21BDD- 1	100VLFL	415	81-06-18	8900	6.9	14.0	3300	--	700	370
384818114002801	(C-23-19)20BAC- 1		60	81-08-13	1200	7.6	18.0	330	--	37	58
				PIUTE COUNTY							
381440111584001	(C-29- 2)35BAD- 1	122BRHD	197	81-08-26	520	--	15.0	--	--	--	--
393658111375401	(D-14- 3) 7ACC- 1	100VLFL	82	81-06-23	670	--	11.5	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.
112PLCN - PLEISTOCENE SERIES, PLEISTOCENE AGE.
112PVNT - PAVANT FLOW, PLEISTOCENE AGE.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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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140	17	--	230	210	0.7	14	918	1.8	0.02	30	6	760
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120	17	--	89	210	0.6	14	715	0.80	0.00	20	2	550
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26	1.7	--	31	90	0.1	14	388	3.1	0.03	30	4	50
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590	73	--	650	1100	1.4	45	3060	2.9	0.02	40	10	2600
650	84	--	710	1300	1.4	44	3460	3.1	0.03	60	10	2800
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150	5.8	--	260	240	0.3	31	972	6.1	0.01	0	1	360
790	51	--	1400	2600	0.2	37	6090	2.3	0.04	90	20	2000
140	3.9	--	110	150	1.0	51	746	0.52	0.05	77	5	390
						PIUTE COUNTY						
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GEOLOGICAL UNIT (AQUIFER)--CONTINUED

