Water Resources Data for Utah

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT UT-80-1

WATER YEAR 1980

Prepared in cooperation with the State of Utah and with other agencies

CALENDAR FOR WATER YEAR 1980

1979

OCTOBER

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1980

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Water Resources Data for Utah

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT UT-80-1

WATER YEAR 1980

Prepared in cooperation with the State of Utah and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, Secretary

GEOLOGICAL SURVEY

Doyle G. Frederick, Acting Director

For information on the water program in Utah write to
District Chief, Water Resources Division
U.S. Geological Survey
1016 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

1981

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 1980 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 294 gaging stations; stage and contents for 22 lakes and reservoirs; water quality for 64 hydrologic stations, 194 partial-record stations, and 323 wells; 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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ILLUSTRATIONS

HYDROLOGIC STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

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

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INTRODUCTION

Water resources data for the 1980 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 294 gaging stations; stage and contents for 22 lakes and reservoirs; water quality for 64 hydrologic stations, 194 partial-record stations, and 323 wells; 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-80-1." 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, G. E. Harmston, Executive Director
Division of Water Rights, D. C. Hansen, State Engineer
Division of Water Resources, D. F. Lawrence, Director
Utah Geological and Mineral Survey, D. T. McMillan, Director
Division of Wildlife Resources, D. F. Day, Director
Bear River Commission, W. N. Jibson, Chairman
Salt Lake County Commission, William E. Dunn, Chairman

Assistance in the form of funds was given by the Water and Power Resources Service, 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 10 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 Power Commission License.

Other district offices on 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
Twin Creek at Sage, 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 Water and Power Resources Service 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, G. E. Harmston, 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).

ACKNOWLEDGMENTS

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, James N. Konopinski, Larry J. Neff, Deloy C. Emett, Jerry C. McNeely, Kevin Guttormson, Rod Tibbets, Donald Bischoff, Stanley K. Dubois, James Hedley, Rodney W. Randall, Barry Sattin, Ralph Seiler, LaVerne G. Sultz, David Allan, Michael Eckenwiler, Wendy Gernon, Ann Guhman, Michael Hawkins, Kevin Linn, Cynthia Smith, Melanie E. Smith, James D. Barton, Carole Brown, Shonna Dennison, E. Blaine Johnson, Rolaine King, Brent Sheffer, Mary-Joy Smuin, Helen Faddis, Vicki Nelson, and Lauri Hlavaty.

HYDROLOGIC CONDITIONS - 1980

During the 1980 water year, precipitation during January, February, and September was considerably above normal. Following are monthly totals for precipitation and the departure from normal from National Oceanic and Atmospheric Administration Climatologic Data for Utah, for the 3 months at several sites. (See figure 1.)

Site	January		February		September	
	Total (inches)	Departure (inches)	Total (inches)	Departure (inches)	Total (inches)	Departure (inches)
Blanding	3.49	+2.38	2.86	+1.97	1.00	-0.02
Callao	.58	+.25	.56	+.25	.71	+.38
Cedar City	2.98	+2.33	2.38	+1.62	2.96	+2.24
Green River	.68	+.35	1.33	+.98	1.25	+.69
Hanksville	.59	+.37	.27	+.07	2.73	+2.25
Logan	4.05	+2.42	3.19	+1.74	1.59	+.65
Milford	1.86	+1.25	1.50	+.80	2.06	+1.45
Nephi	2.75	+1.52	2.87	+1.65	1.60	+.79
Richfield	1.52	+.95	.98	+.33	2.92	+2.23
Roosevelt	1.61	+1.09	.98	+.61	1.66	+.99
St. George	4.46	+3.58	2.73	+1.90	.37	-.11
Salt Lake City	2.87	+1.60	2.25	+1.06	.72	+.04
Zion National Park	6.48	+4.93	6.65	+5.07	1.63	+.83

The 1980 water year was near normal at the Salt Lake International Airport, where there was 16.73 inches of precipitation--compared to a 15-year average (1963-77 water-year average) of 16.56 inches.

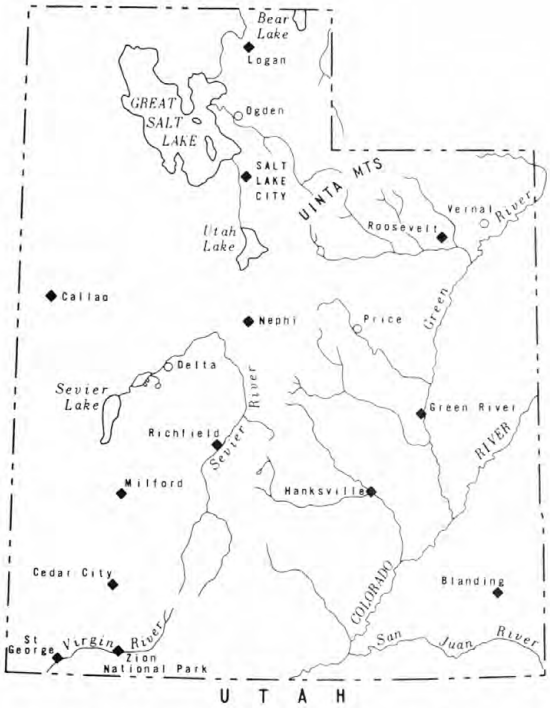

Figure 1.—Precipitation recording sites.

On January 14, the Malad River near Plymouth, station 10125600, had an instantaneous peak discharge of 2,060 cubic feet per second, which was the highest during the period of record (1964-80) and the second highest known for the site. The daily-discharge hydrograph for part of January for this site is shown in figure 2.

The North Fork Virgin River near Springdale, station 09405500, had an instantaneous peak discharge of 3,190 cubic feet per second on February 14. The river also had sizeable peak discharges on February 20 and September 10, as can be seen from the hydrograph shown in figure 2.

The Virgin River near Hurricane, station 09408150, had instantaneous peak discharges of 8,520 cubic feet per second on February 14, 7,000 cubic feet per second on February 20, and 10,900 cubic feet per second on September 10. The September 10 peak is the fourth highest and the February 14 peak is the sixth highest since 1966. The hydrograph for parts of February and September are shown in figure 2.

The rains of early September were probably greatest in the Muddy Creek-Dirty Devil River drainage. The Dirty Devil River above Poison Springs Wash, near Hanksville, station 09333500, had an instantaneous peak discharge of 25,700 cubic feet per second on September 10. This is the second largest peak recorded at this site during the period of record (1943-80). The hydrograph for this site for part of September is shown in figure 2.

Streamflow for the 1980 water year as measured at seven key gaging stations averaged 141 percent of the 1951-80 median, compared to 137 percent a year ago.

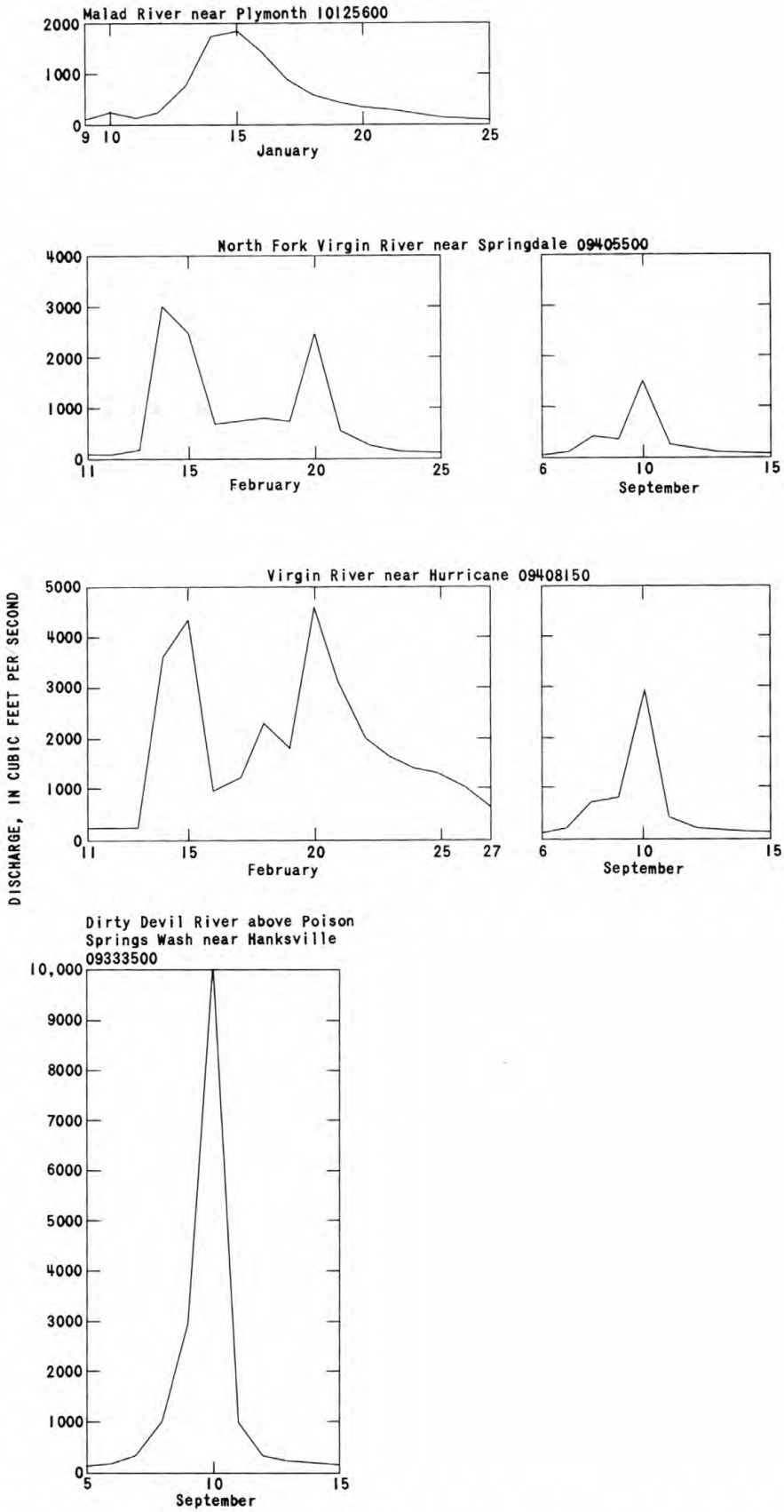

Figure 2.—Hydrographs of daily discharge for selected sites.

Streamflow was about normal in the northern part of the State and averaged 104 percent of the median flow at three of the key gaging stations: Big Cottonwood Creek near Salt Lake City, Weber River near Oakley, and Whiterocks River near Whiterocks. However, streamflow was much above normal for most of the year at the other four key gaging stations in the southern part of the State: Green River at Green River, Colorado River near Cisco, San Juan River near Bluff, and Beaver River near Beaver.

Discharge for the 1980 water year compared with the median runoff for 1951-80 at seven representative gaging stations for which long-term records are available is shown in figure 3.

As of October 1, 1980, reservoir storage in 19 major irrigation reservoirs was 125 percent of the average, compared to 93.5 percent of the average the previous year at this time. The elevation of Bear Lake was 5,920.25 feet (National Geodetic Vertical Datum of 1929) with contents of 1,182,000 acre-feet, compared to 956,900 acre-feet a year ago.

Great Salt Lake reached a seasonal peak stage of 4,200.55 feet on June 15, 1980. The peak stage was 0.65 foot higher than the previous year's peak stage and was 1.70 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, 1980 was 4,199.10 feet. This was 1.45 feet higher than the level the previous year and 7.75 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 major areas of ground-water development in Utah are shown in figure 4 and named in table 1, accompanied by estimates of withdrawals from wells for each of the areas. The total withdrawal was about 98,000 acre-feet less than the withrawals from wells during 1979 and 44,000 acre-feet less than the average withdrawal during 1970-79.

The decreased withdrawals from wells during 1980 were due to above-average precipitation that resulted in increased recharge to the ground-water reservoirs and increased availability of surface-water supplies. In many areas where ground water is used as a supplement to surface water--particularly for irrigation or public supply--the decrease from 1979 to 1980 in withdrawals from wells was especially marked.

The decreased withdrawals from wells and increased recharge during 1980 resulted in a general rise of ground-water levels in many parts of the State. Some declines occurred, however, in areas of late-season withdrawals. An example of the change in water levels is shown in figure 5 for Pavant Valley, which is one of the areas of greatest ground-water withdrawals in the State. The overall rise of water levels shown in figure 5 is readily related to the above-average precipitation during 1980 and the smallest withdrawals from wells for 7 years, as shown in figure 6.

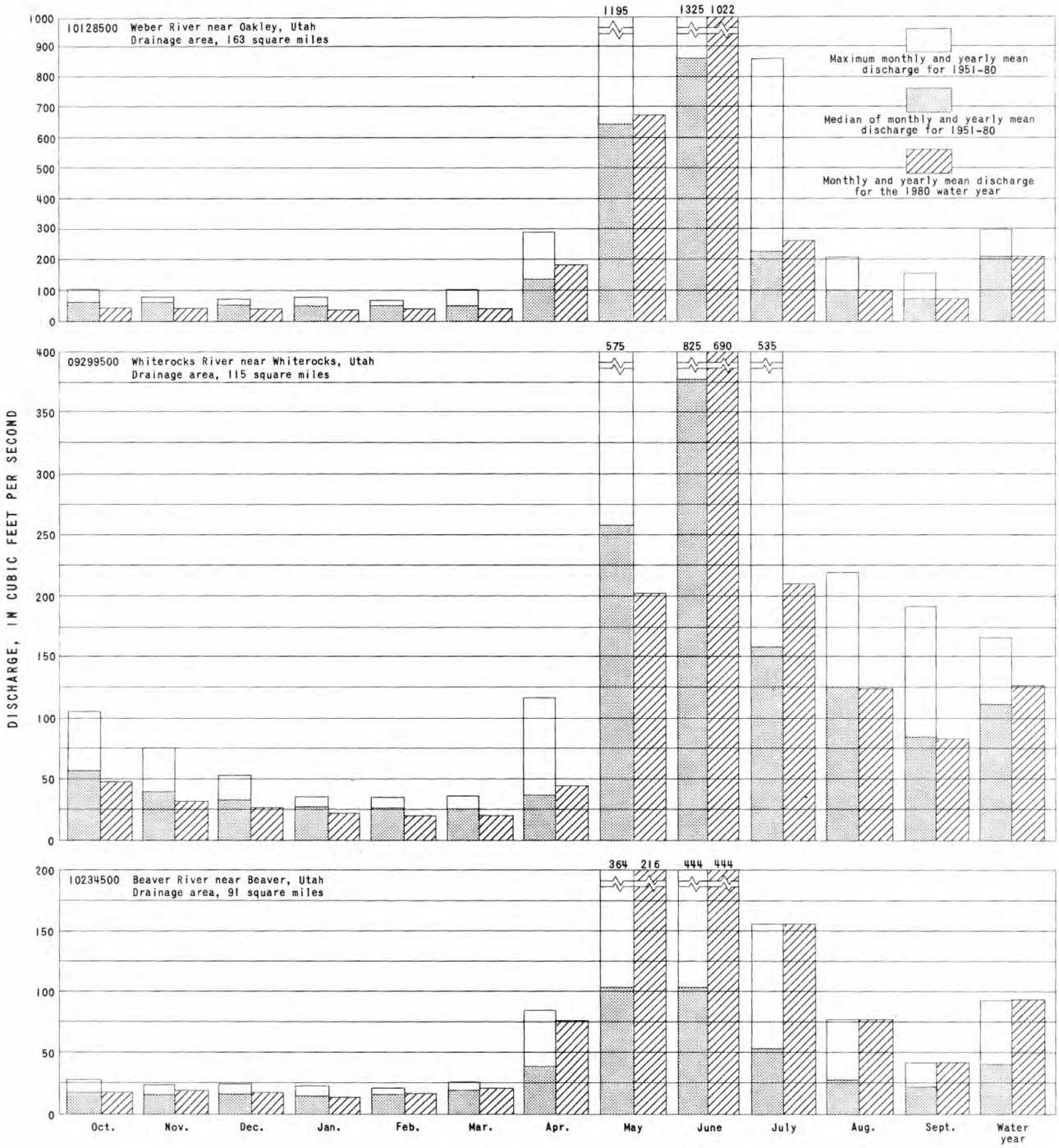

Figure 3.—Comparisons of discharge during the 1980 water year with median and maximum discharge for the period 1951-80 at seven long-term representative gaging stations.

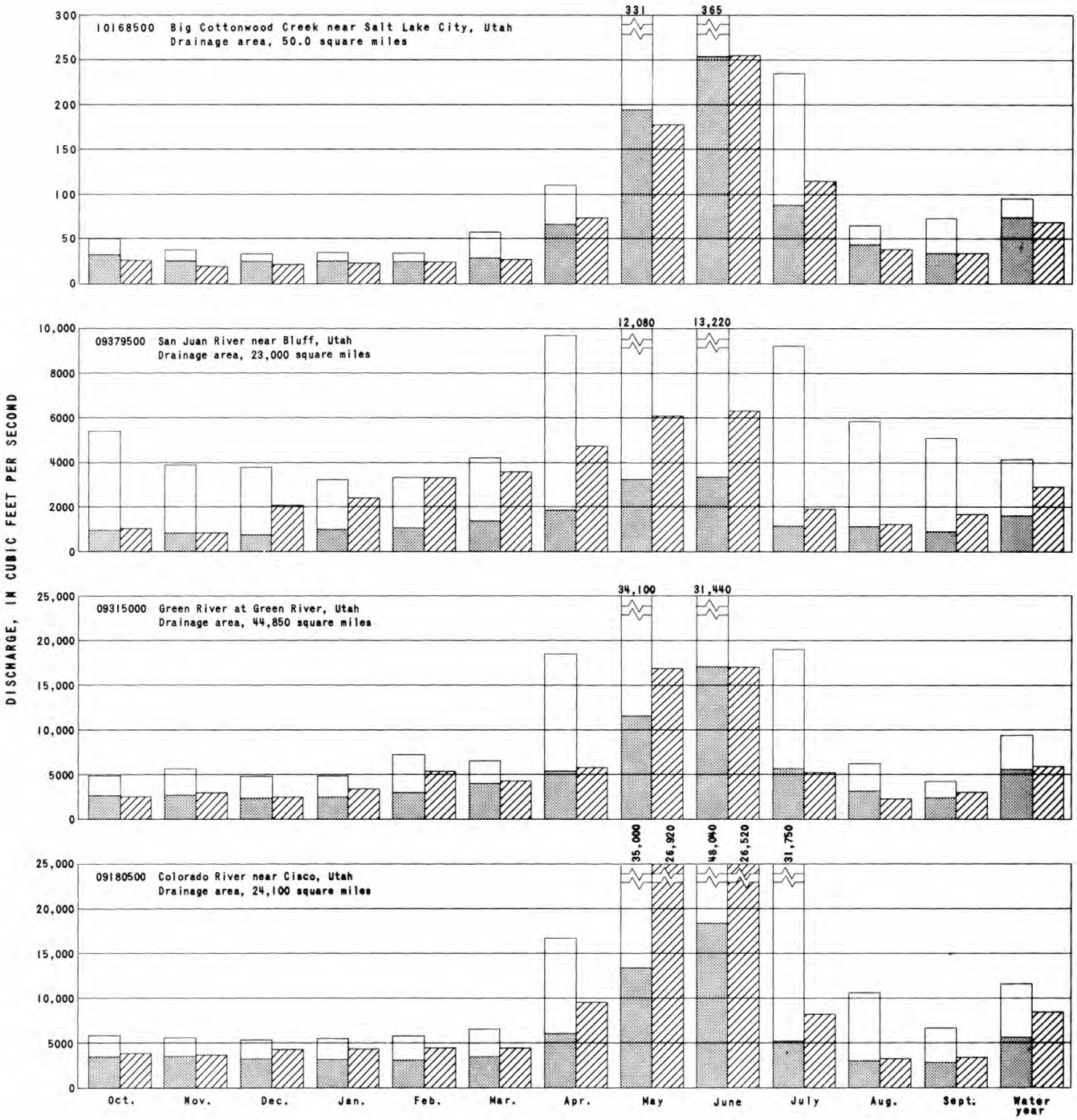

Figure 3.—Continued.

Table 1.--Areas of ground-water development

Number in figure 4	Area	Estimated withdrawals from wells during 1980 (acre-feet)
1	Grouse Creek	2,600
2	Park Valley	2,200
3	Curlew Valley	27,400
4	Malad-lower Bear River valley	6,600
5	Cache Valley	25,000
6	Bear Lake valley	-
7	Upper Bear River valley	50
8	Ogden Valley	7,900
9	East Shore area	51,000
10	Jordan Valley	128,000
11	Tooele Valley	27,000
12	Dugway area (including Skull Valley)	3,800
13	Cedar Valley	4,300
14	Utah and Goshen Valleys	97,000
15	Heber Valley	-
16	Duchesne River area	200
17	Vernal area	-
18	Sanpete Valley	13,000
19	Juab Valley	15,000
20	Central Sevier Valley	
	Upper Sevier Valleys	24,000
	Upper Fremont River valley	
21	Pavant Valley	75,000
22	Sevier Desert	14,000
23	Snake Valley	9,300
24	Milford area	61,000
25	Beaver Valley	10,100
26	Monticello area	300
27	Blanding area	-
28	Parowan Valley	28,000
29	Cedar City Valley	28,000
30	Beryl-Enterprise area	71,000
31	Central Virgin River area	19,000
	Other areas	12,000
	Total (minimum)	763,000

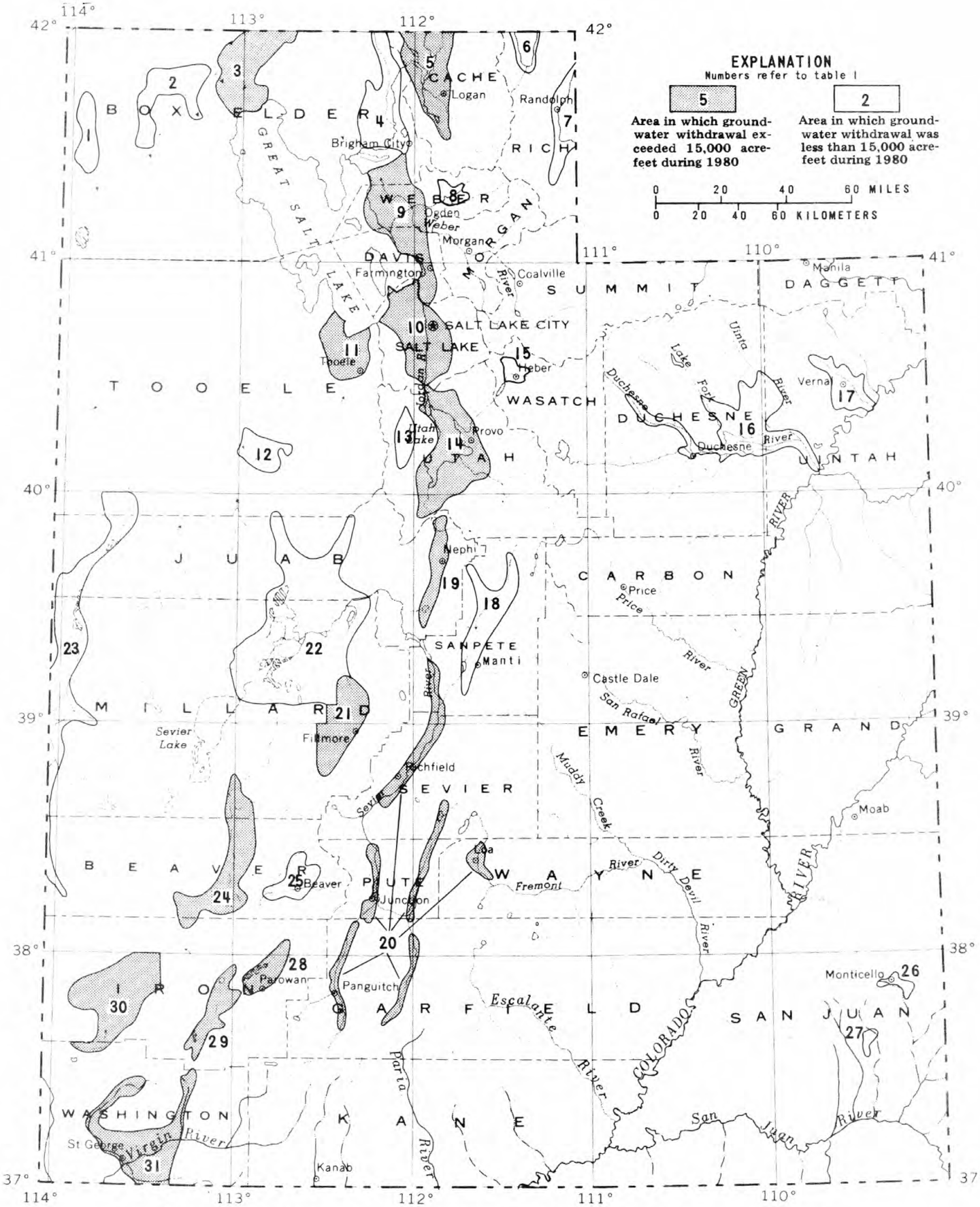

Figure 4.—Areas of ground-water development listed in table I.

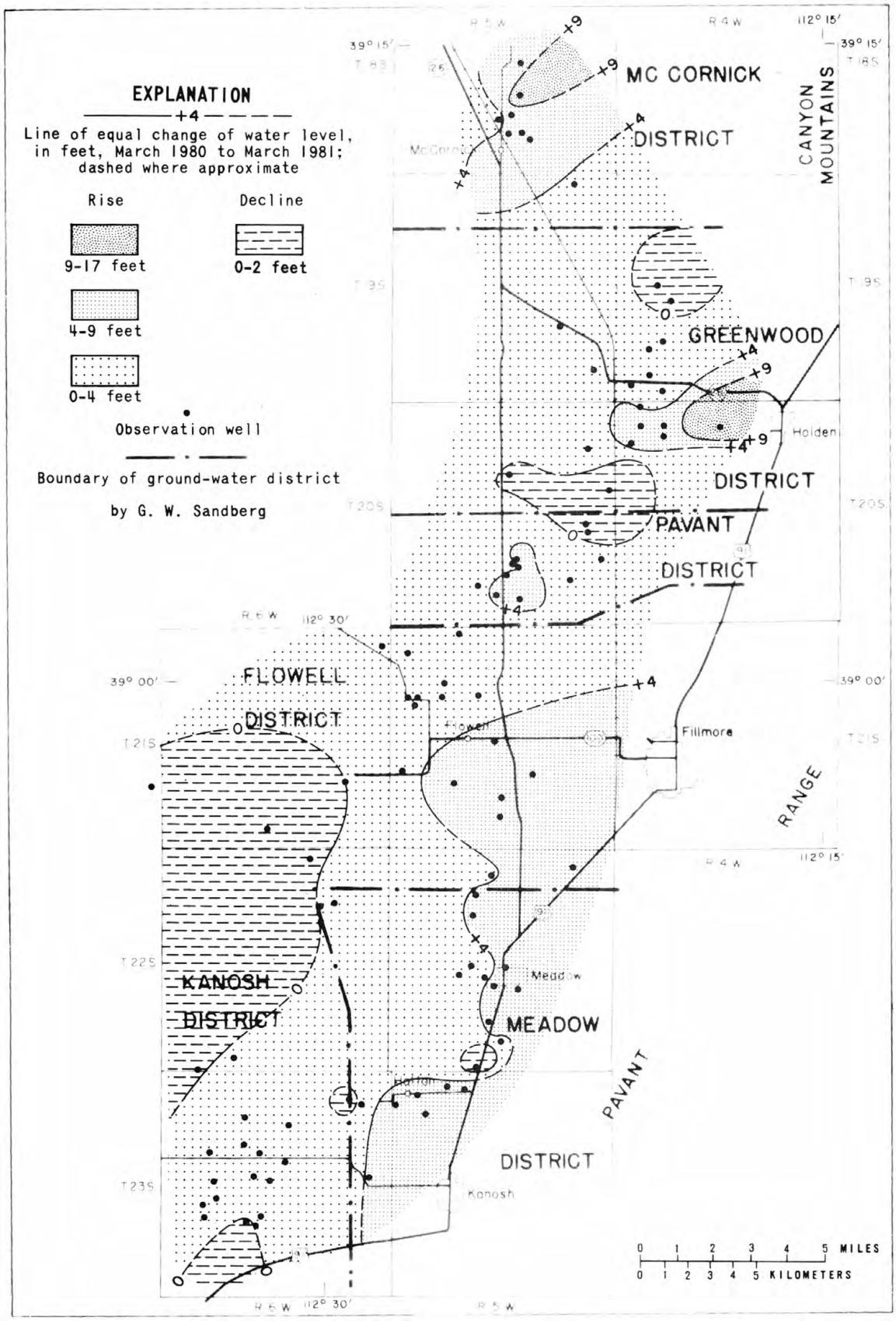

Figure 5.—Map of Pavant Valley showing change of water levels from March 1980 to March 1981.

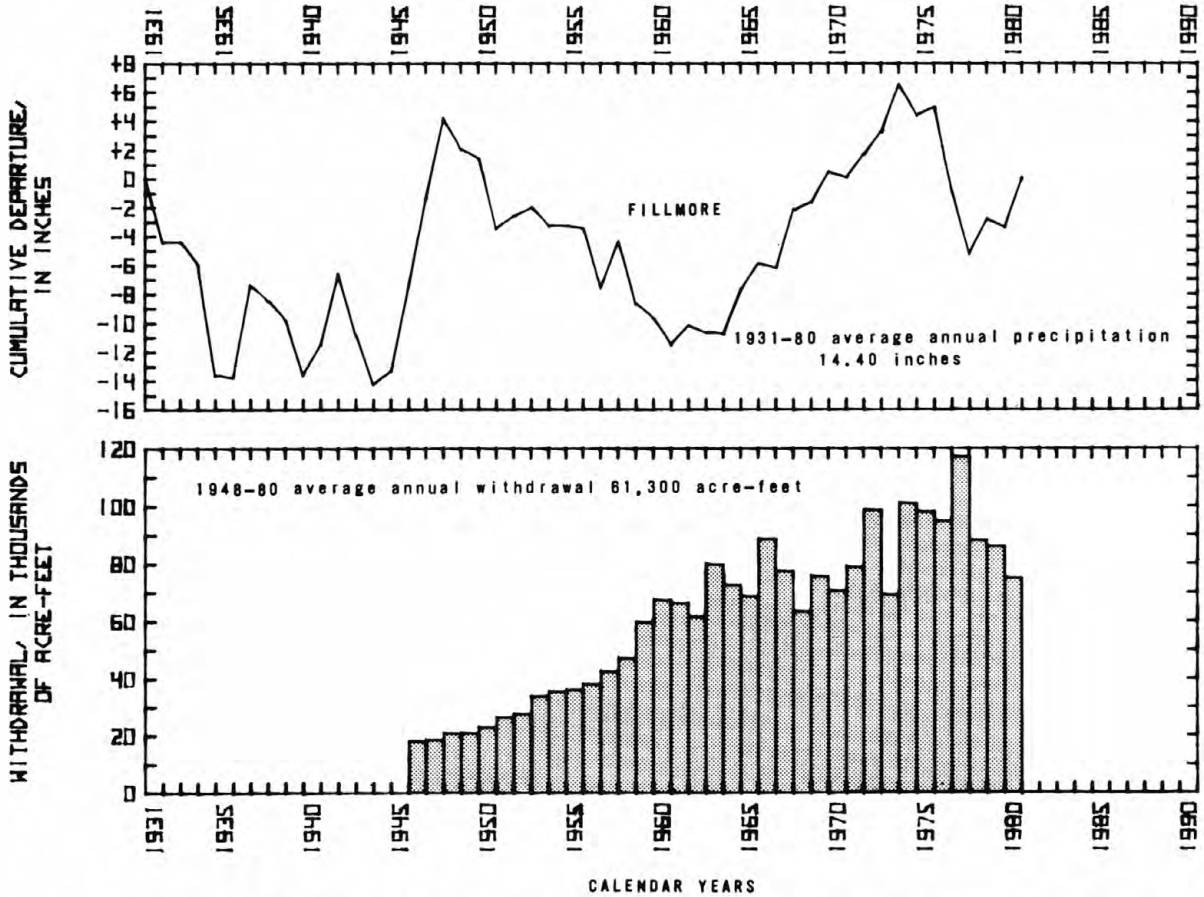

Figure 6.— Cumulative departure from average annual precipitation at Fillmore and annual withdrawals from wells in Pavant Valley.

A detailed report interpreting ground-water conditions in Pavant Valley is available in U.S. Geological Survey Water-Supply Paper 1794. Similar interpretive reports, annual water-level change maps, and withdrawal data are available for most of the areas shown in figure 4.

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/(m^3. 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.

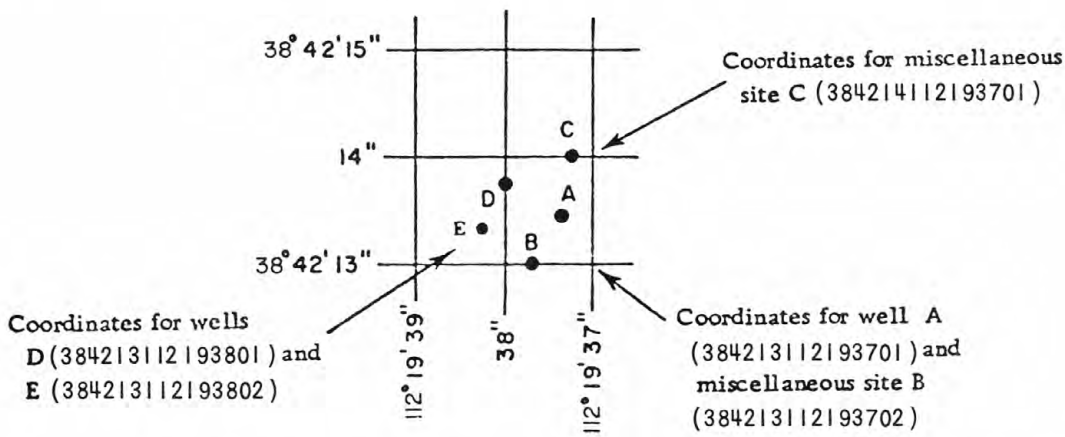

Figure 7.—System for numbering wells and miscellaneous sites (latitude and longitude).

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.

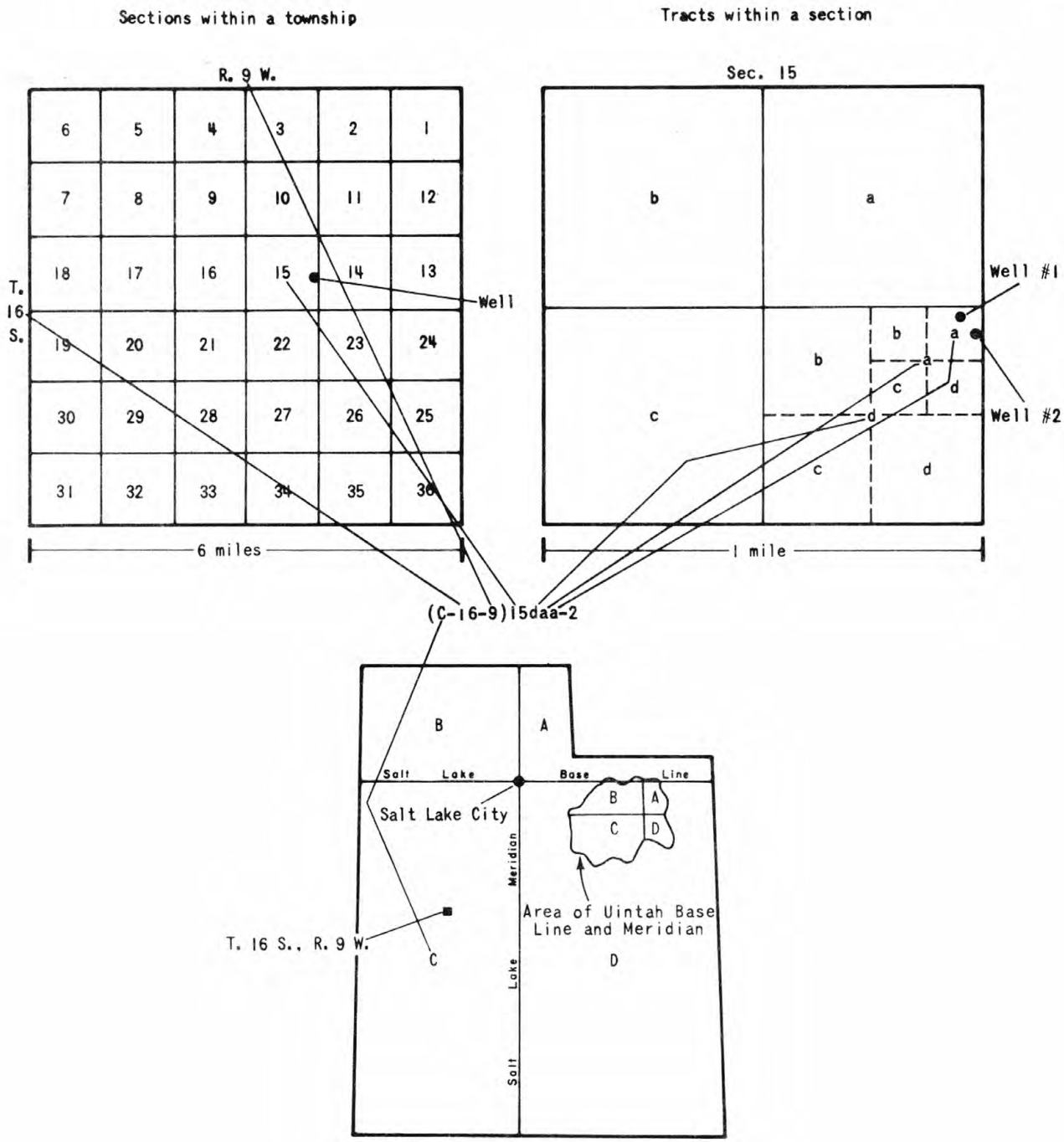

Figure 8.— System for numbering wells (township and range).

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 12.

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 1980 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.

Table 2 shows the changes that should be made to published data during the period 1973 through 1979, resulting from a re-evaluation of detection limits.

Table 2.—Parameters that had different analytical methods used for the time periods indicated

Parameters that had a single analytical method used for the time periods indicated

(The changes designated for each of the two periods of record will be applied to all constituents in each group of parameter. Units are µg/L)

Para. no.	Parameter	Records for 1973 to 1977	Records for 1978 to 1979
01000	Arsenic, dissolved	Replace 0.0 and 0 values with <1	Replace 0 and 0.0 values with <1
01001	Arsenic, suspended total	do.	do.
01002	Arsenic, total	do.	do.
01060	Molybdenum, dissolved	do.	do.
01062	Molybdenum, total recoverable	do.	do.
01095	Antimony, dissolved	do.	do.
01097	Antimony, total	do.	do.
01145	Selenium, dissolved	do.	do.
01147	Selenium, total	do.	do.
01010	Beryllium, dissolved	Replace 0 values with <10	Replace 0 values with <10
01012	Beryllium, total recoverable	do.	do.
01045	Iron, total recoverable	Replace 0 and 10 values with <10	Replace 0 and 10 values with <10
01046	Iron, dissolved	do.	do.
01055	Manganese, total recoverable	do.	do.
01056	Manganese, dissolved	do.	do.
01080	Strontium, dissolved	do.	do.
01082	Strontium, total recoverable	do.	do.
01130	Lithium, dissolved	do.	do.
01132	Lithium, total recoverable	do.	do.
01020	Boron, dissolved	Replace 0, 10 and 20 values with < 20	Replace 0, 10 and 20 values with <20
01022	Boron, total recoverable	do.	do.
01005	Barium, dissolved	Replace 0 and 100 values with <100	Replace 0 and 100 with <100
01007	Barium, total recoverable	do.	do.
01105	Aluminum, total recoverable	do.	do.
01106	Aluminum, dissolved	do.	do.
71890	Mercury, dissolved	Replace values less than 0.5 with <0.5	Replace values 0.0 and 0.1 with <0.1
71900	Mercury, total recoverable	do.	do.
01049	Lead, dissolved	Replace <100 and 100 values with <100	Replace <100 and 100 values with <200
01051	Lead, total recoverable	do.	do.

Parameters that had multiple analytical methods in use for the time period indicated

(The changes designated for each of the two periods of record will be applied to all constituents in each group of parameters. Units are in µg/L. ND equals not detected.)

Para. no.	Parameter	Records for 1973 to 1977	Records for 1978 to 1979
01025	Cadmium, dissolved		
01027	Cadmium, total recoverable		
01030	Chromium, dissolved		
01034	Chromium, total recoverable	Replace <10 and 10 values with <20	Replace <10 and 10 values with <20
01040	Copper, dissolved	Replace <1 and 1 values with <2	Replace <1 and 1 values with <2
01042	Copper, total recoverable	Replace 0 values with ND	Replace 0 values with ND
01075	Silver, dissolved		
01077	Silver, total recoverable		
01090	Zinc, dissolved		
01092	Zinc, total recoverable		
01035	Cobalt, dissolved	Replace <50 and 50 values with <100	Replace <50 and 50 values with <100
01037	Cobalt, total recoverable	Replace <1 and 1 with <2 Replace 0 with ND	Replace <1 and 1 with <2 Replace 0 with ND
01065	Nickel, dissolved	Replace <1 and 1 with <2	Replace <1 and 1 with <2
01067	Nickel, total recoverable	Replace 0 with ND	Replace 0 with ND

Parameters that had multiple analytical methods in use for the time period indicated

(The changes designated for each of the two periods of record will be applied to all constituents in each group of parameters. Units are µg/L)

Para. no.	Parameter	Records for 1973 to 1979
00608	Nitrogen, ammonia, dissolved	Replace 0, .0 and .00 with <.01
00608	Nitrogen, nitrite, dissolved	do.
00666	Phosphorus, dissolved	do.
00677	Phosphorus, hydrolyzable plus orthophosphate, dissolved	do.
00671	Phosphorus, orthophosphate, dissolved	do.
00610	Nitrogen, ammonia, total	do.
00615	Nitrogen, nitrite, total	do.
00678	Phosphorus, hydrolyzable plus orthophosphate, total	do.
70507	Phosphorus, orthophosphate, total	do.
00665	Phosphorus, total	do.
71825	Acidity,dissolved	Replace 0 and .0 with <.1
00915	Calcium, dissolved	do.
00940	Chloride, dissolved	do.
00950	Fluoride, dissolved	do.
00925	Magnesium, dissolved	do.
00935	Potassium, dissolved	do.
00955	Silica, dissolved	do.
00930	Sodium, dissolved	do.
00916	Calcium, total recoverable	do.
00951	Fluoride, total	do.
00927	Magnesium, total recoverable	do.
00937	Potassium, total recoverable	do.
00929	Sodium, total recoverable	do.
00623	Nitrogen, ammonia plus organic, dissolved	do.
00631	Nitrogen, nitrite plus nitrate, dissolved	do.
00625	Nitrogen, ammonia plus organic, total	do.
00630	Nitrogen, nitrite plus nitrate, total	do.
00410	Alkalinity, dissolved	Replace 0 with <1
00945	Sulfate, dissolved	Replace 0 and 1 with <1

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 194 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 615 to 650 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.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

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). Prices are effective October 1978 but are subject to change.

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

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. $1.60.

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. $0.85.

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. $1.90.

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. $1.75.

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. $1.00.

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. $0.35.

3-A3. Measurement of peak discharge at culverts by indirect methods, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages. $0.40.

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. $1.00.

3-A5. Measurement of peak discharge at dams by indirect methods, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages. $0.35.

3-A6. General procedure for gaging streams, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages. $1.00.

3-A7. Stage measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS-TWRI Book 3, Chapter A7. 1968. 28 pages. $1.40.

3-A8. Discharge measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages. $1.25.

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. $1.20.

3-A12. Fluorometric procedures for dye tracing, by J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages. $0.35. Not currently available.

3-B1. Aquifer-test design, observation, and data analysis, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages. $0.70.

3-B2. Introduction to ground-water hydraulics, a programmed text for self-instruction, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages. $2.50.

3-C1. Fluvial sediment concepts, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages. $2.50.

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. $2.50.

C-C3. Computation of fluvial-sediment discharge, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages. $2.10.

4-A1. Some statistical tools in hydrology, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages. $1.60.

4-A2. Frequency curves, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages. $1.20.

4-B1. Low-flow investigations, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages. $0.65.

4-B2. Storage analyses for water supply, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages. $0.75.

4-B3. Regional analyses of streamflow characteristics, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages. $0.65.

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. $1.10.

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. $0.80.

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. $0.90.

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. $20.00.

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. $16.00.

5-C1. Laboratory theory and methods for sediment analysis, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages. $2.10.

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. $2.30.

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. $0.70.

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. $1.10.

*These publications are available ONLY from Superintendent of Documents, Government Printing Office, Washington, D.C. 20402. They are in looseleaf format and are subscription items. Additional supplements will be issued to subscribers at no extra cost. Checks should be made payable to Superintendent of Documents. Requester should emphasize to Superintendent of Documents that this is a subscription item.

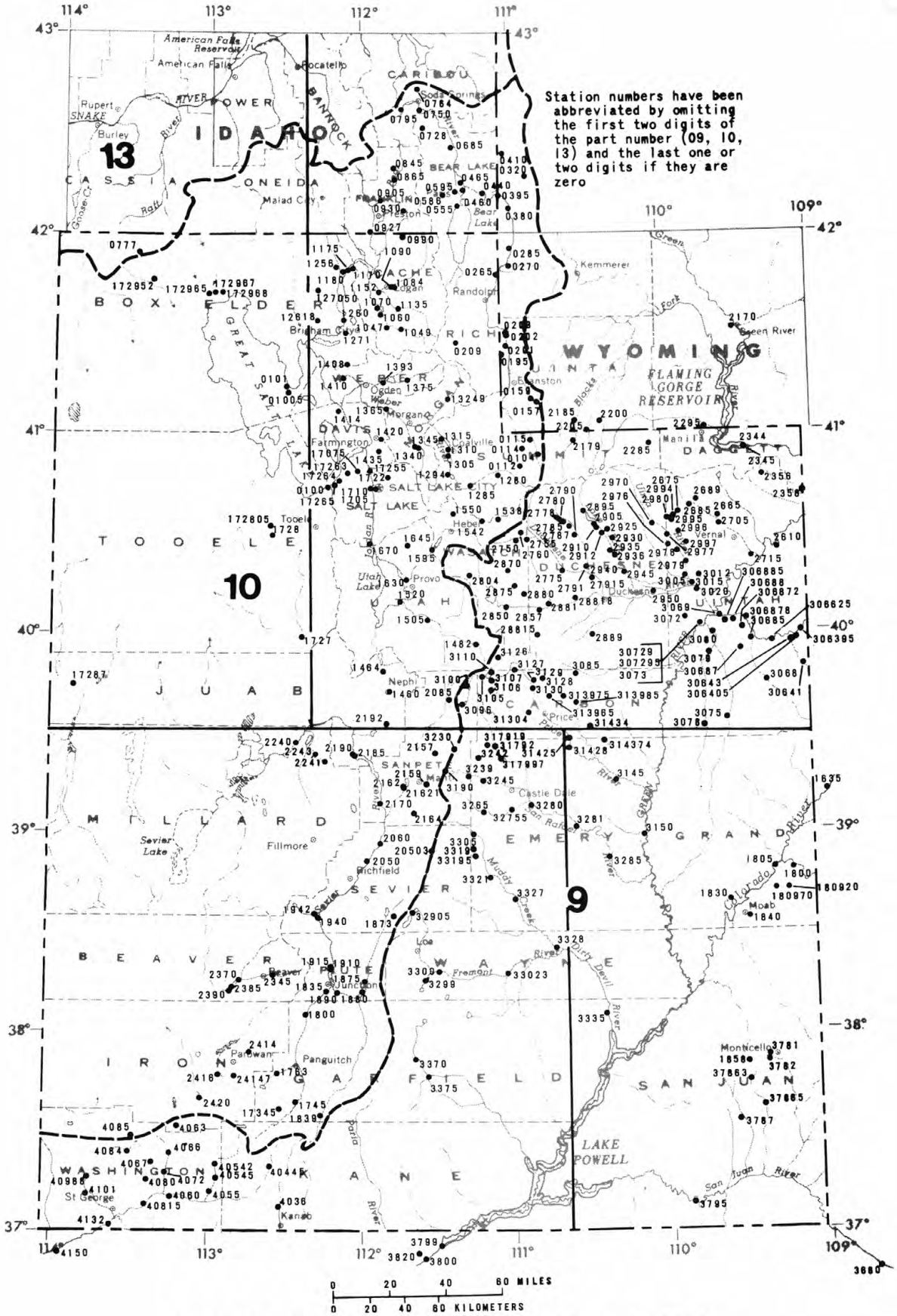

Figure 9.—Location of gaging stations in Utah.

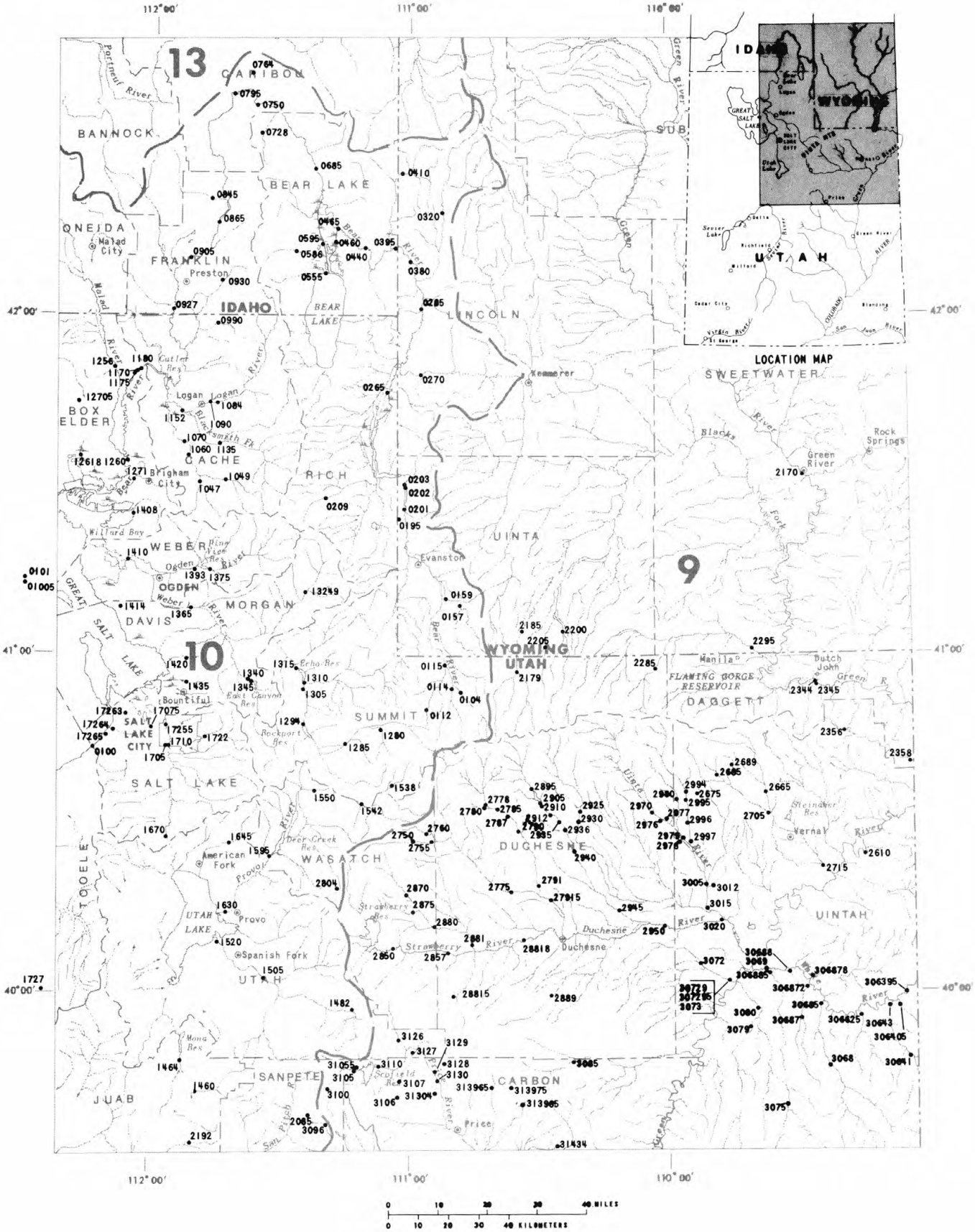

Figure 9.— Continued.

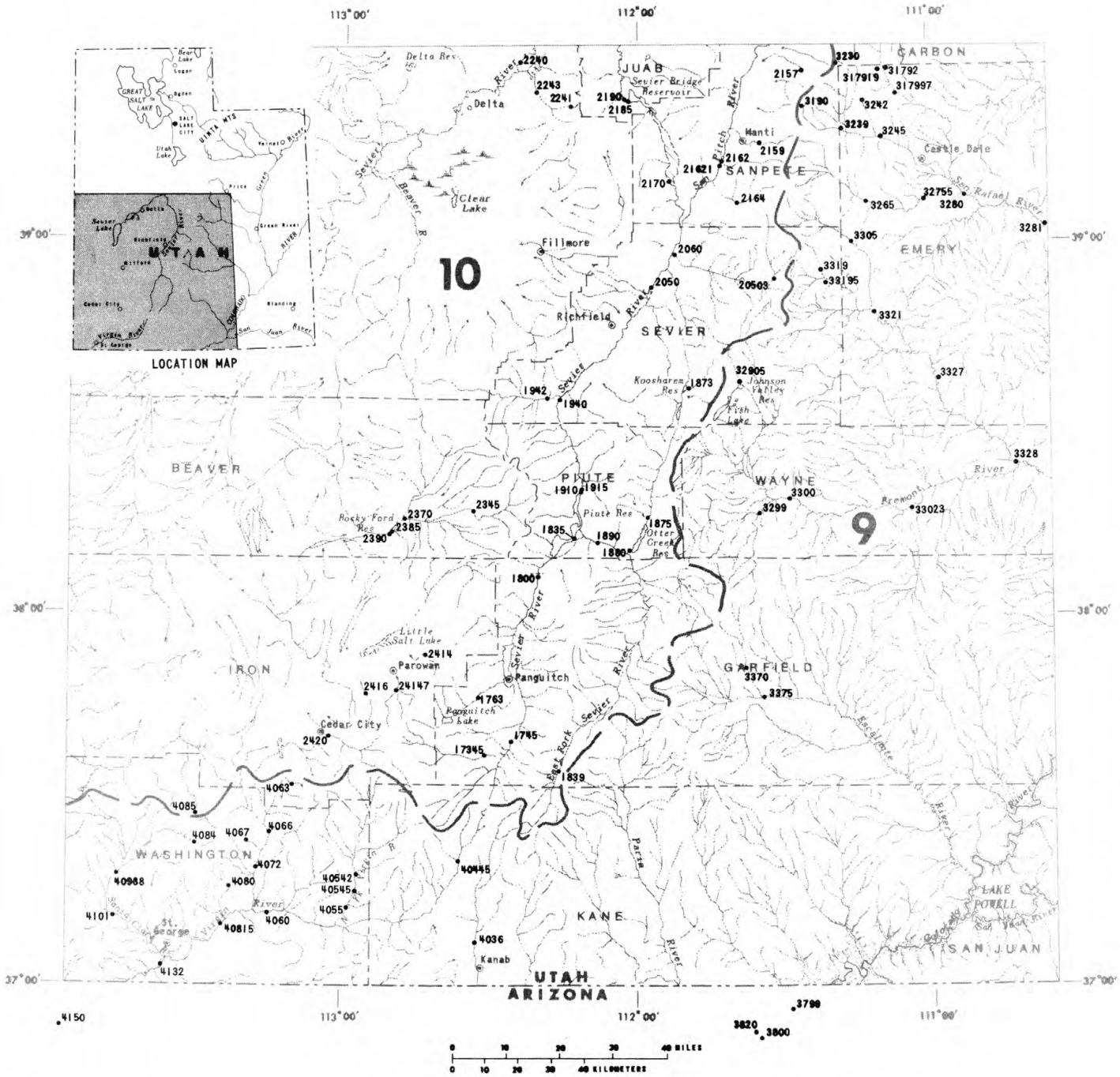

Figure 9.— Continued.

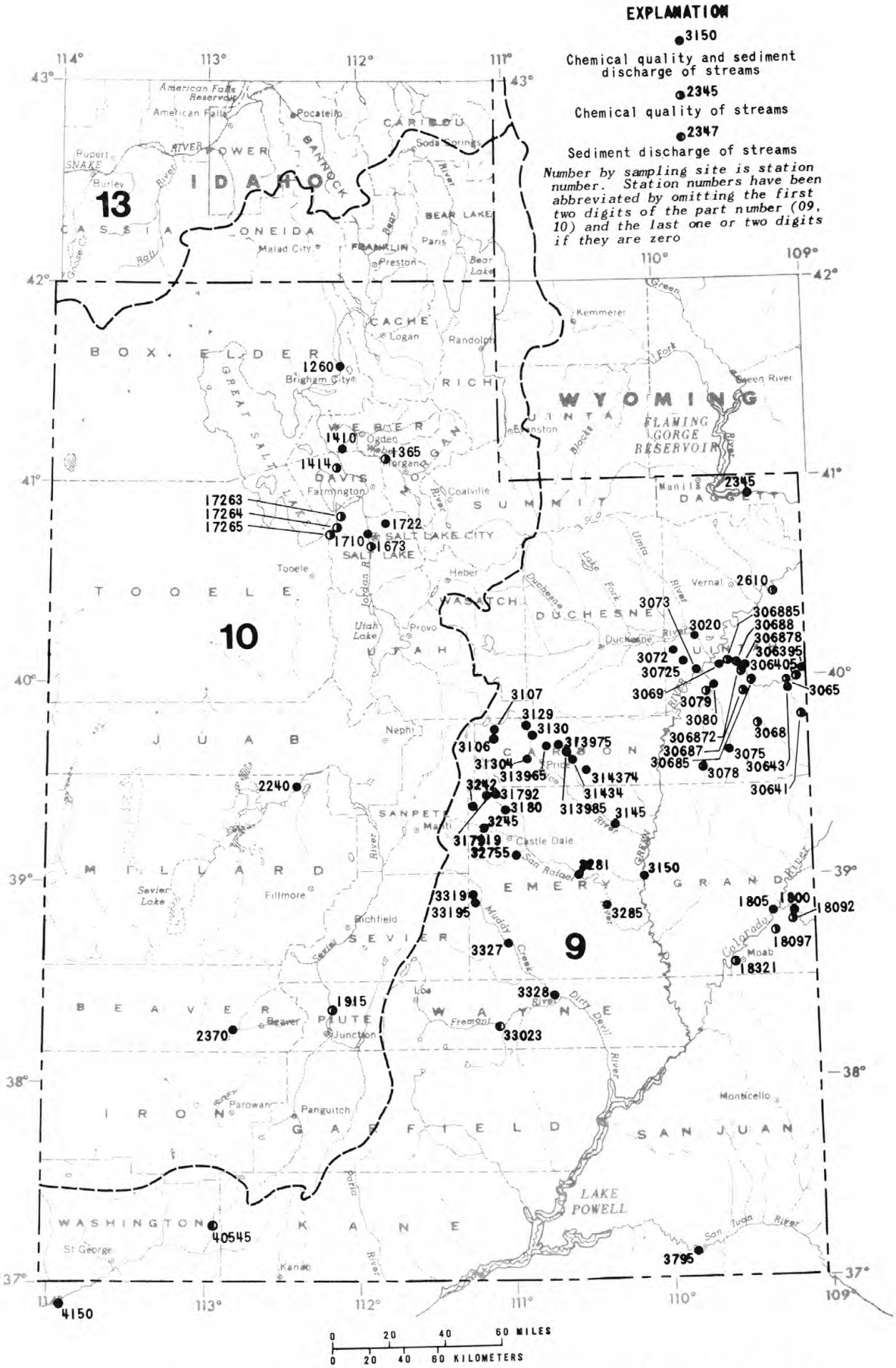

Figure 10.—Location of surface-water-quality stations in Utah.

COLORADO RIVER BASIN

COLORADO RIVER MAIN STEM

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 39°10'00", long 108°57'26", in SE1/4SE1/4 sec.23, T.10 S., R.104 W., Mesa County, Hydrologic Unit 14010005, on right bank 4.8 mi (7.7 km) downstream from Salt Creek, 6.3 mi (10.1 km) southwest of Mack, Colo., and 7.2 mi (11.6 km) upstream from Colorado-Utah State Line.

DRAINAGE AREA.--17,764 mi^2 (46,009 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WRD Colo. 1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,365 ft (1,330 m), from topographic map.

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

AVERAGE DISCHARGE.--29 years, 5,788 ft^3/s (163.9 m^3/s), 4,193,000 acre-ft/yr (5,170 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); minimum daily, 960 ft^3/s (27.2 m^3/s) Sept. 7, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32,100 ft^3/s (909 m^3/s at 2400) May 24, gage height, 10.82 ft (3.298 m); minimum daily, 2,380 ft^3/s (67.4 m^3/s) Aug.13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3710	3780	3360	3680	3730	4070	4320	15400	22200	13200	3040	3490
2	3730	3920	3340	3800	3620	4170	4240	15100	21400	14200	3000	3460
3	3690	4220	3800	3980	3760	3950	4230	14200	20600	14300	2970	3380
4	3620	3700	4280	4020	3950	3960	4260	14000	20200	13900	2890	3080
5	3540	3480	4480	4000	4000	4040	4170	14800	22300	13100	2780	2900
6	3400	3520	4420	3950	3950	4050	4150	15600	24300	11600	2780	3000
7	3730	3540	4550	3920	3900	4200	4240	17300	26100	10400	2910	3040
8	3690	3580	4480	4030	3930	4360	4250	20300	25500	9620	2890	3080
9	3650	4350	4450	4040	3800	4350	4120	21400	22100	9120	2650	3060
10	3700	4420	4400	4070	3640	4230	4020	21500	25400	8610	2640	3240
11	3740	4420	4280	4350	3570	4190	4050	20400	27900	7590	2600	3700
12	3290	4550	4300	4080	3590	4200	3830	21900	30100	7130	2440	4200
13	3120	4550	4080	4030	3640	4140	4130	21500	30200	6850	2380	4200
14	3460	4250	3850	4390	3810	4060	4080	19100	28200	7460	2500	4220
15	3650	3480	3720	4830	4330	4080	4100	17800	26700	6890	2550	4200
16	3750	3380	3780	4610	4880	4140	4490	16900	25300	6300	3030	4200
17	3700	3420	3880	4220	4570	4110	4450	18100	23600	5730	3360	4050
18	3120	3460	4080	3580	4330	4070	4640	20800	23500	5270	3370	3980
19	3120	3580	4120	3660	5210	4030	5230	18900	22900	4910	3140	3720
20	3060	3750	4000	4020	5390	4050	6100	16400	22300	4630	2950	3520
21	3320	3650	3950	3980	5120	4090	8170	19200	21600	4500	2840	3480
22	3680	3560	4020	3920	4500	4160	9260	22700	21000	4270	2770	3500
23	3900	3400	4150	3840	4440	4430	10600	26200	20400	3940	2740	3500
24	3950	3260	4180	3640	4350	4380	11600	29600	19800	3770	3080	3480
25	3720	3320	4120	3650	4080	4390	11500	30200	17300	3650	3490	3540
26	3750	3540	4020	3800	3980	4400	10800	26400	16700	3630	3920	3480
27	4180	3650	4080	3900	3940	4360	11000	23900	16500	3690	4120	3420
28	3800	3500	4100	3970	3980	4060	11300	22600	16100	3520	4240	3360
29	3750	3140	4050	4030	4030	4120	11900	22300	15000	3340	3880	3300
30	3750	3340	4020	4000	---	4050	13300	22800	13500	3210	3730	3280
31	3780	---	3900	3880	---	4340	---	21900	---	3110	3580	---
TOTAL	112050	111710	126240	123870	120020	129230	196530	629200	668700	221440	95260	106060
MEAN	3615	3724	4072	3996	4139	4169	6551	20300	22290	7143	3073	3535
MAX	4180	4550	4550	4830	5390	4430	13300	30200	30200	14300	4240	4220
MIN	3060	3140	3340	3580	3570	3950	3830	14000	13500	3110	2380	2900
AC-FT	222300	221600	250400	245700	238100	256300	389800	1248000	1326000	439200	188900	210400

CAL YR 1979 TOTAL 2865680 MEAN 7851 MAX 35400 MIN 3060 AC-FT 5684000
WTR YR 1980 TOTAL 2640310 MEAN 7214 MAX 30200 MIN 2380 AC-FT 5237000

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Colorado, 1980."

09180000 DOLORES RIVER NEAR CISCO, UTAH

LOCATION.--Lat 38°47'50", long 109°11'40", in SW1/4SE1/4 sec.18, T.23 S., R.25 E., Grand County, Hydrologic Unit 14030004, on left bank 0.2 mi (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.--30 years, 754 ft^3/s (21.4 m^3/s), 546,300 acre-ft/yr (674 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.--Peak discharge above base of 3,000 ft^3/s (85.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage Height (ft)	Gage Height (m)
Apr. 23	1430	*12,200	346	13.56	4.133
May 1	1100	10,600	300	13.08	3.987
May 9	1530	10,200	289	12.91	3.935
May 23	1900	9,540	270	12.67	3.862

Minimum discharge, 47 ft^3/s (1.33 m^3/s) Oct. 7-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	128	110	130	213	244	220	9750	5600	2240	218	147
2	52	128	117	129	199	215	229	7940	5470	2290	215	136
3	51	128	120	131	194	198	224	6030	5100	2350	213	131
4	49	131	118	130	199	210	228	5810	5030	2250	204	129
5	49	141	122	131	211	201	228	6340	5390	1940	196	121
6	49	129	119	133	205	214	229	7120	5820	1710	188	116
7	49	129	120	132	205	242	234	7570	6030	1510	183	110
8	48	133	132	134	208	242	240	8840	5630	1330	170	118
9	49	134	129	146	215	232	307	8840	5370	1370	170	149
10	49	139	127	208	220	219	387	7540	5720	1230	152	151
11	49	139	131	203	217	214	412	6300	6000	1140	165	163
12	49	136	129	226	224	226	640	6940	6500	952	155	232
13	51	126	128	224	225	223	914	6720	7000	898	149	223
14	53	118	129	246	237	215	745	5630	6500	841	139	178
15	56	113	130	273	328	203	778	4650	6100	782	139	165
16	60	116	132	308	318	204	1310	4630	5500	672	152	155
17	59	116	133	276	328	205	2280	5830	4200	627	181	158
18	70	116	131	285	360	203	3110	5610	4000	560	181	144
19	79	121	134	281	471	192	4440	5190	3500	452	165	129
20	101	105	138	287	551	196	5830	5630	3300	407	147	117
21	103	108	140	275	503	206	7410	6340	3200	375	136	108
22	118	98	139	256	451	208	9110	7900	3100	331	123	99
23	160	113	134	212	391	219	10400	8940	3200	292	113	93
24	138	113	133	193	339	228	9990	8970	3160	280	121	82
25	125	108	133	177	290	247	8730	7920	3070	262	157	84
26	129	108	129	176	260	270	7170	6320	2970	268	256	82
27	133	107	133	198	245	257	8260	5270	2900	299	348	82
28	130	108	134	213	259	247	8080	4920	2860	296	230	82
29	132	106	131	231	244	249	8090	5050	2670	250	199	82
30	131	108	130	232	---	238	9020	5200	2410	221	170	82
31	125	---	129	221	---	221	---	5500	---	213	160	---
TOTAL	2549	3603	3994	6397	8310	6888	109245	205240	137300	28638	5495	3848
MEAN	82.2	120	129	206	287	222	3642	6621	4577	924	177	128
MAX	160	141	140	308	551	270	10400	9750	7000	2350	348	232
MIN	48	98	110	129	194	192	220	4630	2410	213	113	82
AC-FT	5060	7150	7920	12690	16480	13660	216700	407100	272300	56800	10900	7630

CAL YR 1979 TOTAL 550450 MEAN 1508 MAX 12200 MIN 48 AC-FT 1092000
WTR YR 1980 TOTAL 521507 MEAN 1425 MAX 10400 MIN 48 AC-FT 1034000

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, 9,820 micromhos Oct. 17; minimum daily, 290 micromhos May 24, June 13, 14, 15.
WATER TEMPERATURES: Maximum, 26.0°C several days during July and Aug.; minimum, 0.0°C Dec. 18, 20.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (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											
25...	1200	122	5400	8.2	13.0	9.5	--	--	--	--	--
NOV											
15...	1230	155	5620	8.5	5.0	6.0	6.7	12.5	--	<1	90
30...	1200	106	7600	8.2	-9.0	.0	--	--	--	--	--
DEC											
18...	0810	50	4940	8.4	-9.5	.0	4.5	--	3.4	<1	K14
20...	1330	138	6250	8.4	2.0	.0	--	--	--	--	--
JAN											
23...	1100	211	3010	8.4	1.5	1.0	36	11.2	2.1	<2	640
FEB											
20...	1230	300	2410	8.4	8.5	5.5	85	12.9	2.9	K7	240
MAR											
21...	1300	202	3610	8.2	16.5	8.5	25	10.0	4.5	K11	K19
APR											
24...	1200	10550	310	7.6	18.0	7.5	660	10.1	.93	--	--
MAY											
19...	1200	5300	405	8.0	19.5	12.0	230	9.1	.53	--	--
JUN											
23...	1100	3100	340	7.7	30.0	16.5	66	8.0	.88	63	130
JUL											
29...	1430	300	3600	8.3	34.5	24.0	--	6.9	--	K30	K15
AUG											
18...	1100	200	4620	8.3	27.0	19.5	45	7.9	2.6	--	--
SEP											
15...	1100	157	2960	8.2	23.0	16.5	64	8.0	1.7	120	180

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
OCT											
25...	690	550	150	76	870	81	14	920	47	--	--
NOV											
15...	680	510	150	75	930	82	15	990	55	190	10
30...	780	580	160	93	1300	85	20	1400	65	--	--
DEC											
18...	680	470	150	74	850	81	14	890	40	250	2
20...	780	580	170	86	980	81	15	1000	50	--	--
JAN											
23...	430	260	93	48	480	80	10	500	24	200	4
FEB											
20...	470	290	110	47	370	62	7.4	390	17	210	4
MAR											
21...	560	390	120	63	570	67	11	600	31	210	0
APR											
24...	120	46	35	7.3	18	24	.7	--	3.1	--	--
MAY											
19...	140	33	39	10	26	29	1.0	--	2.7	130	0
JUN											
23...	110	44	33	6.7	25	33	1.0	--	2.0	80	0
JUL											
29...	--	--	--	--	--	--	--	--	--	--	--
AUG											
18...	560	410	130	57	810	74	15	--	41	--	--
SEP											
15...	560	410	130	58	420	61	7.7	--	22	--	--

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 1979 TO SEPTEMBER 1980

DATE	ALKALINITY (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										
25...	140	--	550	1300	.5	6.1	--	3090	4.20	1020
NOV										
15...	172	1.1	460	1500	.4	7.1	3300	3290	4.49	1380
30...	200	--	530	2100	.5	10	--	4380	5.96	1250
DEC										
18...	208	1.6	510	1300	.3	8.5	3170	3070	4.31	428
20...	200	--	600	1600	.4	20	--	3630	4.94	1350
JAN										
23...	171	1.3	310	710	.3	7.8	1850	1780	2.52	1050
FEB										
20...	179	1.4	340	510	.4	9.6	1490	1520	2.03	1210
MAR										
21...	172	2.1	450	890	.4	5.1	2230	2240	3.03	1220
APR										
24...	71	--	67	16	.2	7.4	213	198	.29	6070
MAY										
19...	107	2.1	76	26	.2	7.6	248	252	.34	3550
JUN										
23...	66	2.6	46	33	.1	6.2	195	192	.27	1630
JUL										
29...	--	--	--	--	--	--	--	--	--	--
AUG										
18...	150	--	410	1300	.4	.7	2770	2850	3.77	1500
SEP										
15...	150	--	470	670	.5	5.5	1850	1870	2.52	784

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA 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)
OCT								
25...	--	1.9	--	--	--	--	--	--
NOV								
15...	1.1	1.1	3.800	3.500	4.6	4.5	.00	--
30...	--	.91	--	--	--	--	--	--
DEC								
18...	1.1	1.2	1.800	2.000	2.2	2.6	.60	.20
20...	--	1.2	--	--	--	--	--	--
JAN								
23...	.75	.75	2.000	2.000	2.4	2.6	.70	.00
FEB								
20...	.59	.58	2.200	2.200	2.7	2.8	.30	.10
MAR								
21...	.85	.91	5.400	5.300	6.5	6.8	.00	.00
APR								
24...	.23	.22	.350	.070	.42	.09	2.3	.64
MAY								
19...	.14	.11	.030	.030	.04	.04	2.9	.39
JUN								
23...	.23	.18	.000	.010	.00	.01	.50	.69
AUG								
18...	1.6	1.3	.720	.740	.87	.95	.68	.56
SEP								
15...	.73	.72	.210	.190	.25	.24	.99	.75

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
OCT								
25...	--	--	--	--	--	--	--	.000
NOV								
15...	3.5	--	--	4.6	20	.010	.03	.010
30...	--	--	--	--	--	--	--	.000
DEC								
18...	2.4	.20	2.2	3.5	16	.010	.03	.000
20...	--	--	--	--	--	--	--	.010
JAN								
23...	2.7	1.4	1.3	3.5	15	.040	.12	.000
FEB								
20...	2.5	.20	2.3	3.1	14	.060	.18	.000
MAR								
21...	5.4	1.8	3.6	6.3	28	.040	.12	.010
APR								
24...	2.6	1.9	.71	2.8	13	1.400	4.3	.020
MAY								
19...	2.9	2.5	.42	3.0	13	.450	1.4	.020
JUN								
23...	.50	.00	.70	.73	3.2	.160	.49	.020
AUG								
18...	1.4	.10	1.3	3.0	13	.020	.06	.020
SEP								
15...	1.2	.26	.94	1.9	8.5	.090	.28	.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)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)
NOV										
15...	1230	1	0	3	300	0	300	0	0	0
FEB										
20...	1230	2	0	2	300	100	200	1	1	0
MAY										
19...	1200	4	3	1	400	300	100	1	--	<1
AUG										
18...	1100	2	0	2	200	0	200	0	0	0

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, 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)
NOV										
15...	4	4	0	0	0	0	2	1	1	270
FEB										
20...	10	10	0	1	1	0	16	15	1	1700
MAY										
19...	10	10	0	6	--	<3	15	12	3	14000
AUG										
18...	10	0	20	1	0	1	3	1	2	130

DATE	IRON, SUS-PENDED RECOV-ERABLE (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)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (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)
NOV										
15...	260	3	3	0	70	30	.0	.0	.0	6
FEB										
20...	1700	6	0	9	140	80	.1	.0	.1	8
MAY										
19...	14000	36	34	2	440	440	.1	.1	.0	20
AUG										
18...	100	6	3	3	40	20	.0	.0	.1	5

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)	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)
NOV										
15...	0	6	2	0	3	0	0	0	10	0
FEB										
20...	5	3	3	0	3	0	0	0	1300	1300
MAY										
19...	16	4	2	1	1	0	0	0	110	50
AUG										
18...	4	1	2	1	1	0	0	0	20	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				
25...	1200	190	--	--
NOV				
15...	1230	--	10	40
30...	1200	200	--	--
DEC				
20...	1330	220	--	--
FEB				
20...	1230	--	20	60
MAY				
19...	1200	--	30	3
AUG				
18...	1100	--	30	20

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)
NOV				
15...	1230	--	7.7	.1
DEC				
18...	0810	6.2	--	--
JAN				
23...	1100	20	--	--
FEB				
20...	1230	--	5.6	2.4
MAR				
21...	1300	3.7	--	--
APR				
24...	1200	32	--	--
MAY				
19...	1200	--	7.5	2.0
JUN				
23...	1100	9.1	--	--
AUG				
18...	1100	--	9.6	.3
SEP				
15...	1100	8.1	--	--

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...	1230	.470	.390	.350	.000	229
AUG						
18...	1100	17.4	16.5	1.75	.030	514

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	NOV 15,79		MAR 21,80		MAY 19,80		JUN 23,80	
TIME	1230		1300		1200		1100	
TOTAL CELLS/ML	1900		680		370		26	
DIVERSITY: DIVISION	1.3		0.5		1.0		0.0	
.CLASS	1.3		0.5		1.0		0.0	
..ORDER	0.0		1.0		1.2		1.0	
...FAMILY	0.0		2.2		2.5		1.0	
....GENUS	0.0		2.2		2.5		1.0	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...COELASTRACEAE								
....COELASTRUM	--	-	--	-	--	-	--	-
...MICRACTINIACEAE								
....MICRACTINIUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	--	-	--	-	--	-
....CHODATELLA	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....SCENEDESMUS	190	10	51	8	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	83	4	26	4	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	370#	20	51	8	14	4	13#	50
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	69	4	--	-	55	15	--	-
...CYMBELLACEAE								
....CYMBELLA	28	1	13	2	--	-	--	-
...DIATOMACEAE								
....DIATOMA	--	-	--	-	14	4	--	-
...FRAGILARIACEAE								
....SYNEDRA	14	1	--	-	--	-	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	14	1	13	2	41	11	--	-
...NAVICULACEAE								
....ENTOMONEIS	--	-	--	-	--	-	--	-
....NAVICULA	140	7	90	13	55	15	13#	50
....PLAGIOTROPIS	83	4	--	-	--	-	--	-
...NITZSCHIACEAE								
....NITZSCHIA	530#	28	360#	53	55	15	--	-
...SURIRELLACEAE								
....SURIRELLA	83	4	77	11	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE	28	1	--	-	--	-	--	-
..CRYPTOMONADALES								
...CRYPTOMONADACEAE								
....CRYPTOMONAS	14	1	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....AGMENELLUM	210	11	--	-	--	-	--	-
....ANACYSTIS	28	1	--	-	--	-	--	-
..HORMOGONALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	--	-	--	-	--	-
...RIVULARIACEAE								
....RAPHIDIOPSIS	--	-	--	-	140#	37	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....TRACHELOMONAS	--	-	--	-	--	-	--	-

See footnotes at end of table.

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	JUL 29,80		AUG 18,80		SEP 15,80	
TIME	1430		1100		1100	
TOTAL CELLS/ML	6200		4300		13000	
DIVERSITY: DIVISION	1.4		1.5		1.5	
.CLASS	1.4		1.5		1.5	
..ORDER	1.7		1.8		2.1	
...FAMILY	2.7		2.6		2.5	
....GENUS	2.7		2.6		2.5	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...COELASTRACEAE						
....COELASTRUM	370	6	--	-	--	-
...MICRACTINIACEAE						
....MICRACTINIUM	--	-	160	4	270	2
...OOCYSTACEAE						
....ANKISTRODESMUS	47	1	--	-	--	-
....CHODATELLA	94	2	--	-	180	1
....DICTYOSPHAERIUM	--	-	190	4	--	-
...SCENEDESMACEAE						
....SCENEDESMUS	840	14	1600#	36	2700#	20
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	330	5	120	3	90	1
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	94	2	190	4	1500	11
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	370	6	--	-	--	-
...CYMBELLACEAE						
....CYMBELLA	--	-	31	1	--	-
...DIATOMACEAE						
....DIATOMA	--	-	--	-	--	-
...FRAGILARIACEAE						
....SYNEDRA	2500#	40	900#	21	--	-
...GOMPHONEMATACEAE						
....GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
....ENTOMONEIS	--	-	--	-	270	2
....NAVICULA	47	1	190	4	360	3
....PLAGIOTROPIS	--	-	--	-	--	-
...NITZSCHIACEAE						
....NITZSCHIA	750	12	120	3	5200#	39
...SURIRELLACEAE						
....SURIRELLA	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
.CRYPTOPHYCEAE	--	-	--	-	--	-
..CRYPTOMONADALES						
...CRYPTOMONADACEAE						
....CRYPTOMONAS	47	1	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....AGMENELLUM	--	-	--	-	--	-
....ANACYSTIS	750	12	870#	20	360	3
..HORMOGONALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	--	-	--	-	2200#	17
...RIVULARIACEAE						
....RAPHIDIOPSIS	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....TRACHELOMONAS	--	-	--	-	270	2

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	4590	7250	4110	---	3650	3110	---	320	460	2880	2280
2	8840	---	6720	---	4200	4130	3160	320	---	490	---	---
3	8670	4530	5680	4710	4560	---	3220	340	320	510	3100	2930
4	8690	4880	---	---	4840	---	3200	360	330	520	3240	3220
5	8910	5040	6020	---	5400	---	3190	350	320	540	3270	3400
6	9220	5180	---	---	4520	---	3560	340	310	630	3410	3660
7	9110	5070	7820	---	4180	---	---	---	310	720	3490	3820
8	9400	5310	7720	---	4140	---	3280	310	310	770	3550	4150
9	---	---	7600	4490	4040	---	3270	310	310	850	3680	---
10	9370	4700	6760	4610	3970	---	3460	320	300	910	3860	4680
11	9090	5230	---	4700	4120	---	3100	345	300	950	3810	5140
12	8810	5300	6450	---	4410	---	2190	---	300	1020	---	9710
13	8760	5330	5860	---	4030	---	1700	365	290	1090	3920	3320
14	8850	5620	6030	---	3910	---	1700	365	290	1140	4540	5270
15	9150	5470	6440	---	---	---	1210	430	290	1200	3900	3400
16	9330	5250	6000	---	3410	---	---	430	310	1260	---	2630
17	9820	4840	2760	---	3260	---	890	410	340	1490	4480	---
18	9690	5300	4940	---	3880	---	760	410	330	1600	4700	4690
19	9480	---	---	---	3100	---	600	405	340	1680	---	4410
20	8830	---	7140	---	2160	---	510	380	330	1860	3350	3930
21	7950	7210	6810	---	2170	3610	440	345	330	1930	3010	4680
22	---	6660	5970	3160	2180	---	390	330	330	2010	---	3910
23	5600	---	---	3190	2490	---	375	---	350	2130	5860	---
24	5420	5270	4870	3420	2460	---	335	290	360	2330	3630	4040
25	4870	6210	---	3330	2280	---	345	295	365	2430	2890	4090
26	5250	7770	5270	3600	---	3260	---	310	380	2730	---	---
27	4510	7080	5000	---	3070	3080	345	330	380	2890	4550	4530
28	5190	5650	4430	---	3580	---	345	345	380	2850	4520	4670
29	4690	6360	4690	---	---	2860	315	360	395	3600	4380	5000
30	4660	6610	5200	4420	---	2910	300	330	430	2620	2280	---
31	4560	---	4850	4070	---	3010	---	325	---	2290	2050	---
MEAN	7740	5620	5930	---	3610	---	1680	350	333	1530	3690	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

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

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
NOV						
15...	1230	155	6.0	78	74	33
JAN						
23...	1100	211	1.0	273	98	156
FEB						
20...	1230	300	5.5	237	98	192
MAR						
21...	1300	202	8.5	42	96	23
APR						
24...	1200	10550	7.5	3780	48	108000
JUL						
29...	1430	300	24.0	260	97	211
AUG						
18...	1100	200	19.5	10	84	5.4
SEP						
15...	1100	157	16.5	249	99	106

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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						
11...	1015	4160	12.5	18	14	202
DEC						
11...	1600	2440	5.0	3	9	20
JAN						
17...	1600	2160	4.0	3	46	17
MAR						
20...	1515	915	3.5	1	50	2.5
APR						
08...	1415	1440	4.0	9	31	35
MAY						
21...	1530	2220	9.5	14	74	84
JUN						
26...	1400	871	12.5	4	87	9.4
JUL						
15...	1400	2650	13.5	2	62	14
AUG						
20...	1430	1330	13.0	1	50	3.6
SEP						
24...	1400	2650	14.0	4	33	29

09180500 COLORADO RIVER NEAR CISCO, UTAH

LOCATION.--Lat 38°48'38", long 109°17'34", in NW1/4NW1/4 sec.17, T.23 S., R.24 E., Grand County, Hydrologic Unit 14030005, on left bank 1 mi (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 (1,645.2 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, calendar-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.--69 years (1911-80), 7,555 ft^3/s (214.0 m^3/s), 5,474,000 acre-ft/yr (6.75 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, 39,200 ft^3/s (1,110 m^3/s) May 25, gage height, 12.91 ft (3.935 m); minimum, 2,550 ft^3/s (72.2 m^3/s) Aug. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3750	3820	3400	3980	4000	4260	4650	23700	29400	15300	3390	3640
2	3750	4040	3500	3820	3900	4410	4570	23400	29100	16200	3350	3630
3	3700	4100	3720	4140	4100	4160	4460	20900	25300	16100	3300	3340
4	3680	4120	4550	4240	4300	4150	4530	20400	25500	15900	3250	2930
5	3620	3610	4600	4240	4300	4220	4440	21200	26000	14600	3140	2820
6	3330	3610	4600	4180	4230	4300	4360	22700	29000	13300	3040	2920
7	3740	3630	4750	4100	4130	4460	4420	24400	30900	12100	3180	2910
8	3720	3670	4600	4160	4160	4670	4480	28400	30300	11200	3190	3020
9	3700	4120	4500	4220	4100	4680	4460	30100	29400	10700	3030	2950
10	3660	4570	4440	4240	3870	4510	4420	29700	30600	10300	2820	3350
11	3790	4530	4180	4530	3810	4440	4400	27200	32900	9250	2840	3760
12	3460	4550	4360	4440	3780	4520	4460	28500	35600	8580	2770	4230
13	3300	4670	4160	4240	3820	4400	4730	29100	36400	8070	2650	4220
14	3380	4530	4000	4480	4000	4320	4800	25700	35400	8560	2680	4200
15	3630	3720	3790	5070	4420	4300	4690	23300	33500	8250	2900	4180
16	3750	3460	3800	5070	5130	4320	5400	22200	30700	7500	3210	4070
17	3830	3400	3950	4800	5050	4360	6610	23300	27900	6890	3450	4010
18	3330	3480	4150	4150	4780	4320	7650	26100	26200	6350	3570	3870
19	3080	3590	4200	4000	5390	4240	8980	24600	25600	5910	3400	3720
20	3110	3840	4100	4150	6360	4240	10800	24400	25800	5510	3140	3430
21	3240	3780	4000	4200	5910	4310	13500	25900	24200	5290	2940	3360
22	3640	3650	4200	4150	5200	4380	15900	28900	22800	5030	2850	3310
23	3990	3520	4320	4100	4850	4700	18300	33900	21800	4530	2720	3350
24	4040	3360	4360	3990	4750	4680	19400	37900	21000	4190	3140	3300
25	3900	3290	4340	3880	4460	4790	18900	38400	20200	4120	3440	3380
26	3770	3380	4260	4010	4270	4780	16200	33200	19500	4020	4240	3400
27	4140	3650	4220	4170	4190	4830	17600	29100	18900	4150	4460	3280
28	3960	3600	4320	4270	4240	4500	18300	26700	18400	4050	4460	3260
29	3810	3200	4320	4360	4270	4460	19100	26300	17600	3790	4220	3120
30	3820	3350	4260	4350	---	4220	20700	27300	15800	3610	3900	3100
31	3830	---	4160	4300	---	4610	---	27600	---	3430	3720	---
TOTAL	113450	113840	130110	132030	129770	137540	285210	834500	795700	256780	102390	104060
MEAN	3660	3795	4197	4259	4475	4437	9507	26920	26520	8283	3303	3469
MAX	4140	4670	4750	5070	6360	4830	20700	38400	36400	16200	4460	4230
MIN	3080	3200	3400	3820	3780	4150	4360	20400	15800	3430	2650	2820
AC-FT	225000	225800	258100	261900	257400	272800	565700	1655000	1578000	509300	203100	206400

CAL YR 1979 TOTAL 3330740 MEAN 9125 MAX 44600 MIN 3080 AC-FT 6607000
WTR YR 1980 TOTAL 3135380 MEAN 8567 MAX 38400 MIN 2650 AC-FT 6219000

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, 1,970 micromhos Sept. 12; minimum daily, 335 micromhos June 13, 14.
WATER TEMPERATURES: Maximum, 25.0°C several days during July and Aug.; minimum, 0.0°C Dec. 18.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 4,040 mg/L June 17; minimum daily mean, 13 mg/L Jan. 1.
SEDIMENT LOADS: Maximum daily, 337,000 tons (306,000 tonnes) June 7; minimum daily, 140 tons (127 tonnes) Jan. 1.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (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)
NOV											
15...	1030	3700	1220	8.7	2.5	4.0	4.7	7.0	1.2	K10	93
DEC											
18...	0835	4200	1060	8.5	-9.5	.0	4.6	--	1.4	K2	33
JAN											
23...	1430	4100	990	8.6	3.5	3.0	8.4	12.6	.93	K1	K70
FEB											
19...	1130	5910	1130	8.3	11.0	6.0	280	11.7	1.3	K30	3400
MAR											
20...	1230	4380	1020	8.1	12.0	7.5	60	10.2	.96	<1	38
APR											
24...	1330	20000	430	7.7	19.5	9.0	540	9.7	1.2	--	--
MAY											
19...	1430	24500	500	8.1	24.5	12.5	410	8.3	1.1	--	--
JUN											
23...	1400	22000	410	7.9	37.0	17.0	52	8.8	.82	510	130
JUL											
29...	1130	3910	1220	8.0	32.0	24.0	--	6.8	--	K32	K40
AUG											
18...	1400	3500	1580	8.3	31.5	22.5	20	7.8	1.4	--	--
SEP											
15...	1500	4190	1440	8.1	29.0	19.0	64	8.6	2.0	160	200

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
NOV											
15...	360	200	93	32	120	52	2.7	130	6.0	180	8
DEC											
18...	340	180	88	29	110	51	2.6	110	4.8	190	5
JAN											
23...	320	170	81	29	110	42	2.7	110	4.7	180	3
FEB											
19...	310	150	76	29	130	47	3.2	140	5.8	200	0
MAR											
20...	280	140	71	26	110	45	2.8	--	4.6	170	0
APR											
24...	160	66	44	13	32	29	1.1	--	3.1	--	--
MAY											
19...	170	31	45	14	33	29	1.1	--	2.5	170	0
JUN											
23...	150	68	42	12	26	27	.9	--	1.7	100	0
JUL											
29...	--	--	--	--	--	--	--	--	--	--	--
AUG											
18...	470	320	120	41	170	44	3.4	--	8.3	--	--
SEP											
15...	510	350	130	44	130	36	2.5	--	6.7	--	--

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 1979 TO SEPTEMBER 1980

DATE	ALKALINITY (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)
NOV										
15...	161	.6	310	130	.3	9.9	823	801	1.12	8220
DEC										
18...	164	1.0	270	120	.2	12	776	736	1.06	8800
JAN										
23...	153	.7	250	120	.3	9.5	716	699	.97	7930
FEB										
19...	164	1.6	250	140	.4	9.9	732	743	1.00	11700
MAR										
20...	139	2.2	240	120	.4	9.2	677	667	.92	8010
APR										
24...	97	--	110	25	.2	9.5	289	297	.39	15600
MAY										
19...	139	2.2	100	21	.2	10	300	311	.41	19800
JUN										
23...	82	2.0	82	22	.2	8.6	253	245	.34	15000
JUL										
29...	--	--	--	--	--	--	--	--	--	--
AUG										
18...	150	--	430	200	.4	9.7	1080	1070	1.47	10200
SEP										
15...	160	--	440	140	.5	13	980	1010	1.33	11100

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA 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)
NOV								
15...	.69	.67	.100	.100	.12	.13	.33	.38
DEC								
18...	.80	.80	.080	.040	.10	.05	.55	.55
JAN								
23...	.54	.54	.120	.090	.15	.12	.61	.30
FEB								
19...	.64	.62	.380	.290	.46	.37	.92	.39
MAR								
20...	.45	.46	.370	.340	.45	.44	.43	.16
APR								
24...	.35	.35	.320	.140	.39	.18	2.2	.75
MAY								
19...	.31	.32	.040	.040	.05	.05	1.5	.74
JUN								
23...	.35	.28	.010	.060	.01	.08	.50	.48
AUG								
18...	1.1	.90	.090	.000	.11	.00	1.1	.53
SEP								
15...	1.1	1.3	.040	.030	.05	.04	.96	.69

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)
NOV								
15...	.43	.00	.48	1.1	5.0	.010	.03	.010
DEC								
18...	.63	.04	.59	1.4	6.3	.010	.03	.010
JAN								
23...	.73	.34	.39	1.3	5.6	.030	.09	.010
FEB								
19...	1.3	.62	.68	1.9	8.6	.280	.86	.000
MAR								
20...	.80	.30	.50	1.3	5.5	.090	.28	.030
APR								
24...	2.5	1.6	.89	2.9	13	.970	3.0	.020
MAY								
19...	1.5	.72	.78	1.8	8.0	.690	2.1	.020
JUN								
23...	.51	.00	.54	.86	3.8	.200	.61	.040
AUG								
18...	1.2	.67	.53	2.3	10	.050	.15	.020
SEP								
15...	1.0	.28	.72	2.1	9.3	.160	.49	.030

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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											
15...	1030	1	0	2	200	200	50	3	2	<1	4
FEB											
19...	1130	3	1	2	200	0	200	1	0	<1	10
MAY											
19...	1430	6	4	2	400	300	80	1	--	<1	10
AUG											
18...	1400	3	1	2	200	100	90	0	--	<1	0

DATE	CHRO-MIUM, SUS-PENDED RECOV. (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										
15...	4	0	0	<3	4	4	0	240	230	<10
FEB										
19...	10	3	0	<3	29	26	3	5200	5200	20
MAY										
19...	10	11	--	<3	25	19	6	20000	--	<10
AUG										
18...	0	0	--	<3	5	4	1	390	--	<10

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)
NOV										
15...	3	3	0	20	10	9	.0	.0	.0	2
FEB										
19...	25	17	8	210	190	20	.1	.1	.0	9
MAY										
19...	34	32	2	550	550	5	.1	.1	.0	25
AUG										
18...	16	16	0	40	40	4	.1	.1	.0	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)	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										
15...	0	3	7	1	6	0	0	0	0	5
FEB										
19...	8	1	5	1	4	0	0	990	920	70
MAY										
19...	11	14	3	1	2	0	0	130	80	50
AUG										
18...	4	0	10	2	8	0	0	60	--	<3

DATE	TIME	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)
NOV		
15...	1030	0
DEC		
18...	0835	0
FEB		
19...	1130	0
MAY		
19...	1430	0
JUN		
23...	1400	0
AUG		
18...	1400	0
SEP		
15...	1500	0

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)
NOV				
15...	1030	--	5.2	.2
DEC				
18...	0835	9.6	--	--
JAN				
23...	1430	27	--	--
FEB				
19...	1130	--	9.7	4.1
MAR				
20...	1230	4.5	--	--
APR				
24...	1330	26	--	--
MAY				
19...	1430	--	6.4	2.2
JUN				
23...	1400	9.3	--	--
AUG				
18...	1400	--	7.6	.6
SEP				
15...	1500	9.3	--	--

DATE	TIME	PCB TOTAL (UG/L)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	CHLOR-DANE, TOTAL (UG/L)	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
NOV											
15...	1030	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB											
19...	1410	--	--	ND	--	ND	--	ND	--	ND	--

DATE	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-AZINON, TOTAL (UG/L)	DI-AZINON, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-ELDRIN TOTAL (UG/L)	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR, TOTAL (UG/L)
NOV											
15...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB											
19...	ND	--	ND	--	ND	--	ND	--	ND	--	ND

DATE	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	MALA-THION, TOTAL (UG/L)	MALA-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)	METHYL PARA-THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI-THION, TOTAL (UG/L)
NOV											
15...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB											
19...	--	ND	--	ND	--	ND	--	ND	ND	--	ND

DATE	METHYL TRI-THION, TOT. IN BOTTOM MATL. (UG/KG)	PARA-THION, TOTAL (UG/L)	PARA-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TOX-APHENE, TOTAL (UG/L)	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	TRI-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV										
15...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB										
19...	--	ND	--	ND	--	ND	--	--	--	--

ND Material specifically analyzed for but not detected.