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.
22ONVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.
231SRMP - SHINARUMP MEMBER OF CHINLE FORMATION, UPPER TRIASSIC AGE.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
				RICH COUNTY							
415048111194001	(A-13- 6)30BBB- 1		125	81-05-03	420	--	9.0	--	--	--	--
				SALT LAKE COUNTY							
405047112014301	(B- 1- 2) 2DAC- 2	100VLFL	541	81-08-27	860	7.7	26.5	46	0	12	3.8
404659112005601	(B- 1- 2)36BAA- 1	100VLFL	464	81-08-28	6000	7.2	27.0	730	--	190	62
404057111565401	(C- 1- 1)33DDD- 1	100VLFL	886	81-08-28	1490	7.3	21.0	400	--	73	52
404306112031201	(C- 1- 2)22BDD- 4	100VLFL	35	81-08-27	1840	7.3	12.5	250	--	50	31
403952111541101	(C- 2- 1)12BAC- 1	100VLFL	157	81-02-19	260	8.1	13.0	100	--	26	9.1
403408111543201	(C- 3- 1)12CCB- 1	100VLFL	118	81-09-03	930	7.1	20.5	280	--	60	31
402721111550801	(C- 4- 1)23DBB- 1	100VLFL	262	81-09-03	1190	7.1	--	360	--	75	41
403027112012401	(C- 4- 2) 1BBB- 1	100VLFL	540	81-08-26	1400	7.0	15.0	560	--	158	40
404506111523301	(D- 1- 1) 7ABD- 6	100VLFL	130	81-08-28	--	--	--	--	--	--	--
		100VLFL	130	81-08-28	1090	6.8	14.0	490	--	118	48
403116111524801	(D- 3- 1)31ABB- 1	100VLFL	138	81-09-03	460	7.0	--	180	--	41	20
				SAN JUAN COUNTY							
371716109325501	(D-40-22)30BBB- 1	220JRSC	825	81-03-04	760	8.7	15.0	6	--	1.7	0.5
				SANPETE COUNTY							
393720111382501	(D-14- 3) 7BBB- 2	100VLFL	--	81-08-07	530	--	11.0	--	--	--	--
393623111372401	(D-14- 3)18AAB- 1	100VLFL	522	81-08-07	630	--	11.0	--	--	--	--
393545111372801	(D-14- 3)18DDB- 1		--	81-06-23	680	--	10.5	--	--	--	--
393506111371201	(D-14- 3)20CBB- 1	100VLFL	151	81-06-23	710	--	10.5	--	--	--	--
393229111353701	(D-15- 3) 4CAA- 1	100VLFL	--	81-06-23	650	--	14.5	--	--	--	--
393115111291101	(D-15- 4) 9CCC- 1	100VLFL	335	81-06-23	490	--	14.0	--	--	--	--
393113111294501	(D-15- 4)17ABB- 1		--	81-06-23	550	--	11.0	--	--	--	--
392510111382001	(D-16- 2)13DDA- 1	100VLFL	--	81-06-24	940	--	14.0	--	--	--	--
392238111390501	(D-16- 2)36CBD- 1	100VLFL	301	81-06-24	630	--	14.0	--	--	--	--
392056111353801	(D-17- 3) 9CBD- 1	100VLFL	285	81-06-24	740	--	11.0	--	--	--	--
392022111360501	(D-17- 3)17ADB- 1	100VLFL	298	81-06-24	920	--	11.5	--	--	--	--
				SEVIER COUNTY							
384800112002001	(C-23- 2)15DCB- 4	100VLFL	75	81-08-27	580	7.7	11.0	300	--	64	35
384702112031001	(C-23- 2)19DAB- 1	100VLFL	310	81-08-27	480	7.4	15.5	260	--	48	34
383140111522001	(C-26- 1)23DDB- 1	100VLFL	200	81-08-26	170	--	15.5	--	--	--	--
				TOOELE COUNTY							
405951113584301	(B- 3-19) 1CCC- 1		--	81-07-21	320	--	15.5	--	--	--	--
403912112193701	(C- 2- 4) 8CDC- 1	100VLFL	345	81-09-30	1420	--	14.5	--	--	--	--
403831112185401	(C- 2- 4)17DAD- 1	100VLFL	--	81-09-11	1280	--	17.0	--	--	--	--
403818112191201	(C- 2- 4)17DCD- 1		--	81-09-11	1350	--	14.5	--	--	--	--
403634112171501	(C- 2- 4)27CDC- 1	100VLFL	220	81-07-14	1300	--	14.0	--	--	--	--
403716112174801	(C- 2- 4)28AAC- 1	100VLFL	185	81-07-13	1050	--	14.5	--	--	--	--
403700112183201	(C- 2- 4)28BDC- 1	100VLFL	368	81-09-30	870	--	15.0	--	--	--	--
403656112174901	(C- 2- 4)28DAB- 1	100VLFL	--	81-07-13	800	--	15.5	--	--	--	--
403648112185001	(C- 2- 4)29ADC- 1		--	81-09-11	1180	--	13.5	--	--	--	--
403701112195001	(C- 2- 4)29BCC- 1	100VLFL	--	81-09-11	1010	--	13.0	--	--	--	--
403606112195401	(C- 2- 4)31ADD- 6	100VLFL	271	81-06-24	980	--	16.0	--	--	--	--
403550112203601	(C- 2- 4)31CDA- 2	100VLFL	500	81-06-24	1360	--	17.0	--	--	--	--
403556112195401	(C- 2- 4)31DAD- 2	100VLFL	727	81-06-24	1000	--	17.5	--	--	--	--
403554112202701	(C- 2- 4)31DBC- 1	100VLFL	--	81-06-24	970	--	16.5	--	--	--	--
403557112201601	(C- 2- 4)31DBD- 1	100VLFL	450	81-06-24	1050	--	17.0	--	--	--	--
403557112193401	(C- 2- 4)32CAC- 1	100VLFL	--	81-07-16	1000	--	17.0	--	--	--	--
403557112193701	(C- 2- 4)32CBD- 1	100VLFL	--	81-06-24	1020	--	16.5	--	--	--	--
403627112174701	(C- 2- 4)33AAB- 1	100VLFL	403	81-06-24	710	--	15.5	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.
112PLCN - PLEISTOCENE SERIES, PLEISTOCENE AGE.
112PVNT - PAVANT FLOW, PLEISTOCENE AGE.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
					RICH COUNTY							
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					SALT LAKE COUNTY							
170	4.1	210	1.0	140	1.7	32	490	0.12	0.01	55	25	310
920	18	--	15	1900	1.1	46	3240	0.10	1	180	470	430
150	6.6	--	220	260	0.4	54	905	1.1	1	0	47	130
300	26	--	220	320	0.5	58	1160	3.1	1	0	1	220
9.2	1.4	87	24	5.3	0.3	12	143	0.71	0.04	10	1	10
80	8.7	--	100	130	0.2	35	560	0.15	0.02	0	1	130
110	10	--	170	160	0.6	28	736	0.64	0.06	0	3	200
58	8.6	--	78	280	0.2	52	827	1.7	0.02	0	1	50
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37	2.6	--	170	110	0.1	19	666	6.5	1	10	12	50
17	9.5	--	0	16	0.4	39	268	0.01	0.56	150	480	60
					SAN JUAN COUNTY							
190	1.2	330	51	11	0.4	--	464	0.00	0.06	--	--	120
					SANPETE COUNTY							
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					SEVIER COUNTY							
19	3.0	230	52	37	0.6	35	386	0.54	0.04	19	2	40
16	2.5	230	27	19	0.2	17	303	0.17	0.06	10	2	20
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					TOOELE COUNTY							
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GEOLOGICAL UNIT (AQUIFER)--CONTINUED