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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...	1030	62.5	58.6	94.5	.000	41.3
APR						
24...	1330	.079	.079	.050	.050	.00

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	NOV 15,79	MAR 20,80	MAY 19,80	JUN 23,80
TIME	1030	1230	1430	1400
TOTAL CELLS/ML	1500	1700	550	570
DIVERSITY: DIVISION	0.3	0.5	0.7	1.5
.CLASS	0.3	0.5	0.7	1.5
..ORDER	0.6	0.8	1.2	2.1
...FAMILY	2.6	2.5	3.0	2.6
....GENUS	2.6	2.5	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								
...COELASTRACEAE								
....COELASTRUM	--	-	--	-	--	-	--	-
...MICRACTINIACEAE								
....MICRACTINIUM	--	-	92	6	--	-	51	9
...OOCYSTACEAE								
....ANKISTRODESMUS	14	1	15	1	--	-	--	-
....CHLORELLA	--	-	--	-	--	-	13	2
....CHODATELLA	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	--	-	100#	18
....SCENEDESMUS	--	-	--	-	--	-	51	9
....TETRASTRUM	--	-	--	-	55	10	--	-
..TETRASPORALES								
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	--	-	13	2
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	76	5	--	-	13	2
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	82	5	61	4	55	10	170#	30
....MELOSIRA	--	-	--	-	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	14	1	--	-	--	-	--	-
....RHOICOSPHENIA	41	3	92	6	--	-	26	5
...CYMBELLACEAE								
....CYMBELLA	220	14	180	11	27	5	--	-
...DIATOMACEAE								
....DIATOMA	120	8	46	3	14	2	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	--	-	--	-	13	2
....SYNEDRA	14	1	--	-	69	13	--	-
...GOMPHONEMATACEAE								
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	--	-	--	-
...CRYPTOMONADACEAE								
....CRYPTOMONAS	14	1	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	--	-	--	-
..HORMOGONALES								
...NOSTOCACEAE								
....APHANIZOMENON	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	--	-	--	-	100#	18

See footnotes at end of table.

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	NOV 15,79		MAR 20,80		MAY 19,80		JUN 23,80	
TIME	1030		1230		1430		1400	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
....GOMPHONEMA	82	5	46	3	41	7	--	-
...NAVICULACEAE								
....DIPLONEIS	--	-	--	-	--	-	--	-
....ENTOMONEIS	--	-	--	-	--	-	--	-
....NAVICULA	660#	43	840#	50	160#	30	--	-
...NITZSCHIACEAE								
....NITZSCHIA	220	14	170	10	69	13	13	2
...SURIRELLACEAE								
....SURIRELLA	14	1	46	3	27	5	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUTREPTIA	14	1	--	-	--	-	--	-
....TRACHELOMONAS	14	1	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..GYMNODINIALES								
...GYMNODINIACEAE								
....GYMNODINIUM	--	-	--	-	14	2	--	-
..PERIDINIALES								
...GLENODINIACEAE								
....GLENODINIUM	--	-	--	-	14	2	--	-

DATE	JUL 29,80	AUG 18,80	SEP 15,80
TIME	1130	1400	1500
TOTAL CELLS/ML	6800	10000	7000
DIVERSITY: DIVISION	1.0	1.5	1.6
.CLASS	1.0	1.5	1.6
..ORDER	1.9	2.1	1.9
...FAMILY	2.5	3.0	2.7
....GENUS	2.7	3.2	2.9

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...COELASTRACEAE						
....COELASTRUM	--	-	800	8	--	-
...MICRACTINIACEAE						
....MICRACTINIUM	--	-	500	5	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	250	4	400	4	250	4
....CHLORELLA	--	-	--	-	--	-
....CHODATELLA	50	1	--	-	--	-
....DICTYOSPHAERIUM	200	3	--	-	--	-
....OOCYSTIS	--	-	150	1	320	5
....SELENASTRUM	50	1	*	0	--	-
...SCENEDESMACEAE						
....ACTINASTRUM	--	-	--	-	--	-
....SCENEDESMUS	900	13	2900#	28	2000#	28
....TETRASTRUM	--	-	--	-	--	-
..TETRASPORALES						
...PALMELLACEAE						
....SPHAEROCYSTIS	--	-	--	-	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	650	10	150	1	--	-
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	1800#	26	850	8	640	9
....MELOSIRA	150	2	1000	10	--	-
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	35	1
....RHOICOSPHENIA	--	-	--	-	35	1
...CYMBELLACEAE						
....CYMBELLA	--	-	--	-	--	-
...DIATOMACEAE						
....DIATOMA	--	-	--	-	--	-
...FRAGILARIACEAE						
....ASTERIONELLA	--	-	--	-	--	-
....SYNEDRA	700	10	*	0	--	-
...GOMPHONEMATACEAE						

See footnotes at end of table.

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	JUL 29,80 1130		AUG 18,80 1400		SEP 15,80 1500	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....EUTREPTIA	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	35	1
PYRRHOPHYTA (FIRE ALGAE)						
.DINOPHYCEAE						
..GYMNODINIALES						
...GYMNODINIACEAE						
....GYMNODINIUM	--	-	--	-	--	-
..PERIDINIALES						
...GLENODINIACEAE						
....GLENODINIUM	--	-	--	-	--	-
....GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
....DIPLONEIS	--	-	--	-	35	1
....ENTOMONEIS	--	-	--	-	35	1
....NAVICULA	50	1	1400	13	850	12
...NITZSCHIACEAE						
....NITZSCHIA	2000#	29	550	5	990	14
...SURIRELLACEAE						
....SURIRELLA	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
.CRYPTOPHYCEAE						
..CRYPTOMONADALES						
...CRYPTOCHRYSIDACEAE						
....CHROOMONAS	--	-	*	0	--	-
...CRYPTOMONADACEAE						
....CRYPTOMONAS	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	50	1	350	3	--	-
..HORMOGONALES						
...NOSTOCACEAE						
....APHANIZOMENON	--	-	--	-	460	7
...OSCILLATORIACEAE						
....OSCILLATORIA	--	-	1200	12	1300#	19

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1320	1430	1500	1020	1050	1160	1010	530	400	520	1270	1380
2	1350	1380	1370	1040	1120	1090	960	520	400	560	1320	---
3	---	1340	1330	1060	1100	---	1010	520	410	540	1300	1370
4	1320	1400	1230	1110	1000	---	990	520	410	550	1360	1380
5	1330	1330	1190	1070	1140	---	1060	520	410	550	1320	1390
6	1370	1320	---	1080	1080	---	1040	445	390	570	1320	---
7	1400	1440	1210	1130	1080	---	1010	490	380	600	1360	1480
8	1470	1430	1160	1050	1070	---	1030	475	400	630	1370	1500
9	1330	1440	1160	1070	1040	---	1020	475	380	670	1360	1570
10	1340	1400	1160	1140	1070	---	1060	470	380	710	1330	1610
11	1380	1230	1100	1110	1090	---	1000	465	370	720	1390	1610
12	1370	1230	1220	1050	1080	---	1020	475	370	770	---	1970
13	1380	1180	1180	1110	1020	---	1030	485	335	820	1410	1430
14	1450	1140	1110	1120	1050	1070	980	495	335	820	1470	1530
15	1470	1160	1170	1080	1050	1060	950	500	340	860	1500	1350
16	1380	1210	1140	1060	1060	1040	920	520	360	870	1510	1320
17	1350	1440	1120	1050	990	1020	880	510	380	910	1510	1300
18	1480	1350	1170	1070	1070	1020	850	520	380	940	1460	1330
19	1480	1450	1110	1210	1000	1040	---	510	390	960	---	1310
20	1580	---	1250	1200	960	1010	810	495	390	990	1360	1320
21	1600	1420	1200	1200	1110	1010	770	475	400	1020	1300	1390
22	---	1360	1160	1080	1070	1030	640	460	420	1040	1580	1380
23	1570	1370	1100	1050	1130	1020	620	435	430	1080	1450	---
24	1510	1370	1130	1040	1060	---	550	390	430	1110	1500	1360
25	1480	1430	---	1070	1130	970	550	375	440	1420	1510	1360
26	1420	1400	1120	1060	1080	970	560	390	440	1180	1730	---
27	1410	1550	1060	---	1100	1010	540	400	450	1230	1630	1330
28	1400	1430	1060	---	1110	1020	---	410	450	1240	1420	1360
29	---	1410	1050	1070	1130	1040	510	400	460	1270	1500	---
30	---	1400	1060	1110	---	1030	510	400	490	1220	1270	---
31	1410	---	1040	1070	---	1000	---	400	---	1230	1270	---
MEAN	1420	1360	1170	1090	1070	---	853	467	401	890	1420	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0	8.0	1.0	3.0	6.0	8.0	8.0	12.0	12.0	19.0	25.0	21.0
2	20.0	8.0	1.0	2.0	6.0	8.0	8.0	12.0	12.0	19.0	25.0	---
3	---	7.0	1.0	3.0	6.0	---	8.0	12.0	12.0	20.0	25.0	21.0
4	17.0	6.0	1.0	3.0	6.0	---	8.0	12.0	14.0	20.0	25.0	21.0
5	17.0	6.0	1.0	3.0	6.0	---	8.0	---	14.0	20.0	24.0	21.0
6	17.0	6.0	---	3.0	6.0	---	8.0	11.0	14.0	20.0	24.0	---
7	17.0	6.5	1.0	3.0	6.0	---	8.0	---	14.0	20.0	24.0	21.0
8	17.0	6.0	1.0	7.0	5.0	---	8.0	12.0	14.0	19.0	24.0	21.0
9	17.0	6.0	1.0	3.0	5.0	---	10.0	12.0	14.0	21.0	24.0	20.0
10	17.0	6.0	2.0	5.0	5.0	---	10.0	12.0	14.0	20.0	24.0	20.0
11	16.0	6.0	2.0	5.0	5.0	---	10.0	12.0	14.0	21.0	24.0	20.0
12	16.0	6.0	2.0	5.0	5.0	---	10.0	10.0	15.0	21.0	---	20.0
13	16.0	6.0	2.0	6.0	5.0	---	10.0	10.0	14.0	20.0	24.0	20.0
14	16.0	6.0	1.0	6.0	6.0	8.0	10.0	10.0	14.0	21.0	24.0	20.0
15	16.0	6.0	1.0	6.0	6.0	8.0	10.0	10.0	14.0	20.0	24.0	20.0
16	15.0	5.0	1.0	7.0	7.0	8.0	10.0	10.0	15.0	21.0	24.0	20.0
17	15.0	5.0	1.0	7.0	7.0	8.0	12.0	11.0	15.0	21.0	24.0	20.0
18	14.0	5.0	.0	7.0	7.0	8.0	14.0	12.0	15.0	22.0	23.0	20.0
19	14.0	5.0	1.0	7.0	7.0	9.0	---	11.0	16.0	22.0	---	20.0
20	14.0	---	2.0	7.0	7.0	9.0	14.0	12.0	16.0	22.0	23.0	20.0
21	12.5	5.0	2.0	8.0	7.0	9.0	14.0	12.0	16.0	24.0	23.0	20.0
22	---	5.0	2.0	5.0	7.0	8.0	14.0	12.0	16.0	24.0	23.0	20.0
23	15.0	5.0	2.0	5.0	7.0	8.0	14.0	11.0	16.0	25.0	23.0	---
24	10.0	4.0	2.0	5.0	8.0	---	12.0	11.0	16.0	25.0	22.0	20.0
25	10.0	4.0	---	5.0	8.0	8.0	12.0	11.0	17.0	24.0	23.0	20.0
26	10.0	4.0	2.0	5.0	8.0	8.0	12.0	11.0	17.0	25.0	22.0	---
27	10.0	2.0	3.0	---	8.0	8.0	12.0	10.0	18.0	24.0	21.0	20.0
28	10.0	2.0	3.0	---	8.0	8.0	---	10.0	18.0	24.0	21.0	20.0
29	---	1.0	3.0	5.0	8.0	8.0	12.0	10.0	19.0	24.0	21.0	20.0
30	---	1.0	3.0	5.0	---	8.0	12.0	11.0	19.0	24.0	21.0	---
31	8.0	---	3.0	---	---	8.0	---	12.0	---	25.0	21.0	---
MEAN	14.5	5.0	1.5	5.0	6.5	---	10.5	11.0	15.0	22.0	23.5	20.0

WTR YR 1980 MEAN 12.0 MAX 25.0 MIN .0

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	85	861	105	1080	43	395	13	140	130	1400	515	5920
2	83	840	115	1250	52	491	15	155	136	1430	520	6190
3	84	839	115	1270	78	783	18	201	146	1620	465	5220
4	87	864	120	1330	88	1080	19	218	186	2160	470	5270
5	98	958	100	975	85	1060	20	229	228	2650	470	5360
6	101	908	89	867	94	1170	18	203	199	2270	475	5510
7	143	1440	90	882	108	1390	20	221	161	1800	525	6320
8	120	1210	90	892	84	1040	29	326	172	1930	510	6430
9	112	1120	125	1390	61	741	50	570	133	1470	520	6570
10	105	1040	149	1840	50	599	79	904	45	470	475	5780
11	100	1020	119	1460	40	451	92	1130	22	226	450	5390
12	84	785	87	1070	40	471	56	671	20	204	450	5490
13	71	633	80	1010	33	371	48	550	20	206	440	5230
14	86	785	80	978	29	313	130	1570	31	335	430	5020
15	131	1280	65	653	28	287	620	8490	180	2150	420	4880
16	125	1270	66	617	25	256	640	8760	550	7620	400	4670
17	121	1250	71	652	28	299	465	6030	1820	24800	375	4410
18	100	899	89	836	30	336	210	2350	1070	13800	340	3970
19	89	740	77	746	32	363	132	1430	1120	16300	240	2750
20	90	756	55	570	33	365	121	1360	2890	49600	190	2180
21	104	910	25	255	28	302	64	726	3750	59800	375	4360
22	147	1440	30	296	28	318	60	672	2760	38800	290	3430
23	105	1130	35	333	20	233	27	299	1080	14100	310	3930
24	190	2070	31	281	30	353	23	248	610	7820	270	3410
25	178	1870	29	258	40	469	20	210	440	5300	310	4010
26	172	1750	41	374	30	345	55	595	370	4270	400	5160
27	188	2100	67	660	31	353	96	1080	390	4410	340	4430
28	176	1880	54	525	27	315	108	1250	440	5040	385	4680
29	158	1630	40	346	26	303	108	1270	510	5880	475	5720
30	147	1520	54	488	24	276	119	1400	---	---	270	3080
31	121	1250	---	---	18	202	120	1390	---	---	160	1990
TOTAL	---	37048	---	24184	---	15730	---	44648	---	277861	---	146760

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	145	1820	1710	109000	975	77400	550	22700	180	1650	235	2310
2	110	1360	1930	122000	860	67600	590	25800	200	1810	225	2210
3	140	1690	1900	107000	820	56000	600	26100	210	1870	200	1800
4	220	2690	1720	94700	850	58500	620	26600	210	1840	200	1580
5	200	2400	1640	93900	900	63200	520	20500	210	1780	180	1370
6	245	2880	1820	112000	1040	81400	395	14200	205	1680	150	1180
7	300	3580	2400	158000	4040	337000	390	12700	185	1590	160	1260
8	265	3210	3000	230000	870	71200	380	11500	165	1420	300	2450
9	200	2410	2620	213000	740	58700	325	9390	160	1310	475	3780
10	160	1910	2170	174000	750	62000	320	8900	155	1180	1900	17200
11	240	2850	1930	142000	915	81300	330	8240	145	1110	2550	25900
12	320	3850	1980	152000	1100	106000	275	6370	160	1200	1220	13900
13	345	4410	2660	209000	925	90900	240	5230	200	1430	500	5700
14	325	4210	2210	153000	745	71200	355	8200	175	1270	450	5100
15	280	3550	2200	138000	680	61500	470	10500	95	744	355	4010
16	640	9330	1540	92300	630	52200	280	5670	55	477	360	3960
17	1240	22100	1470	92500	600	45200	205	3810	70	652	350	3790
18	2050	42300	2100	148000	620	43900	220	3770	80	771	350	3660
19	2090	50700	1840	122000	645	44600	220	3510	75	688	320	3210
20	2320	67700	1280	84300	670	46700	160	2380	170	1440	278	2570
21	2850	104000	1370	95800	675	44100	170	2430	220	1750	270	2450
22	3000	129000	2000	156000	675	41600	195	2650	220	1690	257	2300
23	3150	156000	2260	207000	635	37400	195	2390	195	1430	205	1850
24	3210	168000	1810	185000	550	31200	180	2040	1010	8560	128	1140
25	2900	148000	1600	166000	540	29500	3300	36700	910	8450	100	913
26	1400	61200	1500	134000	560	29500	1540	16700	890	10200	106	973
27	1810	86000	1320	104000	600	30600	240	2690	880	10600	97	859
28	1910	94400	1280	92300	525	26100	180	1970	820	9870	90	792
29	2390	123000	1050	74600	500	23800	190	1940	570	6490	80	674
30	2200	123000	1100	81100	550	23500	175	1710	370	3900	68	569
31	---	---	1080	80500	---	---	170	1570	280	2810	---	---
TOTAL	---	1427550	---	4123000	---	1893800	---	308860	---	91662	---	119460

TOTAL LOAD FOR YEAR: 8510563 TONS.

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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
NOV							
15...	1030	3700	4.0	86	40	400	--
JAN							
23...	1430	4100	3.0	67	25	277	--
FEB							
19...	1310	5300	6.0	--	798	11400	62
MAR							
20...	1515	4260	7.5	--	158	1820	49
APR							
24...	1330	20000	9.0	62	2620	141000	--
28...	1420	18100	12.5	--	1600	78200	31
MAY							
19...	1430	24500	12.5	76	1560	103000	--
19...	1500	24500	12.5	--	1560	103000	22
JUN							
23...	1255	22000	16.5	--	444	26400	11
23...	1400	22000	17.0	40	632	37500	--
JUL							
29...	1130	3910	24.0	84	201	2120	--
AUG							
18...	1400	3500	22.5	96	120	1130	--
SEP							
15...	1500	4190	19.0	97	259	2930	--

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
NOV						
15...	--	--	--	--	--	--
JAN						
23...	--	--	--	--	--	--
FEB						
19...	70	87	98	99	100	--
MAR						
20...	57	74	96	98	99	100
APR						
24...	--	--	--	--	--	--
28...	35	45	76	90	98	100
MAY						
19...	--	--	--	--	--	--
19...	29	47	74	91	99	100
JUN						
23...	15	23	53	81	98	100
23...	--	--	--	--	--	--
JUL						
29...	--	--	--	--	--	--
AUG						
18...	--	--	--	--	--	--
SEP						
15...	--	--	--	--	--	--

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

LOCATION.--Lat 38°41'49", long 109°15'16", in SE1/4SW1/4, 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 current year.

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

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

EXTREMES FOR PERIOD AUG. 17 TO SEPT. 30, 1979.--Maximum recorded, 1.1 ft^3/s (0.031 m^3/s) Aug. 18, gage height, 1.96 ft (0.597 m); minimum, 0.85 ft^3/s (0.024 m^3/s) Sept. 11.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.1 ft^3/s (0.059 m^3/s) Apr. 29, gage height, 2.20 ft (0.671 m) from floodmarks; minimum, 0.49 ft^3/s (0.014 m^3/s) June 29.

DISCHARGE, STREAM (CUBIC FEET PER SECOND) AUGUST AND SEPTEMBER 1979
MEAN VALUES

Aug.	17	1.0	Aug.	26	1.1	Sept.	4	0.96	Sept. 13	0.92	Sept. 22	0.95
	18	1.1		27	1.0		5	.96	14	.92	23	.94
	19	1.1		28	1.0		6	.95	15	.93	24	.95
	20	1.1		29	1.0		7	.94	16	.94	25	.90
	21	1.1		30	1.0		8	.97	17	.93	26	.91
	22	1.1		31	1.0		9	.97	18	.93	27	.95
	23	1.1	Sept.	1	1.0		10	.93	19	.94	28	.95
	24	1.1		2	.97		11	.92	20	.98	29	.95
	25	1.0		3	.96		12	.91	21	.95	30	.95

MONTH	TOTAL	MEAN	MAX	MIN	AC-FT
Sept.	28.33	0.94	1.0	0.90	56

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.1	1.3	1.2	1.5	1.0	1.2	1.4	1.5	.73	.85	.90
2	1.0	1.1	1.3	1.2	1.5	1.0	1.2	1.3	1.5	.81	.81	.90
3	1.0	1.1	1.3	1.2	1.5	1.0	1.3	1.3	1.5	.77	.77	.90
4	1.0	1.1	1.3	1.2	1.6	1.0	1.3	1.3	1.5	.77	.77	.90
5	1.0	1.1	1.3	1.2	1.6	1.0	1.3	1.3	1.5	.77	.77	.90
6	1.0	1.1	1.3	1.2	1.6	1.1	1.3	1.3	1.5	.77	.77	.95
7	1.0	1.3	1.3	1.2	1.6	1.0	1.2	1.4	1.5	.85	.81	.95
8	1.0	1.4	1.3	1.2	1.5	1.1	1.2	1.6	1.5	.86	.77	1.0
9	1.0	1.4	1.3	1.2	1.5	1.1	1.2	1.5	1.4	.87	.81	1.0
10	1.0	1.4	1.3	1.4	1.5	1.1	1.3	1.5	1.4	.87	.81	1.1
11	1.0	1.4	1.3	1.3	1.5	1.0	1.2	1.6	1.4	.86	.81	.99
12	1.0	1.4	1.2	1.3	1.5	1.1	1.2	1.6	1.4	.87	.82	.99
13	1.0	1.4	1.2	1.3	1.5	1.1	1.2	1.6	1.4	.90	.83	.97
14	1.0	1.4	1.3	1.5	1.6	1.1	1.2	1.5	1.4	.89	.87	.98
15	1.0	1.4	1.2	1.4	1.4	1.0	1.2	1.5	1.4	.89	.84	.97
16	1.0	1.4	1.2	1.4	1.4	1.1	1.3	1.5	1.4	.91	.81	1.0
17	1.0	1.4	1.2	1.4	1.4	1.0	1.3	1.5	1.4	.89	.81	1.0
18	1.1	1.4	1.2	1.6	1.5	1.0	1.3	1.4	1.4	.91	.81	1.0
19	1.1	1.4	1.2	1.6	1.2	1.0	1.3	1.4	1.2	.90	.81	1.0
20	1.2	1.5	1.2	1.5	1.2	1.0	1.2	1.4	1.0	.95	.81	1.0
21	1.0	1.4	1.2	1.5	1.2	1.0	1.2	1.4	.85	1.0	.81	1.0
22	1.0	1.4	1.3	1.6	1.1	1.1	1.2	1.4	.85	1.0	.81	1.0
23	1.0	1.4	1.3	1.5	1.1	1.1	1.2	1.4	.77	1.0	.85	1.0
24	1.0	1.4	1.3	1.5	1.0	1.1	1.2	1.4	.73	1.0	.95	1.0
25	1.1	1.4	1.2	1.5	1.1	1.2	1.2	1.4	.65	1.0	.90	1.1
26	1.1	1.4	1.2	1.5	1.1	1.2	1.2	1.4	.61	1.0	.90	1.1
27	1.1	1.4	1.2	1.5	1.0	1.2	1.3	1.4	.58	.95	.90	1.1
28	1.1	1.4	1.2	1.5	1.0	1.3	1.4	1.4	.58	.90	.85	1.2
29	1.2	1.3	1.2	1.5	1.0	1.3	1.8	1.4	.58	.90	.90	1.2
30	1.1	1.3	1.2	1.6	---	1.2	1.5	1.4	.58	.90	.85	1.2
31	1.1	---	1.2	1.5	---	1.2	---	1.4	---	.85	.90	---
TOTAL	32.2	40.0	38.7	43.2	39.2	33.7	38.1	44.3	34.98	27.54	25.78	30.30
MEAN	1.04	1.33	1.25	1.39	1.35	1.09	1.27	1.43	1.17	.89	.83	1.01
MAX	1.2	1.5	1.3	1.6	1.6	1.3	1.8	1.6	1.5	1.0	.95	1.2
MIN	1.0	1.1	1.2	1.2	1.0	1.0	1.2	1.3	.58	.73	.77	.90
AC-FT	64	79	77	86	78	67	76	88	69	55	51	60

WTR YR 1980 TOTAL 428.00 MEAN 1.17 MAX 1.8 MIN .58 AC-FT 849

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February to September 1980.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
FEB												
06...	1420	1.6	1100	8.2	8.0	8.0	440	210	110	41	79	28
MAR												
26...	1310	1.4	1150	8.2	5.5	10.5	440	250	110	41	70	25
MAY												
14...	1015	1.5	1190	8.3	14.5	12.5	510	300	130	46	73	23
JUL												
02...	1120	.97	1050	8.1	25.5	20.0	410	200	110	33	69	26
AUG												
05...	1140	.81	1090	8.0	32.5	22.5	400	210	98	38	64	26
SEP												
18...	1130	1.0	1080	8.0	22.0	22.0	430	210	100	44	70	26

DATE	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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)
FEB											
06...	1.6	84	4.9	230	290	84	.3	17	772	1.05	3.42
MAR											
26...	1.4	--	5.7	190	280	85	.3	16	728	.99	2.65
MAY											
14...	1.4	--	5.6	210	310	100	.3	19	816	1.11	3.39
JUL											
02...	1.5	--	5.6	210	260	76	.0	18	704	.96	1.84
AUG											
05...	1.4	--	4.6	190	240	68	.4	17	652	.89	1.34
SEP											
18...	1.5	--	4.4	220	220	73	.4	13	664	.90	1.79

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
FEB		
06...	1.6	.030
MAR		
26...	1.3	.020
MAY		
14...	1.3	.010
JUL		
02...	1.3	.020
AUG		
05...	1.8	.010
SEP		
18...	1.5	.050

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

LOCATION.--Lat 38°42'23", long 109°18'52", in NE1/4NE1/4, 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 current year.

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

REMARKS.--Records good except for winter period, which are poor. There is no upstream storage or diversion.

EXTREMES FOR PERIOD AUG. 16 TO SEPT. 30, 1979.--Maximum recorded, 290 ft^3/s (8.21 m^3/s) Aug. 16, gage height, 3.00 ft (0.914 m) as observed; minimum, 0.48 ft^3/s (0.014 m^3/s) many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 84 ft^3/s (2.38 m^3/s) April 2, gage height, 2.54 ft (0.774 m) from floodmarks; no flow for part of several days.

DISCHARGE, STREAM (CUBIC FEET PER SECOND), AUGUST AND SEPTEMBER 1979
MEAN VALUES

Aug. 16	4.4	Aug. 26	0.79	Sept. 5	0.62	Sept. 15	0.60	Sept. 25	0.62
17	8.0	27	.79	6	.62	16	.60	26	.79
18	7.2	28	.62	7	.79	17	.59	27	.79
19	4.3	29	.62	8	.79	18	.62	28	.79
20	1.5	30	.79	9	.79	19	.63	29	.79
21	.62	31	.62	10	.80	20	.62	30	.79
22	.62	Sept. 1	.62	11	.80	21	.62		
23	.62	2	.62	12	.81	22	.62		
24	.62	3	.62	13	.77	23	.62		
25	.79	4	.62	14	.77	24	.62		

MONTH	TOTAL	MEAN	MAX	MIN	AC-FT
Sept.	20.75	.69	.81	.59	41

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.79	.81	.98	1.0	1.5	2.3	8.0	1.9	2.1	.95	.42	.59
2	.79	.85	.98	1.0	1.5	2.3	16	1.7	2.1	.74	.41	.60
3	.79	.96	.98	1.0	1.6	2.3	12	1.6	2.0	.67	.40	.61
4	.79	.96	.98	1.0	1.6	2.3	8.0	.62	1.8	.74	.40	.60
5	.79	.96	.98	1.0	1.6	2.3	7.0	.96	1.5	.71	.41	.64
6	.79	.96	.98	1.0	1.7	5.2	6.8	.37	1.5	.63	.42	.66
7	.79	1.1	.98	1.0	1.8	15	2.1	1.0	1.3	.89	.41	.95
8	.79	1.0	.98	1.0	1.9	13	2.9	2.3	1.3	1.1	.40	1.0
9	.79	.99	.98	1.0	1.8	7.4	1.3	2.0	1.3	.76	.41	1.0
10	.79	1.1	.98	1.3	1.9	4.3	.62	1.7	1.3	.75	.41	1.3
11	.79	1.1	.98	1.2	1.9	4.6	.62	2.1	1.3	.77	.40	1.1
12	.79	1.1	.95	1.2	1.7	18	.62	1.2	1.3	.80	.42	1.0
13	.79	1.1	.95	1.2	1.8	13	.79	1.2	1.1	.90	.44	1.0
14	.79	1.1	1.0	1.4	2.3	16	.62	1.9	1.1	.85	.44	.98
15	.79	1.2	1.0	1.3	3.1	17	.62	7.6	1.3	.69	.56	.97
16	.79	1.2	1.0	1.3	3.6	17	.62	5.5	1.3	.60	.41	1.0
17	.79	1.2	1.0	1.3	4.0	16	.62	2.1	1.3	.64	.42	1.0
18	.95	1.2	1.0	1.5	3.8	16	.62	2.1	1.3	.57	.43	1.0
19	.79	1.2	1.0	1.5	4.5	16	.48	2.3	1.3	.54	.42	.85
20	1.2	1.0	1.0	1.4	5.9	18	.62	2.2	1.1	.52	.44	.75
21	1.0	1.0	1.0	1.4	6.9	17	.79	2.1	1.1	.52	.46	.62
22	.90	1.0	1.1	1.5	9.3	18	.62	2.0	1.1	.51	.48	.62
23	.79	1.0	1.1	1.4	6.8	14	.96	2.0	1.1	.42	.51	.79
24	.79	1.0	1.1	1.4	5.6	15	.79	2.0	1.1	.45	1.1	.96
25	.85	1.0	1.0	1.4	5.4	8.0	.62	2.3	1.1	.45	.75	.96
26	.72	1.0	1.0	1.4	4.6	6.0	.62	2.0	.96	.46	.65	.96
27	.62	1.0	1.0	1.4	3.9	5.0	1.1	2.1	.96	.46	.63	.96
28	.62	1.0	1.0	1.4	2.9	5.9	3.1	2.1	.96	.45	.60	.96
29	.73	.98	1.0	1.4	2.3	4.8	5.0	2.0	.96	.39	.57	.79
30	.87	.98	1.0	1.5	---	14	7.0	2.1	.96	.44	.58	.79
31	.81	---	1.0	1.5	---	19	---	2.0	---	.42	.59	---
TOTAL	25.07	31.05	30.98	39.3	97.2	334.7	91.55	65.05	38.90	19.79	15.39	26.01
MEAN	.81	1.04	1.00	1.27	3.35	10.8	3.05	2.10	1.30	.64	.50	.87
MAX	1.2	1.2	1.1	1.5	9.3	19	16	7.6	2.1	1.1	1.1	1.3
MIN	.62	.81	.95	1.0	1.5	2.3	.48	.37	.96	.39	.40	.59
AC-FT	50	62	61	78	193	664	182	129	77	39	31	52

WTR YR 1980 TOTAL 814.99 MEAN 2.23 MAX 19 MIN .37 AC-FT 1620

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February to September 1980.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
FEB												
06...	1230	1.7	4800	7.4	6.0	4.5	970	790	280	65	770	63
MAR												
26...	1430	5.6	2430	8.6	5.5	12.0	400	180	120	25	390	7
MAY												
14...	1100	1.9	4910	8.1	17.0	14.0	930	780	270	62	750	63
JUL												
02...	1230	.81	4500	8.1	29.0	27.0	900	760	250	66	720	63
AUG												
05...	1300	.48	4460	8.0	31.5	25.0	770	650	210	59	660	65
SEP												
18...	1310	1.1	3400	8.0	28.0	17.0	720	570	200	54	450	57

DATE	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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)
FEB											
06...	11	790	19	180	790	1200	.3	19	3260	4.43	15.0
MAR											
26...	8.5	--	11	220	430	470	.4	1.1	1600	2.18	2.41
MAY											
14...	11	--	19	150	780	1200	.5	18	3190	4.34	16.0
JUL											
02...	10	--	19	140	710	1100	.1	17	2970	4.04	6.50
AUG											
05...	10	--	5.1	120	720	980	.4	11	2720	3.70	3.53
SEP											
18...	7.3	--	8.0	150	560	690	.3	12	2070	2.82	6.26

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
FEB		
06...	1.1	.010
MAR		
26...	1.2	.020
MAY		
14...	.91	.060
JUL		
02...	.88	.020
AUG		
05...	.91	.010
SEP		
18...	.98	.030

09183000 COURTHOUSE WASH NEAR MOAB, UTAH

LOCATION.--Lat 38°36'46", long 109°34'45", in NE1/4SE1/4 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 for winter period of no gage-height record, Nov. 29 to Jan. 8, Mar. 24 to Apr. 1, Apr. 4 to July 3, July 16 to Aug. 14, which are poor. No regulation or diversions above station.

AVERAGE DISCHARGE.--20 years (1949-55, 1967-80), 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, 7,430 ft^3/s (210 m^3/s) Sept. 7, gage-height, 7.00 ft (2.134 m), 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 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	.12	.11	.15	.18	.36	1.2	.45	.12	.01	.05	.08
2	.10	.13	.12	.15	.18	.43	11	.44	.12	.01	.06	.08
3	.09	.15	.13	.15	.18	.45	2.8	.42	.11	.01	.06	.08
4	.10	.14	.12	.15	.18	.40	.90	.37	.09	.02	.05	.08
5	.10	.15	.13	.14	.18	.40	.45	.30	.09	.02	.03	.09
6	.10	.15	.13	.12	.18	2.1	.55	.29	.08	.02	.03	.09
7	.11	.16	.13	.11	.18	19	.43	.38	.10	.04	.03	82
8	.11	.15	.13	.13	.23	3.7	.38	.32	.09	.06	.03	6.0
9	.11	.15	.13	.15	.21	1.0	.40	.30	.08	.06	.02	.99
10	.11	.15	.13	.17	.27	.77	.43	.28	.08	.06	.02	42
11	.11	.15	.14	.18	.36	1.0	.40	.30	.06	.06	.03	8.8
12	.11	.15	.10	.18	.37	3.7	.38	.29	.06	.07	.03	3.4
13	.12	.15	.09	.17	.40	.90	.35	.28	.07	12	.03	.97
14	.12	.15	.07	.18	1.3	.67	.36	.28	.06	1.9	.14	.50
15	.12	.15	.07	.18	1.2	.58	.38	.27	.05	.11	.07	.20
16	.12	.15	.06	.18	1.6	.46	.40	.27	.05	.08	.04	.15
17	.12	.15	.05	.18	.67	.27	.39	.40	.05	.08	.04	.14
18	.12	.15	.04	.18	1.9	.52	.40	.32	.04	.08	.04	.14
19	.11	.20	.04	.18	7.9	.53	.42	.28	.04	.07	.03	.14
20	.14	.18	.04	.18	19	.38	.44	.28	.05	.07	.03	.14
21	.12	.15	.04	.18	3.8	.43	.46	.27	.05	.07	.04	.14
22	.12	.15	.05	.18	4.4	36	1.1	.26	.04	.06	.05	.14
23	.12	.15	.07	.18	.88	39	.75	.26	.04	.06	.04	.14
24	.12	.15	.08	.18	.51	1.0	.50	.25	.03	.09	.56	.14
25	.12	.15	.07	.18	.49	6.6	.45	.23	.03	.07	4.9	.14
26	.13	.15	.10	.18	.50	1.4	.46	.21	.02	.07	.94	.14
27	.12	.15	.13	.18	.52	.80	.42	.19	.02	.06	.22	.14
28	.13	.15	.13	.18	.54	76	.40	.19	.01	.06	.09	.14
29	.13	.12	.10	.18	.47	5.4	.44	.18	.01	.05	.08	.13
30	.12	.11	.14	.18	---	1.6	1.3	.16	.02	.05	.08	.13
31	.12	---	.12	.18	---	1.6	---	.14	---	.06	.08	---
TOTAL	3.56	4.46	2.99	5.19	48.78	207.45	28.74	8.86	1.76	15.53	7.94	147.45
MEAN	.11	.15	.096	.17	1.68	6.69	.96	.29	.059	.50	.26	4.92
MAX	.14	.20	.14	.18	19	76	11	.45	.12	12	4.9	82
MIN	.09	.11	.04	.11	.18	.27	.35	.14	.01	.01	.02	.08
AC-FT	7.1	8.8	5.9	10	97	411	57	18	3.5	31	16	292

CAL YR 1979 TOTAL 232.25 MEAN .64 MAX 41 MIN .03 AC-FT 461
WTR YR 1980 TOTAL 482.71 MEAN 1.32 MAX 82 MIN .01 AC-FT 957

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 km) upstream from mouth of Mill Creek.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (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)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT											
10...	1000	E3500	1300	8.4	13.5	15.0	--	--	--	--	--
NOV											
15...	1500	E3700	1250	8.7	7.5	6.0	12.9	K7	360	190	93
30...	0930	E3640	1400	8.0	.0	.0	--	--	--	--	--
DEC											
06...	1045	E3600	1300	8.4	4.5	.0	--	--	--	--	--
17...	1750	E4200	1230	8.6	-2.0	.5	--	K2	340	180	87
JAN											
22...	--	E4300	1200	8.4	3.5	3.0	11.6	K22	390	230	95
FEB											
22...	1030	E5900	1090	8.1	7.5	5.5	11.5	K80	340	120	79
MAR											
18...	1400	E4500	1030	8.1	15.0	7.5	9.6	K9	290	140	72
APR											
22...	1500	E20000	520	7.5	25.0	11.5	8.3	--	180	41	48
MAY											
21...	1030	E25000	500	8.0	20.5	14.0	8.7	--	160	21	42
JUN											
25...	1000	E21500	410	7.6	28.5	17.0	8.6	640	140	50	39
JUL											
30...	1100	E3900	1240	8.0	31.0	24.0	7.2	K9	390	230	100
AUG											
21...	1430	E3300	1460	8.1	29.0	21.0	9.5	--	440	280	110
SEP											
17...	0930	E4100	1380	8.0	17.0	18.0	8.4	230	470	280	120

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT											
10...	--	--	--	--	--	--	--	--	--	--	--
NOV											
15...	32	120	52	2.7	130	5.9	180	13	170	.7	310
30...	--	--	--	--	--	--	--	--	--	--	--
DEC											
06...	--	--	--	--	--	--	--	--	--	--	--
17...	30	120	43	2.8	130	5.0	180	10	160	.8	250
JAN											
22...	36	140	44	3.1	150	5.6	190	6	165	1.3	290
FEB											
22...	35	130	45	3.1	140	5.6	260	6	223	3.5	300
MAR											
18...	27	110	45	2.8	--	4.7	180	0	148	2.3	250
APR											
22...	14	42	33	1.4	--	3.5	170	0	143	8.6	130
MAY											
21...	14	31	29	1.1	--	2.1	170	0	139	2.7	96
JUN											
25...	11	28	30	1.0	--	1.9	110	0	90	4.4	86
JUL											
30...	34	130	42	2.9	--	5.5	190	0	156	3.0	330
AUG											
21...	40	150	42	3.1	--	7.5	190	0	156	2.4	410
SEP											
17...	41	120	35	2.4	--	5.8	230	0	189	3.7	450

E Estimated values
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 1979 TO SEPTEMBER 1980

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	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)
OCT											
10...	--	--	994	1.35	9390	--	--	--	--	--	--
NOV											
15...	120	--	--	--	--	4	.71	.040	.05	.52	.56
30...	--	--	1050	E1.43	E10300	--	--	--	--	--	--
DEC											
06...	--	--	822	E1.12	E7990	--	--	--	--	--	--
17...	140	--	--	--	--	3	.66	.100	.12	.46	.56
JAN											
22...	140	--	--	--	--	41	.65	.080	.10	.47	.55
FEB											
22...	110	--	--	--	--	2490	.75	.320	.39	2.7	3.0
MAR											
18...	120	--	--	--	--	218	.58	.330	.40	.37	.70
APR											
22...	38	--	--	--	--	1630	.47	.360	.44	2.8	3.2
MAY											
21...	21	--	--	--	--	622	.33	.010	.01	2.6	2.6
JUN											
25...	25	--	--	--	--	135	.15	.000	.00	.32	.32
JUL											
30...	140	.1	--	--	--	42	.58	.010	.01	1.2	1.2
AUG											
21...	170	--	--	--	--	0	1.1	.060	.07	1.6	1.7
SEP											
17...	120	--	--	--	--	111	1.0	.020	.02	1.2	1.2

DATE	TIME	COBALT, DISSOLVED (UG/L AS CO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
NOV					
15...	1500	--	0	0	10
DEC					
17...	1750	--	100	1	20
JAN					
22...	1355	--	100	0	20
FEB					
22...	1030	259	100	0	170
MAR					
18...	1400	--	0	0	30
APR					
22...	1500	204	100	1	260
MAY					
21...	1030	166	10	0	100
JUN					
25...	1000	114	0	0	70
JUL					
30...	1100	186	0	0	20
AUG					
21...	1430	192	0	0	120
SEP					
17...	0930	230	0	0	50

DATE	TIME	CYANIDE TOTAL (MG/L AS CN)
NOV		
15...	1500	.00
DEC		
17...	1750	.00
JAN		
22...	--	.00
FEB		
22...	1030	.00
MAR		
18...	1400	.00
APR		
22...	1500	.00
MAY		
21...	1030	.00
JUN		
25...	1000	.00
JUL		
30...	1100	.00
AUG		
21...	1430	.01
SEP		
17...	0930	.00

E Estimated values.

09184000 MILL CREEK NEAR MOAB, UTAH

LOCATION.--Lat 38°33'44", long 109°30'48", in NW1/4NE1/4 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 except for winter period, which are poor. Small diversions, near headwaters, for irrigation above station.

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).

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)
Apr. 30	1230	283	8.01	3.01	0.917
May 7	2100	316	8.95	3.08	0.939
Sept. 6	1730	*768	21.7	3.97	1.210

Minimum, 2.50 ft^3/s (0.071 m^3/s) Jan. 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	7.1	6.8	9.0	8.0	6.7	8.3	42	57	52	11	12
2	9.0	7.8	7.2	8.8	8.3	6.9	15	37	52	51	11	11
3	9.0	7.9	7.8	8.8	8.6	8.3	10	37	52	47	11	10
4	9.0	8.6	8.0	8.4	8.5	7.7	9.2	45	55	44	10	9.8
5	9.0	8.2	9.0	7.8	7.9	7.2	11	53	60	40	9.6	9.0
6	9.0	8.0	9.0	7.6	8.5	11	13	64	64	37	9.7	35
7	9.0	9.1	9.0	6.7	9.0	11	10	102	64	36	10	14
8	9.0	8.6	9.2	8.4	8.3	8.8	8.0	87	62	40	10	12
9	9.0	8.2	9.0	9.0	6.9	7.8	8.6	63	65	36	8.3	19
10	9.4	7.7	9.0	9.0	7.8	7.7	9.0	53	71	34	8.1	48
11	9.0	7.7	9.1	8.7	8.3	9.3	7.9	81	77	32	8.6	15
12	8.9	7.3	7.0	9.0	8.6	8.9	6.9	57	79	30	7.8	13
13	8.8	7.0	6.5	9.0	8.8	7.3	6.9	43	78	29	7.8	12
14	8.9	6.9	6.4	9.0	9.7	7.5	7.9	49	73	29	8.7	11
15	8.6	6.6	6.5	9.0	8.8	8.5	8.4	47	68	26	9.9	11
16	7.3	6.6	6.6	9.0	12	8.6	10	47	63	24	10	11
17	6.9	6.9	6.6	8.9	8.7	6.5	9.0	107	59	23	10	10
18	6.9	7.2	6.7	9.4	11	6.9	13	61	62	21	8.5	9.5
19	6.5	7.3	6.8	8.9	14	7.6	16	66	66	20	7.9	9.6
20	7.8	8.0	6.9	7.6	16	7.0	23	72	64	19	7.5	9.9
21	8.6	7.4	7.2	6.6	12	8.4	38	81	62	18	7.1	10
22	8.2	6.9	8.3	5.9	10	16	58	91	61	17	7.8	9.7
23	8.1	6.9	7.9	4.7	9.3	9.0	47	96	59	15	8.8	10
24	7.9	6.8	7.8	5.6	8.1	11	34	82	57	15	16	9.5
25	8.1	7.0	7.2	6.9	7.5	21	43	61	54	16	13	8.7
26	8.1	7.2	7.9	7.4	8.6	11	46	50	53	15	12	8.8
27	8.0	6.9	8.1	7.0	8.1	9.5	43	46	54	15	12	8.9
28	8.3	6.7	8.1	6.9	8.2	26	39	45	52	12	12	6.4
29	8.2	6.5	6.9	7.0	6.9	12	52	48	49	12	11	6.0
30	8.1	6.4	8.1	8.7	---	12	61	51	50	11	12	5.4
31	7.5	---	8.7	7.1	---	8.9	---	55	---	11	12	---
TOTAL	259.1	221.4	239.3	245.8	266.4	306.0	672.1	1919	1842	827	309.1	375.2
MEAN	8.36	7.38	7.72	7.93	9.19	9.87	22.4	61.9	61.4	26.7	9.97	12.5
MAX	9.4	9.1	9.2	9.4	16	26	61	107	79	52	16	48
MIN	6.5	6.4	6.4	4.7	6.9	6.5	6.9	37	49	11	7.1	5.4
AC-FT	514	439	475	488	528	607	1330	3810	3650	1640	613	744

CAL YR 1979 TOTAL 5953.1 MEAN 16.3 MAX 77 MIN 5.2 AC-FT 11810
WTR YR 1980 TOTAL 7482.4 MEAN 20.4 MAX 107 MIN 4.7 AC-FT 14840

09185800 INDIAN CREEK TUNNEL NEAR MONTICELLO, UTAH

LOCATION.--Lat 37°50'28", long 109°30'17", in sec.9, T.34 S., R.22 E. (unsurveyed), San Juan County, Hydrologic Unit 14030005, on left bank 200 ft (61 m) downstream from headgate, 500 ft (152 m) upstream from tunnel entrance, and 9.0 mi (14.5 km) southwest of Monticello.

PERIOD OF RECORD.--October 1957 to September 1959, June 1960 to Sept. 1980 (discontinued). Monthly discharge only for some periods, published in WSP 1733.

GAGE.--Water-stage recorder and Cipolletti weir. Altitude of gage is 9,120 ft (2,780 m) from topographic map.

REMARKS.--Records fair except for winter period, which are poor. Water is diverted from Indian Creek to the San Juan River basin for domestic use and irrigation in the vicinity of Blanding.

AVERAGE DISCHARGE.--22 years (1957-59, 1960-80), 1.52 ft^3/s (0.0430 m^3/s), 1,100 acre-ft/yr (1.356 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 21 ft^3/s (0.59 m^3/s) May 21, 22, 1980; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 21 ft^3/s (0.59 m^3/s) May 21, 22; minimum, 0.12 ft^3/s (0.0034 m^3/s) Mar. 17, 14-26, 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	.50	.36	.21	.20	.20	.13	12	15	15	1.5	.87
2	.40	.40	.37	.23	.21	.22	.13	11	13	14	1.4	.87
3	.40	.40	.39	.21	.23	.20	.15	11	13	13	1.4	.87
4	.40	.40	.39	.23	.23	.19	.20	13	15	11	1.4	.82
5	.40	.40	.39	.23	.24	.17	.30	14	16	11	1.3	.77
6	.40	.40	.39	.24	.23	.18	.38	15	17	9.6	1.3	.77
7	.40	.40	.42	.25	.21	.15	.37	17	16	9.0	1.2	.77
8	.40	.40	.43	.25	.21	.15	.37	17	14	8.6	1.3	.74
9	.40	.40	.44	.21	.19	.16	.49	17	12	8.2	1.2	.74
10	.40	.37	.40	.23	.20	.17	.58	15	15	8.0	1.2	.74
11	.40	.45	.33	.22	.20	.16	.55	14	15	7.6	1.1	.68
12	.38	.46	.28	.22	.21	.15	.55	12	13	7.2	1.1	.68
13	.36	.48	.30	.24	.23	.16	.65	11	12	6.7	1.1	.68
14	.36	.51	.33	.25	.22	.18	1.0	11	12	5.9	1.1	.65
15	.36	.51	.39	.23	.24	.17	1.1	11	12	5.2	1.2	.65
16	.36	.52	.40	.25	.24	.15	1.1	11	12	4.3	.91	.65
17	.36	.51	.40	.23	.23	.12	1.3	13	12	3.8	1.1	.65
18	.36	.50	.38	.23	.25	.13	1.5	15	12	3.4	1.1	.60
19	.36	.45	.40	.23	.25	.13	1.9	18	13	3.2	1.0	.60
20	.52	.40	.37	.20	.23	.13	3.2	20	12	2.6	1.1	.60
21	.40	.37	.33	.20	.20	.14	3.5	21	14	2.6	1.0	.55
22	.37	.37	.33	.19	.21	.14	4.5	21	15	2.3	1.0	.55
23	.46	.37	.30	.20	.21	.13	5.5	19	15	2.0	1.0	.55
24	.49	.39	.28	.20	.20	.12	6.5	19	13	2.0	1.0	.55
25	.49	.36	.30	.20	.20	.12	8.0	18	10	2.0	.96	.50
26	.49	.43	.28	.22	.22	.12	8.6	13	8.8	1.9	.91	.50
27	.46	.41	.27	.22	.23	.14	9.8	9.4	8.8	1.7	.91	.50
28	.45	.37	.25	.21	.22	.14	10	11	8.9	1.6	.91	.45
29	.61	.36	.24	.21	.20	.13	13	13	9.9	1.6	.87	.45
30	.52	.36	.21	.22	---	.13	12	14	13	1.6	.87	.45
31	.45	---	.20	.20	---	.12	---	15	---	1.5	.82	---
TOTAL	13.01	12.65	10.55	6.86	6.34	4.70	97.35	451.4	387.4	178.1	34.26	19.45
MEAN	.42	.42	.34	.22	.22	.15	3.25	14.6	12.9	5.75	1.11	.65
MAX	.61	.52	.44	.25	.25	.22	13	21	17	15	1.5	.87
MIN	.36	.36	.20	.19	.19	.12	.13	9.4	8.8	1.5	.82	.45
AC-FT	26	25	21	14	13	9.3	193	895	768	353	68	39

CAL YR 1979 TOTAL 535.70 MEAN 1.47 MAX 18 MIN .00 AC-FT 1060
WTR YR 1980 TOTAL 1222.07 MEAN 3.34 MAX 21 MIN .12 AC-FT 2420

09217000 GREEN RIVER NEAR GREEN RIVER, WY

LOCATION.--Lat 41°30'59", long 109°26'54", in NW1/4NE1/4NE1/4 sec.26, T.18 N., R.107 W., Sweetwater County, Hydrologic Unit 14040106, on right bank 0.1 mi (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-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 sta 09211150.) Natural flow of stream affected by transbasin diversions, storage reservoirs, power development, and diversions for irrigation of about 223,000 acres (902 km^2) above station.

AVERAGE DISCHARGE.--29 years, 1,708 ft^3/s (48.37 m^3/s), 1,237,000 acre-ft/yr (1,525 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, 7,360 ft^3/s (208 m^3/s) Apr. 25, gage height, 5.29 ft (1.612 m); minimum daily, 518 ft^3/s (14.7 m^3/s) Sept. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	556	758	970	970	660	670	1720	2120	5330	6010	1900	1650
2	702	744	910	980	670	680	1720	2100	5310	5760	1830	1640
3	709	744	970	1000	680	660	1690	2020	5280	5620	1750	1390
4	737	744	940	1050	670	650	1710	1950	5280	5760	1710	1240
5	730	751	900	1100	650	650	1780	1930	5280	6140	1620	1240
6	716	751	900	1000	630	640	2070	1970	5260	6390	1590	1250
7	723	730	900	940	620	660	2070	2070	5280	6210	1560	1240
8	702	744	920	960	610	690	1900	2020	5280	5840	1560	1240
9	730	779	960	940	600	710	1950	2140	5310	5350	1590	1250
10	730	765	980	850	620	680	2050	2160	5020	5020	1590	1290
11	723	772	1000	700	630	700	2000	2290	4260	4650	1560	1330
12	723	758	980	680	660	730	1930	2440	3470	4240	1560	1330
13	723	744	950	670	680	700	1950	2380	2750	3920	1560	1350
14	737	744	980	670	690	750	1900	2210	2600	3670	1560	1350
15	723	744	1000	670	690	800	1930	2180	2580	3450	1580	1330
16	723	744	1010	660	700	700	1950	2160	3230	3290	1630	1330
17	737	744	1060	650	730	680	1800	2230	5000	3140	1660	1290
18	737	744	1080	630	750	730	2030	2250	5760	3010	1660	1260
19	758	740	1100	600	760	720	2310	2250	5860	2870	1620	1260
20	793	720	1100	600	760	720	2980	3030	5910	2790	1630	1120
21	772	700	1100	620	750	850	3560	3420	6040	2680	1570	920
22	786	730	1100	640	730	940	3120	3490	6310	2600	1580	680
23	772	700	1100	600	700	1000	2620	3400	6740	2600	1580	590
24	765	800	1050	580	670	1070	3890	3400	7120	2560	1600	530
25	758	900	1000	600	630	1220	6060	3420	7200	2500	1630	524
26	751	930	1020	620	620	1350	3450	3360	7150	2420	1650	518
27	744	950	1000	570	610	1650	2730	3340	6960	2380	1630	524
28	751	1040	950	530	610	1850	2360	4240	6690	2270	1630	524
29	751	1100	920	560	630	1850	2180	5620	6510	2230	1600	556
30	751	1050	900	590	---	1930	2100	5640	6290	2100	1620	790
31	751	---	920	620	---	1850	---	5500	---	2000	1630	---
TOTAL	22764	23864	30670	22850	19410	29480	71510	88730	161060	119470	50440	32536
MEAN	734	795	989	737	669	951	2384	2862	5369	3854	1627	1085
MAX	793	1100	1100	1100	760	1930	6060	5640	7200	6390	1900	1650
MIN	556	700	900	530	600	640	1690	1930	2580	2000	1560	518
AC-FT	45150	47330	60830	45320	38500	58470	141800	176000	319500	237000	100000	64540

CAL YR 1979 TOTAL 487847 MEAN 1337 MAX 4790 MIN 385 AC-FT 967600
WTR YR 1980 TOTAL 672784 MEAN 1838 MAX 7200 MIN 518 AC-FT 1334000

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Wyoming, 1980."

09217900 BLACKS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 40°57'53", long 110°34'38", in NW1/4SW1/4 sec.27, T.3 N., R.12 E., Summit County, UT, Hydrologic Unit 14140107, on left bank 1 mi (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 mi^2 (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), National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service). 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.--15 years (water years 1938, 1967-80), 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, 2,160 ft^3/s (61.2 m^3/s) June 6, 1968, July 11, 1975; 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.--Peak discharge above base of 1,000 ft^3/s (28.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
June 12	0100	*1,440	40.8	3.24	0.988
June 19	2400	1,160	32.9	2.92	.890

Minimum daily discharge, 15 ft^3/s (0.42 m^3/s) Apr. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	37	23	20	21	21	19	155	456	727	124	57
2	34	36	22	20	22	21	18	161	461	707	119	49
3	33	35	22	20	22	20	17	170	499	637	111	45
4	32	34	22	20	21	19	16	203	625	578	106	43
5	32	33	23	20	21	19	17	250	760	504	101	42
6	32	34	23	18	20	19	16	273	774	466	97	42
7	31	37	22	18	20	18	15	322	668	461	93	43
8	31	40	22	18	19	18	16	340	794	425	91	47
9	31	42	21	19	19	18	16	353	940	420	86	50
10	31	42	21	19	18	17	16	289	1080	410	82	97
11	30	41	20	19	19	18	17	231	1210	391	78	78
12	30	43	21	19	20	18	18	193	1180	367	76	76
13	30	45	21	20	21	19	19	173	1030	353	74	65
14	30	47	20	21	21	20	21	170	948	314	74	60
15	32	45	20	21	21	19	22	189	830	289	86	55
16	32	44	23	22	21	18	25	183	747	277	78	54
17	33	43	21	22	20	19	27	173	858	269	74	50
18	34	41	20	21	20	19	29	180	955	253	67	49
19	41	40	20	21	20	19	34	231	1030	242	64	48
20	51	38	20	21	20	19	40	310	1030	227	67	48
21	42	36	20	20	20	18	46	456	978	217	64	48
22	48	34	20	20	21	17	54	643	917	203	58	46
23	46	35	20	19	22	18	64	844	873	196	60	45
24	42	36	19	19	23	19	73	631	801	186	60	44
25	42	35	20	18	23	20	95	451	794	167	64	43
26	41	32	20	18	22	20	113	381	774	158	80	42
27	31	28	20	17	21	19	118	405	733	150	65	41
28	31	26	20	17	20	19	118	435	613	141	55	41
29	32	24	20	18	21	20	144	440	643	136	51	41
30	34	22	19	19	---	21	158	386	733	133	51	38
31	36	---	19	20	---	20	---	440	---	128	52	---
TOTAL	1089	1105	644	604	599	589	1401	10061	24734	10132	2408	1527
MEAN	35.1	36.8	20.8	19.5	20.7	19.0	46.7	325	824	327	77.7	50.9
MAX	51	47	23	22	23	21	158	844	1210	727	124	97
MIN	30	22	19	17	18	17	15	155	456	128	51	38
AC-FT	2160	2190	1280	1200	1190	1170	2780	19960	49060	20100	4780	3030

CAL YR 1979 TOTAL 37368 MEAN 102 MAX 1370 MIN 13 AC-FT 74120
WTR YR 1980 TOTAL 54893 MEAN 150 MAX 1210 MIN 15 AC-FT 108900

09218500 BLACKS FORK NEAR MILLBURNE, WY

LOCATION.--Lat 41°01'54", long 110°34'43", in NW1/4NE1/4SW1/4 sec.11, T.12 N., R.117 W., Uinta County, WY, 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), National Geodetic Vertical Datum of 1929, Water and Power Resources Service 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.--41 years, 159 ft^3/s (4.503 m^3/s), 115,200 acre-ft/yr (142 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, 941 ft^3/s (26.6 m^3/s) May 24, gage height, 4.32 ft (1.317 m); minimum daily, 10 ft^3/s (0.28 m^3/s) Dec. 13 to Jan. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	17	12	10	11	11	12	12	569	792	325	111
2	58	17	12	10	11	11	12	12	702	783	324	109
3	52	17	12	10	11	11	12	12	765	729	324	107
4	51	17	12	10	11	11	12	12	765	660	321	107
5	47	15	12	10	11	11	12	12	729	652	240	106
6	50	12	12	11	11	11	12	12	702	644	185	104
7	50	12	12	11	11	11	12	12	702	510	185	103
8	50	12	12	11	11	11	12	12	711	375	183	103
9	47	12	12	11	11	11	12	12	720	353	180	110
10	43	12	12	11	11	11	12	12	737	353	180	119
11	44	12	12	11	11	11	12	13	792	353	180	120
12	44	12	11	11	11	12	12	13	821	353	219	118
13	44	12	10	11	11	12	12	13	869	350	243	117
14	44	12	10	11	11	12	12	14	869	350	241	115
15	44	12	10	11	11	12	12	14	869	406	241	115
16	34	12	10	11	11	12	12	14	869	415	234	85
17	22	12	10	11	11	12	12	15	869	366	233	74
18	22	12	10	11	11	12	12	15	830	366	233	83
19	22	12	10	11	11	12	12	15	774	366	195	83
20	22	12	10	11	11	12	12	16	774	366	171	83
21	22	12	10	11	11	12	12	174	783	366	171	80
22	22	12	10	11	11	12	12	501	792	350	171	80
23	22	12	10	11	11	12	12	755	792	340	166	82
24	22	12	10	11	11	12	12	920	733	340	166	83
25	19	12	10	11	11	12	12	920	792	369	165	83
26	17	12	10	11	11	12	12	612	792	367	133	83
27	17	12	10	11	11	12	12	388	792	365	115	83
28	17	12	10	11	11	12	12	356	792	364	114	82
29	17	12	10	11	11	12	12	361	792	343	113	80
30	17	12	10	11	---	12	12	481	792	328	111	82
31	17	---	10	11	---	12	---	569	---	326	111	---
TOTAL	1061	383	333	336	319	361	360	6299	23290	13400	6173	2890
MEAN	34.2	12.8	10.7	10.8	11.0	11.6	12.0	203	776	432	199	96.3
MAX	62	17	12	11	11	12	12	920	869	792	325	120
MIN	17	12	10	10	11	11	12	12	569	326	111	74
AC-FT	2100	760	661	666	633	716	714	12490	46200	26580	12240	5730

CAL YR 1979 TOTAL 43197 MEAN 118 MAX 860 MIN 10 AC-FT 85680
WTR YR 1980 TOTAL 55205 MEAN 151 MAX 920 MIN 10 AC-FT 109500

09220000 EAST FORK OF SMITHS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 41°03'15", long 110°23'52", in NE1/4NW1/4NE1/4 sec.5, T.12 N., R.115 W., Uinta County, Hydrologic Unit 14040107, Wasatch National Forest, on left bank 60 ft (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, is given below:

Oct. 12 . . . 6.8

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.--Peak discharges above base of 300 ft^3/s (8.50 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
June 7	0030	320	9.06	5.31	1.618
June 11	1300	*400	11.3	5.48	1.670

Minimum daily discharge during period of operation, 6.0 ft^3/s (0.170 m^3/s) Sept. 3-6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							8.0	18	91	177	25	6.2
2							8.0	18	89	212	25	6.2
3							8.5	18	87	206	25	6.0
4							8.5	21	85	189	25	6.0
5							8.6	23	84	177	26	6.0
6							9.0	24	152	141	26	6.0
7							9.0	36	186	107	26	6.2
8							9.0	37	106	70	20	6.5
9							7.6	34	279	70	16	12
10							7.3	23	320	66	16	14
11							7.0	21	342	66	16	12
12							6.4	19	274	68	16	12
13							7.0	18	238	71	16	12
14							7.3	16	223	71	16	12
15							7.5	13	209	70	16	12
16							7.8	12	209	70	16	10
17							8.0	12	195	70	16	10
18							9.0	12	183	71	16	9.0
19							10	12	186	65	16	9.0
20							11	16	192	62	16	8.0
21							12	34	209	62	15	8.0
22							12	39	209	46	15	8.0
23							11	95	216	41	14	8.0
24							13	150	206	41	14	8.0
25							13	93	183	41	13	7.0
26							15	87	206	36	8.0	6.6
27							15	100	234	28	6.9	6.6
28							15	150	171	25	6.5	6.6
29							17	165	135	25	6.5	6.6
30							18	115	120	25	6.5	6.6
31							---	91	---	25	6.7	---
TOTAL	---	---	---	---	---	---	305.5	1522	5619	2494	502.1	253.1
MEAN	---	---	---	---	---	---	10.2	49.1	187	80.5	16.2	8.44
MAX	---	---	---	---	---	---	18	165	342	212	26	14
MIN	---	---	---	---	---	---	6.4	12	84	25	6.5	6.0
AC-FT	---	---	---	---	---	---	606	3020	11150	4950	996	502

09220500 WEST FORK OF SMITHS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 41°01'20", long 110°28'43", in SE1/4NE1/4NW1/4 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 current year (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), National Geodetic Vertical Datum of 1929. July 13, 1939, to Aug. 16, 1949, at site 75 ft (24 m) upstream at datum 2.00 ft (0.610 m) higher; Aug. 17, 1949, to June 13, 1965, at present site at datum 2.0 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. 12 . . . 0.78

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, 1941 (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)
May 22	2000	*679	19.2	3.68	1.122
June 4	2030	386	10.9	3.09	.942

Minimum daily discharge, 2.0 ft^3/s (0.057 m^3/s) Aug. 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							3.4	34	68	24	3.4	3.0
2							3.5	37	64	24	3.1	2.2
3							3.5	41	142	22	2.6	2.2
4							3.6	59	222	20	2.8	2.2
5							3.6	70	218	16	2.8	2.4
6							3.7	69	162	13	2.8	2.6
7							3.7	89	112	12	2.6	4.1
8							3.7	96	126	14	2.5	6.2
9							3.9	84	142	14	2.5	8.1
10							3.9	69	155	13	2.4	5.7
11							3.7	48	158	11	2.2	5.0
12							3.6	35	128	9.4	2.0	3.6
13							3.7	27	101	9.8	2.0	2.5
14							5.0	24	82	9.1	2.5	2.2
15							8.0	30	67	8.4	3.7	2.2
16							10	37	48	7.3	3.9	2.2
17							9.0	34	52	6.7	3.6	2.6
18							10	37	61	6.5	3.0	2.6
19							11	56	63	5.9	3.1	2.6
20							13	120	54	5.7	3.6	2.5
21							14	219	53	5.7	2.8	2.5
22							15	357	43	4.8	2.6	2.5
23							15	404	36	4.6	2.8	2.5
24							17	164	32	4.8	3.0	2.5
25							20	42	29	4.6	5.2	2.4
26							25	37	27	4.1	3.9	2.4
27							26	55	26	3.7	2.6	2.4
28							29	88	22	3.6	2.2	2.3
29							29	84	22	3.6	2.1	2.3
30							32	63	24	3.6	2.6	2.3
31							---	73	---	3.6	3.4	---
TOTAL	---	---	---	---	---	---	335.5	2682	2539	298.5	90.3	90.8
MEAN	---	---	---	---	---	---	11.2	86.5	84.6	9.63	2.91	3.03
MAX	---	---	---	---	---	---	32	404	222	24	5.2	8.1
MIN	---	---	---	---	---	---	3.4	24	22	3.6	2.0	2.2
AC-FT	---	---	---	---	---	---	665	5320	5040	592	179	180

09228500 BURNT FORK NEAR BURNTFORK, WY

LOCATION.--Lat 49°56'47", long 110°03'56", in NE1/4SE1/4SE1/4 sec.36, T.3 N., R.16 E., Summit County, UT, Hydrologic Unit 14040106, Wasatch National Forest, on left bank 0.6 mi (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, 394 ft^3/s (11.2 m^3/s) June 10, gage height, 3.41 ft (1.04 m); minimum daily during period of operation, 5.1 ft^3/s (0.144 m^3/s) Apr. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							5.4	12	108	80	54	15
2							5.6	12	108	130	48	15
3							5.7	12	124	120	43	14
4							5.8	14	179	110	39	13
5							5.8	16	218	100	35	14
6							5.5	18	200	87	32	14
7							5.8	25	191	80	29	14
8							6.0	29	206	89	27	14
9							5.4	32	233	98	24	15
10							5.4	29	311	97	22	24
11							5.4	25	278	93	20	23
12							5.1	23	227	90	18	20
13							5.3	21	227	90	16	21
14							5.5	20	191	90	17	18
15							5.7	22	161	91	20	15
16							5.3	23	149	93	20	15
17							5.5	24	114	93	20	15
18							6.5	21	99	89	16	14
19							8.0	24	68	84	15	13
20							9.0	28	194	80	15	13
21							10	44	200	79	14	13
22							10	68	197	75	14	13
23							9.6	104	167	75	13	13
24							7.8	86	149	75	15	13
25							8.2	62	112	70	15	13
26							8.9	55	74	66	18	13
27							9.2	60	46	60	18	13
28							10	79	43	59	15	12
29							14	86	50	57	14	12
30							13	75	60	57	15	11
31							---	84	---	55	15	---
TOTAL							218.4	1233	4684	2612	696	445
MEAN							7.28	39.8	156	84.3	22.5	14.8
MAX							14	104	311	130	54	24
MIN							5.1	12	43	55	13	11
AC-FT							433	2450	9290	5180	1380	883

09229500 HENRYS FORK NEAR MANILA, UT

LOCATION.--Lat 41°00'45", long 109°40'20", in NW1/4NW1/4, sec.23, T.12 N., R. 109 W., Sweetwater County, WY, Hydrologic Unit 14040106, on right bank 0.8 mi (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, UT.

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 and period of no gage-height record, Jan. 1 to Feb. 12, 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.--52 years, 81.0 ft^3/s (2.294 m^3/s), 58,680 acre-ft/yr (72.4 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, 1,040 ft^3/s (29.5 m^3/s) July 3, gage height, 5.09 ft (1.551 m); minimum daily, 1.7 ft^3/s (0.048 m^3/s) Oct. 6-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	22	29	36	36	72	41	227	230	118	11	26
2	2.1	22	31	38	40	74	41	124	254	240	12	19
3	2.1	29	34	40	42	72	45	82	227	734	10	17
4	2.1	38	38	42	43	67	50	72	212	331	10	16
5	1.9	41	40	43	40	68	55	76	274	238	10	16
6	1.7	44	42	42	38	62	50	83	370	150	10	15
7	1.7	48	43	40	36	63	47	171	389	92	8.4	15
8	1.7	47	45	39	34	66	50	258	386	81	7.2	15
9	1.9	45	45	40	33	61	55	184	448	113	7.3	14
10	2.1	42	43	39	32	64	54	165	545	135	7.4	17
11	2.6	41	40	41	32	66	52	292	618	102	7.0	22
12	2.8	41	38	50	33	59	50	314	652	71	6.8	25
13	2.8	42	40	60	35	53	53	219	568	63	6.7	25
14	2.3	43	42	70	40	70	56	184	437	51	6.5	25
15	2.3	45	43	70	45	70	54	144	343	35	7.2	22
16	2.1	44	44	66	50	50	60	205	287	30	11	21
17	2.1	43	44	64	55	51	80	153	236	27	17	18
18	2.1	42	43	55	64	56	110	132	257	21	11	16
19	1.9	41	41	50	80	56	150	118	297	15	8.1	14
20	3.6	39	39	45	100	62	180	85	354	21	8.7	12
21	5.9	37	37	43	100	65	210	64	355	20	8.2	12
22	6.6	35	39	40	95	52	180	92	276	13	7.5	13
23	8.7	37	39	40	87	58	140	168	233	21	6.9	12
24	9.7	35	38	43	83	52	120	242	190	23	7.0	11
25	11	34	37	42	80	48	110	223	177	22	8.0	10
26	11	32	35	40	80	52	108	156	159	13	19	9.9
27	17	30	33	39	83	49	105	112	131	10	22	9.5
28	20	28	32	37	87	51	98	97	115	8.8	36	9.5
29	23	26	31	34	82	44	94	129	90	9.7	29	6.6
30	24	27	32	33	---	43	142	159	94	10	26	5.6
31	23	---	34	32	---	42	---	165	---	9.0	27	---
TOTAL	204.1	1120	1191	1393	1685	1818	2640	4897	9204	2827.5	379.9	469.1
MEAN	6.58	37.3	38.4	44.9	58.1	58.6	88.0	158	307	91.2	12.3	15.6
MAX	24	48	45	70	100	74	210	314	652	734	36	26
MIN	1.7	22	29	32	32	42	41	64	90	8.8	6.5	5.6
AC-FT	405	2220	2360	2760	3340	3610	5240	9710	18260	5610	754	930

CAL YR 1979 TOTAL 10141.87 MEAN 27.8 MAX 263 MIN .45 AC-FT 20120
WTR YR 1980 TOTAL 27828.60 MEAN 76.0 MAX 734 MIN 1.7 AC-FT 55200

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Wyoming, 1980."

09234400 FLAMING GORGE RESERVOIR AT FLAMING GORGE DAM, UTAH

LOCATION.--Lat 40°54'23", long 109°25'15", in NW1/4NE1/4 sec.15, T.2 N., R.22 E., Daggett County, Hydrologic Unit 14040106, at Flaming Gorge Dam on Green River, 1.8 mi (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 National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service.) 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 Water and Power Resources Service.

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, 3,129,000 acre-ft (3,858 hm^3) Aug.4-7, elevation, 6,024.23 ft (1,836.185 m); minimum observed, 2,222,000 acre-ft (2,740 hm^3) Mar. 13, elevation, 5,996.42 ft (1,827.709 m).

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

5,995	2,181,000	6,015	2,804,000
6,000	2,327,000	6,020	2,977,000
6,005	2,480,000	6,025	3,257,000
6,010	2,639,000		

CONTENTS, IN THOUSANDS OF ACRE-FEET, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2569	2519	2452	2396	2312	2245	2249	2388	2654	2967	3128	3118
2	2566	2516	2449	2391	2312	2245	2251	2396	2665	2978	3127	3117
3	2564	2515	2445	2390	2312	2246	2253	2406	2674	2989	3128	3115
4	2564	2514	2444	2390	2309	2243	2255	2413	2685	3004	3129	3115
5	2563	2513	2441	2386	2307	2241	2257	2418	2696	3014	3129	3113
6	2563	2509	2437	2385	2305	2236	2262	2426	2708	3026	3129	3111
7	2562	2507	2434	2382	2303	2232	2263	2436	2719	3036	3129	3110
8	2558	2505	2434	2378	2297	2231	2265	2449	2731	3048	3128	3110
9	2558	2506	2433	2376	2293	2228	2268	2456	2741	3054	3126	3110
10	2555	2504	2430	2372	2290	2227	2270	2465	2751	3060	3125	3109
11	2552	2502	2426	2368	2285	2224	2272	2474	2761	3069	3124	3109
12	2547	2500	2424	2363	2283	2222	2276	2486	2771	3075	3123	3108
13	2545	2498	2420	2361	2279	2222	2278	2494	2777	3079	3122	3107
14	2544	2497	2417	2360	2276	2222	2278	2502	2784	3084	3122	3107
15	2544	2496	2416	2360	2273	2224	2280	2511	2789	3088	3120	3107
16	2543	2495	2416	2358	2270	2226	2282	2517	2794	3092	3124	3106
17	2542	2494	2414	2356	2268	2227	2285	2524	2803	3096	3121	3103
18	2541	2494	2412	2353	2267	2230	2290	2529	2816	3099	3121	3102
19	2540	2492	2412	2352	2262	2231	2294	2531	2828	3101	3122	3101
20	2539	2489	2411	2350	2259	2231	2302	2537	2838	3106	3122	3099
21	2543	2484	2409	2346	2256	2232	2309	2544	2851	3108	3122	3100
22	2541	2483	2409	2341	2250	2235	2318	2551	2862	3110	3121	3098
23	2539	2483	2408	2340	2247	2237	2324	2558	2875	3111	3122	3095
24	2539	2482	2406	2339	2247	2239	2334	2566	2886	3114	3124	3092
25	2538	2481	2407	2339	2244	2239	2348	2575	2900	3117	3122	3089
26	2538	2479	2406	2338	2244	2240	2356	2582	2915	3119	3122	3086
27	2536	2475	2405	2338	2245	2242	2362	2590	2924	3120	3122	3083
28	2534	2470	2400	2334	2244	2243	2368	2600	2935	3122	3120	3083
29	2529	2464	2399	2328	2244	2246	2374	2613	2950	3122	3120	3079
30	2525	2457	2399	2323	---	2248	2381	2626	2959	3120	3119	3078
31	2522	---	2396	2318	---	2249	---	2639	---	3124	3117	---
MAX	2569	2519	2452	2396	2312	2249	2381	2639	2959	3124	3129	3118
MIN	2522	2457	2396	2318	2244	2222	2249	2388	2654	2967	3117	3078
(†)	6006.36	6004.28	6002.30	5999.70	5997.18	5997.35	6001.80	6010.02	6019.50	6024.11	6023.90	6022.82
(‡)	-49	-65	-61	-78	-74	+5	+132	+258	+320	+165	-7	-39

CAL YR 1979 . . . . . (‡) -277
WTR YR 1980 . . . . . (‡) +507

(†) 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 NW1/4SE1/4 sec.15, T.2 N., R.22 E., Daggett County, Hydrologic Unit 14040106, Ashley National Forest 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) National Geodetic Vertical Datum 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 sta 09234400).

AVERAGE DISCHARGE.--30 years, 2,049 ft^3/s (58.0 m^3/s), 1,485,000 acre-ft/yr (1.83 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, 4,720 ft^3/s (134 m^3/s) Nov. 6; gage height, 6.41 ft (1.954 m); minimum daily, 824 ft^3/s (23.3 m^3/s) July 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1250	3060	2950	1000	3000	1020	1710	889	908	1510	843	1470
2	1860	1710	2410	2140	1250	902	1230	895	967	1450	1260	1990
3	1100	915	3140	2940	1200	1860	869	863	941	1160	895	2010
4	889	915	2700	1490	2200	3340	1150	863	1200	908	1010	1910
5	889	1690	2060	2410	2020	3280	1270	869	1180	1100	1770	1700
6	967	2900	3240	2180	2290	3330	902	1500	1500	1390	1350	1860
7	889	2040	2940	3230	2330	2440	2130	876	1060	1890	1700	1850
8	2120	2050	960	3230	3360	2460	1870	850	1110	1190	1700	1660
9	908	1640	1460	3180	2460	2220	1520	869	1770	1620	2070	1300
10	2690	1270	3410	2830	1950	2670	2190	863	1470	1680	2090	1700
11	2660	902	2770	3040	2990	2400	1450	889	1270	1300	1790	1190
12	2650	1380	2370	2730	2250	2220	1130	869	1530	1580	1880	1360
13	1430	1700	2790	902	3150	1160	1800	876	1400	1060	1880	1550
14	908	1420	1980	1950	2720	908	1960	895	1170	1550	1660	1780
15	928	934	1580	902	2390	908	1700	869	1090	1560	1600	1580
16	1040	1870	863	3070	2530	902	2230	889	1580	850	1510	1580
17	902	895	2830	2190	1600	915	1300	1500	1320	876	1590	1640
18	889	895	1630	3360	1740	895	1530	1390	1160	1460	1780	1830
19	915	2780	1530	1310	3090	1710	895	1940	1030	1150	1360	1840
20	1020	3300	1760	1500	3210	915	882	908	882	1130	1350	1550
21	889	2880	2360	3100	3320	1260	928	1300	889	1340	863	934
22	1670	980	1320	2980	3710	908	1170	1180	915	1420	1830	1800
23	1540	895	1440	1270	2440	908	1230	987	1380	1600	1720	1830
24	941	1590	928	1180	1320	1600	1110	1100	1690	1290	1450	1780
25	921	1020	928	1180	2190	1970	1170	1050	863	1260	1810	1950
26	895	1620	2290	1460	1000	1470	921	1270	941	824	1830	1700
27	1560	3370	1660	994	1500	1840	921	889	1550	1830	1920	1920
28	2730	3390	2620	3060	1580	1400	1130	908	1620	1330	1920	1200
29	3500	3400	1930	3650	1500	876	1950	1100	1100	1660	1980	2040
30	2520	3980	1030	3440	---	876	895	1180	994	1690	1690	1220
31	2030	---	2100	3150	---	2720	---	1140	---	1490	2050	---
TOTAL	46100	57391	63979	71048	66290	52283	41143	32466	36480	42148	50151	49724
MEAN	1487	1913	2064	2292	2286	1687	1371	1047	1216	1360	1618	1657
MAX	3500	3980	3410	3650	3710	3340	2230	1940	1770	1890	2090	2040
MIN	889	895	863	902	1000	876	869	850	863	824	843	934
AC-FT	91440	113800	126900	140900	131500	103700	81610	64400	72360	83600	99470	98630

CAL YR 1979 TOTAL 693982 MEAN 1901 MAX 3980 MIN 863 AC-FT 1377000
WTR YR 1980 TOTAL 609203 MEAN 1664 MAX 3980 MIN 824 AC-FT 1208000

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, 64 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 March 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, 890 micromhos June 4; minimum daily, 610 micromhos Mar. 20, July 9.
WATER TEMPERATURES: Maximum, 14.0°C Sept. 24; minimum, 3.0°C Jan. 18, Feb. 13.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (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											
11...	1015	4160	700	8.2	13.0	12.5	1.0	6.8	.63	<1	K4
NOV											
29...	0945	4280	740	7.8	-9.5	5.5	.30	8.4	.78	<1	K3
DEC											
11...	1600	2440	710	8.1	-2.0	5.0	.80	8.2	.82	<1	<1
JAN											
17...	1600	2160	700	7.9	4.0	4.0	.20	7.6	1.2	<1	<1
FEB											
13...	1600	4310	700	7.8	.0	3.0	.40	8.4	.84	<1	<1
MAR											
20...	1515	915	610	7.9	8.8	3.5	.70	9.3	.96	<1	<1
APR											
08...	1415	1440	690	7.8	9.5	4.0	.00	8.8	1.0	<1	<1
MAY											
21...	1530	2220	670	8.1	24.0	9.5	2.0	9.6	.45	<1	<1
JUN											
26...	1400	871	580	8.0	32.8	12.5	2.6	8.8	1.1	<1	K2
JUL											
15...	1400	2650	640	7.8	29.2	13.5	.90	7.6	.59	<1	<1
AUG											
20...	1430	1330	700	7.9	23.4	13.0	1.5	7.2	.60	<1	<1
SEP											
24...	1400	2650	710	8.0	19.4	14.0	1.2	7.1	.38	<1	K1

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
OCT											
11...	240	92	58	24	55	45	1.5	58	2.7	180	0
NOV											
29...	270	120	64	26	59	32	1.6	62	2.8	180	0
DEC											
11...	250	100	62	24	57	44	1.6	60	2.5	180	0
JAN											
17...	250	100	62	23	58	33	1.6	59	2.5	180	0
FEB											
13...	280	130	67	27	64	33	1.7	67	2.5	180	0
MAR											
20...	260	110	62	25	57	32	1.5	--	2.8	180	0
APR											
08...	270	120	66	25	55	31	1.5	--	2.5	180	0
MAY											
21...	240	110	57	23	53	32	1.5	--	2.4	160	0
JUN											
26...	220	97	53	21	48	32	1.4	--	2.4	150	0
JUL											
15...	230	110	55	22	49	32	1.4	--	2.4	--	--
AUG											
20...	230	110	55	22	51	32	1.5	--	2.4	--	--
SEP											
24...	230	100	55	23	53	33	1.5	--	3.0	--	--

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 1979 TO SEPTEMBER 1980

DATE	ALKA-LINITY (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										
11...	148	1.8	200	16	.3	2.7	477	448	.65	5360
NOV										
29...	148	4.6	220	20	.3	3.4	485	486	.66	5610
DEC										
11...	148	2.3	210	14	.2	3.4	481	463	.65	3170
JAN										
17...	148	3.6	220	16	.3	4.0	501	476	.68	2920
FEB										
13...	148	4.6	230	15	.2	4.2	492	500	.67	5730
MAR										
20...	148	3.6	210	17	.2	4.1	507	468	.69	1250
APR										
08...	150	4.6	230	17	.3	4.2	501	491	.68	1950
MAY										
21...	131	2.0	190	14	.3	3.7	455	423	.62	2730
JUN										
26...	123	2.4	180	15	.2	3.5	412	398	.56	969
JUL										
15...	120	--	180	13	.5	3.5	408	398	.55	2920
AUG										
20...	120	--	190	16	.4	3.3	431	413	.59	1550
SEP										
24...	130	--	200	17	.3	2.7	451	432	.61	3230

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA 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)
OCT								
11...	.24	.21	.020	.000	.02	.00	.52	.42
NOV								
29...	.25	.28	.020	.020	.02	.03	.50	.48
DEC								
11...	.35	.34	.030	.020	.04	.03	.46	.46
JAN								
17...	.35	.37	.060	.000	.07	.00	.79	.78
FEB								
13...	.33	.34	.110	.040	.13	.05	.54	.46
MAR								
20...	.27	.27	.000	.020	.00	.03	.56	.67
APR								
08...	.29	.29	.100	.000	.12	.00	2.3	.73
MAY								
21...	.18	.19	.080	.060	.10	.08	.35	.20
JUN								
26...	.15	.15	.030	.010	.04	.01	.49	.92
JUL								
15...	.15	.11	.010	.040	.01	.05	.58	.44
AUG								
20...	.15	.11	.000	.030	.00	.04	.46	.46
SEP								
24...	.05	.07	.000	.000	.00	.00	.58	.31

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)
OCT								
11...	.54	.12	.42	.78	3.5	.000	.00	.000
NOV								
29...	.52	.02	.50	.77	3.4	.010	.03	.010
DEC								
11...	.49	.01	.48	.84	3.7	.030	.09	.010
JAN								
17...	.85	.07	.78	1.2	5.3	.010	.03	.010
FEB								
13...	.65	.15	.50	.98	4.3	.010	.03	.000
MAR								
20...	.56	.00	.69	.83	3.7	.020	.06	.010
APR								
08...	2.4	1.7	.73	2.7	12	.010	.03	.030
MAY								
21...	.43	.17	.26	.61	2.7	.020	.06	.010
JUN								
26...	.52	.00	.93	.67	3.0	.020	.06	.020
JUL								
15...	.59	.11	.48	.74	3.3	.020	.06	.020
AUG								
20...	.46	.00	.49	.61	2.7	.010	.03	.000
SEP								
24...	.58	.27	.31	.63	2.8	.080	.25	.050

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)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)
OCT											
11...	1015	2	0	2	100	20	80	1	0	2	0
NOV											
29...	0945	3	0	3	200	100	80	0	0	<1	0
FEB											
13...	1600	2	0	2	200	100	80	0	0	<1	0
MAY											
21...	1530	3	0	3	100	20	80	0	0	1	0
AUG											
20...	1430	3	0	3	0	0	80	0	--	<1	10

DATE	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	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)
OCT										
11...	0	0	0	<3	6	4	2	540	530	<10
NOV										
29...	0	0	0	<3	2	2	0	30	20	<10
FEB										
13...	0	0	0	<3	3	3	0	50	40	<10
MAY										
21...	0	2	2	0	8	6	2	100	80	20
AUG										
20...	10	0	--	<3	10	8	2	70	--	<10

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	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										
11...	8	0	56	20	20	<1	.0	.0	.0	0
NOV										
29...	4	2	2	0	0	<1	.0	.0	.0	10
FEB										
13...	3	3	0	10	9	<1	.0	.0	.0	0
MAY										
21...	4	2	2	0	0	10	.2	.2	.0	4
AUG										
20...	9	9	0	10	9	1	.1	.1	.0	5

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)	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										
11...	0	2	1	0	1	0	0	0	0	4
NOV										
29...	8	2	1	1	0	1	0	110	100	8
FEB										
13...	0	2	1	0	1	0	0	10	3	7
MAY										
21...	4	0	1	0	1	0	0	20	0	30
AUG										
20...	4	1	1	0	1	0	0	60	50	6

DATE	TIME	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)
OCT		
11...	1015	0
NOV		
29...	0945	1
DEC		
11...	1600	0
FEB		
13...	1600	0
MAR		
20...	1515	0
MAY		
21...	1530	0
JUN		
26...	1400	0
AUG		
20...	1430	0
SEP		
24...	1400	0

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)
OCT				
11...	1015	--	7.9	.2
NOV				
29...	0945	--	7.3	.0
DEC				
11...	1600	8.2	--	--
FEB				
13...	1600	--	6.9	.3
MAR				
20...	1515	4.5	--	--
APR				
08...	1415	4.0	--	--
MAY				
21...	1530	--	5.6	.4
JUN				
26...	1400	34	--	--
JUL				
15...	1400	5.9	--	--
AUG				
20...	1430	--	9.4	.1
SEP				
24...	1400	5.9	--	--

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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						
11...	1015	.790	.550	1.32	.450	182
APR						
08...	1415	.310	.240	.070	.000	1000
JUN						
26...	1400	2.05	1.26	.000	.000	--
AUG						
20...	1430	2.28	1.81	1.19	.490	395

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	NOV 29,79	DEC 11,79	MAR 20,80	MAY 21,80
TIME	0945	1600	1515	1530
TOTAL CELLS/ML	6400	1300	350	540
DIVERSITY: DIVISION	0.3	1.0	1.0	0.8
.CLASS	0.3	1.1	1.0	0.8
..ORDER	0.0	0.0	1.7	1.4
...FAMILY	0.0	0.0	1.9	1.4
....GENUS	0.0	0.0	1.9	1.4

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....CHLORELLA	35	1	*	0	--	-	--	-
....OOCYSTIS	*	0	150	11	--	-	--	-
...SCENEDESMACEAE								
....SCENEDESMUS	*	0	--	-	--	-	--	-
..TETRASPORALES								
...COCCOMYXACEAE								
....ELAKATOTHRIX	--	-	20	2	--	-	90#	17
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	*	0	--	-	26	7	--	-
..ZYGNEMATALES								
...DESMIDIACEAE								
....STAURASTRUM	*	0	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	*	0	20	2	150#	44	90#	17
..PENNALES								
...ACHNANTHACEAE								
....COCCONEIS	--	-	--	-	--	-	--	-
...DIATOMACEAE								
....DIATOMA	--	-	*	0	--	-	--	-
...FRAGILARIACEAE								
....FRAGILARIA	--	-	--	-	120#	33	350#	64
...NAVICULACEAE								
....NAVICULA	--	-	*	0	--	-	--	-
.CHRYSOPHYCEAE								
..CHRYSOMONADALES								
...OCHROMONADACEAE								
....DINOBRYON	66	1	90	7	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE	*	0	10	1	--	-	--	-
..CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	39	11	13	2
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	13	4	--	-

See footnotes at end of table.

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	NOV 29,79		DEC 11,79		MAR 20,80		MAY 21,80	
TIME	0945		1600		1515		1530	
TOTAL CELLS/ML	6400		1300		350		540	
DIVERSITY: DIVISION	0.3		1.0		1.0		0.8	
.CLASS	0.3		1.1		1.0		0.8	
..ORDER	0.0		0.0		1.7		1.4	
...FAMILY	0.0		0.0		1.9		1.4	
....GENUS	0.0		0.0		1.9		1.4	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	6200#	97	970#	74	--	-	--	-
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	40	3	--	-	--	-
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUTREPTIA	*	0	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..PERIDINIALES								
...GLENODINIACEAE								
....GLENODINIUM	--	-	--	-	--	-	--	-

DATE	JUN 26,80		JUL 15,80		AUG 20,80		SEP 24,80	
TIME	1400		1400		1430		1400	
TOTAL CELLS/ML	140		260		1300		8000	
DIVERSITY: DIVISION	1.3		0.9		0.5		0.3	
.CLASS	1.3		0.9		0.5		0.3	
..ORDER	1.3		1.0		0.5		0.4	
...FAMILY	1.3		1.0		0.5		0.4	
....GENUS	1.3		1.0		0.5		0.4	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	13	9	--	-	--	-	--	-
...OOCYSTACEAE								
....CHLORELLA	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....SCENEDESMUS	--	-	--	-	--	-	--	-
..TETRASPORALES								
...COCCOMYXACEAE								
....ELAKATOTHRIX	--	-	--	-	--	-	--	-
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	--	-	210	3
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	26	2	*	0
..ZYGNEMATALES								
...DESMIDIACEAE								
....STAURASTRUM	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	100#	73	13	5	13	1	*	0
..PENNALES								
...ACHNANTHACEAE								
....COCCONEIS	--	-	26	10	--	-	--	-
...DIATOMACEAE								
....DIATOMA	--	-	--	-	--	-	--	-
...FRAGILARIACEAE								
....FRAGILARIA	--	-	--	-	--	-	--	-
...NAVICULACEAE								
....NAVICULA	--	-	--	-	--	-	--	-
.CHRYSOPHYCEAE								
..CHRYSOMONADALES								
...OCHROMONADACEAE								
....DINOBRYON	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE	--	-	--	-	--	-	--	-

See footnotes at end of table.