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.
220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.
231SRMP - SHINARUMP MEMBER OF CHINLE FORMATION, UPPER TRIASSIC AGE.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
				TOOELE COUNTY							
403617112184002	(C- 2- 4)33BCB- 3	100VLFL	--	81-06-24	1150	--	14.5	--	--	--	--
403555112174901	(C- 2- 4)33DAC- 1	100VLFL	140	81-07-13	740	--	15.5	--	--	--	--
403608112170302	(C- 2- 4)34BDD- 2	100VLFL	254	81-07-13	1010	--	13.5	--	--	--	--
403559112162201	(C- 2- 4)35CBC- 1		304	81-08-07	1000	7.8	16.0	340	--	77	36
403904112265303	(C- 2- 5) 7DDD- 3	100VLFL	500	81-07-16	1080	--	18.0	--	--	--	--
403846112262001	(C- 2- 5)17BDA- 1	100VLFL	--	81-09-30	1900	--	12.5	--	--	--	--
403748112261201	(C- 2- 5)20ACC- 1	100VLFL	240	81-09-10	1280	--	13.5	--	--	--	--
403655112255501	(C- 2- 5)29ADC- 2	100VLFL	290	81-09-30	2160	--	15.0	--	--	--	--
403643112274601	(C- 2- 5)30CBD- 1	100VLFL	--	81-09-30	950	--	13.0	--	--	--	--
403650112265001	(C- 2- 5)30DAA- 1	100VLFL	--	81-09-30	440	--	14.0	--	--	--	--
403626112271801	(C- 2- 5)30DCC- 1	100VLFL	--	81-06-25	640	--	14.0	--	--	--	--
		100VLFL	--	81-09-30	570	--	14.5	--	--	--	--
403609112261701	(C- 2- 5)32BDA- 1		--	81-06-24	570	--	15.5	--	--	--	--
403550112243202	(C- 2- 5)33DAD- 4	100VLFL	--	81-06-25	1900	--	18.5	--	--	--	--
403547112244401	(C- 2- 5)33DCD- 1	100VLFL	285	81-07-16	1700	--	20.0	--	--	--	--
403605112221301	(C- 2- 5)35ADD- 1		--	81-07-13	3500	--	17.0	--	--	--	--
403605112214201	(C- 2- 5)36BDD- 1	100VLFL	445	81-07-13	1650	--	19.0	--	--	--	--
403552112211401	(C- 2- 5)36DAC- 1	100VLFL	346	81-07-16	1750	--	17.5	--	--	--	--
403539112212401	(C- 2- 5)36DCD- 1	100VLFL	325	81-08-07	3800	--	20.0	--	--	--	--
403802112301201	(C- 2- 6)23CBB- 1	100VLFL	210	81-07-14	1350	7.7	20.0	150	--	36	15
403447112184401	(C- 3- 4) 8AAA- 1	100VLFL	675	81-06-24	2700	--	17.5	--	--	--	--
403524112244801	(C- 3- 5) 4ABD- 1	100VLFL	--	81-07-16	1500	--	18.0	--	--	--	--
403532112253601	(C- 3- 5) 4BBB- 2	100VLFL	410	81-07-17	1600	--	17.0	--	--	--	--
403429112272001	(C- 3- 5) 7ABC- 1	100VLFL	390	81-06-25	570	--	12.0	--	--	--	--
403350112271801	(C- 3- 5) 7DCC- 1	100VLFL	395	81-06-25	580	--	14.5	--	--	--	--
		100VLFL	395	81-07-14	560	--	14.5	--	--	--	--
403514112283701	(C- 3- 6) 1BDB- 1	100VLFL	418	81-06-25	910	--	14.0	--	--	--	--
403138112444501	(C- 3- 8)28DAB- 1		--	81-06-25	1880	--	15.0	--	--	--	--
403126112444501	(C- 3- 8)28DDB- 1		241	81-06-25	480	7.9	14.0	--	--	--	--
402514112254301	(C- 4- 5)32DCD- 1	100VLFL	--	81-05-14	950	--	12.5	--	--	--	--
402525112251502	(C- 4- 5)33CCB- 2		210	81-05-14	1120	7.5	12.0	390	--	110	29
402310112231401	(C- 5- 5)15ADD- 1	100VLFL	--	81-05-14	490	--	12.5	--	--	--	--
				UTAH COUNTY							
401730111594501	(C- 6- 1)18CDD- 1		--	81-06-26	660	--	29.5	--	--	--	--
401730111594502	(C- 6- 1)18CDD- 2		--	81-06-18	720	--	28.5	--	--	--	--
401607112023401	(C- 6- 2)26CBB- 1	100VLFL	505	81-06-26	440	--	12.5	--	--	--	--