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	JUN 26,80	JUL 15,80	AUG 20,80	SEP 24,80
TIME	1400	1400	1430	1400
TOTAL CELLS/ML	140	260	1300	8000
DIVERSITY: DIVISION	1.3	0.9	0.5	0.3
.CLASS	1.3	0.9	0.5	0.3
..ORDER	1.3	1.0	0.5	0.4
...FAMILY	1.3	1.0	0.5	0.4
....GENUS	1.3	1.0	0.5	0.4

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
..CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	13	9	13	5	39	3	140	2
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	26	2	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	1200#	92	7600#	95
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	210#	80	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUTREPTIA	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..PERIDINIALES								
...GLENODINIACEAE								
....GLENODINIUM	13	9	--	-	--	-	*	0

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	750	710	---	---	740	---	760	710	---	---	760	---
2	750	700	---	730	---	---	750	700	770	780	---	660
3	740	---	720	740	---	740	780	---	760	620	---	670
4	720	---	720	740	740	740	770	---	670	---	780	680
5	710	740	710	---	740	740	---	710	890	---	650	680
6	---	750	720	---	730	740	---	---	670	---	650	---
7	---	710	720	740	740	740	740	770	---	620	650	---
8	---	740	---	740	740	---	760	680	---	770	660	680
9	750	710	---	740	---	---	770	760	680	610	---	760
10	730	---	720	730	---	740	740	---	780	620	---	690
11	710	---	720	730	730	740	760	---	660	620	660	760
12	720	---	720	---	740	740	---	770	650	---	660	680
13	---	720	720	---	740	740	---	760	650	---	660	---
14	---	710	720	740	740	740	770	770	---	620	660	---
15	750	710	---	740	740	---	760	780	---	630	670	700
16	750	710	---	740	---	---	770	760	660	770	---	680
17	710	---	730	740	---	750	---	---	660	770	---	680
18	710	---	730	740	---	750	---	---	770	770	670	680
19	710	740	720	---	740	750	---	670	780	---	670	680
20	---	710	720	---	740	610	---	770	790	---	760	---
21	---	720	720	740	740	750	740	670	---	780	770	---
22	740	---	---	740	740	---	750	---	---	780	670	680
23	750	740	---	---	---	---	770	760	790	770	---	680
24	740	---	---	740	---	760	770	---	640	790	---	740
25	710	---	---	730	730	750	770	---	780	640	680	740
26	710	720	730	---	740	750	---	---	780	---	680	750
27	---	720	720	---	---	750	---	760	640	---	670	---
28	---	710	720	730	740	750	740	770	---	630	680	---
29	710	720	---	740	740	---	780	770	---	640	680	760
30	710	720	---	740	---	---	780	---	770	650	---	760
31	710	---	730	740	---	760	---	---	---	650	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.0	10.5	---	---	4.5	---	4.0	6.0	---	---	13.0	---
2	13.0	10.5	---	4.0	---	---	4.0	5.5	8.5	12.0	---	13.0
3	13.5	---	6.5	4.0	---	4.0	4.0	---	9.0	12.0	---	13.0
4	12.0	---	6.5	4.0	4.0	4.0	4.0	---	9.0	---	13.0	13.0
5	13.0	10.0	6.5	---	4.0	4.0	---	6.0	9.0	---	13.0	13.0
6	---	10.0	6.5	---	4.0	4.0	---	---	10.0	---	13.0	---
7	---	10.0	6.5	4.0	4.0	4.0	4.0	6.5	---	13.0	13.0	---
8	---	10.0	---	4.0	4.0	---	4.0	6.5	---	13.0	13.0	13.0
9	13.0	9.5	---	4.0	---	---	4.0	6.5	10.0	13.0	---	13.0
10	13.0	---	6.5	4.0	---	4.0	---	---	10.0	13.0	---	13.0
11	13.0	---	6.5	4.0	4.0	4.0	4.0	---	10.0	13.0	13.0	13.0
12	12.0	---	5.5	---	4.0	4.0	---	6.5	10.0	---	13.0	13.0
13	---	9.0	5.5	---	4.0	4.0	---	6.5	11.0	---	13.0	---
14	---	9.0	5.5	4.0	4.0	4.0	4.0	6.5	---	13.0	13.0	---
15	13.0	8.5	---	4.0	4.0	---	4.0	6.5	---	13.0	13.0	13.0
16	13.0	8.5	---	4.0	---	---	4.0	7.5	10.5	13.0	---	13.0
17	12.0	---	5.5	4.0	---	4.0	---	---	10.0	13.0	---	13.0
18	13.0	---	5.5	3.0	---	4.0	---	---	10.5	13.0	13.0	13.0
19	12.0	8.0	5.5	---	4.0	4.0	---	7.5	11.0	---	13.0	13.0
20	---	8.0	5.5	---	4.0	4.0	---	7.5	11.0	---	13.0	---
21	---	8.0	5.5	4.0	4.0	4.0	4.5	7.5	---	13.0	13.0	---
22	12.0	---	---	4.0	4.0	---	4.5	---	---	13.0	13.0	13.0
23	12.0	8.0	---	---	---	---	4.5	---	11.5	13.0	---	13.0
24	12.0	---	---	4.0	---	4.0	4.5	---	12.0	13.0	---	14.0
25	12.0	---	---	4.0	4.0	4.0	5.5	---	11.5	13.0	13.0	13.0
26	11.0	8.5	5.0	---	4.0	4.0	---	---	11.5	---	13.0	13.0
27	---	8.5	5.0	---	---	4.0	---	8.5	12.0	---	13.0	---
28	---	7.5	5.0	4.0	4.0	4.0	5.5	8.5	---	13.0	13.0	---
29	11.0	7.5	---	4.5	4.0	---	5.5	8.5	---	13.0	13.0	13.0
30	11.0	7.5	---	4.5	---	---	5.5	---	13.0	13.0	---	13.0
31	10.5	---	5.0	4.5	---	4.0	---	---	---	13.0	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT						
11...	1015	4160	12.5	14	18	202
DEC						
11...	1600	2440	5.0	9	3	20
JAN						
17...	1600	2160	4.0	46	3	17
MAR						
20...	1515	915	3.5	50	1	2.5
APR						
08...	1415	1440	4.0	31	9	35
MAY						
21...	1530	2220	9.5	74	14	84
JUN						
26...	1400	871	12.5	87	4	9.4
JUL						
15...	1400	2650	13.5	62	2	14
AUG						
20...	1430	1330	13.0	50	1	3.6
SEP						
24...	1400	2650	14.0	33	4	29

09235600 POT CREEK ABOVE DIVERSIONS, NEAR VERNAL, UTAH

LOCATION.--Lat 40°46'05", long 109°19'06", in NE1/4 sec.3, T.1 S., R.23 E., Uintah County, Hydrologic Unit 14040106, on left bank 0.3 mi (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) (revised).

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

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 higher at same site.

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

AVERAGE DISCHARGE.--23 years, 3.53 ft^3/s (0.100 m^3/s), 2,560 acre-ft/yr (3.16 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Peak discharge above base of 30 ft^3/s (0.85 m^3/s); 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); maximum discharge, 183 ft^3/s (5.18 m^3/s), Apr. 28, gage height, 4.49 ft (1.369 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.12	.00	.00	.00	.00	.00	100	17	1.1	.00	.00
2	.00	.12	.00	.00	.00	.00	.00	89	14	2.4	.00	.00
3	.00	.13	.00	.00	.00	.00	.00	72	11	2.1	.00	.00
4	.00	.13	.00	.00	.00	.00	.00	64	9.6	1.3	.00	.00
5	.00	.13	.00	.00	.00	.00	.00	77	8.4	.78	.00	.00
6	.00	.15	.00	.00	.00	.00	.00	71	7.5	.46	.00	.00
7	.00	.15	.00	.00	.00	.00	.00	71	7.1	.38	.00	.00
8	.00	.15	.00	.00	.00	.00	.00	62	6.5	.41	.00	.00
9	.00	.15	.00	.00	.00	.00	.00	72	6.1	.38	.00	.00
10	.00	.13	.00	.00	.00	.00	.00	77	5.5	.30	.00	.00
11	.00	.11	.00	.00	.00	.00	.00	63	4.9	.25	.00	.00
12	.00	.09	.00	.00	.00	.00	.00	63	4.2	.22	.00	.02
13	.00	.08	.00	.00	.00	.00	.00	49	3.9	.22	.00	.10
14	.00	.08	.00	.00	.00	.00	.00	38	3.6	.20	.00	.08
15	.00	.08	.00	.00	.00	.00	.00	33	3.3	.18	.00	.03
16	.00	.08	.00	.00	.00	.00	.00	31	3.3	.15	.00	.01
17	.00	.07	.00	.00	.00	.00	.00	35	2.9	.15	.00	.00
18	.00	.06	.00	.00	.00	.00	.00	30	2.6	.11	.00	.00
19	.00	.05	.00	.00	.00	.00	.00	28	2.3	.08	.00	.00
20	.00	.04	.00	.00	.00	.00	.00	26	2.3	.09	.00	.00
21	.00	.04	.00	.00	.00	.00	.00	27	1.8	.08	.00	.03
22	.02	.03	.00	.00	.00	.00	5.0	30	1.4	.03	.00	.03
23	.05	.03	.00	.00	.00	.00	15	35	1.0	.00	.00	.04
24	.08	.02	.00	.00	.00	.00	25	33	.85	.00	.00	.04
25	.11	.02	.00	.00	.00	.00	50	32	.80	.00	.00	.04
26	.15	.02	.00	.00	.00	.00	75	28	.65	.00	.00	.04
27	.15	.02	.00	.00	.00	.00	100	23	.52	.00	.00	.04
28	.15	.01	.00	.00	.00	.00	109	19	.48	.00	.00	.03
29	.12	.01	.00	.00	.00	.00	106	21	.45	.00	.00	.02
30	.12	.00	.00	.00	---	.00	111	21	.45	.00	.00	.05
31	.15	---	.00	.00	---	.00	---	19	---	.00	.00	---
TOTAL	1.10	2.30	.00	.00	.00	.00	596.00	1439	134.40	11.37	.00	.60
MEAN	.035	.077	.000	.000	.000	.000	19.9	46.4	4.48	.37	.000	.020
MAX	.15	.15	.00	.00	.00	.00	111	100	17	2.4	.00	.10
MIN	.00	.00	.00	.00	.00	.00	.00	19	.45	.00	.00	.00
AC-FT	2.2	4.6	.00	.00	.00	.00	1180	2850	267	23	.00	1.2

CAL YR 1979 TOTAL 1062.94 MEAN 2.91 MAX 45 MIN .00 AC-FT 2110
WTR YR 1980 TOTAL 2184.77 MEAN 5.97 MAX 111 MIN .00 AC-FT 4330

09235800 POT CREEK NEAR VERNAL, UTAH

LOCATION.--Lat 40°40'25", long 109°03'03", in SW1/4NE1/4SE1/4 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. 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.--23 years, 1.91 ft^3/s (0.0541 m^3/s), 1,380 acre-ft/yr (1.70 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, 133 ft^3/s (3.77 m^3/s) May 12, gage height, 2.65 ft (0.808 m); no flow most of the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.01	.05	.12	86	8.3	.00	.00	.48
2	.00	.00	.00	.00	.01	.04	.11	110	7.3	.00	.00	.48
3	.00	.00	.00	.00	.01	.04	.08	84	5.3	.00	.00	.86
4	.00	.00	.00	.00	.00	.05	.14	54	4.1	.00	.00	1.6
5	.00	.00	.00	.00	.00	.03	.43	37	2.8	.00	.00	1.7
6	.00	.00	.00	.00	.00	.05	.59	29	1.9	.00	.00	1.7
7	.00	.00	.00	.00	.00	.06	1.0	26	1.4	.00	.00	1.9
8	.00	.00	.00	.00	.00	.06	2.3	21	1.2	.00	.00	2.3
9	.00	.00	.00	.00	.00	.08	2.3	26	1.4	.00	.00	2.4
10	.00	.00	.00	.00	.00	.11	2.8	55	1.0	.00	.00	2.8
11	.00	.00	.00	.00	.00	.11	1.7	107	.71	.00	.00	2.4
12	.00	.00	.00	.00	.00	.11	1.1	121	.48	.00	.00	2.0
13	.00	.00	.00	.00	.00	.10	1.2	120	.34	.00	.00	1.2
14	.00	.00	.00	.38	.00	.18	2.5	96	.23	.00	.00	.20
15	.00	.00	.00	.18	.03	.18	6.9	67	.16	.00	.00	.03
16	.00	.00	.00	.08	.09	.14	7.3	52	.14	.00	.00	.01
17	.00	.00	.00	.06	.05	.14	8.3	52	.12	.00	.00	.01
18	.00	.00	.00	.06	.16	.16	13	41	.08	.00	.00	.00
19	.00	.00	.00	.05	.14	.20	15	35	.06	.00	.00	.00
20	.16	.00	.00	.07	.28	.26	17	29	.04	.00	.00	.00
21	.04	.00	.00	.05	.14	.26	21	25	.03	.00	.00	.00
22	.00	.00	.00	.04	.11	.23	17	21	.01	.00	.00	.00
23	.00	.00	.00	.03	.08	.20	13	19	.00	.00	.00	.00
24	.00	.00	.00	.03	.07	.23	16	16	.00	.00	.00	.00
25	.00	.00	.00	.02	.04	.23	13	14	.00	.00	.00	.00
26	.00	.00	.00	.02	.02	.18	13	13	.00	.00	.00	.00
27	.00	.00	.00	.02	.07	.14	11	13	.00	.00	.28	.00
28	.00	.00	.00	.02	.12	.11	5.5	12	.00	.00	1.9	.00
29	.00	.00	.00	.02	.08	.11	3.8	11	.00	.00	2.3	.00
30	.00	.00	.00	.01	---	.12	12	10	.00	.00	2.7	.00
31	.00	---	.00	.01	---	.12	---	9.4	---	.00	1.8	---
TOTAL	.20	.00	.00	1.15	1.51	4.08	209.17	1411.4	37.10	.00	8.98	22.07
MEAN	.006	.000	.000	.037	.052	.13	6.97	45.5	1.24	.000	.29	.74
MAX	.16	.00	.00	.38	.28	.26	21	121	8.3	.00	2.7	2.8
MIN	.00	.00	.00	.00	.00	.03	.08	9.4	.00	.00	.00	.00
AC-FT	.4	.00	.00	2.3	3.0	8.1	415	2800	74	.00	18	44

CAL YR 1979 TOTAL 173.05 MEAN .47 MAX 7.6 MIN .00 AC-FT 343
WTR YR 1980 TOTAL 1695.66 MEAN 4.63 MAX 121 MIN .00 AC-FT 3360

09261000 GREEN RIVER NEAR JENSEN, UTAH

LOCATION.--Lat 40°24'34", long 109°14'05", in NE1/4SW1/4SE1/4 sec.5, T.5 S., R.24 E., Uintah County, Hydrologic Unit 14060001, Dinosaur National Monument, on right bank 300 ft (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-1973: 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.--Water-discharge records good except for winter period, which are fair. Transbasin diversions and diversions for irrigation above station. Flow regulated by Flaming Gorge Reservoir (see sta 09234400) 93.1 mi (149.8 km) upstream beginning Nov. 1, 1962.

AVERAGE DISCHARGE.--35 years (1903-04, 1946-80), 4,355 ft^3/s (123.3 m^3/s), 3,155,000 acre-ft/yr (3.89 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, 18,700 ft^3/s (530 m^3/s) May 14, gage height, 9.32 ft (2.841 m); minimum, 1,020 ft^3/s (28.9 m^3/s) Jan. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1430	2780	4400	2140	3820	5020	2750	10900	11400	4940	2100	2110
2	1390	3130	3020	1760	3660	4520	2950	12000	11500	4980	1780	2020
3	1420	2840	2980	1790	2240	3240	2490	11300	10800	5240	1370	2010
4	1910	1770	3080	3260	1750	3270	2190	10300	10500	6680	1590	2330
5	1170	1430	3110	1970	2410	4180	1830	10900	10500	5920	1300	2190
6	1080	1470	2560	2560	2380	4880	2150	11300	11600	4780	1600	2070
7	1070	3050	3110	2450	2680	4580	2160	11600	12600	4400	1910	1960
8	1140	2840	3370	3370	2570	4160	3180	13200	12900	4400	1840	2190
9	1410	2340	2190	3470	3500	3690	4260	14500	12600	3920	1970	1990
10	1840	2210	1450	3570	3130	3230	3370	15300	12500	3920	2420	1890
11	1820	2010	3190	3130	2890	3640	3210	15200	12400	4020	2450	1730
12	2860	1790	3400	3430	2930	3580	4100	15900	12500	3570	2020	1880
13	2460	1460	2930	3180	2830	3340	3040	17400	12600	3270	2060	1480
14	2060	2050	2930	2050	3390	2930	3020	17900	12500	3080	2110	1590
15	1650	1900	2710	2330	2990	2230	3860	13400	11700	2690	2160	1820
16	1170	1850	2060	1770	3210	2100	2990	11000	10800	3050	1890	2050
17	1240	1500	1550	2750	3040	2360	4380	10600	10000	2770	1900	1900
18	1200	2030	2360	4020	2930	2500	5220	11900	9280	2120	1780	1840
19	1160	1340	2020	3960	3450	2210	5120	14200	8520	2140	2070	1940
20	1340	2100	2140	2680	5160	2140	5590	12100	8190	2250	2020	2110
21	1460	3370	1840	1840	7250	2500	6230	11800	7740	2010	1780	1970
22	1390	3350	2720	3260	7990	2120	7200	12100	7350	1950	1550	1650
23	1630	1890	2070	3470	7820	2460	8800	13400	7250	2110	1420	1420
24	2110	1300	2140	2420	5830	2900	10400	16000	7200	2080	2230	2000
25	2110	1540	1450	1650	3580	2930	11300	17700	7400	2230	1930	2030
26	1670	1730	1340	1710	3690	3580	11600	18000	6680	1810	1890	2100
27	1660	1450	1760	1830	2800	3370	10200	15800	5980	1780	2150	2100
28	1840	3010	2230	1690	2980	3350	9790	12500	6160	1730	2110	2010
29	3260	3670	2980	3050	3820	2960	9450	11900	6330	2050	2280	1900
30	3860	3500	2470	3840	---	2410	10400	12400	5670	1960	2270	1640
31	3340	---	1840	3940	---	2020	---	12700	---	2140	2240	---
TOTAL	55150	66700	77400	84340	106720	98400	163230	415200	293150	99990	60190	57920
MEAN	1779	2223	2497	2721	3680	3174	5441	13390	9772	3225	1942	1931
MAX	3860	3670	4400	4020	7990	5020	11600	18000	12900	6680	2450	2330
MIN	1070	1300	1340	1650	1750	2020	1830	10300	5670	1730	1300	1420
AC-FT	109400	132300	153500	167300	211700	195200	323800	823500	581500	198300	119400	114900

CAL YR 1979 TOTAL 1569730 MEAN 4301 MAX 19100 MIN 1070 AC-FT 3114000
WTR YR 1980 TOTAL 1578390 MEAN 4313 MAX 18000 MIN 1070 AC-FT 3131000

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, 1,130 micromhos Feb. 1.; minimum daily, 250 micromhos several days during May and June.
WATER TEMPERATURES: Maximum, 25.0°C several days during July and August; minimum, 0.0°C Jan. 4, 30, 31, Feb. 6.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT												
23...	1000	1410	790	8.1	6.0	6.0	9.1	220	83	53	22	59
NOV												
16...	1000	1970	810	8.1	3.0	2.5	11.4	260	110	62	26	63
DEC												
03...	1530	3040	800	8.2	-2.0	2.0	13.0	260	100	63	25	60
JAN												
24...	1230	1940	760	8.2	-8.0	1.0	10.9	260	110	62	26	60
MAR												
11...	1030	2860	770	8.0	8.0	4.0	10.8	260	110	63	26	71
APR												
15...	1100	3670	820	8.2	17.0	9.0	10.1	250	100	59	26	70
MAY												
20...	1200	11300	410	8.2	22.5	12.0	9.5	120	31	29	11	34
JUN												
04...	1130	10500	285	8.0	29.0	14.0	9.1	90	28	23	7.9	12
JUL												
22...	1215	1950	550	8.2	27.5	23.5	8.5	180	50	44	17	42
AUG												
28...	1000	1880	700	8.2	24.0	16.5	8.2	240	110	57	24	58
SEP												
18...	1300	1850	720	8.4	29.0	16.0	8.4	230	92	55	23	58

DATE	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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												
23...	48	1.7	62	3.4	140	170	27	.3	3.2	423	.58	1610
NOV												
16...	46	1.7	66	2.6	150	190	22	.5	4.3	462	.63	2460
DEC												
03...	45	1.6	63	2.7	160	180	20	.4	4.2	453	.62	3720
JAN												
24...	33	1.6	63	2.7	150	210	19	.3	4.7	477	.65	2500
MAR												
11...	37	1.9	74	3.0	150	220	22	.3	5.1	502	.68	3880
APR												
15...	37	1.9	--	2.9	150	220	20	.3	5.2	495	.67	4910
MAY												
20...	38	1.4	--	1.6	87	82	8.9	.2	9.7	230	.31	7020
JUN												
04...	22	.6	--	1.2	62	43	4.7	.1	9.6	139	.19	3940
JUL												
22...	33	1.4	--	2.4	130	120	18	.3	4.8	327	.44	1720
AUG												
28...	34	1.6	--	2.6	130	190	21	.2	3.3	435	.59	2210
SEP												
18...	35	1.7	--	3.8	140	200	25	.3	3.2	453	.62	2260

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	BORON, DISSOLVED (UG/L AS B)
OCT			
23...	.23	.080	100
NOV			
16...	.26	.010	90
DEC			
03...	.29	.000	100
JAN			
24...	.36	.020	90
MAR			
11...	.28	.030	90
APR			
15...	.38	.090	80
MAY			
20...	.30	.050	90
JUN			
04...	.13	.160	20
JUL			
22...	.13	.010	60
AUG			
28...	.12	.010	130
SEP			
18...	.07	.030	90

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	730	720	730	830	1130	800	790	400	---	470	630	720
2	730	700	---	800	960	---	940	370	250	510	610	720
3	730	700	730	780	---	800	940	330	250	460	---	720
4	740	---	730	780	720	730	920	---	260	490	620	730
5	730	700	730	770	720	780	790	330	260	530	680	760
6	730	710	730	---	740	780	---	340	260	---	680	740
7	---	710	880	850	740	800	930	340	260	480	650	---
8	730	720	820	820	740	740	920	330	---	420	670	710
9	730	720	---	860	740	---	780	340	290	420	680	730
10	730	720	740	830	---	780	930	340	310	530	---	720
11	730	---	800	870	740	730	780	---	290	420	640	730
12	730	710	840	890	740	740	940	330	320	410	680	720
13	730	710	740	---	740	800	730	350	290	---	640	740
14	---	710	860	920	740	780	730	350	320	550	640	---
15	690	710	820	---	740	780	740	350	---	550	680	720
16	710	700	---	860	740	---	730	360	280	570	670	730
17	710	700	730	900	---	790	---	430	325	570	---	720
18	710	---	---	900	780	800	730	---	275	540	670	720
19	730	720	860	810	720	780	740	320	310	---	650	770
20	680	730	740	---	720	730	---	330	295	---	670	760
21	---	720	820	720	790	740	440	420	320	530	640	---
22	690	720	820	900	710	780	690	320	---	580	670	810
23	690	730	---	1030	790	---	440	330	320	590	750	720
24	730	730	730	940	---	930	400	420	315	590	---	750
25	720	---	850	720	690	790	400	---	305	610	730	830
26	710	730	830	720	780	930	380	250	315	600	740	720
27	710	730	---	---	790	910	---	250	315	---	740	760
28	---	730	730	720	700	790	440	250	315	580	790	---
29	710	730	730	720	700	940	370	250	---	620	780	790
30	710	730	---	720	---	---	350	250	310	610	860	820
31	720	---	860	1030	---	930	---	250	---	630	---	---
MEAN	718	717	---	834	764	803	691	331	---	533	687	745

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	7.0	2.0	2.0	1.0	5.5	5.0	12.5	---	16.0	24.0	19.0
2	16.0	8.0	---	1.5	2.0	---	4.0	12.0	11.5	17.0	24.0	17.0
3	15.0	7.0	4.0	1.0	---	4.0	5.0	11.0	12.0	18.0	---	18.0
4	16.0	---	3.5	.0	1.5	3.0	6.0	---	11.0	19.0	22.0	19.0
5	15.0	8.0	3.0	.5	1.0	4.0	7.0	10.0	12.0	20.0	23.0	18.0
6	14.0	7.0	2.0	---	.0	4.5	---	10.5	13.0	---	24.0	17.0
7	---	7.5	3.0	1.0	.5	5.0	6.0	9.0	12.0	22.0	25.0	---
8	14.0	6.0	2.0	2.0	1.0	4.5	7.0	8.0	---	20.0	24.0	19.0
9	15.0	7.0	---	2.5	2.0	---	8.0	7.0	12.0	22.0	25.0	20.0
10	16.0	8.0	3.5	3.0	---	5.0	9.0	7.5	13.0	23.0	---	18.0
11	15.0	---	4.0	3.5	1.5	5.5	8.0	---	14.0	24.0	23.0	17.0
12	14.0	6.0	3.0	3.0	2.0	6.0	9.0	6.0	13.0	24.0	22.0	18.0
13	14.5	7.0	2.0	---	3.0	6.5	10.0	8.0	14.0	---	23.0	18.0
14	---	6.0	2.5	4.5	4.0	7.0	9.0	7.0	14.5	25.0	22.0	---
15	13.0	5.0	2.0	---	3.0	6.5	8.0	6.0	---	24.0	24.0	17.0
16	12.0	6.0	---	5.0	2.0	---	9.0	9.0	15.0	25.0	25.0	16.0
17	11.5	5.0	1.0	5.0	---	7.0	---	10.0	15.5	24.0	---	17.0
18	11.0	---	---	4.5	2.0	6.5	9.0	---	15.0	25.0	22.0	17.0
19	10.0	5.0	1.5	4.0	3.0	7.0	10.0	9.0	14.5	---	19.0	16.0
20	11.0	5.5	2.0	---	2.5	6.0	---	12.0	15.0	---	18.0	16.0
21	---	4.0	3.0	4.5	3.0	7.0	12.0	11.0	14.0	22.0	19.0	---
22	9.0	4.5	2.0	4.0	4.0	6.0	13.0	9.0	---	24.0	20.0	16.0
23	10.0	4.0	---	5.0	4.5	---	12.0	12.0	14.0	25.0	20.0	15.0
24	11.0	3.0	1.5	4.5	---	8.0	13.0	13.0	14.5	23.0	---	16.0
25	10.0	---	1.0	4.0	4.0	7.0	12.0	---	15.0	23.0	19.0	17.0
26	9.0	3.5	1.0	5.0	5.0	6.0	12.5	14.0	15.5	23.0	18.0	16.0
27	10.0	1.5	---	---	4.5	7.0	---	12.0	16.0	---	17.0	---
28	---	2.0	1.5	5.0	4.5	6.0	12.0	10.0	16.5	24.0	17.0	---
29	8.0	1.0	1.0	4.0	5.0	5.0	11.5	11.0	---	23.0	18.0	14.0
30	9.0	1.5	---	.0	---	---	11.0	10.0	15.0	23.0	16.0	14.0
31	3.0	---	3.0	.0	---	5.0	---	12.0	---	22.0	---	---
MEAN	12.0	5.0	---	3.0	2.5	6.0	9.0	10.0	---	22.5	21.5	17.0

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

LOCATION.--Lat 40°35'20", long 109°27'53", in NW1/4SE1/4NE1/4 sec.5, T.3 S., R.22 E., Uintah County, Hydrologic Unit 14060002, on right bank 950 ft (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 September 1980.

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) Nov. 30, Dec. 12-15, 24, 1979, Apr. 8-13, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 314 ft (8.89 m^3/s) May 23, gage height, 3.06 ft (0.933 m); minimum daily, 11.0 ft^3/s (0.31 m^3/s) Nov. 30, Dec. 12-15, 24, Apr. 8-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	14	12	12	12	13	12	76	212	49	37	28
2	17	14	12	12	12	13	12	82	216	58	38	27
3	17	13	12	12	12	13	12	91	211	62	36	26
4	16	14	12	12	12	13	12	99	221	56	36	25
5	16	14	12	12	12	13	12	110	232	51	35	24
6	16	14	13	12	12	13	13	127	231	49	35	24
7	15	14	13	12	13	13	12	157	226	42	34	23
8	15	14	13	13	13	13	11	183	231	41	34	23
9	16	14	13	13	13	13	11	180	247	43	34	23
10	16	13	12	13	13	14	11	188	256	45	32	22
11	14	13	12	13	13	13	11	180	270	47	32	22
12	14	13	11	12	13	13	11	146	286	47	33	22
13	13	13	11	12	13	13	11	115	287	48	34	22
14	13	14	11	12	13	13	12	97	291	46	35	21
15	14	13	11	13	13	13	12	96	281	43	34	20
16	14	13	12	13	13	13	12	104	262	44	34	19
17	13	12	12	13	12	13	12	127	238	43	33	19
18	14	12	12	13	13	13	12	107	214	42	32	19
19	14	12	12	13	14	13	12	102	188	41	31	19
20	16	12	12	12	15	13	15	128	167	41	30	19
21	15	13	12	13	15	13	15	162	144	40	31	19
22	15	12	12	13	14	13	16	214	123	38	31	18
23	15	13	12	13	14	13	22	295	102	38	31	19
24	14	13	11	13	13	13	27	280	88	38	31	19
25	14	13	12	12	13	13	28	234	79	39	31	19
26	15	13	12	12	13	13	32	228	68	38	33	18
27	15	13	12	12	13	13	47	221	60	37	32	17
28	14	12	12	12	13	13	55	208	55	37	31	17
29	14	12	12	12	13	13	76	206	52	37	30	17
30	14	11	12	12	---	13	89	200	49	37	29	17
31	14	---	12	12	---	13	---	212	---	38	29	---
TOTAL	459	390	371	385	377	404	645	4955	5587	1355	1018	627
MEAN	14.8	13.0	12.0	12.4	13.0	13.0	21.5	160	186	43.7	32.8	20.9
MAX	17	14	13	13	15	14	89	295	291	62	38	28
MIN	13	11	11	12	12	13	11	76	49	37	29	17
AC-FT	910	774	736	764	748	801	1280	9830	11080	2690	2020	1240

WTR YR 1980 TOTAL 16573 MEAN 45.3 MAX 295 MIN 11 AC-FT 32870

09266500 ASHLEY CREEK NEAR VERNAL, UTAH

LOCATION.--Lat 40°34'39", long 109°37'17", in NE1/4NW1/4NE1/4 sec.12, T.3 S., R.20 E., Uintah County, Hydrologic Unit 14060002, on right bank 0.8 mi (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) National Geodetic Vertical Datum 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 except those for period of no gage-height record, which are fair. 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.--67 years (1913-80), 99.1 ft^3/s (2.807 m^3/s), 71,800 acre-ft/yr (88.5 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 discharges above base of 600 ft^3/s (17.0 m^3/s); and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 23	2100	1060	30.0	3.30	1.006
June 4	2200	*1430	40.5	3.94	1.201
June 9	2200	1300	36.8	3.79	1.155

Minimum, 7.6 ft^3/s (0.215 m^3/s) Apr. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	12	18	14	13	13	11	94	472	237	120	65
2	33	14	17	14	14	14	12	100	428	228	144	61
3	33	15	17	14	13	14	11	107	565	218	138	59
4	31	14	17	14	13	13	10	125	849	201	134	52
5	31	14	18	14	14	13	11	148	961	181	132	51
6	29	12	17	15	13	13	12	178	786	166	131	51
7	28	12	17	14	14	13	12	236	688	158	129	59
8	27	11	17	14	13	13	11	323	793	151	126	63
9	26	11	15	13	13	12	12	348	856	144	123	63
10	23	11	15	14	13	12	14	293	922	135	89	72
11	17	11	15	14	13	11	13	254	869	128	121	68
12	16	10	15	14	13	11	10	223	775	126	112	65
13	14	9.9	15	14	13	11	10	205	650	123	108	66
14	14	12	15	14	12	11	10	194	556	117	109	59
15	14	12	14	15	13	10	11	195	466	111	107	52
16	14	13	15	14	13	10	11	204	406	106	106	46
17	14	13	15	14	13	9.3	10	211	421	102	99	41
18	16	13	15	14	13	11	11	196	437	97	76	38
19	16	13	15	14	13	12	13	275	451	94	73	35
20	17	13	15	13	13	13	17	350	440	95	75	34
21	18	12	15	14	13	12	19	450	407	91	89	34
22	16	12	15	13	12	12	22	600	379	87	87	33
23	16	11	16	14	13	12	26	780	340	84	86	32
24	16	14	15	14	12	11	27	683	308	102	87	32
25	17	13	16	14	13	11	28	420	283	116	86	31
26	17	13	15	14	13	11	30	342	270	117	96	29
27	16	10	15	13	14	12	37	361	263	118	107	27
28	16	11	14	14	13	11	48	459	232	114	92	27
29	16	18	15	13	13	11	70	516	213	114	86	26
30	15	17	15	14	---	12	91	475	215	120	82	26
31	13	---	15	13	---	11	---	534	---	126	78	---
TOTAL	623	376.9	483	430	378	365.3	630	9879	15701	4107	3228	1397
MEAN	20.1	12.6	15.6	13.9	13.0	11.8	21.0	319	523	132	104	46.6
MAX	34	18	18	15	14	14	91	780	961	237	144	72
MIN	13	9.9	14	13	12	9.3	10	94	213	84	73	26
AC-FT	1240	748	958	853	750	725	1250	19590	31140	8150	6400	2770

CAL YR 1979 TOTAL 23762.9 MEAN 65.1 MAX 724 MIN 7.1 AC-FT 47130
WTR YR 1980 TOTAL 37598.2 MEAN 103 MAX 961 MIN 9.3 AC-FT 74580

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. 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 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	2.4	.00	.00	.00	.00	.13	.58	3.3	26	17	9.0
2	3.3	2.8	.00	.00	.00	.00	.14	.65	3.8	28	16	8.3
3	3.1	2.8	.00	.00	.00	.00	.15	.76	5.0	29	16	7.6
4	3.0	2.7	.00	.00	.00	.00	.16	.86	7.0	28	15	6.7
5	3.0	2.7	.00	.00	.00	.00	.17	.98	12	26	15	6.0
6	3.0	2.6	.00	.00	.00	.00	.18	1.1	10	24	15	5.6
7	2.7	2.6	.00	.00	.00	.00	.19	1.3	9.0	23	15	6.0
8	2.7	2.6	.00	.00	.00	.00	.20	1.6	11	22	15	7.3
9	2.7	2.5	.00	.00	.00	.00	.20	1.8	13	20	14	7.9
10	2.6	2.5	.00	.00	.00	.00	.20	2.3	17	20	14	9.5
11	2.6	2.5	.00	.00	.00	.00	.21	2.2	23	20	14	10
12	2.6	1.0	.00	.00	.00	.00	.21	2.1	20	19	13	5.2
13	2.6	.00	.00	.00	.00	.00	.21	1.9	16	19	13	3.8
14	2.6	.00	.00	.00	.00	.00	.22	1.8	15	18	13	3.7
15	2.6	.00	.00	.00	.00	.00	.23	1.6	14	18	13	3.8
16	2.6	.00	.00	.00	.00	.00	.24	1.4	15	18	13	3.8
17	2.6	.00	.00	.00	.00	.00	.25	1.3	16	18	13	3.7
18	3.5	.00	.00	.00	.00	.00	.26	1.2	16	18	12	3.7
19	4.6	.00	.00	.00	.00	.00	.27	1.0	15	17	12	3.7
20	2.9	.00	.00	.00	.00	.00	.29	1.3	13	17	12	3.7
21	5.9	.00	.00	.00	.00	.11	.30	2.0	13	17	11	3.7
22	6.2	.00	.00	.00	.00	.11	.33	2.8	11	17	11	3.6
23	5.0	.00	.00	.00	.00	.11	.38	5.0	20	17	10	3.5
24	4.2	.00	.00	.00	.00	.11	.37	4.5	23	17	9.8	3.4
25	4.2	.00	.00	.00	.00	.11	.37	3.7	21	17	9.7	3.4
26	3.4	.00	.00	.00	.00	.11	.40	3.0	23	16	9.9	3.4
27	2.8	.00	.00	.00	.00	.11	.42	2.0	22	16	11	3.3
28	3.0	.00	.00	.00	.00	.11	.48	2.5	25	16	11	3.2
29	2.7	.00	.00	.00	.00	.11	.52	3.2	27	16	10	3.2
30	2.6	.00	.00	.00	---	.11	.65	3.8	25	20	10	3.2
31	2.5	---	.00	.00	---	.11	---	4.2	---	18	9.4	---
TOTAL	101.4	29.70	.00	.00	.00	1.21	8.33	64.43	464.1	615	392.8	152.9
MEAN	3.27	.99	.000	.000	.000	.039	.28	2.08	15.5	19.8	12.7	5.10
MAX	6.2	2.8	.00	.00	.00	.11	.65	5.0	27	29	17	10
MIN	2.5	.00	.00	.00	.00	.00	.13	.58	3.3	16	9.4	3.2
AC-FT	201	59	.00	.00	.00	2.4	17	128	921	1220	779	303

CAL YR 1979 TOTAL 2003.35 MEAN 5.49 MAX 28 MIN .00 AC-FT 3970
WTR YR 1980 TOTAL 1829.87 MEAN 5.00 MAX 29 MIN .00 AC-FT 3630

NOTE: No gage-height record Apr. 25 to June 15.

09268500 NORTH FORK OF DRY FORK NEAR DRY FORK, UTAH

LOCATION.--Lat 40°38'34", long 109°48'37", in 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) National Geodetic Vertical Datum of 1929 (levels by Utah Water and Power Board).

REMARKS.--Records good except those for period of no gage-height record Nov. 11 to May 7, which are poor.

AVERAGE DISCHARGE.--34 years, 6.59 ft^3/s (0.187 m^3/s), 4,770 acre-ft/yr (5.88 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, 132 ft^3/s (3.74 m^3/s) June 11, gage height, 3.23 ft (0.985 m), base discharge, 50 ft^3/s (1.42 m^3/s); minimum daily, 0.30 ft^3/s (0.008 m^3/s) Feb. 1-5, 10-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.0	.54	.39	.30	.46	.48	5.2	39	35	9.0	4.0
2	1.4	1.0	.55	.39	.30	.46	.48	5.8	38	36	8.4	3.8
3	1.6	1.0	.57	.39	.30	.46	.48	6.8	46	34	7.7	3.7
4	1.7	1.0	.59	.39	.30	.46	.49	8.4	62	32	7.4	3.6
5	1.6	1.1	.63	.37	.30	.47	.49	10	70	30	7.1	3.5
6	1.6	1.1	.65	.35	.32	.46	.50	11	71	27	6.8	3.4
7	1.6	1.1	.65	.35	.35	.46	.50	13	69	26	6.5	3.5
8	1.6	1.0	.65	.34	.34	.48	.50	18	79	25	6.3	3.8
9	1.6	.94	.65	.33	.32	.49	.50	17	91	23	6.2	4.1
10	1.6	.85	.65	.33	.30	.50	.50	15	101	22	5.9	6.3
11	1.5	.79	.60	.32	.30	.50	.50	13	125	21	5.7	4.4
12	1.5	.74	.54	.33	.30	.50	.47	11	105	20	5.8	4.9
13	1.5	.70	.60	.35	.30	.49	.50	9.9	95	19	5.7	4.6
14	1.5	.70	.60	.38	.34	.50	.54	9.3	87	18	5.6	3.9
15	1.5	.72	.60	.40	.40	.50	.57	9.5	73	18	5.8	3.7
16	1.5	.74	.60	.37	.40	.42	.55	9.3	66	17	5.5	3.6
17	1.5	.74	.59	.36	.39	.47	.62	9.2	66	15	5.2	3.6
18	1.7	.74	.58	.36	.42	.50	.75	8.9	65	14	5.0	3.7
19	1.6	.73	.57	.35	.45	.50	.88	8.9	63	14	4.8	3.7
20	1.6	.69	.56	.33	.44	.50	1.1	10	58	13	4.7	3.7
21	1.5	.66	.55	.34	.43	.49	1.4	16	55	13	4.8	3.8
22	1.4	.63	.53	.35	.43	.48	1.6	28	53	12	4.6	3.7
23	1.5	.60	.51	.36	.43	.48	1.9	43	50	13	4.7	3.7
24	1.6	.60	.47	.35	.40	.49	1.8	37	47	13	4.5	3.7
25	1.6	.70	.42	.34	.44	.50	2.0	28	44	12	5.1	3.7
26	1.6	.72	.36	.34	.45	.49	2.4	25	42	11	5.0	3.5
27	1.5	.70	.39	.35	.46	.50	2.9	24	40	9.9	4.5	3.5
28	1.3	.63	.43	.35	.46	.50	3.6	29	37	9.4	4.2	3.4
29	1.1	.57	.46	.35	.46	.50	4.5	33	35	9.1	4.0	3.4
30	1.0	.55	.43	.32	---	.49	5.4	34	35	11	3.9	3.3
31	1.0	---	.41	.31	---	.49	---	41	---	9.7	4.1	---
TOTAL	46.2	23.74	16.93	10.94	10.83	14.99	38.90	547.2	1907	582.1	174.5	115.2
MEAN	1.49	.79	.55	.35	.37	.48	1.30	17.7	63.6	18.8	5.63	3.84
MAX	1.7	1.1	.65	.40	.46	.50	5.4	43	125	36	9.0	6.3
MIN	1.0	.55	.36	.31	.30	.42	.47	5.2	35	9.1	3.9	3.3
AC-FT	92	47	34	22	21	30	77	1090	3780	1150	346	228

CAL YR 1979 TOTAL 1907.18 MEAN 5.23 MAX 59 MIN .31 AC-FT 3780
WTR YR 1980 TOTAL 3488.53 MEAN 9.53 MAX 125 MIN .30 AC-FT 6920

09268900 BROWNIE CANYON ABOVE SINKS, NEAR DRY FORK, UTAH

LOCATION.--Lat 40°39'34", long 109°45'01", in SW1/4NE1/4 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 period, which are fair. No diversion above station.

AVERAGE DISCHARGE.--20 years, 12.8 ft^3/s (0.362 m^3/s), 9,270 acre-ft/yr (11.4 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.--Peak discharges above base of 100 ft^3/s (2.83 m^3/s); maximum discharge, 310 ft^3/s (8.78 m^3/s) June 10, gage height, 3.25 ft (0.991 m); minimum daily, 0.49 ft^3/s (0.014 m^3/s) Feb. 1-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	2.0	1.7	.63	.49	.69	.68	8.0	59	57	14	6.4
2	2.5	2.0	1.8	.60	.49	.68	.69	8.4	56	60	13	6.3
3	2.5	2.1	1.8	.58	.49	.67	.70	9.1	73	57	12	6.2
4	2.5	2.3	1.9	.57	.49	.70	.70	12	97	54	12	6.1
5	2.5	2.4	1.9	.56	.49	.72	.70	17	108	51	11	5.9
6	2.5	2.5	1.9	.54	.52	.68	.68	18	90	47	11	5.7
7	2.5	2.3	1.9	.53	.58	.68	.66	26	95	43	11	5.7
8	2.5	2.4	1.9	.52	.52	.70	.65	35	114	39	10	6.0
9	2.5	2.4	1.9	.51	.50	.72	.70	35	136	35	10	6.1
10	2.5	2.3	1.8	.50	.50	.74	.70	27	154	31	9.9	8.5
11	2.4	2.3	1.7	.50	.50	.74	.70	20	180	28	9.6	6.6
12	2.4	2.3	1.6	.51	.52	.73	.65	17	162	27	9.3	7.2
13	2.4	2.3	1.5	.54	.54	.72	.70	14	152	26	9.1	6.9
14	2.4	2.3	1.6	.58	.58	.76	.84	12	136	25	9.0	6.1
15	2.4	2.3	1.6	.66	.64	.78	.91	12	116	24	9.0	5.8
16	2.4	2.2	1.6	.62	.60	.60	.84	12	111	23	8.8	5.7
17	2.4	2.2	1.5	.58	.62	.68	.99	12	90	23	8.7	5.7
18	2.7	2.2	1.5	.57	.66	.74	1.3	10	87	21	8.3	5.7
19	2.8	2.3	1.4	.55	.70	.76	1.6	10	85	20	8.0	5.5
20	3.0	2.1	1.4	.52	.66	.76	2.1	15	84	19	7.9	5.5
21	2.8	2.0	1.3	.52	.66	.75	2.2	34	82	18	7.7	5.5
22	2.9	1.8	1.3	.54	.66	.68	2.4	48	79	17	7.6	5.5
23	2.6	1.7	1.2	.56	.66	.67	2.6	76	77	17	7.4	5.5
24	2.7	1.8	1.1	.55	.62	.69	2.4	68	73	17	7.3	5.5
25	2.7	2.0	1.0	.52	.64	.70	2.6	44	70	17	8.1	5.5
26	2.6	2.1	.70	.52	.66	.73	3.7	30	66	15	8.2	5.4
27	2.5	2.0	.62	.54	.70	.75	3.7	29	62	14	7.5	5.3
28	2.5	1.9	.68	.55	.72	.70	4.9	39	60	14	6.9	5.3
29	2.2	1.8	.74	.56	.72	.73	7.4	54	58	13	6.6	5.2
30	2.4	1.7	.76	.53	---	.68	8.4	52	56	18	6.6	5.0
31	2.1	---	.70	.50	---	.64	---	67	---	14	6.4	---
TOTAL	78.4	64.0	44.00	17.06	17.13	21.97	57.79	870.5	2868	884	281.9	177.3
MEAN	2.53	2.13	1.42	.55	.59	.71	1.93	28.1	95.6	28.5	9.09	5.91
MAX	3.0	2.5	1.9	.66	.72	.78	8.4	76	180	60	14	8.5
MIN	2.1	1.7	.62	.50	.49	.60	.65	8.0	56	13	6.4	5.0
AC-FT	156	127	87	34	34	44	115	1730	5690	1750	559	352

CAL YR 1979 TOTAL 3468.88 MEAN 9.50 MAX 128 MIN .40 AC-FT 6880
WTR YR 1980 TOTAL 5382.05 MEAN 14.7 MAX 180 MIN .49 AC-FT 10680

09270500 DRY FORK AT MOUTH, NEAR DRY FORK, UTAH

LOCATION.--Lat 40°31'35", long 109°36'18", in SE1/4NE1/4SW1/4 sec.30, T.3 S., R.21 E., Uintah County, Hydrologic Unit 14060002, on left bank 900 ft (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) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--26 years, 25.6 ft^3/s (0.725 m^3/s), 18,550 acre-ft/yr (22.9 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.--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)
June 11	2000	*1070	30.3	6.01	1.832
June 20	0300	695	19.7	5.25	1.600

Minimum discharge, 0.32 ft^3/s (0.009 m^3/s) Oct. 12, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.74	2.0	1.6	1.6	1.4	3.0	2.5	2.2	121	225	15	1.4
2	.45	2.0	1.7	1.6	1.4	3.1	2.3	2.0	124	245	14	1.3
3	.54	2.0	1.8	1.6	1.5	3.2	2.2	2.1	138	230	10	1.3
4	.68	2.2	1.8	1.6	1.5	3.4	2.3	2.4	202	199	6.6	1.3
5	.79	2.3	1.9	1.2	1.5	3.4	2.9	3.5	286	172	5.2	1.2
6	.79	2.3	1.9	1.6	1.5	3.0	3.3	2.1	322	146	5.7	1.4
7	.67	2.3	1.9	1.6	1.5	2.7	3.1	1.9	328	131	5.2	1.6
8	.71	2.3	1.9	1.6	1.6	2.6	2.7	2.2	350	122	3.9	2.2
9	.82	2.2	1.9	1.6	1.7	2.5	3.1	3.4	416	114	3.5	2.9
10	.93	2.1	1.9	1.2	1.8	2.6	3.1	14	582	107	3.3	5.2
11	.73	2.1	1.7	1.5	1.9	2.6	2.6	23	751	102	2.8	4.3
12	.54	2.1	1.9	1.5	2.0	2.8	2.4	29	744	97	2.4	2.9
13	.91	2.1	2.0	1.5	2.1	2.5	2.2	26	591	85	2.4	3.0
14	.37	2.1	2.0	1.6	2.1	2.7	2.2	20	466	72	2.5	2.9
15	.68	2.1	2.0	1.6	2.1	3.0	1.6	23	374	72	3.1	2.8
16	.64	2.1	2.0	1.5	2.2	2.8	1.0	23	270	63	3.1	2.6
17	.48	2.1	1.9	1.5	2.2	2.5	1.0	22	294	56	3.5	2.5
18	.63	2.1	1.9	1.5	3.0	2.6	1.0	22	315	46	2.9	2.4
19	.45	2.1	1.8	1.5	2.8	2.7	1.0	21	403	41	2.2	2.2
20	1.5	2.0	1.8	1.5	3.2	2.9	1.0	20	450	41	2.2	2.1
21	.97	1.9	1.8	1.5	2.9	3.0	1.0	22	455	37	2.2	1.8
22	1.1	1.6	1.8	1.5	2.7	3.0	1.1	45	424	36	1.9	1.8
23	.70	1.7	1.7	1.5	2.6	3.1	1.1	65	403	32	1.5	1.8
24	1.5	1.8	1.7	1.5	2.7	3.1	1.1	74	360	35	1.7	1.7
25	1.6	1.9	1.1	1.5	2.8	2.9	1.2	68	307	36	1.9	1.8
26	1.6	2.0	1.5	1.5	2.7	2.6	1.2	58	266	30	1.8	1.7
27	1.7	1.8	1.6	1.5	2.7	2.7	1.4	56	250	18	1.6	1.7
28	1.8	1.7	1.6	1.5	2.8	2.6	1.4	60	230	19	1.5	1.7
29	1.8	1.6	1.6	1.5	2.9	2.5	1.6	84	220	18	1.4	1.7
30	1.8	1.3	1.6	1.4	---	2.8	3.5	84	210	16	1.4	1.8
31	2.0	---	1.6	1.1	---	2.7	---	114	---	16	1.4	---
TOTAL	30.62	59.9	54.9	46.4	63.8	87.6	58.1	994.8	10652	2659	117.8	65.0
MEAN	.99	2.00	1.77	1.50	2.20	2.83	1.94	32.1	355	85.8	3.80	2.17
MAX	2.0	2.3	2.0	1.6	3.2	3.4	3.5	114	751	245	15	5.2
MIN	.37	1.3	1.1	1.1	1.4	2.5	1.0	1.9	121	16	1.4	1.2
AC-FT	61	119	109	92	127	174	115	1970	21130	5270	234	129

CAL YR 1979 TOTAL 6267.70 MEAN 17.2 MAX 418 MIN .37 AC-FT 12430
WTR YR 1980 TOTAL 14889.92 MEAN 40.7 MAX 751 MIN .37 AC-FT 29530

09271500 ASHLEY CREEK NEAR JENSEN, UTAH

LOCATION.--Lat 40°22'29", long 109°24'27", in NE1/4NW1/4NE1/4 sec.23, T.5 S., R.22 E., Uintah County, Hydrologic Unit 14060002, on right bank just downstream from bridge on U.S. Highway 40, 3 mi (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) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter months, which are fair. Flow increased since July 1940 by water released from Oaks Park Reservoir, capacity, 6,250 acre-ft (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 Water and Power Resources Service 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, 1,430 ft^3/s (40.5 m^3/s) June 11, gage height, 5.68 ft (1.731 m); minimum, 2.9 ft^3/s (0.082 m^3/s) Oct. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	8.2	16	19	15	50	33	20	14	138	20	20
2	5.0	10	17	19	17	61	30	16	12	136	21	17
3	5.0	12	18	19	17	57	27	13	11	186	28	14
4	5.4	13	20	18	17	60	27	9.9	190	200	26	12
5	5.4	14	21	17	18	59	25	8.3	382	156	21	11
6	4.8	15	21	19	19	59	23	6.5	433	118	18	12
7	4.6	15	21	20	25	53	19	7.5	323	98	11	16
8	4.6	15	20	20	22	52	20	22	401	85	9.5	26
9	4.2	17	19	21	19	46	21	16	788	67	7.2	32
10	4.2	16	18	22	18	43	20	25	950	57	3.6	46
11	4.4	16	17	18	21	42	19	27	1110	45	4.7	50
12	4.4	15	16	19	25	49	18	29	1140	41	4.5	42
13	4.2	14	17	20	27	44	18	26	962	35	5.2	37
14	4.4	17	19	21	29	40	19	25	792	30	4.1	31
15	4.2	18	20	23	32	39	20	23	640	25	8.0	36
16	3.8	18	21	22	31	35	22	17	466	28	12	38
17	3.1	20	22	21	30	30	20	16	462	16	9.5	31
18	3.8	22	21	22	32	30	17	18	546	14	8.9	27
19	4.8	21	20	22	34	30	15	13	580	13	7.5	26
20	22	19	19	20	38	29	14	12	632	16	7.2	27
21	25	16	19	22	36	29	13	24	560	18	8.2	24
22	15	14	19	21	35	28	14	114	528	18	8.2	23
23	13	15	18	20	34	27	13	271	469	18	9.1	21
24	11	16	17	20	34	26	12	266	413	19	9.1	23
25	13	17	16	20	33	28	12	33	357	23	13	23
26	13	19	15	20	34	28	11	16	287	20	17	24
27	12	18	17	17	37	27	9.6	13	276	18	17	23
28	12	17	19	19	40	24	10	13	225	21	18	23
29	9.6	16	20	20	43	21	7.9	13	177	18	20	24
30	8.2	16	20	21	---	23	15	9.8	140	18	18	27
31	8.6	---	19	18	---	27	---	22	---	16	19	---
TOTAL	247.7	479.2	582	620	812	1196	544.5	1145.0	14266	1711	393.5	786
MEAN	7.99	16.0	18.8	20.0	28.0	38.6	18.2	36.9	476	55.2	12.7	26.2
MAX	25	22	22	23	43	61	33	271	1140	200	28	50
MIN	3.1	8.2	15	17	15	21	7.9	6.5	11	13	3.6	11
AC-FT	491	950	1150	1230	1610	2370	1080	2270	28300	3390	781	1560

CAL YR 1979 TOTAL 8719.7 MEAN 23.9 MAX 375 MIN 1.5 AC-FT 17300
WTR YR 1980 TOTAL 22782.9 MEAN 62.2 MAX 1140 MIN 3.1 AC-FT 45190

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

LOCATION.--Lat 40°26'55", long 110°58'30", in SW1/4SW1/4 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 current year.