401610112053101	(C- 6- 2)29BDD- 1	100VLFL	150	81-06-18	390	7.5	10.5	--	--	--	--
400500111581201	(C- 8- 1)20CDB- 2		--	81-07-13	1300	--	26.5	--	--	--	--
400315111572001	(C- 9- 1) 4CCC- 1	100VLFL	--	81-07-15	1220	7.9	14.5	280	--	70	26
395956111572101	(C- 9- 1)28CCB- 1		802	81-07-15	1170	7.7	18.0	300	--	77	25
395825111571801	(C-10- 1) 4CBB- 1	100VLFL	1218	81-07-13	1750	7.8	19.0	530	--	130	49
395340111590001	(C-10- 1)31CDD- 1	100VLFL	603	81-07-13	800	--	21.0	--	--	--	--
402518111462701	(D- 5- 1) 1AAA- 1	100VLFL	500	81-06-18	490	7.7	9.5	230	--	60	20
402309111510901	(D- 5- 1)17ADC-12	100VLFL	303	81-08-27	220	--	13.0	--	--	--	--
402258111525101	(D- 5- 1)18CAB- 2	100VLFL	618	81-08-25	330	--	15.5	--	--	--	--
402207111474001	(D- 5- 1)23DAB- 3	100VLFL	400	81-08-27	430	--	12.0	--	--	--	--
402112111461701	(D- 5- 2)30CCB- 2	100VLFL	225	81-08-25	800	--	13.0	--	--	--	--
402006111422301	(D- 5- 2)34CDD- 1	100VLFL	--	81-07-00	750	--	13.5	350	--	92	29
401021111362701	(D- 7- 3)33BAA- 6	100VLFL	138	81-09-03	580	--	12.5	--	--	--	--
400941111352701	(D- 7- 3)34CDB- 1	112PLCN	455	81-07-30	630	8.2	14.0	290	--	69	28
400751111392201	(D- 8- 2)12DDC- 2	100VLFL	372	81-07-29	520	7.8	16.0	240	--	54	25
395925111480501	(D- 9- 1)35BCD- 2		--	81-07-16	700	--	14.0	--	--	--	--
395942111594201	(D- 9- 1)36BBC- 1		386	81-07-15	530	7.6	11.0	270	--	69	23
400311111432001	(D- 9- 2) 9BAC- 1	100VLFL	445	81-07-30	690	7.4	14.5	280	--	66	27
400147111420801	(D- 9- 2)15CDA- 1		--	81-07-30	600	--	14.5	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.
112PLCN - PLEISTOCENE SERIES, PLEISTOCENE AGE.
112PVNT - PAVANT FLOW, PLEISTOCENE AGE.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	ALKALINITY (CACO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED BORON (B) (UG/L)
						TOOELE COUNTY						
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78	2.1	--	77	180	0.1	19	596	2.9	0.00	0	1	40
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210	20	--	41	300	0.5	55	771	0.64	0.01	0	1	100
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84	1.6	--	67	200	0.1	15	656	2.4	0.06	10	2	50
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						UTAH COUNTY						
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120	8.6	--	84	240	0.2	62	704	6.0	0.03	10	1	130
100	12	--	110	210	0.2	70	696	4.3	0.02	10	1	120
120	11	--	95	420	0.2	68	988	3.7	0.02	0	1	110
--	--	--	--	--	--	--	--	--	--	--	--	--
5.7	0.5	--	77	5.2	0.2	8.5	269	0.37	--	0	--	10
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25	2.9	--	82	32	0.2	17	442	--	--	0	--	60
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17	2.1	--	57	14	0.2	13	349	1.1	0.00	0	1	10
13	3.0	--	25	17	0.2	29	299	0.00	0.00	210	57	20
--	--	--	--	--	--	--	--	--	--	--	--	--
6.7	1.5	--	22	28	0.2	17	309	2.2	0.02	30	10	10
30	8.1	--	44	25	0.2	53	423	3.0	0.00	0	1	60
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GEOLOGICAL UNIT (AQUIFER)--CONTINUED