REVISED RECORDS.--WRD 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.--25 years (1950-68, 1975-80), 37.2 ft^3/s (1.053 m^3/s), 26,950 acre-ft/yr (33.2 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.--Peak discharge above base of 300 ft^3/s (8.50 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage Height (ft)	Gage Height (m)
May 22	2300	414	11.7	3.86	1.177
June 10	2400	*565	16.0	4.43	1.350

Minimum daily, 7.2 ft^3/s (0.204 m^3/s) several days in Dec. and Jan.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	11	11	7.2	8.0	8.6	9.4	92	314	118	24	16
2	9.5	12	11	7.2	8.1	8.6	9.4	99	299	115	23	16
3	9.5	12	11	7.2	8.4	8.9	9.6	120	282	106	22	15
4	9.5	12	10	7.2	8.2	8.8	9.5	163	340	97	21	15
5	9.5	11	9.9	7.2	8.2	8.9	9.8	171	368	88	21	14
6	9.5	8.8	9.5	7.4	8.2	8.6	9.8	190	368	80	20	14
7	9.5	9.4	9.5	7.6	8.3	8.8	9.1	216	353	78	20	15
8	9.5	8.2	9.3	7.6	8.4	8.9	9.5	223	373	78	20	17
9	9.5	8.2	8.9	7.8	8.4	9.1	9.5	214	406	70	19	18
10	9.5	8.5	8.6	8.0	8.4	9.4	10	167	429	67	19	19
11	10	9.0	8.6	8.3	8.4	9.7	10	142	440	63	18	18
12	10	9.0	8.6	8.5	8.5	9.5	10	128	427	58	18	18
13	9.5	9.0	8.6	8.5	8.4	9.5	11	115	390	55	18	16
14	9.5	9.0	8.6	8.5	8.4	9.5	12	114	356	53	18	15
15	9.3	9.0	8.6	8.5	8.5	9.1	14	123	313	49	18	15
16	9.6	9.0	8.4	8.5	8.0	9.4	16	129	292	45	18	14
17	9.6	9.0	8.4	8.7	8.0	9.4	19	126	280	41	18	14
18	9.5	9.0	8.4	8.4	8.1	9.4	24	128	268	39	17	13
19	11	9.0	8.4	8.1	8.3	9.5	30	158	261	39	17	12
20	13	9.0	8.4	8.1	8.3	9.5	39	228	244	37	19	12
21	11	9.2	8.0	8.1	8.1	9.5	46	321	226	35	18	13
22	10	9.2	8.0	8.1	8.8	9.5	56	378	210	33	17	13
23	11	9.2	8.0	8.1	8.4	9.5	60	376	194	33	16	13
24	11	9.2	7.4	8.1	8.6	9.4	51	346	181	31	17	13
25	11	9.2	7.2	8.1	8.7	9.5	66	297	168	30	18	12
26	11	9.2	7.2	8.3	8.7	9.3	87	263	157	31	19	12
27	11	9.2	7.2	8.0	8.7	9.2	92	258	144	29	18	12
28	10	10	7.2	8.0	8.6	9.2	112	270	132	27	16	12
29	11	11	7.2	8.0	8.6	9.2	123	287	126	27	15	12
30	9.8	12	7.2	8.0	---	9.1	104	299	124	27	15	12
31	9.6	---	7.2	8.0	---	9.2	---	321	---	25	16	---
TOTAL	312.4	288.5	265.5	247.3	242.7	285.7	1077.6	6462	8465	1704	573	430
MEAN	10.1	9.62	8.56	7.98	8.37	9.22	35.9	208	282	55.0	18.5	14.3
MAX	13	12	11	8.7	8.8	9.7	123	378	440	118	24	19
MIN	9.3	8.2	7.2	7.2	8.0	8.6	9.1	92	124	25	15	12
AC-FT	620	572	527	491	481	567	2140	12820	16790	3380	1140	853

CAL YR 1979 TOTAL 10858.6 MEAN 29.7 MAX 490 MIN 7.0 AC-FT 21540
WTR YR 1980 TOTAL 20353.7 MEAN 55.6 MAX 440 MIN 7.2 AC-FT 40370

09275500 WEST FORK DUCHESNE RIVER NEAR HANNA, UTAH

LOCATION.--Lat 40°27'01", long 110°53'01", in SE1/4NE1/4SE1/4 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, except for period of no gage-height record, Oct. 1 to Nov. 29, which are fair. One small diversion for irrigation of about 100 acres (405,000 hm^2) above station.

AVERAGE DISCHARGE.--36 years (1922-23, 1945-80), 48.0 ft^3/s (1.36 m^3/s), 34,780 acre-ft/yr (42.9 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, but may have been lower during periods of no gage-height record.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 300 ft^3/s (8.50 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage Height (ft)	Gage Height (m)
May 23	0100	446	12.6	3.20	0.975
June 5	0100	443	12.5	3.19	.972
June 11	2400	*530	15.0	3.50	1.067

Minimum daily discharge, 10 ft^3/s (0.283 m^3/s) Jan. 9-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	15	18	12	12	13	13	123	293	145	44	30
2	14	17	16	11	12	13	13	142	296	143	42	30
3	14	18	15	11	12	13	13	163	293	133	40	28
4	14	17	14	11	12	13	13	210	357	122	39	28
5	14	17	15	11	12	13	14	215	381	112	38	26
6	14	16	15	11	12	13	14	233	379	103	38	26
7	14	15	15	11	12	13	14	244	335	99	36	28
8	14	15	14	11	12	13	14	244	387	101	36	32
9	14	14	14	10	12	13	14	252	407	95	35	34
10	14	14	14	10	13	13	15	186	449	90	34	37
11	14	14	14	10	13	13	14	179	424	84	34	34
12	14	14	14	10	13	13	15	158	435	79	29	34
13	14	14	14	10	13	13	17	138	396	77	33	31
14	14	14	14	11	13	14	20	132	368	74	33	29
15	14	14	14	13	13	13	21	148	335	69	33	28
16	14	14	14	13	12	13	24	158	312	65	35	27
17	15	14	14	15	12	13	28	145	304	62	36	27
18	16	14	14	13	12	13	36	148	295	59	34	28
19	18	14	14	12	12	13	44	179	291	57	34	28
20	21	14	14	12	12	13	57	223	277	55	35	28
21	18	14	13	12	12	13	64	320	261	53	33	29
22	17	14	13	12	13	13	79	368	245	51	31	29
23	16	14	13	12	13	13	82	379	231	53	30	28
24	16	15	12	12	13	13	75	339	217	54	32	28
25	16	15	12	12	13	13	96	293	203	52	34	26
26	16	17	11	13	13	13	107	263	188	52	37	25
27	16	18	12	13	13	13	109	258	176	49	34	25
28	16	19	12	13	13	13	135	268	162	45	30	25
29	15	19	12	12	13	13	153	282	151	45	28	25
30	15	19	12	12	---	13	145	287	151	47	27	26
31	14	---	12	12	---	13	---	285	---	44	29	---
TOTAL	469	462	424	363	362	404	1458	6962	8999	2369	1063	859
MEAN	15.1	15.4	13.7	11.7	12.5	13.0	48.6	225	300	76.4	34.3	28.6
MAX	21	19	18	15	13	14	153	379	449	145	44	37
MIN	14	14	11	10	12	13	13	123	151	44	27	25
AC-FT	930	916	841	720	718	801	2890	13810	17850	4700	2110	1700

CAL YR 1979 TOTAL 14878 MEAN 40.8 MAX 435 MIN 11 AC-FT 29510
WTR YR 1980 TOTAL 24194 MEAN 66.1 MAX 449 MIN 10 AC-FT 47990

09276000 WOLF CREEK ABOVE RHOADES CANYON NEAR HANNA, UTAH

LOCATION.--Lat 40°28'16", long 110°55'05", in NE1/4SW1/4NW1/4 sec.21, T.1 N., R.9 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060003, Wasatch National Forest, on left bank 1.5 mi (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 except for period of no gage-height record, Jan. 12 to Mar. 12, which are fair. No diversions above station.

AVERAGE DISCHARGE.--35 years, 7.23 ft^3/s (0.205 m^3/s) 5,380 acre-ft/yr (6.63 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.--Peak discharge above base of 25 ft^3/s 0.71 m^3/s), maximum discharge, 68 ft^3/s (1.93 m^3/s) June 11, gage height, 2.51 ft (0.765 m); minimum daily, 2.4 ft^3/s (0.07 m^3/s) many days in Jan. and Feb.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	3.3	3.0	2.8	2.4	2.6	2.7	4.9	19	20	8.9	6.6
2	3.7	3.3	3.0	2.8	2.4	2.6	2.7	4.8	19	20	8.9	6.4
3	3.7	3.3	3.0	2.7	2.4	2.6	2.8	4.8	20	19	8.9	6.3
4	3.7	3.3	2.9	2.8	2.4	2.7	2.8	5.1	28	17	8.9	6.2
5	3.7	3.3	2.9	2.8	2.4	2.7	2.8	5.6	32	17	8.8	6.1
6	3.7	3.3	2.9	2.8	2.4	2.7	2.8	5.9	34	16	8.8	6.1
7	3.5	3.2	2.8	2.8	2.4	2.7	2.8	5.9	36	17	8.6	6.3
8	3.5	3.2	2.8	2.8	2.4	2.7	2.8	5.9	39	16	8.5	6.2
9	3.5	3.2	2.8	2.8	2.4	2.7	2.8	7.1	43	15	8.5	6.2
10	3.5	3.2	2.8	2.8	2.4	2.7	2.8	11	52	14	8.4	6.4
11	3.5	3.2	2.8	2.8	2.4	2.7	2.8	9.0	48	14	8.4	6.3
12	3.5	3.2	2.8	2.8	2.4	2.7	2.8	7.3	41	13	8.0	6.0
13	3.5	3.2	2.8	2.8	2.4	2.7	2.9	6.2	39	13	7.6	5.9
14	3.5	3.2	2.8	2.8	2.4	2.7	3.0	5.9	35	13	7.6	5.9
15	3.5	3.1	2.8	2.8	2.5	2.7	3.3	5.6	32	12	7.5	5.8
16	3.5	3.1	2.8	2.8	2.6	2.7	3.5	5.3	31	12	7.5	5.8
17	3.5	3.1	2.8	2.8	2.6	2.7	3.5	5.3	31	11	7.3	5.9
18	3.5	3.1	2.8	2.8	2.6	2.7	3.6	5.2	29	11	7.3	5.5
19	3.5	3.0	2.8	2.7	2.6	2.7	3.8	6.2	28	11	7.4	5.6
20	3.7	3.0	2.8	2.6	2.6	2.7	3.9	10	28	10	7.3	5.8
21	3.5	3.0	2.8	2.5	2.6	2.7	4.1	15	27	10	7.1	5.9
22	3.5	3.0	2.8	2.4	2.6	2.7	4.2	19	26	9.8	7.0	5.7
23	3.5	3.0	2.8	2.4	2.6	2.7	4.2	22	24	10	7.2	5.7
24	3.5	3.0	2.8	2.4	2.6	2.7	4.0	19	23	9.9	6.9	5.6
25	3.3	3.0	2.8	2.4	2.6	2.7	4.0	16	23	9.8	7.5	5.6
26	3.3	3.0	2.8	2.4	2.6	2.7	4.2	14	21	9.5	7.1	5.9
27	3.3	3.0	2.8	2.4	2.6	2.7	4.2	13	22	9.3	6.9	5.9
28	3.3	3.0	2.8	2.4	2.6	2.7	4.5	15	21	9.3	6.8	5.8
29	3.3	3.0	2.8	2.4	2.6	2.7	4.8	16	21	9.3	6.7	5.7
30	3.3	3.0	2.7	2.4	---	2.7	5.0	16	20	9.3	6.7	5.6
31	3.3	---	2.7	2.4	---	2.7	---	17	---	9.1	6.7	---
TOTAL	108.5	93.8	87.5	82.1	72.5	83.4	104.1	309.0	892	396.3	239.7	178.7
MEAN	3.50	3.13	2.82	2.65	2.50	2.69	3.47	9.97	29.7	12.8	7.73	5.96
MAX	3.7	3.3	3.0	2.8	2.6	2.7	5.0	22	52	20	8.9	6.6
MIN	3.3	3.0	2.7	2.4	2.4	2.6	2.7	4.8	19	9.1	6.7	5.5
AC-FT	215	186	174	163	144	165	206	613	1770	786	475	354

CAL YR 1979 TOTAL 1805.8 MEAN 4.95 MAX 32 MIN 2.7 AC-FT 3580
WTR YR 1980 TOTAL 2647.6 MEAN 7.23 MAX 52 MIN 2.4 AC-FT 5250

09277500 DUCHESNE RIVER NEAR TABIONA, UTAH

LOCATION.--Lat 40°18'01", long 110°36'06", in SE1/4SW1/4SE1/4 sec.18, T.2 S., R.6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank on upstream site of bridge on State Highway 35, 6 mi (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 good. Several diversions above station for irrigation, including a transmountain diversion through Duchesne Tunnel 20 mi (32 km) upstream.

AVERAGE DISCHARGE.--62 years, 198 ft^3/s (5.607 m^3/s), 143,500 acre-ft/yr (177 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.--Peak discharge above base of 900 ft^3/s (25.5 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage Height (ft)	Gage Height (m)
May 23	0900	1340	37.9	4.45	1.356
June 11	0700	*1910	54.1	5.17	1.576

Minimum discharge, 46 ft^3/s (1.30 m^3/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	104	105	72	82	83	80	414	797	323	85	87
2	61	99	100	75	82	84	80	403	817	358	78	86
3	79	101	95	73	81	94	83	417	791	323	69	85
4	83	100	92	76	81	87	88	481	905	302	65	84
5	80	113	91	71	78	86	95	555	1040	283	67	82
6	76	103	90	72	81	88	100	581	1130	267	80	82
7	76	108	91	75	83	85	94	603	1080	270	85	83
8	76	106	91	75	70	82	87	630	1160	312	85	93
9	76	106	88	76	80	80	101	837	1310	302	80	115
10	78	105	87	80	82	82	108	786	1480	276	74	183
11	80	110	81	75	83	82	106	691	1630	248	80	177
12	78	102	83	97	83	82	105	605	1680	236	86	160
13	80	107	82	101	83	74	106	523	1550	230	85	148
14	82	105	82	100	85	87	119	486	1400	207	83	143
15	81	102	82	91	81	87	136	519	1220	190	81	141
16	82	102	82	88	79	78	146	504	1070	174	86	139
17	84	102	82	87	79	74	156	491	1080	164	87	140
18	88	113	81	87	88	79	171	473	1130	146	87	143
19	94	99	82	81	87	82	193	520	1140	138	86	152
20	115	103	80	78	86	82	228	647	1220	122	91	146
21	93	98	80	75	82	86	247	843	1120	116	89	140
22	75	96	80	79	83	80	264	1090	1140	110	88	135
23	74	101	80	80	80	83	282	1280	1030	114	89	131
24	76	98	76	95	75	82	258	1200	974	117	90	127
25	79	101	80	79	74	80	306	998	854	116	101	123
26	79	103	79	75	80	79	336	847	583	109	114	121
27	72	97	75	86	86	80	336	761	470	100	110	117
28	74	97	80	81	85	79	373	755	407	96	100	113
29	72	104	82	86	90	80	434	793	355	89	90	113
30	92	105	80	84	---	80	479	758	348	89	88	111
31	100	---	74	85	---	77	---	766	---	85	88	---
TOTAL	2486	3090	2613	2535	2369	2544	5697	21257	30911	6012	2667	3700
MEAN	80.2	103	84.3	81.8	81.7	82.1	190	686	1030	194	86.0	123
MAX	115	113	105	101	90	94	479	1280	1680	358	114	183
MIN	51	96	74	71	70	74	80	403	348	85	65	82
AC-FT	4930	6130	5180	5030	4700	5050	11300	42160	61310	11920	5290	7340

CAL YR 1979 TOTAL 45669 MEAN 125 MAX 963 MIN 43 AC-FT 90580
WTR YR 1980 TOTAL 85881 MEAN 235 MAX 1680 MIN 51 AC-FT 170300

09277800 ROCK CREEK ABOVE SOUTH FORK, NEAR HANNA, UTAH

LOCATION.--Lat 40°33'27", long 110°41'50", in NE1/4 sec.20, T.2 N., R. 7 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 1,000 ft (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 Water and Power Resources Service).

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

AVERAGE DISCHARGE.--15 years, 135 ft^3/s (3.823 m^3/s), 97,800 acre-ft/yr (121 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.--Peak discharge above base of 1,000 ft^3/s (28.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage Height (ft)	Gage Height (m)
June 11	2200	*1930	54.7	4.76	1.451
June 19	2200	1690	47.9	4.50	1.372

Minimum, 9.2 ft^3/s (0.261 m^3/s) Apr. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	24	18	18	18	20	14	166	473	696	98	47
2	27	25	19	17	19	18	14	158	483	690	93	46
3	27	26	20	17	19	18	14	167	482	612	88	45
4	26	24	21	17	20	19	14	203	577	543	83	44
5	25	25	22	16	20	19	14	236	721	489	79	44
6	25	23	22	16	20	20	14	253	808	448	76	44
7	25	23	21	17	19	20	14	285	818	431	74	45
8	25	22	20	17	18	19	15	327	974	404	71	51
9	25	21	19	19	18	17	15	325	1200	375	69	53
10	24	21	18	20	18	19	15	278	1450	374	67	103
11	24	20	17	21	19	18	15	237	1650	342	64	90
12	24	20	16	22	19	17	15	205	1670	317	62	86
13	24	19	16	23	19	17	16	181	1490	292	62	70
14	23	19	15	24	20	16	16	172	1330	268	63	61
15	23	19	15	24	20	16	21	176	1100	242	74	55
16	24	18	16	24	21	16	23	176	983	223	67	50
17	24	18	16	24	21	16	27	164	1100	209	62	48
18	26	18	17	23	22	15	34	164	1230	197	59	46
19	34	18	17	22	22	15	46	186	1360	184	58	45
20	44	18	17	22	22	14	61	265	1350	172	59	44
21	35	19	17	21	22	14	77	388	1210	160	55	44
22	32	19	17	21	22	14	99	504	1150	149	52	44
23	32	19	18	21	22	14	108	580	1080	144	53	43
24	31	20	17	21	22	14	90	541	1010	144	55	42
25	31	21	17	21	21	14	102	457	966	134	70	40
26	31	24	17	20	21	14	122	390	916	123	83	40
27	27	25	17	20	20	14	124	371	809	116	63	39
28	27	25	17	19	19	14	155	392	688	110	55	38
29	27	22	18	19	19	14	196	413	686	107	51	38
30	25	19	18	18	---	14	198	395	690	106	49	36
31	19	---	18	18	---	14	---	429	---	101	48	---
TOTAL	843	634	553	622	582	503	1688	9184	30454	8902	2062	1521
MEAN	27.2	21.1	17.8	20.1	20.1	16.2	56.3	296	1015	287	66.5	50.7
MAX	44	26	22	24	22	20	198	580	1670	696	98	103
MIN	19	18	15	16	18	14	14	158	473	101	48	36
AC-FT	1670	1260	1100	1230	1150	998	3350	18220	60410	17660	4090	3020

CAL YR 1979 TOTAL 38942 MEAN 107 MAX 1630 MIN 14 AC-FT 77240
WTR YR 1980 TOTAL 57548 MEAN 157 MAX 1670 MIN 14 AC-FT 114100

09278000 SOUTH FORK ROCK CREEK NEAR HANNA, UTAH

LOCATION.--Lat 40°32'54", long 110°41'37", 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 for winter period, which are poor. Pipeline capacity approximately 1.5 ft^3/s (0.042 m^3/s) that provides water for small hydro-electric 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.--27 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.--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 22	2100	66	1.869	2.21	0.674
June 12	0200	*163	4.616	2.68	.817
June 19	2400	123	3.483	2.51	.765

Minimum daily discharge, 1.7 ft^3/s (0.048 m^3/s) Nov. 22-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	2.9	1.8	2.5	2.4	2.3	2.3	19	48	69	16	8.1
2	3.7	2.9	1.8	2.5	2.4	2.3	2.2	21	48	64	16	7.6
3	3.5	2.9	1.9	2.5	2.4	2.3	2.2	22	48	58	16	7.5
4	3.5	2.9	2.0	2.5	2.4	2.3	2.2	26	53	55	16	7.4
5	3.5	2.7	2.2	2.5	2.4	2.3	2.3	30	57	50	15	7.1
6	3.5	2.7	2.3	2.5	2.4	2.3	2.3	32	64	46	15	7.0
7	3.5	2.7	2.5	2.5	2.4	2.3	2.2	39	62	44	15	7.8
8	3.5	2.6	2.6	2.6	2.4	2.3	2.2	45	72	43	14	8.6
9	3.5	2.6	2.6	2.5	2.4	2.3	2.3	43	79	42	14	8.9
10	3.5	2.5	2.6	2.4	2.4	2.3	2.3	35	110	40	14	15
11	3.4	2.3	2.5	2.6	2.4	2.3	2.3	28	119	39	14	15
12	3.4	2.1	2.6	2.5	2.4	2.3	2.3	24	138	39	13	13
13	3.2	2.1	2.5	2.5	2.4	2.3	2.8	21	136	37	12	12
14	3.2	2.0	2.5	2.5	2.4	2.3	3.0	20	116	35	11	10
15	3.4	2.0	2.5	2.5	2.4	2.3	3.2	21	107	33	11	9.8
16	3.4	1.9	2.5	2.5	2.3	2.3	3.4	20	93	31	11	8.9
17	3.4	1.9	2.5	2.5	2.4	2.3	3.7	20	96	29	10	7.8
18	3.5	1.9	2.5	2.5	2.4	2.3	4.4	21	103	27	10	7.8
19	4.0	1.8	2.5	2.5	2.4	2.3	6.2	27	108	26	11	7.8
20	4.2	1.8	2.5	2.5	2.4	2.3	7.8	39	103	25	10	7.8
21	4.1	1.8	2.5	2.5	2.3	2.3	9.3	53	98	24	9.7	7.8
22	4.0	1.7	2.5	2.5	2.3	2.3	11	58	87	22	9.7	7.8
23	3.9	1.7	2.5	2.5	2.3	2.3	10	57	84	21	9.7	7.6
24	3.7	1.7	2.5	2.5	2.3	2.3	7.8	52	89	21	9.6	7.2
25	3.7	1.7	2.5	2.5	2.3	2.2	9.2	46	88	20	11	7.2
26	3.5	1.8	2.5	2.5	2.3	2.3	11	43	86	19	11	7.2
27	3.4	1.8	2.5	2.4	2.3	2.3	13	42	85	19	9.6	7.0
28	3.3	1.8	2.5	2.4	2.4	2.3	18	43	76	18	8.8	6.9
29	3.2	1.8	2.5	2.4	2.3	2.3	22	43	75	17	8.5	6.7
30	3.1	1.8	2.5	2.4	---	2.3	21	43	72	17	8.2	6.7
31	2.9	---	2.5	2.4	---	2.3	---	45	---	17	8.2	---
TOTAL	109.3	64.8	74.9	77.1	68.7	71.2	193.9	1078	2600	1047	368.0	257.0
MEAN	3.53	2.16	2.42	2.49	2.37	2.30	6.46	34.8	86.7	33.8	11.9	8.57
MAX	4.2	2.9	2.6	2.6	2.4	2.3	22	58	138	69	16	15
MIN	2.9	1.7	1.8	2.4	2.3	2.2	2.2	19	48	17	8.2	6.7
AC-FT	217	129	149	153	136	141	385	2140	5160	2080	730	510

CAL YR 1979 TOTAL 4814.7 MEAN 13.2 MAX 126 MIN 1.7 AC-FT 9550
WTR YR 1980 TOTAL 6009.9 MEAN 16.4 MAX 138 MIN 1.7 AC-FT 11920

09278500 ROCK CREEK NEAR HANNA, UTAH

LOCATION.--Lat 40°32'44", long 110°39'20", in NE1/4 sec.26, T.2 N., R.7 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 1.2 mi (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 good, except for period of no gage-height record, Aug. 14 to Sept. 15, which are fair.

AVERAGE DISCHARGE.--26 years (1950-69, 1975-80), 150 ft^3/s (4.248 m^3/s), 108,700 acre-ft/yr (134 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.--Peak discharge above base of 1,000 ft^3/s (28.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage Height (ft)	Gage Height (m)
June 11	2400	*2010	56.9	7.31	2.228
June 20	0100	1650	46.7	6.79	2.070

Minimum discharge, 8.5 ft^3/s (0.24 m^3/s) Apr. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	32	22	18	20	23	19	172	452	694	121	70
2	35	31	22	19	20	23	20	166	466	700	114	68
3	34	34	23	19	20	21	18	172	458	624	110	66
4	33	32	23	20	20	23	18	203	556	556	104	65
5	33	33	24	19	20	23	18	234	707	496	100	65
6	33	32	25	19	20	23	18	244	801	455	97	66
7	33	31	24	20	21	24	24	272	801	435	94	68
8	32	30	24	19	21	23	20	309	940	406	92	71
9	32	28	25	20	21	21	21	312	1190	377	90	79
10	32	27	24	25	22	22	21	272	1410	374	86	110
11	32	28	22	24	20	21	20	244	1610	345	84	105
12	31	25	22	26	20	21	20	209	1640	320	82	94
13	31	28	22	27	20	23	20	186	1490	296	81	81
14	31	26	22	27	20	21	23	176	1350	277	88	73
15	31	25	22	28	21	20	28	178	1130	254	95	66
16	32	25	22	31	22	20	33	180	960	237	92	66
17	32	25	21	31	22	21	37	168	1090	220	89	63
18	33	23	21	30	23	21	47	168	1200	209	86	61
19	43	21	20	29	25	20	62	186	1310	198	85	60
20	57	23	20	27	26	20	78	251	1340	188	86	59
21	43	23	20	25	26	19	94	371	1200	176	82	58
22	41	19	20	24	26	20	112	499	1160	166	80	58
23	43	23	20	25	26	20	122	586	1100	161	80	56
24	41	22	21	23	26	20	104	538	1030	161	81	55
25	41	25	20	22	25	19	111	449	985	150	84	54
26	41	26	20	22	25	20	135	371	925	143	95	53
27	36	25	20	22	24	19	135	351	828	135	82	51
28	36	29	20	21	25	18	163	374	704	130	78	51
29	36	22	19	20	22	20	201	397	694	126	75	50
30	32	22	18	20	---	18	207	377	704	126	73	50
31	25	---	18	20	---	20	---	411	---	121	71	---
TOTAL	1100	795	666	722	649	647	1949	9026	30231	9256	2757	1992
MEAN	35.5	26.5	21.5	23.3	22.4	20.9	65.0	291	1008	299	88.9	66.4
MAX	57	34	25	31	26	24	207	586	1640	700	121	110
MIN	25	19	18	18	20	18	18	166	452	121	71	50
AC-FT	2180	1580	1320	1430	1290	1280	3870	17900	59960	18360	5470	3950

CAL YR 1979 TOTAL 43528 MEAN 119 MAX 1630 MIN 18 AC-FT 86340
WTR YR 1980 TOTAL 59790 MEAN 163 MAX 1640 MIN 18 AC-FT 118600

09278700 ROCK CREEK BELOW MINERS, GULCH NEAR HANNA, UTAH

LOCATION.--Lat 40°31'57", long 110°37'22", in NW1/4NE1/4NE1/4 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 current year.

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 good except those for winter period, which are fair.

AVERAGE DISCHARGE.--6 years, 123 ft^3/s (3.48 m^3/s), 89,110 acre-ft/yr (110 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 recorded, 2,000 ft^3/s (56.6 m^3/s) June 11, gage height, 5.03 ft (1.53 m); minimum 8 ft^3/s (0.227 m^3/s) Apr. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	33	21	19	16	18	14	170	404	646	143	69
2	30	33	21	19	16	16	14	160	417	647	132	66
3	30	35	22	19	16	18	14	157	416	582	121	59
4	29	33	22	18	16	18	14	162	499	519	114	56
5	29	33	23	17	16	19	14	180	641	460	114	59
6	28	31	24	17	17	19	15	200	740	430	119	52
7	28	31	24	18	17	19	14	230	754	406	114	57
8	28	30	23	17	17	19	15	250	920	392	112	63
9	27	28	23	19	16	17	16	280	1140	370	106	66
10	27	27	22	19	16	17	17	245	1370	361	106	125
11	27	26	23	19	16	17	16	225	1650	335	99	110
12	26	26	22	18	16	17	16	209	1640	314	98	119
13	27	25	22	18	16	17	17	189	1490	298	91	101
14	26	24	21	19	16	16	18	182	1320	280	91	83
15	27	24	21	19	17	16	25	182	1100	258	110	69
16	28	24	20	20	17	16	28	186	965	248	101	66
17	28	23	20	19	17	16	34	175	1050	241	98	63
18	30	22	20	18	17	16	46	175	1180	228	92	60
19	39	21	20	18	20	16	62	189	1280	231	88	59
20	54	21	19	18	22	16	82	241	1290	212	86	57
21	41	22	18	17	21	14	98	327	1150	206	83	57
22	37	23	18	17	22	16	118	430	1090	194	74	57
23	39	23	18	17	22	16	127	508	1030	189	76	56
24	36	23	18	16	22	15	110	471	942	189	79	53
25	35	23	18	16	21	15	105	401	927	183	92	52
26	35	24	18	16	20	15	115	350	874	175	119	51
27	31	25	19	16	19	14	120	331	795	160	94	51
28	31	25	19	16	19	14	121	345	674	152	82	48
29	31	23	19	16	18	14	157	365	654	150	67	48
30	27	21	19	16	---	14	180	350	658	143	67	46
31	22	---	20	16	---	14	---	376	---	140	66	---
TOTAL	964	782	637	547	521	504	1742	8241	29060	9339	3034	1978
MEAN	31.1	26.1	20.5	17.6	18.0	16.3	58.1	266	969	301	97.9	65.9
MAX	54	35	24	20	22	19	180	508	1650	647	143	125
MIN	22	21	18	16	16	14	14	157	404	140	66	46
AC-FT	1910	1550	1260	1080	1030	1000	3460	16350	57640	18520	6020	3920

CAL YR 1979 TOTAL 40634 MEAN 111 MAX 1540 MIN 15 AC-FT 80600
WTR YR 1980 TOTAL 57349 MEAN 157 MAX 1650 MIN 14 AC-FT 113800

09279000 ROCK CREEK NEAR MOUNTAIN HOME, UTAH

LOCATION.--Lat 40°29'36", long 110°34'39", in SE1/4NW1/4SW1/4 sec.9, T.1 N., R.6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, 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.--43 years, 172 ft^3/s (4.871 m^3/s), 122,400 acre-ft/yr (151 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.--Peak discharge above base of 1,200 ft^3/s (34 m^3/s), and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage Height (ft)	Gage Height (m)
June 11	0500	*1790	50.7	5.05	1.539
June 22	0300	1360	38.5	4.68	1.426

Minimum discharge, 25 ft^3/s (0.71 m^3/s) March 17 and 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	47	39	37	40	39	36	188	451	690	135	80
2	50	49	39	37	40	39	36	177	472	726	128	79
3	49	51	39	36	40	40	35	180	455	646	124	76
4	49	48	39	37	40	40	36	199	555	580	118	75
5	48	48	40	36	40	41	37	233	680	508	114	74
6	47	46	41	35	40	41	38	244	793	453	113	73
7	47	47	41	37	40	41	37	270	799	432	108	76
8	46	45	41	36	39	40	37	307	921	409	106	84
9	46	44	42	38	40	39	40	320	1190	384	103	90
10	46	43	42	39	41	39	42	292	1450	376	102	140
11	46	42	36	40	41	37	40	255	1520	352	97	132
12	45	41	35	41	41	37	39	227	1550	327	97	124
13	45	44	39	46	40	37	39	202	1380	309	96	108
14	46	42	39	48	40	39	43	194	1240	288	96	98
15	46	42	40	49	41	38	51	192	1080	266	110	91
16	46	40	40	50	42	35	55	195	845	252	105	86
17	46	42	40	50	42	36	61	186	998	240	98	82
18	48	42	39	49	44	38	73	180	1150	228	94	81
19	56	40	39	48	46	36	89	191	1200	218	91	80
20	74	37	38	47	48	36	107	243	1220	208	93	78
21	60	36	38	45	46	36	121	343	1090	199	89	78
22	56	38	38	43	43	35	143	473	1050	188	87	77
23	60	38	38	45	43	36	151	587	982	182	86	77
24	55	41	39	45	41	36	127	548	887	184	87	75
25	55	42	39	43	41	36	132	454	845	177	97	74
26	55	41	39	42	43	36	153	378	810	165	121	73
27	52	40	36	42	41	37	150	352	732	155	99	72
28	51	40	37	41	41	36	171	366	635	149	90	71
29	50	40	36	40	39	36	205	392	635	145	84	69
30	46	39	38	40	---	35	221	373	702	145	81	68
31	43	---	36	40	---	35	---	400	---	138	81	---
TOTAL	1559	1275	1202	1302	1203	1162	2545	9141	28317	9719	3130	2541
MEAN	50.3	42.5	38.8	42.0	41.5	37.5	84.8	295	944	314	101	84.7
MAX	74	51	42	50	48	41	221	587	1550	726	135	140
MIN	43	36	35	35	39	35	35	177	451	138	81	68
AC-FT	3090	2530	2380	2580	2390	2300	5050	18130	56170	19280	6210	5040

CAL YR 1979 TOTAL 47656 MEAN 131 MAX 1600 MIN 35 AC-FT 94530
WTR YR 1980 TOTAL 63096 MEAN 172 MAX 1550 MIN 35 AC-FT 125200

09279100 ROCK CREEK NEAR TALMAGE, UTAH

LOCATION.--Lat 40°18'40", long 110°29'36", in SE1/4NE1/4NW1/4 sec.18, T.2 S., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank 1.5 mi (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) National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--17 years, 187 ft^3/s (5.295 m^3/s), 129,000 acre-ft/yr (159 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.--Peak discharge 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 12	0700	*1580	44.7	3.67	1.119
June 20	0900	1440	40.8	3.51	1.070

Minimum recorded, 34 ft^3/s (0.963 m^3/s) Nov. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	45	38	49	47	62	56	255	445	684	148	83
2	46	45	41	48	47	62	53	239	472	737	141	80
3	46	50	44	48	47	62	56	239	445	654	135	78
4	45	48	48	48	47	62	56	251	513	581	129	76
5	45	51	52	48	47	62	61	292	652	519	124	74
6	44	48	52	47	48	62	63	296	760	475	121	73
7	43	49	52	48	48	63	61	319	750	451	116	76
8	43	47	52	49	49	61	55	356	843	437	113	87
9	43	46	52	50	49	64	64	381	1020	412	109	95
10	44	42	52	52	49	61	68	359	1210	403	106	157
11	45	49	49	48	49	61	66	322	1410	376	103	152
12	44	42	46	50	49	61	63	292	1460	354	101	139
13	44	46	43	54	49	58	60	255	1390	337	99	121
14	45	45	44	58	50	64	68	243	1270	317	102	109
15	45	44	45	61	52	63	77	243	1130	293	115	97
16	46	45	46	60	53	56	83	235	952	276	117	90
17	47	47	46	59	54	55	90	232	1020	264	107	84
18	50	47	46	58	55	60	102	224	1140	252	101	81
19	53	39	47	58	56	60	123	224	1210	238	96	81
20	77	43	48	56	56	58	149	263	1280	227	99	80
21	65	44	49	55	57	60	171	350	1170	218	95	78
22	57	45	50	54	57	55	195	467	1130	206	90	78
23	58	46	51	53	57	58	220	578	1080	199	91	78
24	56	48	51	52	57	56	192	560	1000	200	95	76
25	55	49	50	52	58	58	185	484	970	193	101	76
26	55	48	50	52	60	53	213	408	928	180	134	74
27	53	47	50	51	60	56	206	373	870	170	114	74
28	51	44	50	50	61	55	220	378	725	164	98	72
29	51	40	50	48	61	55	271	408	697	157	89	71
30	49	37	50	48	---	56	305	388	725	159	86	70
31	45	---	49	47	---	50	---	408	---	151	83	---
TOTAL	1536	1366	1493	1611	1529	1829	3652	10322	28667	10284	3358	2660
MEAN	49.5	45.5	48.2	52.0	52.7	59.0	122	333	956	332	108	88.7
MAX	77	51	52	61	61	64	305	578	1460	737	148	157
MIN	43	37	38	47	47	50	53	224	445	151	83	70
AC-FT	3050	2710	2960	3200	3030	3630	7240	20470	56860	20400	6660	5280

CAL YR 1979 TOTAL 48421 MEAN 133 MAX 1420 MIN 37 AC-FT 96040
WTR YR 1980 TOTAL 68307 MEAN 187 MAX 1460 MIN 37 AC-FT 135500

09279150 DUCHESNE RIVER ABOVE KNIGHT DIVERSION, NEAR DUCHESNE, UTAH

LOCATION.--Lat 40°16'14", long 110°26'31", in NE1/4NW1/4NW1/4 sec.34, T.2 S., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank 50 ft (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 a 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.--10 years, 338 ft^3/s (9.572 m^3/s), 244,880 acre-ft/yr (302 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)
May 23	1200	1770	50.1	5.85	1.783
June 11	1030	*3510	99.4	6.97	2.124
June 20	0800	2610	73.9	6.46	1.969

Minimum discharge, 37 ft^3/s (2.15 m^3/s) Jan. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	151	166	129	114	136	132	590	1080	932	223	144
2	110	149	170	126	120	136	129	550	1130	1030	218	142
3	113	151	166	121	123	150	138	566	1080	930	199	137
4	112	152	166	126	127	146	135	638	1240	845	187	136
5	106	160	159	129	128	146	146	755	1490	770	179	135
6	106	155	152	132	130	148	152	782	1700	715	179	138
7	101	155	149	129	130	142	149	836	1730	675	180	141
8	103	156	149	132	130	143	138	890	1880	666	177	161
9	108	156	146	135	130	144	152	1110	2110	640	168	180
10	111	151	143	127	120	141	162	1060	2490	606	155	281
11	115	157	143	115	123	144	159	917	2930	581	150	279
12	117	151	135	125	130	148	152	800	3070	546	148	266
13	118	152	130	133	133	132	149	686	2810	526	147	260
14	120	155	125	142	137	153	162	618	2510	489	145	231
15	121	150	120	147	131	150	180	653	2180	453	156	219
16	123	155	130	147	129	138	200	643	1800	421	165	208
17	127	156	135	147	132	132	208	626	1840	400	156	207
18	135	168	137	150	137	138	229	597	2020	381	155	205
19	135	155	137	146	141	143	259	653	2170	355	147	202
20	181	152	137	140	143	143	308	799	2270	332	155	203
21	171	145	137	132	139	146	357	1080	2030	312	152	195
22	157	150	137	127	143	138	376	1400	1950	296	150	198
23	158	151	143	125	139	140	423	1640	1860	283	155	194
24	157	152	129	125	138	140	376	1570	1730	290	157	188
25	157	162	134	122	135	138	402	1310	1640	282	171	184
26	159	166	132	122	134	132	459	1120	1380	262	210	181
27	153	154	132	122	144	135	459	997	1250	244	192	180
28	147	182	132	122	141	135	504	984	1060	239	164	173
29	147	129	132	120	147	135	606	1040	990	233	151	176
30	147	155	132	114	---	140	702	983	975	230	142	173
31	145	---	129	109	---	123	---	1000	---	225	144	---
TOTAL	4048	4633	4364	4018	3848	4355	8103	27893	54395	15189	5177	5717
MEAN	131	154	141	130	133	140	270	900	1813	490	167	191
MAX	181	182	170	150	147	153	702	1640	3070	1030	223	281
MIN	88	129	120	109	114	123	129	550	975	225	142	135
AC-FT	8030	9190	8660	7970	7630	8640	16070	55330	107900	30130	10270	11340

CAL YR 1979 TOTAL 106960 MEAN 293 MAX 3070 MIN 79 AC-FT 212200
WTR YR 1980 TOTAL 141740 MEAN 387 MAX 3070 MIN 88 AC-FT 281100

09280400 HOBBLE CREEK AT DANIELS SUMMIT, NEAR WALLSBURG, UTAH

LOCATION.--Lat 40°17'54", long 111°15'52", in NW1/4NW1/4NE1/4 sec.20, T.2 S. R.12 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on left bank about 1,000 ft (305 m) upstream from crossing of Hobblecreek 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 except those for winter period, which are fair. No diversion above station.

AVERAGE DISCHARGE.--17 years, 2.83 ft^3/s (0.080 m^3/s), 2,050 acre-ft/yr (2.53 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.--Peak discharge above base of 30 ft^3/s (0.850 m^3/s), and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage Height (ft)	Gage Height (m)
May 22	1900	47	1.33	2.60	0.792
June 5	2000	71	2.01	2.83	.863
June 10	1800	*89	2.52	2.96	.902

Minimum daily discharge, 0.10 ft^3/s (0.003 m^3/s), Oct. 13-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	.22	.17	.16	.16	.16	.58	9.0	35	4.4	.40	.15
2	.11	.22	.17	.16	.16	.16	.66	10	34	4.1	.34	.13
3	.11	.21	.18	.16	.16	.16	.63	13	38	3.8	.30	.13
4	.11	.22	.18	.16	.16	.16	.56	17	44	3.5	.31	.13
5	.11	.20	.18	.19	.16	.16	.58	19	47	3.2	.25	.13
6	.11	.18	.18	.19	.16	.16	.47	21	50	2.9	.26	.11
7	.11	.20	.18	.19	.16	.17	.58	22	47	2.7	.25	.13
8	.11	.20	.18	.19	.16	.17	.58	21	48	2.6	.28	.15
9	.11	.20	.18	.19	.16	.17	.60	21	52	2.3	.24	.17
10	.11	.20	.18	.18	.16	.17	.76	18	58	2.2	.26	.25
11	.11	.20	.18	.18	.16	.17	.69	13	57	1.9	.16	.29
12	.11	.19	.18	.18	.16	.17	.70	10	53	1.8	.16	.37
13	.10	.19	.19	.18	.16	.17	.77	8.8	44	1.7	.15	.33
14	.10	.19	.18	.18	.17	.17	1.1	8.7	37	1.5	.15	.29
15	.10	.19	.18	.18	.17	.18	1.8	11	28	1.3	.15	.17
16	.11	.20	.16	.19	.17	.18	2.1	12	24	1.2	.15	.13
17	.11	.20	.16	.19	.17	.18	2.6	11	23	1.1	.17	.12
18	.13	.20	.16	.19	.17	.17	3.2	11	23	1.1	.17	.13
19	.40	.19	.16	.19	.16	.17	4.1	17	23	.95	.17	.12
20	.46	.19	.15	.18	.16	.17	5.4	23	21	.89	.17	.12
21	.27	.19	.15	.18	.16	.17	4.8	30	17	.91	.17	.13
22	.23	.18	.15	.17	.16	.17	5.3	38	15	.78	.17	.12
23	.22	.18	.14	.16	.16	.17	5.5	42	13	.75	.17	.12
24	.23	.18	.16	.16	.16	.17	4.9	32	11	.51	.25	.11
25	.23	.18	.15	.16	.16	.17	8.1	22	9.0	.46	.29	.11
26	.30	.18	.15	.16	.16	.17	8.8	16	7.6	.43	.25	.11
27	.29	.18	.15	.16	.16	.17	9.3	16	6.5	.44	.29	.12
28	.23	.17	.14	.16	.16	.17	12	19	5.5	.40	.29	.11
29	.21	.17	.14	.16	.16	.17	12	24	4.9	.37	.25	.11
30	.21	.17	.15	.16	---	.19	10	27	4.6	.45	.22	.11
31	.20	---	.17	.16	---	.27	---	31	---	.37	.19	---
TOTAL	5.45	5.77	5.13	5.40	4.69	5.36	109.16	593.5	880.1	51.01	7.03	4.70
MEAN	.18	.19	.17	.17	.16	.17	3.64	19.1	29.3	1.65	.23	.16
MAX	.46	.22	.19	.19	.17	.27	12	42	58	4.4	.40	.37
MIN	.10	.17	.14	.16	.16	.16	.47	8.7	4.6	.37	.15	.11
AC-FT	11	11	10	11	9.3	11	217	1180	1750	101	14	9.3

CAL YR 1979 TOTAL 966.22 MEAN 2.65 MAX 49 MIN .03 AC-FT 1920
WTR YR 1980 TOTAL 1677.30 MEAN 4.58 MAX 58 MIN .10 AC-FT 3330

09285000 STRAWBERRY RIVER NEAR SOLDIER SPRINGS, UTAH

LOCATION.--Lat 40°08'00", long 111°01'27", in SE1/4SW1/4NW1/4 sec.16, T.2 S., R.10 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on left bank 300 ft (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 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, 26 ft^3/s (0.74 m^3/s) several days in Aug. and Sept.; minimum daily, 3.3 ft^3/s (0.093 m^3/s) many days in May and June.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	7.4	7.4	7.0	7.4	7.4	7.5	8.0	3.3	3.8	25	26
2	7.4	7.4	7.4	7.1	7.5	7.4	7.5	8.0	3.3	3.8	25	12
3	7.4	7.4	7.4	7.2	7.5	7.4	7.5	8.0	3.3	5.1	25	3.9
4	7.3	7.4	7.4	7.2	7.5	7.4	7.5	8.0	3.3	7.5	25	4.2
5	7.4	7.5	7.3	7.2	7.5	7.4	7.5	8.0	3.3	7.6	25	4.2
6	7.4	7.5	7.2	7.2	7.5	7.4	7.5	8.0	3.3	7.6	25	4.2
7	7.4	7.5	7.2	7.2	7.5	7.3	7.5	8.0	3.3	7.5	25	4.2
8	7.4	7.5	7.2	7.2	7.5	7.3	7.5	8.0	3.3	7.6	25	4.2
9	7.4	7.5	7.2	7.2	7.4	7.3	7.5	6.0	3.3	7.6	25	4.3
10	7.4	7.5	7.2	7.2	7.4	7.3	7.5	3.7	3.3	7.6	25	4.3
11	7.4	7.4	7.2	7.2	7.4	7.3	7.5	3.7	3.3	7.5	25	4.2
12	7.4	7.4	7.2	7.2	7.4	7.3	7.5	3.7	3.3	7.4	25	15
13	7.4	7.4	7.2	7.4	7.4	7.3	7.8	3.7	3.5	7.4	25	25
14	7.4	7.4	7.2	7.5	7.4	7.3	8.0	3.7	3.5	7.4	25	25
15	7.4	7.4	7.2	7.4	7.2	7.3	8.5	3.6	3.5	7.4	25	25
16	7.4	7.4	7.2	7.4	7.2	7.4	8.5	3.6	3.5	7.4	25	25
17	7.4	7.4	7.0	7.4	7.2	7.5	8.5	3.6	3.6	7.4	25	25
18	7.4	7.4	7.0	7.4	7.2	7.5	8.5	3.6	3.5	7.3	26	25
19	7.4	7.4	7.0	7.4	7.2	7.5	8.5	3.6	4.9	7.5	25	25
20	7.4	7.4	7.0	7.4	7.2	7.5	8.5	3.5	7.4	7.5	25	25
21	7.4	7.4	7.0	7.4	7.2	7.5	8.5	3.5	7.4	7.5	25	25
22	7.4	7.4	7.0	7.4	7.2	7.5	8.5	3.5	7.5	7.5	25	25
23	7.4	7.4	7.0	7.4	7.2	7.5	8.5	3.4	7.5	7.5	25	25
24	7.4	7.4	7.0	7.4	7.2	7.5	8.0	3.3	6.1	7.5	25	25
25	7.4	7.4	7.0	7.4	7.2	7.5	8.0	3.3	3.6	7.5	25	25
26	7.4	7.5	7.0	7.4	7.4	7.5	8.0	3.3	3.7	7.5	25	25
27	7.4	7.4	7.0	7.4	7.4	7.5	8.0	3.3	3.7	7.5	26	25
28	7.4	7.4	7.0	7.5	7.4	7.5	8.0	3.3	3.7	17	26	25
29	7.4	7.4	7.0	7.5	7.4	7.5	8.0	3.3	3.7	25	26	25
30	7.4	7.4	7.0	7.4	---	7.5	8.0	3.3	3.7	25	26	25
31	7.4	---	7.0	7.4	---	7.5	---	3.3	---	25	26	---
TOTAL	229.3	222.7	221.1	227.0	213.1	230.0	238.3	146.8	123.6	284.4	781	540.7
MEAN	7.40	7.42	7.13	7.32	7.35	7.42	7.94	4.74	4.12	9.17	25.2	18.0
MAX	7.4	7.5	7.4	7.5	7.5	7.5	8.5	8.0	7.5	25	26	26
MIN	7.3	7.4	7.0	7.0	7.2	7.3	7.5	3.3	3.3	3.8	25	3.9
AC-FT	455	442	439	450	423	456	473	291	245	564	1550	1070

CAL YR 1979 TOTAL 2608.5 MEAN 7.15 MAX 8.7 MIN 3.3 AC-FT 5170
WTR YR 1980 TOTAL 3458.0 MEAN 9.45 MAX 26 MIN 3.3 AC-FT 6860

NOTE: No gage-height record Mar. 17 to May 18.

09285700 STRAWBERRY RIVER ABOVE RED CREEK, NEAR FRUITLAND, UTAH

LOCATION.--Lat 40°07'01", long 110°48'27", in NE1/4NW1/4SE1/4 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 km^2) (includes approximately 170 mi^2 or 440 km^2 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 except those for winter months and period of no gage-height record, which are poor. 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.--17 years, 51.6 ft^3/s (1.461 m^3/s), 37,380 acre-ft/yr (46.1 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, 309 ft^3/s (8.75 m^3/s) May 24, gage height, 3.47 ft (1.058 m); minimum recorded, 11 ft^3/s (0.31 m^3/s) Jan. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	30	19	26	24	26	28	106	218	90	60	58
2	27	30	21	26	26	26	28	110	216	88	59	56
3	27	30	28	26	27	26	27	119	205	85	58	46
4	27	29	30	26	27	26	27	134	201	84	60	43
5	27	29	30	26	26	26	27	147	204	83	62	43
6	28	29	29	26	26	26	28	162	206	82	62	42
7	28	29	29	26	26	26	28	176	206	79	61	42
8	28	29	29	26	26	26	28	182	206	80	61	42
9	28	29	29	26	19	26	28	200	204	78	61	43
10	27	29	28	26	19	26	28	210	202	78	59	45
11	27	28	28	21	21	26	28	206	199	75	55	42
12	27	28	23	28	24	27	28	189	193	72	55	42
13	26	28	20	28	26	25	28	170	185	72	58	50
14	26	28	20	29	27	27	28	160	175	71	59	51
15	26	28	25	28	27	27	29	159	163	68	60	51
16	29	27	28	27	27	27	30	157	147	67	61	51
17	33	27	28	26	27	26	30	161	134	65	61	51
18	33	28	28	26	28	27	30	160	122	66	61	51
19	32	28	28	26	28	27	31	164	118	66	63	51
20	35	28	28	26	27	27	32	183	118	65	63	51
21	32	27	28	26	27	27	32	212	117	64	61	51
22	32	25	27	26	27	27	34	250	115	62	61	51
23	36	27	27	24	26	27	42	281	112	61	61	51
24	34	27	27	27	26	27	47	303	109	61	63	51
25	33	27	25	26	25	27	54	293	104	59	66	51
26	32	28	22	25	26	27	58	271	101	58	65	51
27	32	23	26	27	26	28	63	249	99	56	62	51
28	32	19	26	27	26	28	68	235	96	52	60	51
29	32	17	26	27	26	27	84	228	92	62	59	51
30	31	17	26	20	---	27	100	225	91	61	59	51
31	30	---	26	18	---	27	---	224	---	61	59	---
TOTAL	924	808	814	798	743	825	1153	6026	4658	2171	1875	1461
MEAN	29.8	26.9	26.3	25.7	25.6	26.6	38.4	194	155	70.0	60.5	48.7
MAX	36	30	30	29	28	28	100	303	218	90	66	58
MIN	26	17	19	18	19	25	27	106	91	52	55	42
AC-FT	1830	1600	1610	1580	1470	1640	2290	11950	9240	4310	3720	2900

CAL YR 1979 TOTAL 14457 MEAN 39.6 MAX 175 MIN 17 AC-FT 28680
WTR YR 1980 TOTAL 22256 MEAN 60.8 MAX 303 MIN 17 AC-FT 44140

09287000 CURRANT CREEK BELOW RED LEDGE HOLLOW NEAR FRUITLAND, UTAH

LOCATION.--Lat 40°19'27", long 111°02'43", in NW1/4SW1/4NW1/4 sec.8, T.2 S., R.10 W., Uintah Meridian, in 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.--29 years (1945-68, 1975-80) 25.9 ft^3/s (0.733 m^3/s), 18,760 acre-ft/yr (23.1 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.--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)
May 5	2030	490	13.9	4.70	1.433
May 21	2230	*518	14.7	4.77	1.454

Minimum discharge, 3.5 ft^3/s (0.099 m^3/s) Dec. 17 and Jan. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	8.5	7.5	6.4	9.0	9.8	9.5	195	204	53	18	13
2	7.0	8.8	7.5	6.0	9.0	9.8	9.9	225	201	52	17	12
3	7.0	9.3	7.5	6.0	9.0	10	9.4	285	201	49	16	11
4	7.0	8.8	7.9	5.8	9.0	10	9.7	387	219	45	15	11
5	7.0	9.3	7.7	5.8	9.0	9.8	11	381	222	42	14	11
6	6.8	9.1	6.8	6.0	9.0	10	12	393	213	38	13	11
7	6.6	9.5	6.6	6.0	9.0	9.8	11	384	195	39	12	13
8	6.6	9.5	6.9	6.4	8.5	9.8	12	369	189	41	13	15
9	6.6	8.8	6.7	7.1	8.0	9.8	12	369	192	39	12	14
10	7.0	8.1	6.7	10	8.0	10	14	309	195	38	12	19
11	7.4	8.4	6.5	10	8.0	10	13	228	194	36	11	18
12	7.4	7.4	6.5	10	8.0	10	13	189	195	34	13	17
13	7.4	7.0	6.5	10	8.4	9.5	15	170	214	32	13	16
14	7.4	7.0	6.5	11	8.6	10	18	168	207	31	14	15
15	7.6	7.2	6.5	11	9.0	11	26	195	197	30	15	14
16	8.0	7.6	6.1	11	9.2	9.5	32	207	188	28	15	14
17	8.0	8.4	6.0	11	9.2	9.5	39	189	186	26	14	14
18	7.7	9.3	6.0	11	9.5	9.5	49	213	183	25	14	14
19	12	9.8	6.0	11	9.8	9.5	63	273	180	23	14	16
20	17	9.8	5.9	11	9.8	10	82	330	178	22	16	15
21	12	9.8	6.0	11	9.5	10	108	390	170	21	14	14
22	11	9.8	6.4	11	9.5	9.9	110	414	158	21	13	14
23	11	9.8	6.6	10	9.5	10	126	408	144	20	14	14
24	12	9.8	6.5	10	9.0	10	108	318	132	22	14	14
25	11	9.8	6.4	10	9.0	10	152	243	118	20	16	14
26	11	9.8	6.4	10	9.0	10	168	207	91	19	17	14
27	10	9.0	6.2	10	9.0	10	176	192	65	18	15	14
28	9.6	7.0	6.2	10	9.5	10	216	198	62	18	14	14
29	9.5	7.2	6.2	10	10	10	234	207	55	18	13	14
30	8.9	7.4	6.2	9.0	---	9.8	216	204	56	19	13	14
31	8.5	---	6.2	9.0	---	9.5	---	204	---	18	13	---
TOTAL	273.0	261.0	203.6	282.5	261.0	306.5	2074.5	8444	5004	937	437	423
MEAN	8.81	8.70	6.57	9.11	9.00	9.89	69.2	272	167	30.2	14.1	14.1
MAX	17	9.8	7.9	11	10	11	234	414	222	53	18	19
MIN	6.6	7.0	5.9	5.8	8.0	9.5	9.4	168	55	18	11	11
AC-FT	541	518	404	560	518	608	4110	16750	9930	1860	867	839

CAL YR 1979 TOTAL 9355.2 MEAN 25.6 MAX 173 MIN 5.7 AC-FT 18560
WTR YR 1980 TOTAL 18907.1 MEAN 51.7 MAX 414 MIN 5.8 AC-FT 37500

09287500 WATER HOLLOW NEAR FRUITLAND, UTAH

LOCATION.--Lat 40°14'30", long 110°58'48", in SW1/4SW1/4SE1/4 sec.2, T.3 S., R.10 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on left bank 1.5 mi (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. 8 years (1973-80), 1.43 ft^3/s (0.040 m^3/s), 1,040 acre-ft/yr (1.28 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, 11 ft^3/s (0.31 m^3/s) several days in August, gage height, 1.86 ft (0.567 m); minimum, 0.01 ft^3/s (<0.001 m^3/s) March 7, result of a momentary blockage by ice upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	.45	.50	.40	.38	.47	.58	3.1	3.5	2.1	1.4	1.1
2	1.7	.56	.52	.40	.40	.46	.58	3.1	3.5	2.1	1.3	1.1
3	1.7	.56	.51	.40	.38	.47	.58	3.1	3.5	2.1	1.3	.97
4	1.7	.55	.48	.40	.35	.50	.70	3.2	3.4	2.1	1.2	.96
5	1.7	.46	.48	.42	.35	.51	1.0	3.4	3.4	2.1	8.5	.99
6	1.5	.46	.46	.46	.38	.48	1.2	3.5	3.2	1.9	10	1.0
7	1.2	.50	.44	.45	.40	.52	1.1	3.8	3.2	2.0	10	1.3
8	1.1	.52	.44	.46	.37	.49	.89	3.9	3.2	2.1	11	1.7
9	1.1	.54	.42	.45	.35	.48	1.4	4.1	3.2	2.0	11	1.6
10	1.0	.50	.43	.45	.34	.50	1.5	4.3	3.2	2.0	11	2.1
11	.95	.45	.36	.52	.34	.53	1.2	4.1	3.1	1.9	11	1.6
12	.82	.45	.28	.49	.33	.52	1.7	3.9	3.0	1.9	11	1.3
13	.70	.48	.29	.45	.36	.51	1.7	3.6	3.0	1.9	10	1.4
14	.59	.45	.41	.50	.38	.58	2.4	3.5	3.0	1.9	3.4	1.2
15	.55	.45	.48	.54	.42	.58	3.1	3.8	3.0	1.8	1.8	1.2
16	.44	.48	.50	.54	.41	.58	3.3	3.8	3.0	1.7	1.8	1.1
17	.42	.54	.48	.54	.40	.52	3.3	3.6	3.0	1.7	1.5	.98
18	.43	.58	.45	.54	.52	.52	3.9	3.5	2.8	1.6	1.4	1.0
19	.68	.57	.42	.52	.58	.52	4.6	3.5	2.8	1.6	1.3	.94
20	1.3	.56	.48	.52	.58	.58	4.4	3.5	2.7	1.5	1.4	.95
21	.98	.50	.50	.48	.48	.70	3.5	3.5	2.6	1.5	1.2	.97
22	.72	.45	.54	.46	.46	.58	3.8	3.6	2.5	1.4	1.1	.96
23	.60	.52	.54	.45	.46	.58	3.5	3.8	2.5	1.5	1.2	.99
24	.55	.56	.48	.44	.45	.58	3.5	4.5	2.4	1.5	1.3	.99
25	.52	.56	.46	.44	.40	.58	3.9	4.1	2.4	1.4	1.6	.99
26	.47	.53	.46	.41	.42	.58	3.6	3.9	2.4	1.4	1.4	1.0
27	.48	.49	.42	.40	.51	.58	3.4	3.6	2.2	1.4	1.2	1.0
28	.55	.41	.40	.40	.55	.58	3.4	3.6	2.2	1.3	1.1	.96
29	.46	.38	.36	.40	.50	.70	3.5	3.5	2.2	1.4	1.0	.97
30	.45	.45	.40	.43	---	.70	3.4	3.4	2.4	1.4	1.0	.95
31	.45	---	.39	.38	---	.70	---	3.5	---	1.4	1.1	---
TOTAL	27.61	14.96	13.78	14.14	12.25	17.18	74.63	113.3	86.5	53.6	124.5	34.27
MEAN	.89	.50	.44	.46	.42	.55	2.49	3.65	2.88	1.73	4.02	1.14
MAX	1.8	.58	.54	.54	.58	.70	4.6	4.5	3.5	2.1	11	2.1
MIN	.42	.38	.28	.38	.33	.46	.58	3.1	2.2	1.3	1.0	.94
AC-FT	55	30	27	28	24	34	148	225	172	106	247	68

CAL YR 1979 TOTAL 272.30 MEAN .75 MAX 3.4 MIN .05 AC-FT 540
WTR YR 1980 TOTAL 586.72 MEAN 1.60 MAX 11 MIN .28 AC-FT 1160

09288000 CURRANT CREEK NEAR FRUITLAND, UTAH

LOCATION.--Lat 40°12'01", long 110°54'25", in NE1/4SE1/4SW1/4 sec.21, T.3 S., R.9 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on left bank 150 ft (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) sothwest 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 except for winter periods, which are poor. 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.--46 years, 45.6 ft^3/s (1.291 m^3/s), 33,040 acre-ft/yr (40.7 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.--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 7	0330	*589	16.7	3.40	1.036
May 23	1230	546	15.5	3.28	1.000

Minimum discharge, 11 ft^3/s (0.312 m^3/s) Dec. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	25	27	29	22	32	27	228	259	77	38	35
2	18	24	28	28	23	34	27	245	248	77	37	35
3	19	25	30	24	24	34	28	276	238	74	36	32
4	18	25	29	30	24	34	29	401	262	70	34	31
5	19	24	30	27	25	33	32	440	262	66	39	30
6	18	24	29	29	26	33	34	449	248	60	46	31
7	18	26	29	26	25	30	32	467	222	60	44	34
8	17	29	29	28	22	29	30	440	209	64	43	43
9	18	28	28	28	22	28	34	364	206	64	43	43
10	19	28	28	24	22	27	38	325	212	62	41	53
11	19	27	18	16	22	29	36	266	216	60	40	49
12	19	25	18	20	22	29	37	219	212	58	41	46
13	19	27	24	25	26	25	38	182	231	58	41	43
14	19	26	26	27	30	30	44	180	225	57	40	41
15	19	25	29	28	33	30	56	219	206	53	38	39
16	20	25	28	28	33	28	62	225	188	51	39	38
17	22	26	25	28	33	25	70	216	182	50	38	37
18	23	28	25	28	35	26	84	225	177	47	36	36
19	24	25	24	27	37	29	97	255	171	47	35	43
20	39	25	27	27	35	30	123	325	168	44	38	40
21	32	22	27	27	34	30	135	325	163	43	34	38
22	28	20	28	26	33	29	147	410	152	42	32	38
23	27	27	25	27	33	29	194	467	140	42	31	39
24	28	25	27	26	27	29	160	397	135	42	33	38
25	28	28	29	25	28	28	200	302	128	42	37	38
26	29	26	24	25	31	26	174	269	112	39	40	38
27	26	21	19	25	33	28	231	245	90	37	38	38
28	23	18	24	25	34	27	269	252	82	36	35	38
29	24	19	24	25	35	28	245	259	77	35	35	37
30	24	24	27	22	---	29	245	252	77	35	35	38
31	25	---	26	22	---	25	---	266	---	36	35	---
TOTAL	700	747	811	802	829	903	2958	9391	5498	1628	1172	1159
MEAN	22.6	24.9	26.2	25.9	28.6	29.1	98.6	303	183	52.5	37.8	38.6
MAX	39	29	30	30	37	34	269	467	262	77	46	53
MIN	17	18	18	16	22	25	27	180	77	35	31	30
AC-FT	1390	1480	1610	1590	1640	1790	5870	18630	10910	3230	2320	2300

CAL YR 1979 TOTAL 13844 MEAN 37.9 MAX 199 MIN 14 AC-FT 27460
WTR YR 1980 TOTAL 26598 MEAN 72.7 MAX 467 MIN 16 AC-FT 52760

09288100 RED CREEK BELOW CURRANT CREEK,NEAR FRUITLAND, UTAH

LOCATION.--Lat 40°08'47", long 110°45'09", in NE1/4SW1/4SE1/4 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 current year.

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, begining July 1960, capacity 5,700 acre-ft (7.03 hm^3).

AVERAGE DISCHARGE.--17 years, 54.9 ft^3/s (1.555 m^3/s), 39,780 acre-ft/yr (49.0 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 shape of a previous curve based on a 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, 648 ft^3/s (18.3 m^3/s) May 7, gage height, 3.70 ft (1.128 m); minimum, 7.6 ft^3/s (0.22 m^3/s) Nov. 27, from a discharge measurement.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	29	29	29	25	37	36	227	308	78	42	46
2	18	28	30	28	26	37	36	231	304	76	41	44
3	19	28	31	26	26	38	38	254	293	72	38	42
4	18	30	30	28	27	39	40	379	308	68	36	39
5	18	28	31	31	28	40	50	405	304	70	38	39
6	18	28	30	29	29	39	56	426	297	63	45	42
7	17	29	30	30	28	38	51	439	279	58	44	45
8	17	31	30	29	27	37	45	448	261	64	47	53
9	19	30	29	28	25	37	55	462	240	66	44	51
10	20	29	29	27	25	37	65	439	240	63	44	78
11	19	28	18	20	26	39	60	363	240	62	41	56
12	20	27	18	24	28	40	62	289	234	62	43	49
13	20	28	24	28	30	33	64	244	244	62	45	46
14	22	27	26	30	32	40	70	221	240	60	45	43
15	22	27	29	30	35	42	93	275	224	56	41	42
16	23	26	28	30	36	39	104	275	209	54	43	41
17	25	27	25	30	37	34	106	264	200	52	42	40
18	26	29	25	30	39	35	112	261	189	50	40	40
19	27	28	24	30	40	40	127	301	180	51	39	42
20	50	26	27	29	39	40	141	367	172	49	43	42
21	40	23	26	29	38	43	156	444	165	48	38	42
22	32	20	28	29	37	39	153	498	155	48	38	42
23	31	26	25	29	35	40	176	517	143	48	40	42
24	30	25	27	29	30	41	187	448	130	49	53	41
25	30	28	29	28	33	38	187	331	122	48	56	41
26	31	19	24	28	35	35	201	279	113	43	55	41
27	30	15	19	28	37	39	204	271	90	43	49	41
28	29	17	24	28	38	36	213	293	79	42	44	41
29	29	19	24	27	39	38	267	308	75	38	45	40
30	28	25	27	26	---	40	271	304	75	38	45	39
31	29	---	28	25	---	33	---	312	---	41	46	---
TOTAL	777	780	824	872	930	1183	3426	10575	6113	1722	1350	1330
MEAN	25.1	26.0	26.6	28.1	32.1	38.2	114	341	204	55.5	43.5	44.3
MAX	50	31	31	31	40	43	271	517	308	78	56	78
MIN	17	15	18	20	25	33	36	221	75	38	36	39
AC-FT	1540	1550	1630	1730	1840	2350	6800	20980	12130	3420	2680	2640

CAL YR 1979 TOTAL 15483 MEAN 42.4 MAX 195 MIN 13 AC-FT 30710
WTR YR 1980 TOTAL 29882 MEAN 81.6 MAX 517 MIN 15 AC-FT 59270

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 SE1/4NW1/4NW1/4 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.--16 years, 14.9 ft^3/s (0.42 m^3/s), 10,800 acre-ft/yr (13.3 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)
May 9	0500	277	7.84	2.63	0.802
May 23	0830	*489	13.8	2.97	.905

Minimum daily discharge, 1.1 ft^3/s (0.031 m^3/s), Jan 12, result of a temporary blockage by ice upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	2.5	2.1	1.7	1.9	3.4	9.0	92	113	25	9.4	5.0
2	2.6	2.4	2.1	1.7	1.8	3.9	8.7	94	108	24	8.5	4.8
3	2.6	2.4	2.1	1.7	1.8	4.2	9.5	100	96	23	8.3	4.6
4	2.6	2.3	2.1	1.7	1.9	4.2	11	100	95	22	7.9	4.6
5	2.6	2.4	2.1	1.7	1.9	4.4	15	135	95	20	7.5	4.5
6	2.7	2.3	2.1	1.7	1.9	4.4	11	143	98	18	7.0	4.5
7	2.7	2.3	2.2	1.7	1.9	4.1	10	201	98	19	5.6	4.9
8	2.7	2.4	2.2	1.7	1.9	4.1	14	211	96	19	5.5	6.1
9	2.6	2.4	2.2	1.7	1.9	4.0	17	218	94	19	5.4	8.8
10	2.7	2.4	2.2	1.7	1.9	4.1	18	194	94	18	5.3	10
11	2.7	2.3	2.1	1.7	1.9	4.4	11	172	90	17	5.1	6.8
12	2.7	2.3	2.0	1.8	1.9	4.6	9.9	169	81	16	5.0	5.9
13	2.7	2.3	2.0	1.8	1.9	4.4	9.8	122	79	15	5.1	5.3
14	2.7	2.3	2.0	1.8	2.0	5.5	13	114	63	15	5.3	5.1
15	2.8	2.3	1.9	1.8	2.0	6.3	14	105	56	14	5.1	5.0
16	2.7	2.3	1.9	1.8	2.0	5.6	14	105	49	14	5.1	4.7
17	2.7	2.2	1.9	1.8	2.0	5.3	16	105	45	13	4.9	4.6
18	2.8	2.3	1.9	1.8	2.2	5.7	21	110	44	13	4.8	4.5
19	2.8	2.3	1.9	1.8	2.2	6.2	35	122	41	13	4.7	4.3
20	3.2	2.3	1.8	1.8	2.3	6.8	40	129	40	13	4.8	4.3
21	3.0	2.3	1.8	1.8	2.3	7.4	41	181	37	12	4.7	4.3
22	2.8	2.2	1.8	1.8	2.4	7.0	45	246	36	12	4.5	4.3
23	2.9	2.2	1.8	1.8	2.4	6.7	52	314	35	12	4.5	4.2
24	2.9	2.2	1.8	1.8	2.4	6.5	42	250	34	11	5.5	4.1
25	2.9	2.2	1.8	1.8	2.5	6.2	54	198	32	11	12	4.1
26	2.9	2.2	1.8	1.8	2.7	5.7	46	166	31	10	7.8	4.0
27	2.8	2.1	1.9	1.8	3.2	6.2	60	175	28	9.8	6.4	4.0
28	2.8	2.1	1.8	1.8	3.3	6.3	70	139	27	9.4	5.8	3.9
29	2.8	2.1	1.7	1.8	3.3	6.7	70	127	25	11	5.5	3.9
30	2.8	2.1	1.7	1.8	---	8.6	87	128	25	12	5.2	3.9
31	2.6	---	1.7	1.8	---	8.3	---	107	---	10	5.1	---
TOTAL	85.5	68.4	60.4	54.7	63.7	171.2	873.9	4772	1885	470.2	187.3	149.0
MEAN	2.76	2.28	1.95	1.76	2.20	5.52	29.1	154	62.8	15.2	6.04	4.97
MAX	3.2	2.5	2.2	1.8	3.3	8.6	87	314	113	25	12	10
MIN	2.6	2.1	1.7	1.7	1.8	3.4	8.7	92	25	9.4	4.5	3.9
AC-FT	170	136	120	108	126	340	1730	9470	3740	933	372	296

CAL YR 1979 TOTAL 7268.5 MEAN 19.9 MAX 225 MIN 1.3 AC-FT 14420
WTR YR 1980 TOTAL 8841.3 MEAN 24.2 MAX 314 MIN 1.7 AC-FT 17540

09288180 STRAWBERRY RIVER NEAR DUCHESNE, UTAH

LOCATION.--Lat 40°09'17", long 110°33'15", in SE1/4SW1/4SW1/4 sec.3, T.4 S., R.6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 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, except those for winter period, which are poor. 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.--12 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, 1,310 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.--Peak discharge 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)
May 9	1400	1060	30.0	5.98	1.823
May 23	1700	*1220	34.6	*6.39	1.948

Minimum recorded, 38 ft^3/s (1.08 m^3/s) Nov. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	72	58	66	58	79	78	552	724	203	111	110
2	49	72	63	66	62	82	80	549	724	212	108	108
3	50	72	69	64	66	84	77	583	684	194	103	98
4	52	71	72	68	66	86	79	697	672	187	100	89
5	52	72	73	68	66	87	94	787	680	181	100	90
6	52	71	72	69	66	84	107	828	676	170	105	89
7	50	71	72	68	67	84	103	921	648	164	103	93
8	51	73	72	70	66	82	89	963	628	170	105	106
9	54	73	71	67	60	80	101	983	597	174	106	121
10	57	71	69	65	57	82	121	995	586	166	105	176
11	57	71	58	54	58	84	113	894	574	162	99	127
12	55	71	54	64	62	87	114	781	556	156	99	110
13	56	74	56	67	69	77	114	685	544	156	103	113
14	58	73	58	70	72	86	125	637	530	154	108	111
15	60	70	64	72	76	89	154	683	497	141	104	109
16	61	66	68	70	77	87	182	671	455	128	107	107
17	68	67	65	70	77	79	186	667	431	124	106	105
18	72	68	66	70	79	82	205	661	404	123	104	105
19	73	66	65	70	80	85	227	695	382	123	102	104
20	104	66	66	69	80	86	256	761	375	119	107	109
21	103	63	66	68	78	91	285	869	362	116	110	105
22	84	58	66	68	76	86	286	1100	344	114	109	106
23	84	63	66	66	74	86	356	1140	319	118	109	105
24	82	64	65	68	70	88	331	1160	305	119	117	103
25	81	67	65	68	72	83	372	1040	285	114	147	104
26	80	58	62	65	74	79	408	868	271	100	153	104
27	78	50	56	68	77	82	424	788	242	99	133	105
28	77	48	60	68	77	81	449	764	220	97	122	104
29	75	50	63	67	78	80	531	740	210	93	116	100
30	75	52	64	62	---	83	586	736	201	103	113	99
31	73	---	66	55	---	76	---	744	---	108	108	---
TOTAL	2069	1983	2010	2070	2040	2587	6633	24942	14126	4388	3422	3215
MEAN	66.7	66.1	64.8	66.8	70.3	83.5	221	805	471	142	110	107
MAX	104	74	73	72	80	91	586	1160	724	212	153	176
MIN	46	48	54	54	57	76	77	549	201	93	99	89
AC-FT	4100	3930	3990	4110	4050	5130	13160	49470	28020	8700	6790	6380

CAL YR 1979 TOTAL 46143 MEAN 126 MAX 744 MIN 38 AC-FT 91520
WTR YR 1980 TOTAL 69485 MEAN 190 MAX 1160 MIN 46 AC-FT 137800

09288900 SOWERS CREEK NEAR DUCHESNE, UTAH

LOCATION.--Lat 39°59'22", long 110°27'33", in SW1/4SW1/4NW1/4 sec.4, T.6 S., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on left bank 0.5 mi (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 period of no gage-height record Apr. 26 to May 22 and winter period, which are poor. No diversion above station.

AVERAGE DISCHARGE.--16 years, 3.86 ft^3/s (0.109 m^3/s), 2,800 acre-ft/yr (3.45 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); 66 ft^3/s (1.87 m^3/s), May 22, gage height, 3.92 ft (1.195 m); minimum, 0.73 ft^3/s (0.021 m^3/s) Jan. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	4.2	1.4	2.6	1.5	3.6	3.7	13	25	15	11	8.5
2	4.0	4.1	1.8	2.7	1.7	3.6	3.5	13	23	15	11	8.2
3	3.9	3.5	2.2	3.0	1.8	3.6	3.2	14	20	14	11	8.0
4	3.9	3.6	2.5	3.0	2.0	3.5	3.6	14	21	14	11	7.9
5	3.8	3.5	3.0	2.6	2.3	3.4	3.7	16	20	14	11	7.8
6	3.8	3.5	3.3	2.6	2.4	3.5	3.7	17	20	13	11	7.8
7	3.7	3.6	3.2	2.5	2.4	3.5	3.4	22	19	13	11	8.6
8	3.7	3.6	3.2	2.6	1.9	3.1	3.5	25	20	13	11	8.6
9	3.7	3.6	3.1	2.6	1.9	3.0	3.6	25	20	13	10	11
10	3.6	4.0	3.2	2.5	1.9	3.2	3.5	23	20	13	10	11
11	3.7	3.5	2.6	1.6	2.0	3.4	2.8	22	20	12	10	8.8
12	3.6	3.4	2.2	2.5	2.3	3.3	2.6	20	20	13	10	8.4
13	3.6	3.3	2.0	3.0	2.6	3.2	2.7	16	20	13	10	8.2
14	3.6	3.2	2.0	3.5	2.8	3.7	2.7	15	19	12	10	7.9
15	3.6	3.1	2.3	2.7	3.2	3.8	2.9	14	19	12	11	7.7
16	3.5	3.1	2.6	2.7	3.2	3.4	2.9	14	18	12	10	7.5
17	3.1	3.2	2.8	2.6	3.3	3.7	2.9	14	18	12	9.8	7.4
18	3.4	3.4	3.0	2.6	4.0	3.7	3.0	15	17	12	9.6	7.3
19	3.8	3.5	3.0	2.5	4.6	3.5	3.0	16	17	12	9.6	7.2
20	4.8	3.4	2.9	2.1	4.3	3.7	3.3	17	17	12	9.5	7.2
21	4.3	2.7	2.8	2.2	3.7	3.6	3.7	25	16	12	9.3	7.1
22	4.0	2.0	2.8	2.4	3.5	3.4	4.7	33	16	12	9.2	7.1
23	4.0	2.0	2.5	1.9	3.4	3.4	6.0	37	15	12	9.2	7.0
24	3.9	2.0	2.5	2.5	2.9	3.4	6.8	36	15	12	9.1	6.9
25	3.7	2.4	2.9	2.5	2.9	3.6	8.2	34	14	11	9.9	6.8
26	3.7	2.7	2.7	1.9	3.2	3.9	8.5	31	15	11	10	6.8
27	3.7	2.2	2.6	2.4	3.8	3.4	9.0	28	14	11	9.4	6.7
28	3.7	1.6	2.6	2.5	4.1	3.4	9.5	27	15	11	8.9	6.6
29	3.7	1.3	2.7	2.0	3.9	3.4	10	27	15	12	8.7	6.5
30	3.7	1.2	3.1	1.8	---	3.3	12	25	15	12	8.6	6.4
31	3.7	---	2.3	1.5	---	4.8	---	25	---	11	8.6	---
TOTAL	116.9	90.4	81.8	76.1	83.5	109.0	142.6	675	543	386	308.4	232.9
MEAN	3.77	3.01	2.64	2.45	2.88	3.52	4.75	21.8	18.1	12.5	9.95	7.76
MAX	4.8	4.2	3.3	3.5	4.6	4.8	12	38	25	15	11	11
MIN	3.1	1.2	1.4	1.5	1.5	3.0	2.6	13	14	11	8.6	6.4
AC-FT	232	179	162	151	166	216	283	1340	1080	766	612	462

CAL YR 1979 TOTAL 2251.7 MEAN 6.17 MAX 25 MIN 1.2 AC-FT 4470
WTR YR 1980 TOTAL 2845.6 MEAN 7.77 MAX 38 MIN 1.2 AC-FT 5640

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

LOCATION.--Lat 40°36'24", long 110°31'35", in SW1/4SE1/4SE1/4 sec. 35, T.3 N., R.6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 2,000 ft (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.--30 years (water years 1943-55, 1964-80), 111 ft^3/s (3.144 m^3/s), 80,420 acre-ft/yr (99.2 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.--Peak discharges above base of 1,000 ft^3/s (28.3 m^3/s) and maximums(*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
June 11	2200	*1610	45.6	3.97	1.210
June 19	2300	1510	42.8	3.86	1.177

Minimum daily, 16 ft^3/s (0.45 m^3/s) Jan. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	30	21	18	18	20	19	80	205	635	86	50
2	36	28	21	18	19	20	19	76	211	602	83	48
3	36	27	21	18	20	20	19	83	205	520	79	46
4	35	27	21	18	20	21	19	108	262	416	76	44
5	35	27	21	18	21	21	19	126	380	359	73	43
6	35	26	20	19	20	21	20	130	486	318	71	41
7	35	26	20	19	19	21	20	146	536	300	70	44
8	34	26	20	20	19	21	21	156	665	279	69	50
9	34	25	19	21	19	21	21	157	802	265	68	51
10	34	24	19	20	19	21	22	136	992	262	66	106
11	34	24	18	19	19	20	21	116	1230	229	64	94
12	33	24	17	20	19	20	20	103	1320	217	64	85
13	33	24	18	21	19	20	20	92	1080	202	70	77
14	34	24	19	21	19	20	21	87	976	188	75	68
15	34	24	19	21	20	19	22	87	852	175	80	62
16	34	23	19	21	20	19	23	89	817	168	97	57
17	35	22	19	21	20	20	26	83	876	158	95	54
18	36	20	19	21	20	20	30	83	931	153	91	52
19	40	19	18	21	21	20	36	93	1070	145	88	51
20	42	19	18	20	22	20	43	124	1070	138	85	50
21	38	19	18	21	22	20	50	180	1000	129	80	49
22	37	19	18	21	21	19	61	250	920	118	75	48
23	38	20	19	21	21	19	61	300	840	115	75	47
24	38	21	19	21	21	19	53	247	820	114	73	44
25	38	20	19	21	20	19	61	205	815	107	78	43
26	38	20	17	21	20	19	70	178	814	102	85	43
27	36	19	18	22	20	19	69	168	689	97	71	42
28	35	19	18	20	20	19	78	175	596	93	64	41
29	35	20	18	20	20	19	91	180	613	90	57	40
30	35	20	18	19	---	19	96	172	624	90	53	39
31	31	---	18	16	---	19	---	188	---	87	52	---
TOTAL	1104	686	587	618	578	615	1151	4400	22697	6871	2313	1609
MEAN	35.6	22.9	18.9	19.9	19.9	19.8	38.4	142	757	222	74.6	53.6
MAX	42	30	21	22	22	21	96	300	1320	635	97	106
MIN	31	19	17	16	18	19	19	76	205	87	52	39
AC-FT	2190	1360	1160	1230	1150	1220	2280	8730	45020	13630	4590	3190

CAL YR 1979 TOTAL 30905 MEAN 84.7 MAX 938 MIN 16 AC-FT 61300
WTR YR 1980 TOTAL 43229 MEAN 118 MAX 1320 MIN 16 AC-FT 85740

NOTE: No gage-height record Feb. 19 to Apr. 16.

09290500 MOON LAKE RESERVOIR NEAR MOUNTAIN HOME, UTAH

LOCATION.--Lat 40°33'43", long 110°29'21", in NW1/4NE1/4NE1/4 sec.19, T.2 N., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, at dam on Lake Fork River, 1.4 mi (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 National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service).

REMARKS.--Reservoir formed by earth-fill, 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 is 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 Water and Power Resources Service. 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 (0.279 hm^3) Sept. 30, 1946.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 35,840 acre-ft (44.2 hm^3) June 1, elevation 8,137.1 ft (2,480.188 m); minimum contents observed, 3,140 acre-ft (3.87 hm^3) Oct. 3.

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

8,080	2,460	8,100	11,470	8,130	30,490
8,085	4,320	8,110	17,130	8,138	36,540
8,090	6,490	8,120	23,470		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	11040	35840	---	14100
2	---	3360	---	---	---	---	---	11900	---	---	---	13770
3	---	---	---	---	---	---	---	---	---	---	26760	---
4	---	---	---	---	---	---	---	---	11790	---	26480	---
5	---	---	---	---	---	---	---	---	12330	---	---	12550
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	10620	---	---	24820	11570
9	---	---	---	---	---	---	---	10520	16770	---	---	11260
10	---	---	---	---	---	---	---	---	---	---	---	11150
11	---	---	---	---	---	---	---	---	20980	---	---	---
12	---	---	---	---	---	---	---	---	23810	---	22940	---
13	---	---	---	---	---	---	---	---	25580	---	---	---
14	---	---	---	---	---	---	---	9850	26480	---	21760	11260
15	---	---	---	---	---	---	---	---	27320	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	11310
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	20090	---
19	---	---	---	---	---	---	---	8890	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	8540	---	32790	---	---
23	---	---	---	---	---	---	---	---	---	32420	---	11360
24	---	---	---	---	---	---	---	---	---	31970	---	11260
25	---	---	---	---	---	---	---	9140	---	---	---	---
26	3470	4740	---	---	---	---	---	10210	---	31220	---	---
27	---	---	---	---	---	---	12550	---	---	---	---	---
28	---	---	---	---	8990	---	---	---	---	---	---	---
29	---	---	---	---	a9040	---	---	10520	---	---	15710	---
30	---	a4860	---	---	---	---	a12160	---	a35600	---	---	a10260
31	a3140	---	a5760	a7520	---	a10520	---	a10880	---	a28430	a14640	---
(‡)	+1920	+1720	+900	+1760	+1520	+1480	+1640	-1280	+24720	-7170	-13790	-4380

CAL YR 1979 . . . . . (‡) +1640
WTR YR 1980 . . . . . (‡) +1480

(‡) 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 SW1/4SW1/4NW1/4 sec.20, T.2 N., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 2,000 ft (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 damsite 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.--38 years (1942-1980), 124 ft^3/s (3.512 m^3/s) 89,840 acre-ft/yr (111 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 were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,220 ft^3/s (34.6 m^3/s) June 20, gage height, 4.06 ft (1.237 m); no flow most of the year when reservoir gates were closed.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	70	.00	.00	.00	.00	.00	233	192	555	353	304
2	.00	16	.00	.00	.00	.00	.00	254	192	600	349	283
3	.00	.00	.00	.00	.00	.00	.00	254	192	590	344	249
4	.00	.00	.00	.00	.00	.00	.00	251	195	485	311	247
5	.00	.00	.00	.00	.00	.00	.00	251	169	362	288	246
6	.00	.00	.00	.00	.00	.00	.00	251	131	315	284	245
7	.00	.00	.00	.00	.00	.00	.00	288	133	307	280	245
8	.00	.00	.00	.00	.00	.00	.00	296	133	307	288	243
9	.00	.00	.00	.00	.00	.00	.00	251	146	307	296	205
10	.00	.00	.00	.00	.00	.00	.00	227	174	299	288	123
11	.00	.00	.00	.00	.00	.00	.00	227	180	299	288	99
12	.00	.00	.00	.00	.00	.00	.00	227	186	296	307	100
13	.00	.00	.00	.00	.00	.00	.00	227	207	292	323	100
14	.00	.00	.00	.00	.00	.00	.00	227	220	292	319	93
15	.00	.00	.00	.00	.00	.00	.00	227	220	288	323	57
16	.00	.00	.00	.00	.00	.00	.00	224	220	288	323	57
17	.00	.00	.00	.00	.00	.00	.00	224	217	340	321	57
18	.00	.00	.00	.00	.00	.00	.00	224	222	380	320	57
19	.00	.00	.00	.00	.00	.00	.00	251	362	380	319	56
20	.00	.00	.00	.00	.00	.00	.00	265	1120	375	318	57
21	.00	.00	.00	.00	.00	.00	.00	262	1000	370	318	57
22	.00	.00	.00	.00	.00	.00	.00	230	961	362	316	57
23	.00	.00	.00	.00	.00	.00	.00	210	916	319	313	80
24	.00	.00	.00	.00	.00	.00	.00	123	820	296	314	121
25	.00	.00	.00	.00	.00	.00	.00	126	826	311	313	149
26	16	.00	.00	.00	.00	.00	.00	152	784	336	312	149
27	68	.00	.00	.00	.00	.00	20	192	660	375	309	149
28	70	.00	.00	.00	.00	.00	93	192	520	370	308	146
29	70	.00	.00	.00	.00	.00	149	192	485	366	306	146
30	70	.00	.00	.00	---	.00	244	192	550	362	307	118
31	70	---	.00	.00	---	.00	---	192	---	357	306	---
TOTAL	364.00	86.00	.00	.00	.00	.00	506.00	6942	12333	11181	9664	4295
MEAN	11.7	2.87	.000	.000	.000	.000	16.9	224	411	361	312	143
MAX	70	70	.00	.00	.00	.00	244	296	1120	600	353	304
MIN	.00	.00	.00	.00	.00	.00	.00	123	131	288	280	56
AC-FT	722	171	.00	.00	.00	.00	1000	13770	24460	22180	19170	8520

CAL YR 1979 TOTAL 35945.00 MEAN 98.5 MAX 440 MIN .00 AC-FT 71300
WTR YR 1980 TOTAL 45371.00 MEAN 124 MAX 1120 MIN .00 AC-FT 89990

NOTE: No gage-height record Nov. 29 to Apr. 16.

09291200 LAKE FORK RIVER BELOW TASKEECH DAMSITE, NEAR MT. HOME, UTAH

LOCATION.--Lat 40°30'05", long 110°24'17", in NE1/4NE1/4NW1/4 sec.12, T.1 N., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank 4.5 mi (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 sta 09290500).