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.
22ONVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.
231SRMP - SHINARUMP MEMBER OF CHINLE FORMATION, UPPER TRIASSIC AGE.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

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)
				UTAH COUNTY							
395607111521701	(D-10- 1)19BAD- 1		--	81-07-15	2100	--	23.0	--	--	--	--
				WASHINGTON COUNTY							
373551113391101	(C-37-16) 4BDC- 1		500	81-06-23	350	7.8	21.0	130	--	40	7.8
373456113423501	(C-37-17)12BDC- 2		290	81-06-23	580	7.4	14.0	240	--	75	13
373419113434201	(C-37-17)14BAC- 1	100VLFL	100	81-06-05	710	--	13.0	--	--	--	--
371305113470401	(C-41-17)17CBA- 1		626	81-06-16	430	6.9	18.0	210	--	63	13
370036113282801	(C-43-14)31BBB- 1		--	81-06-16	3300	7.2	19.0	2000	--	570	140
370013113233701	(C-43-15)25DDD- 1		144	81-06-16	3600	7.0	18.0	2200	--	620	170
				WAYNE COUNTY							
382717111365601	(D-27- 3)19AAA- 1		285	81-08-26	1650	7.7	10.5	880	700	265	53
				WEBER COUNTY							
410410112050001	(B- 4- 2)20ADA- 1		--	81-08-04	340	--	15.5	--	--	--	--
411153112064602	(B- 5- 2) 6BDD- 3	100VLFL	609	81-08-05	360	8.4	14.5	140	--	39	9.8
411153112064601	(B- 5- 2) 6BDD- 4	100VLFL	303	81-08-05	480	7.8	16.5	150	--	37	14
411130112064502	(B- 5- 2) 6CDD- 2	100VLFL	612	81-08-05	390	--	19.5	--	--	--	--
411041112072001	(B- 5- 3)12DDA- 4	100VLFL	--	81-08-05	380	--	16.5	--	--	--	--
411702112071701	(B- 6- 2) 6CBC- 2	100VLFL	512	81-08-07	1760	--	16.5	--	--	--	--
411708112105701	(B- 6- 3) 4DAB- 1		540	81-08-07	760	--	21.5	--	--	--	--
411523112082101	(B- 6- 3)15CBC- 1	100VLFL	--	81-08-07	420	--	16.5	--	--	--	--
411830111581501	(B- 7- 1)29DDC- 1		245	81-08-06	300	--	12.0	--	--	--	--
412151112020601	(B- 7- 2)11BAA- 3		--	81-08-07	2770	--	14.0	--	--	--	--
412011112041401	(B- 7- 2)16DCD- 2	100VLFL	1176	81-08-07	360	8.4	26.0	68	--	20	4.4
411827112030901	(B- 7- 2)27DCC- 1	100VLFL	--	81-08-07	5290	--	16.5	--	--	--	--
411824112060101	(B- 7- 2)32BBB- 1		546	81-08-06	2430	--	18.5	--	--	--	--
411821112034601	(B- 7- 2)34BBB- 2	100VLFL	517	81-08-07	1590	7.8	18.0	360	--	95	31
411810112131802	(B- 7- 3)31AAC- 2		920	81-08-07	1740	7.5	38.5	170	--	52	9.3

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.
112PLCN - PLEISTOCENE SERIES, PLEISTOCENE AGE.
112PVNT - PAVANT FLOW, PLEISTOCENE AGE.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	ALKALINITY (CACO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED BORON (B) (UG/L)
					UTAH COUNTY							
--	--	--	--	--	--	--	--	--	--	--	--	--
					WASHINGTON COUNTY							
27	2.1	--	13	36	0.2	43	251	0.93	0.03	10	3	50
30	5.9	--	27	28	0.2	47	384	7.2	0.06	0	1	70
--	--	--	--	--	--	--	--	--	--	--	--	--
13	1.9	--	33	15	0.2	22	281	1.3	0.01	0	10	30
130	17	--	2000	77	0.3	14	3040	8.2	0.00	40	10	560
160	15	--	2100	110	0.2	15	3310	15	0.01	40	20	660
					WAYNE COUNTY							
28	3.9	180	720	12	0.1	31	1230	--	0.05	17	3	60
					WEBER COUNTY							
--	--	--	--	--	--	--	--	--	--	--	--	--
18	2.6	--	11	15	0.1	19	205	0.01	0.02	630	78	30
38	8.6	--	0	18	0.2	33	--	0.01	0.17	300	130	80
--	--	--	--	--	--	--	--	--	--	--	--	--
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46	7.9	--	4.0	9.0	0.6	29	217	0.02	0.05	180	50	60
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
190	5.8	--	0	460	0.3	22	--	0.02	0.01	70	250	130
270	25	--	0	380	0.6	54	--	0.01	0.03	220	120	390

GEOLOGICAL UNIT (AQUIFER)--CONTINUED

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.
22ONVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.
231SRMP - SHINARUMP MEMBER OF CHINLE FORMATION, UPPER TRIASSIC AGE.

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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

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