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, 1,220 ft^3/s (34.6 m^3/s) June 22, gage height, 5.02 ft (1.530 m); minimum daily, 7.0 ft^3/s (0.198 m^3/s) Feb. 29, Mar. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	9.8	9.4	8.4	10	7.0	7.3	166	83	453	289	203
2	11	9.6	9.4	8.4	9.9	7.2	7.4	140	83	496	279	247
3	11	9.5	9.4	8.4	9.8	7.4	7.4	171	84	512	275	246
4	11	9.6	9.4	8.4	9.8	7.3	7.4	155	84	397	262	247
5	11	9.8	9.4	8.4	9.5	7.2	8.0	148	75	228	242	245
6	10	9.8	9.4	8.4	9.5	7.1	8.3	105	29	182	235	243
7	10	9.7	9.4	8.6	9.1	7.2	8.0	124	28	192	230	243
8	9.8	10	9.4	8.8	9.0	8.1	8.0	131	35	203	235	244
9	9.8	10	9.4	9.0	8.8	8.1	7.9	96	25	260	242	210
10	9.9	10	9.4	9.6	8.6	8.1	8.5	68	29	255	234	138
11	9.9	10	9.4	9.6	8.5	8.1	8.0	66	32	251	230	91
12	9.5	10	9.4	9.8	8.3	8.1	7.7	63	34	247	243	86
13	9.5	10	9.4	10	7.9	7.8	9.8	62	47	243	259	86
14	9.5	10	9.4	10	7.8	7.4	8.6	61	58	237	259	84
15	9.5	10	9.0	10	7.7	7.7	9.7	60	56	234	260	52
16	9.5	10	9.0	10	7.6	7.7	10	59	53	226	254	49
17	9.5	10	9.0	10	7.5	7.7	11	58	53	264	250	48
18	9.8	10	9.0	10	8.1	7.6	12	59	54	321	244	48
19	10	10	9.0	10	7.7	7.6	13	86	164	322	242	48
20	11	10	9.0	10	7.7	7.6	14	97	948	317	219	48
21	11	9.4	9.0	9.8	7.6	7.6	13	101	878	312	216	47
22	10	9.4	9.0	9.7	7.5	7.6	15	106	856	309	214	47
23	10	9.4	9.0	9.8	7.2	7.7	13	107	823	273	217	55
24	10	9.4	9.0	9.8	7.3	7.7	12	43	681	234	227	98
25	9.8	9.4	9.0	9.8	7.5	7.6	11	35	672	246	217	129
26	9.7	9.4	8.4	9.9	7.6	7.5	11	41	618	263	219	134
27	9.8	9.4	8.4	9.8	7.4	7.4	11	76	528	312	215	134
28	10	9.4	8.4	9.8	7.2	7.4	14	80	414	311	211	135
29	10	9.4	8.4	9.9	7.0	7.3	68	81	373	305	209	134
30	10	9.4	8.4	9.9	---	7.3	198	82	443	296	207	123
31	9.7	---	8.4	9.9	---	7.3	---	83	---	292	206	---
TOTAL	313.2	291.8	281.0	293.9	239.1	234.4	548.0	2810	8340	8993	7341	3942
MEAN	10.1	9.73	9.06	9.48	8.24	7.56	18.3	90.6	278	290	237	131
MAX	12	10	9.4	10	10	8.1	198	171	948	512	289	247
MIN	9.5	9.4	8.4	8.4	7.0	7.0	7.3	35	25	182	206	47
AC-FT	621	579	557	583	474	465	1090	5570	16540	17840	14560	7820

CAL YR 1979 TOTAL 25607.7 MEAN 70.2 MAX 396 MIN 3.1 AC-FT 50790
WTR YR 1980 TOTAL 33627.4 MEAN 91.9 MAX 948 MIN 7.0 AC-FT 66700

09292500 YELLOWSTONE RIVER NEAR ALTONAH, UTAH

LOCATION.--Lat 40°30'43", long 110°20'27", in SW1/4SW1/4NE1/4 sec.4, T.1 N., R.4 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank 1.5 mi (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.--36 years, 137 ft^3/s (3.880 m^3/s), 99,260 acre-ft/yr (122 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 10	2100	*1590	45.0	3.37	1.027
June 19	2400	1220	34.6	2.98	.908

Minimum daily, 34 ft^3/s (0.96 m^3/s) Feb. 1, 2, Mar. 17-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	54	54	37	34	43	42	101	229	573	147	103
2	58	56	54	37	34	44	42	95	239	545	141	99
3	59	56	54	37	35	44	38	100	236	501	136	96
4	58	54	54	37	37	47	38	115	292	435	132	94
5	57	54	54	37	37	45	38	135	445	380	128	94
6	57	53	54	37	38	44	40	136	445	343	128	93
7	56	53	45	37	38	44	37	168	518	333	138	95
8	56	52	45	37	38	44	41	186	634	325	135	102
9	55	51	45	37	38	44	43	193	840	321	130	101
10	56	51	45	37	39	44	41	184	1220	334	123	172
11	55	50	44	37	41	44	40	157	1280	289	119	161
12	55	53	43	38	41	43	40	137	1160	271	115	142
13	55	55	42	39	41	39	41	125	1100	263	127	131
14	54	52	41	40	41	39	43	110	1010	240	133	123
15	56	55	41	41	41	39	47	109	853	221	140	114
16	56	50	41	42	43	36	47	112	762	209	141	108
17	56	49	41	44	41	34	52	111	901	197	130	103
18	57	49	41	46	42	34	58	109	963	189	120	99
19	62	45	41	42	41	34	65	112	1020	181	108	97
20	69	44	41	40	41	34	77	135	1020	174	107	95
21	63	45	40	38	43	34	81	184	917	168	103	94
22	62	44	40	37	44	34	94	254	879	163	100	93
23	66	44	40	37	42	34	90	351	827	156	114	92
24	63	38	41	38	42	37	78	312	735	163	122	90
25	62	50	41	38	42	39	78	254	727	155	130	88
26	62	50	40	38	43	47	90	219	699	147	142	87
27	61	50	40	38	44	42	90	200	624	143	125	86
28	60	50	40	38	44	39	91	195	509	136	116	85
29	57	50	37	36	43	42	104	207	523	134	108	84
30	55	54	37	35	---	41	115	207	578	134	106	82
31	50	---	37	35	---	45	---	216	---	132	104	---
TOTAL	1808	1511	1353	1187	1168	1253	1821	5229	22185	7955	3848	3103
MEAN	58.3	50.4	43.6	38.3	40.3	40.4	60.7	169	740	257	124	103
MAX	69	56	54	46	44	47	115	351	1280	573	147	172
MIN	50	38	37	35	34	34	37	95	229	132	100	82
AC-FT	3590	3000	2680	2350	2320	2490	3610	10370	44000	15780	7630	6150

CAL YR 1979 TOTAL 38294 MEAN 105 MAX 888 MIN 22 AC-FT 75960
WTR YR 1980 TOTAL 52421 MEAN 143 MAX 1280 MIN 34 AC-FT 104000

09293000 YELLOWSTONE RIVER NEAR MT. HOME, UTAH

LOCATION.--Lat 40°26'39", long 110°21'48", in SE1/4NE1/4NW1/4 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 current year.

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 except those for winter months and those for period of doubtful gage-height record, which are fair. Slight regulation caused by powerplant 6.7 mi (11 km) upstream and one diversion above station for irrigation below.

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 discharge, 2.9 ft^3/s (0.082 m^3/s) May 11, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,560 ft^3/s (44.2 m^3/s) June 11, gage height, 3.81 ft (1.161 m); minimum daily, 9.0 ft^3/s (0.25 m^3/s) Aug. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	59	61	43	40	45	39	40	200	470	11	9.9
2	62	59	61	43	40	45	39	35	220	435	11	9.9
3	63	64	61	43	40	46	39	37	210	391	10	9.6
4	61	61	59	43	40	46	40	49	260	341	9.9	9.6
5	60	61	62	43	41	45	41	66	349	303	9.6	9.6
6	59	60	57	43	42	46	43	72	349	299	9.6	9.9
7	59	60	52	43	42	45	43	99	400	299	11	10
8	59	60	52	43	42	45	44	155	510	283	11	12
9	58	59	52	43	42	45	44	182	700	239	10	12
10	59	57	52	43	43	45	44	153	1050	243	10	54
11	58	58	51	43	44	45	42	125	1130	216	9.6	86
12	58	54	50	43	44	47	41	108	1050	206	9.6	70
13	60	56	49	43	44	48	40	96	950	209	10	57
14	58	57	48	43	44	45	43	86	850	176	11	51
15	60	56	47	44	44	45	48	89	760	152	12	31
16	59	56	47	46	44	45	50	93	670	135	13	22
17	60	56	47	48	44	45	53	94	730	100	11	19
18	63	57	47	50	44	43	58	91	810	62	10	17
19	67	53	47	49	44	43	65	89	836	50	9.6	16
20	75	52	47	46	44	43	73	107	844	45	9.3	15
21	69	53	46	45	43	43	78	156	748	33	9.3	15
22	67	52	46	44	44	43	96	239	708	26	9.0	14
23	70	52	46	43	44	43	94	295	668	19	9.9	13
24	67	46	47	44	44	42	79	257	590	17	11	13
25	67	59	47	44	44	42	73	208	578	16	12	12
26	68	60	47	44	45	42	89	182	566	14	15	12
27	66	60	46	44	45	42	89	170	524	13	12	11
28	65	60	46	44	45	41	89	175	441	13	11	11
29	63	60	43	42	45	40	103	189	453	13	11	11
30	62	61	43	41	---	39	69	179	494	11	10	10
31	57	---	43	41	---	39	---	186	---	9.6	10	---
TOTAL	1942	1718	1549	1361	1251	1358	1788	4102	18648	4838.6	328.4	652.5
MEAN	62.6	57.3	50.0	43.9	43.1	43.8	59.6	132	622	156	10.6	21.8
MAX	75	64	62	50	45	48	103	295	1130	470	15	86
MIN	57	46	43	41	40	39	39	35	200	9.6	9.0	9.6
AC-FT	3850	3410	3070	2700	2480	2690	3550	8140	36990	9600	651	1290

CAL YR 1979 TOTAL 28146.0 MEAN 77.1 MAX 686 MIN 4.6 AC-FT 55830
WTR YR 1980 TOTAL 39536.5 MEAN 108 MAX 1130 MIN 9.0 AC-FT 78420

09293500 LAKE FORK RIVER NEAR ALTONAH, UTAH

LOCATION.--Lat 40°26'13", long 110°21'49", in SE1/4NE1/4SW1/4 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 current year.

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, which are poor. Several major diversions above gage for irrigation.

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, 2,870 ft^3/s (81.3 m^3/s) June 21, gage height, 5.01 ft (1.527 m); minimum daily, 22 ft^3/s (0.62 m^3/s) Sept. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	54	50	54	52	55	46	130	178	679	212	148
2	44	56	54	54	52	54	45	94	178	716	208	182
3	41	58	58	54	52	56	45	117	166	686	198	182
4	41	56	60	54	52	56	45	115	211	530	192	181
5	41	55	62	54	52	54	48	133	345	370	176	178
6	40	54	64	54	51	55	49	113	296	312	166	175
7	40	54	66	54	53	54	45	140	350	324	158	175
8	39	54	68	54	50	54	45	196	464	300	164	175
9	38	53	65	55	49	59	50	202	602	308	170	157
10	39	53	62	56	49	56	51	153	869	332	167	154
11	39	55	60	57	48	54	49	131	1120	304	163	121
12	38	52	57	58	50	53	47	103	1140	284	171	105
13	38	55	55	59	52	56	45	85	1030	280	197	93
14	37	59	55	60	53	58	39	75	873	250	207	87
15	51	57	55	62	54	55	25	75	648	222	208	47
16	56	58	55	62	55	53	27	78	495	187	210	32
17	56	56	55	62	56	51	29	76	628	200	200	28
18	57	57	55	60	55	53	35	74	744	242	192	25
19	61	54	55	57	54	52	42	91	827	232	187	24
20	71	57	55	56	52	51	51	119	2110	236	168	23
21	65	70	55	56	52	51	59	159	2090	228	168	23
22	63	62	56	56	52	51	76	227	2030	225	165	22
23	65	67	56	56	52	51	73	288	1690	197	166	25
24	63	65	55	56	52	50	46	201	1320	150	176	60
25	63	74	54	56	53	50	34	138	1250	160	175	81
26	63	72	53	56	53	49	43	111	1170	166	170	86
27	61	67	52	56	54	49	43	135	1020	204	165	88
28	59	55	53	55	56	48	44	144	658	209	162	89
29	59	50	54	55	56	48	90	160	581	209	158	89
30	57	45	54	60	---	48	173	163	693	203	155	82
31	53	---	54	55	---	45	---	172	---	208	150	---
TOTAL	1581	1734	1762	1753	1521	1629	1539	4198	25776	9153	5524	2937
MEAN	51.0	57.8	56.8	56.5	52.4	52.5	51.3	135	859	295	178	97.9
MAX	71	74	68	62	56	59	173	288	2110	716	212	182
MIN	37	45	50	54	48	45	25	74	166	150	150	22
AC-FT	3140	3440	3490	3480	3020	3230	3050	8330	51130	18150	10960	5830

CAL YR 1979 TOTAL 37514.9 MEAN 103 MAX 731 MIN 7.9 AC-FT 74410
WTR YR 1980 TOTAL 59107.0 MEAN 161 MAX 2110 MIN 22 AC-FT 117200

09293600 LAKE FORK RIVER NEAR ALTAMONT, UTAH

LOCATION.--Lat 40°21'28", long 110°18'46", in NE1/4NE1/4NE1/4 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 current year.

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, which are fair. Many diversions for irrigation above station.

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, 1,580 ft^3/s (44.7 m^3/s) June 20, 21, 22, gage height, 5.96 ft (1.817 m); minimum daily, 1.0 ft^3/s (0.028 m^3/s) Dec. 12.

REVISIONS.--The maximum discharge for the water year 1978 has been revised to 534 ft^3/s (15.1 m^3/s) June 10, 1978, gage height, 4.83 ft (1.472 m), superseding figure published in the report for 1978.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	1.9	26	35	43	45	16	8.8	31	160	32	17
2	12	2.0	29	36	45	47	6.1	5.7	31	197	30	17
3	14	2.1	47	37	46	48	5.4	17	30	162	27	16
4	13	2.3	32	37	47	48	5.4	18	31	94	26	16
5	12	2.4	50	36	48	49	6.9	18	31	55	24	15
6	12	2.5	29	34	48	46	6.9	18	28	49	24	15
7	9.7	2.4	19	30	48	41	5.7	18	37	42	25	15
8	6.1	2.5	14	38	48	38	5.0	20	50	35	26	16
9	5.9	2.5	8.0	41	45	35	5.7	20	91	24	27	16
10	5.9	2.2	6.8	44	42	32	5.4	17	350	17	27	19
11	6.3	2.3	4.2	36	44	28	4.8	13	706	27	25	17
12	6.1	2.3	1.0	42	45	21	4.2	11	650	36	25	16
13	6.2	2.3	4.6	45	46	15	4.2	8.5	548	35	29	16
14	6.1	2.4	2.2	47	47	12	4.2	7.2	385	27	29	15
15	6.1	2.3	11	48	47	12	4.0	6.9	194	27	26	12
16	6.6	2.3	10	49	48	7.9	3.7	6.4	81	24	24	4.1
17	5.0	2.4	4.7	49	48	6.6	3.6	6.1	160	25	23	3.7
18	6.0	2.7	2.6	49	48	6.9	3.4	6.4	224	33	23	3.7
19	7.3	2.5	3.6	49	48	8.2	3.4	7.2	323	34	21	3.4
20	13	2.7	13	49	47	8.2	3.4	8.5	1250	32	18	3.5
21	12	2.4	21	49	47	5.7	3.6	12	1280	32	18	3.7
22	10	1.4	17	48	46	5.2	4.0	14	1170	31	19	3.3
23	10	2.4	15	48	47	5.9	5.7	24	980	32	20	2.8
24	9.9	1.9	16	48	43	5.7	5.9	22	678	29	21	3.0
25	4.9	4.3	13	47	42	5.2	5.7	20	587	33	22	2.9
26	3.1	4.9	12	47	42	3.6	8.2	16	497	28	21	3.0
27	2.6	2.8	12	47	43	4.2	7.9	16	390	36	19	3.0
28	2.7	1.3	14	47	44	21	7.9	25	171	37	18	2.9
29	3.6	18	19	47	44	32	8.2	28	121	37	18	3.7
30	2.6	39	23	46	---	42	13	29	150	37	17	5.7
31	2.1	---	29	43	---	26	---	30	---	35	17	---
TOTAL	232.5	125.4	508.7	1348	1326	711.3	177.5	477.7	11255	1502	721	290.4
MEAN	7.50	4.18	16.4	43.5	45.7	22.9	5.92	15.4	375	48.5	23.3	9.68
MAX	14	39	50	49	48	49	16	30	1280	197	32	19
MIN	2.1	1.3	1.0	30	42	3.6	3.4	5.7	28	17	17	2.8
AC-FT	461	249	1010	2670	2630	1410	352	948	22320	2980	1430	576

CAL YR 1979 TOTAL 11900.1 MEAN 32.6 MAX 320 MIN 1.0 AC-FT 23600
WTR YR 1980 TOTAL 18675.5 MEAN 51.0 MAX 1280 MIN 1.0 AC-FT 37040

09294000 LAKE FORK RIVER NEAR UPALCO, UTAH

LOCATION.--Lat 40°15'30", long 110°13'18", in SW1/4SE1/4SE1/4 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 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 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 good except those for winter period, which are fair.

AVERAGE DISCHARGE.--17 years (1942-55, 1976-80) 50.0 ft^3/s (1.416 m^3/s), 36,220 acre-ft/yr (44.7 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 903 ft^3/s (25.6 m^3/s) June 21, gage height, 6.64 ft (2.024 m); no flow for several days in Oct. and Nov.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	4.1	45	41	60	15	.63	3.4	85	.84	.53
2	.00	.00	5.7	47	42	56	13	.40	2.1	161	.67	.48
3	.00	.00	8.2	47	46	53	11	.69	1.7	138	.62	.49
4	.04	.00	11	46	50	51	11	2.2	1.8	57	.80	.43
5	.04	.02	16	44	54	55	13	1.8	2.0	16	.45	.43
6	.04	.02	14	43	56	55	15	1.3	1.2	6.6	.45	.41
7	.13	.02	12	43	60	54	14	1.1	2.3	6.9	.45	.47
8	.09	.02	11	45	52	56	12	1.6	7.0	3.2	.47	.95
9	.02	.00	11	47	48	55	9.8	1.6	29	3.0	.48	1.9
10	.00	.02	9.9	48	44	50	9.8	2.0	258	.79	.46	13
11	.02	.02	8.1	48	42	36	10	3.6	565	1.9	.41	8.3
12	.00	.02	6.0	49	46	30	8.2	5.0	535	3.2	.41	3.7
13	.00	.02	4.1	48	49	23	7.6	3.2	454	1.3	.64	2.5
14	.02	.02	5.4	48	53	27	3.0	2.0	332	.89	.90	1.8
15	.02	.02	6.7	49	56	28	.69	1.4	180	.83	.79	1.4
16	.00	.02	9.0	49	62	23	.76	.83	42	.66	.56	.60
17	.00	.02	10	50	64	21	.76	.46	87	.49	.50	.39
18	.00	.04	8.5	50	68	19	.46	.46	151	.92	.47	.37
19	.00	.02	9.0	53	64	20	.43	.46	201	.95	.89	.38
20	.33	.04	11	54	60	20	.40	.43	680	.91	.69	.37
21	.22	.02	13	55	64	19	.33	.33	803	.78	.41	.38
22	.13	.02	16	55	64	17	.37	.50	773	.67	.44	.37
23	.09	.04	22	55	63	17	.40	1.5	713	.62	.47	.37
24	.11	.07	31	55	58	19	.46	1.6	574	.47	.52	.34
25	.11	.04	37	55	55	19	.37	1.4	532	.86	.98	.32
26	.02	.09	34	54	57	18	.40	1.3	470	.46	.91	.31
27	.02	.20	32	52	59	17	.37	.90	386	.58	.82	.31
28	.00	.28	36	49	60	15	.33	1.3	160	.68	.56	.30
29	.02	.33	39	46	60	14	.33	1.8	73	.91	.54	.30
30	.00	3.4	41	43	---	12	.63	2.0	87	1.0	.51	.36
31	.00	---	42	42	---	13	---	2.4	---	.84	.51	---
TOTAL	1.47	4.83	523.7	1514	1597	972	159.89	46.19	8106.5	497.41	18.62	42.26
MEAN	.047	.16	16.9	48.8	55.1	31.4	5.33	1.49	270	16.0	.60	1.41
MAX	.33	3.4	42	55	68	60	15	5.0	803	161	.98	13
MIN	.00	.00	4.1	42	41	12	.33	.33	1.2	.46	.41	.30
AC-FT	2.9	9.6	1040	3000	3170	1930	317	92	16080	987	37	84

CAL YR 1979 TOTAL 9133.75 MEAN 25.0 MAX 312 MIN .00 AC-FT 18120
WTR YR 1980 TOTAL 13483.87 MEAN 36.8 MAX 803 MIN .00 AC-FT 26750

09294500 LAKE FORK RIVER NEAR MYTON, UTAH

LOCATION.--Lat 40°12'32", long 110°06'59", in SW1/4SE1/4NW1/4 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 current year.

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.--33 years (1900-02, 1908-10, 1911-36, 1976-80) 146 ft^3/s (4.13 m^3/s), 105,800 acre-ft/yr (130 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, 1,020 ft^3/s (28.9 m^3/s) June 21, gage height, 6.75 ft (2.057 m); minimum daily, 2.5 ft^3/s (0.07 m^3/s) Dec. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	12	4.3	54	48	74	14	17	38	112	34	51
2	42	12	6.0	54	54	72	15	16	36	183	26	44
3	34	14	8.5	53	60	70	16	18	34	197	27	46
4	32	12	12	52	64	70	18	20	29	114	27	42
5	29	10	15	52	66	70	21	21	28	46	33	41
6	30	9.4	14	52	68	70	26	13	28	34	32	32
7	33	9.1	13	53	70	66	25	12	24	29	27	39
8	33	10	14	53	61	63	18	16	27	29	20	50
9	29	10	12	55	58	59	14	19	52	30	15	46
10	30	9.4	11	56	54	59	14	58	212	24	18	108
11	32	7.0	5.2	57	52	46	14	78	500	22	24	66
12	29	6.2	2.8	59	58	38	12	59	518	28	17	28
13	28	8.0	2.5	62	62	28	10	52	452	28	20	24
14	28	8.8	3.1	64	66	33	9.4	44	356	37	24	22
15	28	8.8	6.0	67	70	35	8.5	42	228	41	28	25
16	30	7.4	7.6	67	72	28	9.4	39	88	34	34	24
17	32	8.2	12	67	72	20	8.0	32	110	28	37	24
18	34	8.0	10	65	74	20	5.8	34	173	35	45	20
19	23	8.0	9.1	64	71	22	5.6	30	205	38	44	18
20	33	8.2	10	62	68	20	5.0	28	645	40	50	16
21	33	7.7	14	61	68	21	6.4	26	914	31	39	15
22	17	7.4	20	61	70	18	12	26	805	40	36	18
23	13	6.6	29	62	72	18	18	37	700	32	37	19
24	11	6.2	39	62	68	19	21	49	558	31	40	19
25	12	5.8	37	61	68	19	20	42	488	34	43	17
26	15	5.2	36	61	68	20	18	45	436	34	48	18
27	14	4.6	34	60	72	16	15	34	392	34	48	28
28	14	4.1	36	57	74	15	14	26	213	35	44	30
29	14	3.5	39	54	76	14	14	28	120	32	35	28
30	11	3.1	42	52	---	13	16	33	122	36	34	28
31	12	---	49	50	---	13	---	42	---	41	48	---
TOTAL	799	240.7	553.1	1809	1904	1149	423.1	1036	8531	1509	1034	986
MEAN	25.8	8.02	17.8	58.4	65.7	37.1	14.1	33.4	284	48.7	33.4	32.9
MAX	44	14	49	67	76	74	26	78	914	197	50	108
MIN	11	3.1	2.5	50	48	13	5.0	12	24	22	15	15
AC-FT	1580	477	1100	3590	3780	2280	839	2050	16920	2990	2050	1960

CAL YR 1979 TOTAL 15498.6 MEAN 42.5 MAX 279 MIN 2.5 AC-FT 30740
WTR YR 1980 TOTAL 19973.9 MEAN 54.6 MAX 914 MIN 2.5 AC-FT 39620

09295000 DUCHESNE RIVER AT MYTON, UTAH

LOCATION.--Lat 40°12'01", long 110°03'47", in NE1/4NW1/4NW1/4 sec.25, T.3 S., R.2 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank at Myton, 3 mi (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) National Geodetic Vertical Datum 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.--72 years (1899-1902, 1911-1980), 507 ft^3/s (14.36 m^3/s), 367,300 acre-ft/yr (453 hm^3/yr).

REMARKS.--Records good except those for winter period, which are poor. 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, 3,460 ft^3/s (98.0 m^3/s) June 20, gage height, 6.39 ft (1.948 m); minimum recorded, 20 ft^3/s (0.566 m^3/s) Apr. 16 (may have been lower during period of no gage-height record).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	420	196	140	92	96	167	120	299	505	1020	60	48
2	140	185	160	86	100	167	110	227	587	1100	58	48
3	50	182	180	82	104	167	100	185	555	886	56	48
4	50	185	190	84	106	167	90	215	609	719	55	42
5	52	193	200	90	110	167	85	279	820	555	53	41
6	52	200	190	98	113	160	86	100	1100	447	52	35
7	52	193	170	104	122	154	88	69	1160	371	50	40
8	52	200	150	106	123	146	82	56	1310	347	42	50
9	52	196	130	108	117	140	75	168	1600	335	40	58
10	50	100	120	108	114	133	65	411	2140	303	34	429
11	50	60	105	108	120	116	68	402	2770	275	36	447
12	50	60	95	112	130	109	55	295	3050	251	30	307
13	50	71	85	115	140	94	38	185	2940	243	34	287
14	50	182	75	123	150	97	30	140	2510	243	44	243
15	50	231	70	130	160	106	28	136	2060	208	45	223
16	50	227	70	126	173	97	30	123	1530	150	55	182
17	50	80	70	122	173	80	168	136	1550	100	48	116
18	50	62	70	120	173	89	185	160	2000	94	48	109
19	50	65	70	117	173	94	219	182	2260	100	47	71
20	103	71	70	114	173	94	259	204	2950	94	48	65
21	223	65	70	110	182	94	315	331	3240	71	47	62
22	154	80	70	108	157	94	311	730	3020	65	44	62
23	208	85	66	106	171	89	331	1060	2800	62	44	62
24	211	90	62	104	167	92	331	1180	2420	62	48	60
25	215	95	60	102	167	94	299	1030	2180	67	53	53
26	231	102	56	100	167	92	359	844	1760	62	80	48
27	227	105	62	98	167	89	351	636	1450	62	76	100
28	219	110	72	97	167	86	339	465	1060	71	58	112
29	223	120	82	96	167	116	271	495	838	62	47	56
30	223	130	93	95	---	133	343	520	838	62	42	48
31	211	---	94	94	---	130	---	470	---	60	47	---
TOTAL	3868	3921	3197	3255	4182	3653	5231	11733	53612	8547	1521	3552
MEAN	125	131	103	105	144	118	174	378	1787	276	49.1	118
MAX	420	231	200	130	182	167	359	1180	3240	1100	80	447
MIN	50	60	56	82	96	80	28	56	505	60	30	35
AC-FT	7670	7780	6340	6460	8290	7250	10380	23270	106300	16950	3020	7050

CAL YR 1979 TOTAL 139499 MEAN 382 MAX 2610 MIN 50 AC-FT 276700
WTR YR 1980 TOTAL 106272 MEAN 290 MAX 3240 MIN 28 AC-FT 210800

NOTE.--No gage-height record Feb. 25 to Mar. 5, and Mar. 31 to Apr. 16.

09297000 UINTA RIVER NEAR NEOLA, UTAH

LOCATION.--Lat 40°32'08", long 110°03'46", in SE1/4SW1/4SW1/4 sec.25, T.2 N., R.2 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank 1,000 ft (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 and those for period of no gage-height record, Jan. 3 to Mar 11, 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 1979 for Pole Creek canal are as follows:

Oct. 9	2.9	Apr. 21	6.8
Nov. 5	2.6	May 21	11.7
Dec. 4	4.5	June 12	5.6
Jan. 3	3.2	July 23	4.0
Mar. 12	3.5	Aug. 19	2.6

AVERAGE DISCHARGE.--52 years (1925-26, 1929-80), 1.77 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.--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 10	2200	*2500	70.8	5.43	1.655
June 20	0400	1390	39.4	4.64	1.414

Minimum observed, 43 ft^3/s (1.22 m^3/s) Jan. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	63	65	45	49	62	56	132	398	579	217	145
2	80	68	68	44	51	61	55	120	438	600	205	145
3	80	74	68	44	52	57	55	120	459	544	201	135
4	78	78	68	44	52	56	54	127	671	476	197	119
5	78	74	66	45	52	56	53	152	872	416	193	115
6	76	74	63	50	53	57	57	163	988	385	185	122
7	76	74	65	50	56	57	56	234	1020	370	177	135
8	76	70	65	50	56	57	53	253	1200	365	177	149
9	74	68	66	52	53	54	57	249	1470	385	173	145
10	74	66	66	54	50	53	59	250	1960	365	169	233
11	74	68	65	48	51	52	57	223	1940	350	165	229
12	74	70	60	50	52	50	56	195	1470	340	161	213
13	74	72	58	52	53	49	54	177	1190	335	173	197
14	74	70	64	55	55	52	61	163	1050	315	173	185
15	76	66	66	60	57	51	68	171	900	296	189	169
16	76	65	65	58	59	49	69	175	748	278	185	161
17	78	65	62	56	62	47	70	171	892	265	173	153
18	78	66	62	54	66	52	79	158	1000	257	165	149
19	84	66	62	56	70	50	89	157	1010	249	165	142
20	98	66	62	58	72	50	99	169	1100	241	165	138
21	86	64	62	54	70	51	105	225	964	249	161	142
22	86	58	63	54	66	51	115	356	876	253	157	138
23	88	63	65	52	64	51	121	488	796	245	161	135
24	86	65	65	51	63	53	103	438	712	245	161	132
25	88	66	58	51	64	52	101	380	677	237	177	128
26	84	66	46	51	68	53	107	339	663	229	193	128
27	82	66	50	52	65	50	104	317	656	221	173	125
28	78	66	52	52	62	49	109	328	530	213	157	122
29	78	62	52	52	62	49	126	368	500	205	149	122
30	76	60	50	52	---	51	156	368	558	209	149	119
31	72	---	46	49	---	50	---	374	---	229	145	---
TOTAL	2464	2019	1895	1595	1705	1632	2404	7540	27708	9946	5391	4470
MEAN	79.5	67.3	61.1	51.5	58.8	52.6	80.1	243	924	321	174	149
MAX	98	78	68	60	72	62	156	488	1960	600	217	233
MIN	72	58	46	44	49	47	53	120	398	205	145	115
AC-FT	4890	4000	3760	3160	3380	3240	4770	14960	54960	19730	10690	8870

CAL YR 1979 TOTAL 49650 MEAN 136 MAX 1120 MIN 30 AC-FT 98480
WTR YR 1980 TOTAL 68769 MEAN 188 MAX 1960 MIN 44 AC-FT 136400

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

LOCATION.--Lat 40°27'39", long 109°57'00", in NE1/4NW1/4NW1/4 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 of East Channel diversion works.

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

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

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, which are fair. Flow regulated by several major diversions above gage for irrigation.

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, 2,810 ft^3/s (79.6 m^3/s) June 11, gage height, 4.73 ft (1.442 m); minimum daily, 2.0 ft^3/s (0.057 m^3/s) Dec. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	10	8.2	7.7	8.3	22	13	31	111	159	94	49
2	33	9.8	8.6	7.6	9.1	21	11	38	118	167	87	49
3	34	9.4	9.5	7.6	9.4	21	8.1	42	118	159	80	45
4	34	11	8.9	7.6	10	21	7.5	48	159	126	75	42
5	33	11	8.3	7.6	10	21	8.1	55	148	139	72	45
6	33	11	7.6	7.7	10	20	9.6	50	139	135	70	42
7	33	11	7.4	7.8	10	19	9.3	80	148	111	72	45
8	32	11	7.4	7.8	10	19	7.8	77	178	101	75	48
9	32	10	6.0	6.5	9.9	19	8.8	73	154	129	67	49
10	32	10	4.5	5.5	8.6	18	10	69	145	108	61	90
11	32	10	2.6	4.8	9.2	18	9.9	57	744	120	61	60
12	31	10	2.2	5.4	10	17	9.0	57	520	114	69	47
13	31	10	2.0	6.5	11	17	8.2	51	237	117	73	46
14	31	9.8	2.5	8.0	12	18	11	62	159	103	83	52
15	31	10	7.8	9.9	13	17	10	78	98	96	81	47
16	31	9.8	8.3	9.0	13	16	8.8	76	96	98	81	52
17	31	9.6	8.3	8.9	14	15	8.0	76	185	98	59	52
18	34	11	8.3	8.7	16	14	8.8	65	180	94	56	48
19	29	11	7.3	8.9	17	13	9.9	70	163	96	60	46
20	35	8.9	7.7	9.4	19	13	10	76	171	92	69	41
21	19	7.4	8.0	9.5	19	13	15	95	167	81	66	41
22	17	6.4	8.1	9.6	18	13	15	123	147	85	61	41
23	23	6.8	8.2	9.5	18	13	19	145	147	94	60	43
24	23	7.3	8.2	9.4	17	13	19	116	155	96	57	41
25	19	7.9	8.1	9.1	19	13	25	93	151	94	66	40
26	18	8.2	7.6	9.1	21	12	37	89	155	85	66	39
27	17	8.2	7.0	9.2	22	12	37	85	143	85	59	38
28	15	8.2	7.3	9.2	22	12	37	93	111	81	54	37
29	14	8.2	7.6	9.3	22	11	41	121	135	80	52	39
30	15	8.0	7.7	9.4	---	12	49	106	155	81	49	39
31	14	---	7.7	8.8	---	18	---	104	---	98	47	---
TOTAL	839	280.9	218.9	255.0	407.5	501	480.8	2401	5437	3322	2082	1393
MEAN	27.1	9.36	7.06	8.23	14.1	16.2	16.0	77.5	181	107	67.2	46.4
MAX	35	11	9.5	9.9	22	22	49	145	744	167	94	90
MIN	14	6.4	2.0	4.8	8.3	11	7.5	31	96	80	47	37
AC-FT	1660	557	434	506	808	994	954	4760	10780	6590	4130	2760

CAL YR 1979 TOTAL 14709.0 MEAN 40.3 MAX 343 MIN 2.0 AC-FT 29180
WTR YR 1980 TOTAL 17618.1 MEAN 48.1 MAX 744 MIN 2.0 AC-FT 34950

09297700 EAST CHANNEL UINTAH RIVER BELOW DIVERSION WORKS, NEAR WHITEROCKS, UTAH

LOCATION.--Lat 40°28'19", long 109°57'18", in NE1/4SE1/4NE1/4 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 current year.

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 for period of no gage-height record, which are fair. Several major diversions above gage for irrigation.

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, 1,080 ft^3/s (30.6 m^3/s) June 11, gage height, 3.66 ft (1.116 m); minimum daily, 0.21 ft^3/s (0.006 m^3/s) Apr. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	10	33	35	28	43	5.5	.89	3.8	22	.94	.61
2	2.1	45	34	36	30	40	.30	.75	4.4	26	.94	.61
3	2.0	42	35	35	31	35	.27	.70	4.2	22	.88	.69
4	2.1	50	42	34	34	31	.27	.70	28	14	.83	.73
5	2.1	49	47	35	37	26	.27	1.2	130	10	.78	.73
6	1.8	49	44	35	34	27	.27	2.0	141	6.6	.73	.69
7	1.8	49	43	36	31	27	.27	6.1	98	2.6	.73	.73
8	1.7	47	45	37	30	24	.24	5.5	156	.73	.73	.73
9	1.7	45	49	38	28	17	.24	5.0	404	.88	6.2	.73
10	1.7	44	46	35	28	11	.24	5.3	630	.78	10	1.0
11	1.7	44	41	33	29	12	.24	3.0	550	.88	5.6	1.0
12	1.7	42	39	34	30	6.4	.24	1.8	494	1.3	.83	.88
13	1.7	42	37	35	32	.80	.21	1.1	250	1.3	.73	.88
14	1.7	42	35	37	34	1.2	.24	1.2	218	1.1	.73	.88
15	1.7	42	41	37	35	1.2	.30	1.7	162	1.0	3.5	.78
16	1.6	42	45	36	36	.89	.35	1.8	120	1.0	8.9	.78
17	1.6	42	45	35	37	.60	.30	1.5	344	1.1	10	.78
18	1.6	42	45	34	37	.70	.35	1.2	702	1.1	5.0	.78
19	2.4	41	43	32	38	.80	.35	1.1	820	1.0	.73	.78
20	2.7	38	40	32	37	7.0	.40	1.2	392	8.5	.73	.73
21	2.7	36	40	32	37	12	.60	2.9	84	14	.73	.73
22	2.4	34	43	33	37	11	.70	6.4	68	15	.73	.73
23	2.4	32	43	35	37	11	.80	29	56	14	4.7	.73
24	2.2	31	36	35	37	12	.65	17	49	6.2	7.8	.73
25	2.1	32	33	36	38	11	.50	5.0	47	1.1	10	.73
26	2.0	36	32	37	39	9.9	.55	3.4	47	1.0	6.2	.73
27	2.0	39	35	36	40	10	.60	2.7	44	1.0	.73	.73
28	1.8	40	37	35	43	9.9	.65	3.2	24	.94	.69	.73
29	1.8	39	36	32	43	9.1	.80	4.6	17	.94	.65	.69
30	1.7	34	35	29	---	10	1.5	3.8	20	.94	.65	.69
31	1.7	---	35	27	---	8.8	---	3.6	---	.94	.61	---
TOTAL	60.3	1200	1234	1068	1007	427.29	18.20	125.34	6107.4	179.93	93.00	22.74
MEAN	1.95	40.0	39.8	34.5	34.7	13.8	.61	4.04	204	5.80	3.00	.76
MAX	2.7	50	49	38	43	43	5.5	29	820	26	10	1.0
MIN	1.6	10	32	27	28	.60	.21	.70	3.8	.73	.61	.61
AC-FT	120	2380	2450	2120	2000	848	36	249	12110	357	184	45

CAL YR 1979 TOTAL 9833.13 MEAN 26.9 MAX 565 MIN .63 AC-FT 19500
WTR YR 1980 TOTAL 11543.20 MEAN 31.5 MAX 820 MIN .21 AC-FT 22900

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

LOCATION.--Lat 40°27'18", long 109°56'09", in SE1/4SE1/4NE1/4 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 current year.

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

REMARKS.--Records good except those for winter months, which are fair. Several major irrigation diversions above gage.

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, 1,290 ft^3/s (36.5 m^3/s) June 10, 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	25	44	27	32	44	10	8.2	48	60	21	20
2	11	48	46	27	33	43	3.5	6.9	45	65	20	20
3	11	46	47	26	33	33	3.3	6.0	47	60	20	19
4	11	56	49	27	34	23	3.4	6.9	122	43	20	19
5	11	55	48	31	35	20	3.4	9.6	330	38	20	19
6	10	55	49	34	37	23	3.4	10	390	30	21	19
7	10	54	50	35	38	24	3.3	16	404	24	21	19
8	10	52	50	36	38	20	3.2	17	495	21	21	22
9	10	52	50	37	37	21	3.2	17	635	23	27	24
10	10	50	51	38	37	22	3.4	22	965	20	31	31
11	11	48	51	35	38	21	3.2	27	842	19	26	25
12	11	45	48	38	38	14	3.3	29	540	19	20	20
13	11	45	45	41	39	5.4	3.2	28	364	20	19	21
14	11	46	48	42	41	6.0	3.3	25	255	19	21	23
15	11	45	50	44	44	6.1	3.5	24	345	20	24	20
16	11	45	48	42	46	5.0	3.7	24	330	20	31	22
17	11	45	47	40	47	4.6	3.5	23	300	21	34	22
18	11	45	47	37	50	4.9	3.8	21	525	21	27	20
19	12	45	47	35	54	5.0	3.9	21	571	19	20	20
20	18	45	47	34	58	10	3.9	19	410	27	21	19
21	15	44	47	34	53	17	4.3	23	452	34	21	19
22	13	40	47	34	51	16	4.9	33	445	36	20	18
23	13	42	48	33	51	16	5.2	80	260	35	26	19
24	13	45	43	33	47	17	5.0	84	133	29	30	19
25	12	45	40	33	47	16	4.9	63	113	22	37	19
26	12	45	36	33	51	14	5.7	51	100	20	33	20
27	12	44	32	34	49	15	6.0	40	93	20	22	19
28	12	43	30	34	47	15	5.7	40	66	20	21	20
29	12	43	28	34	46	13	5.7	47	52	19	20	19
30	12	42	28	34	---	15	8.6	44	54	19	20	19
31	11	---	28	33	---	12	---	50	---	21	20	---
TOTAL	360	1380	1369	1075	1251	521.0	131.4	915.6	9731	864	735	615
MEAN	11.6	46.0	44.2	34.7	43.1	16.8	4.38	29.5	324	27.9	23.7	20.5
MAX	18	56	51	44	58	44	10	84	965	65	37	31
MIN	10	25	28	26	32	4.6	3.2	6.0	45	19	19	18
AC-FT	714	2740	2720	2130	2480	1030	261	1820	19300	1710	1460	1220

CAL YR 1979 TOTAL 12668.5 MEAN 34.7 MAX 604 MIN 7.8 AC-FT 25130
WTR YR 1980 TOTAL 18948.0 MEAN 51.8 MAX 965 MIN 3.2 AC-FT 37580

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

LOCATION.--Lat 40°24'13", long 109°52'31", in NE1/4NW1/4NW1/4 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 current year.

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

REMARKS.--Records good except those for winter period, which are fair. Several major irrigation diversions above gage.

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); minimum daily, 0.43 ft^3/s (0.012 m^3/s) Sept. 30, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,320 ft^3/s (37.4 m^3/s) June 10, gage height, 4.51 ft (1.375 m); minimum daily, 0.43 ft^3/s (0.012 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	25	39	39	33	52	18	3.2	97	89	17	20
2	2.5	48	40	40	35	50	11	4.3	75	105	18	21
3	2.0	46	46	40	38	47	9.4	9.7	34	96	13	22
4	2.5	56	50	39	40	44	8.6	18	124	69	9.6	26
5	3.2	56	58	39	41	39	9.0	33	351	43	10	19
6	2.2	57	56	39	40	45	8.7	22	496	21	13	15
7	2.6	57	54	40	38	46	7.8	66	544	18	11	13
8	4.3	56	57	42	35	41	7.0	69	713	16	8.6	12
9	5.9	56	60	42	33	39	7.4	56	855	23	10	11
10	6.3	55	58	42	32	42	7.4	86	1140	14	13	10
11	6.1	52	54	37	34	43	6.6	90	1040	23	12	9.8
12	5.6	50	53	40	37	38	6.0	76	1010	36	12	8.0
13	5.2	51	51	42	39	24	2.8	46	1110	33	10	8.2
14	6.0	51	50	44	40	29	2.1	34	951	27	12	8.9
15	6.3	51	52	44	41	28	1.0	28	834	19	10	9.5
16	7.0	52	54	42	42	23	1.0	26	596	26	13	10
17	8.0	52	54	40	42	19	1.0	28	516	37	14	11
18	10	51	54	39	45	22	1.2	22	650	36	9.3	8.2
19	8.4	48	52	38	43	26	1.3	19	767	29	5.3	5.1
20	9.9	45	46	38	43	27	1.2	18	855	26	20	3.9
21	11	43	45	38	42	35	1.2	41	751	30	26	3.5
22	7.8	42	48	40	43	32	1.3	75	677	32	26	3.5
23	7.5	40	48	41	43	32	1.2	178	570	33	28	4.0
24	7.5	37	42	42	44	33	1.3	219	450	34	38	2.4
25	7.0	45	38	42	46	33	1.3	120	365	28	57	2.0
26	6.2	47	36	42	48	28	1.2	82	297	22	71	1.8
27	7.0	49	40	43	50	23	1.3	47	268	22	48	1.2
28	7.4	50	42	42	52	21	1.3	45	164	17	37	.87
29	6.2	50	41	41	52	20	1.5	80	85	11	27	.62
30	6.9	42	39	37	---	20	2.6	80	58	9.5	24	.43
31	8.4	---	39	31	---	17	---	104	---	21	23	---
TOTAL	190.8	1460	1496	1245	1191	1018	132.7	1825.2	16443	1045.5	645.8	271.92
MEAN	6.15	48.7	48.3	40.2	41.1	32.8	4.42	58.9	548	33.7	20.8	9.06
MAX	11	57	60	44	52	52	18	219	1140	105	71	26
MIN	2.0	25	36	31	32	17	1.0	3.2	34	9.5	5.3	.43
AC-FT	378	2900	2970	2470	2360	2020	263	3620	32610	2070	1280	539

CAL YR 1979 TOTAL 17328.40 MEAN 47.5 MAX 908 MIN 2.0 AC-FT 34370
WTR YR 1980 TOTAL 26964.92 MEAN 73.7 MAX 1140 MIN .43 AC-FT 53480

09298000 FARM CREEK NEAR WHITEROCKS, UTAH

LOCATION.--Lat 40°34'03", long 109°57'39", in SE1/4NW1/4SE1/4 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 current year.

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.--31 years, 6.10 ft^3/s (0.173 m^3/s), 4,420 acre-ft/yr (5.45 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 9	1500	32	0.91	2.54	0.774
May 23	1800	68	1.93	2.81	0.856
June 10	1900	*195	5.52	3.40	1.036

Minimum, 2.1 ft^3/s (0.059 m^3/s) on many days during the winter.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	2.6	2.4	2.3	2.3	2.3	2.3	5.3	51	14	4.8	3.8
2	2.7	2.6	2.4	2.3	2.3	2.3	2.3	5.7	49	16	4.6	3.7
3	2.7	2.6	2.4	2.3	2.3	2.3	2.3	6.8	54	17	4.6	3.7
4	2.7	2.6	2.4	2.3	2.3	2.3	2.3	8.5	69	14	4.4	3.7
5	2.7	2.6	2.4	2.3	2.3	2.3	2.3	10	87	12	4.3	3.7
6	2.7	2.6	2.4	2.3	2.3	2.3	2.4	12	89	11	4.2	3.6
7	2.7	2.6	2.4	2.3	2.3	2.3	2.4	17	96	11	4.1	3.8
8	2.7	2.6	2.4	2.3	2.3	2.3	2.4	24	103	10	4.0	3.8
9	2.7	2.6	2.4	2.3	2.3	2.3	2.4	30	117	9.9	4.0	4.0
10	2.7	2.5	2.4	2.4	2.3	2.3	2.5	32	115	9.3	3.9	4.4
11	2.7	2.5	2.4	2.3	2.3	2.3	2.4	32	111	8.8	3.9	4.0
12	2.8	2.4	2.3	2.4	2.3	2.3	2.4	30	92	8.2	3.8	4.1
13	2.8	2.4	2.3	2.4	2.3	2.3	2.5	28	70	8.0	4.1	4.0
14	2.7	2.4	2.3	2.6	2.3	2.3	2.6	26	63	7.8	4.1	3.9
15	2.8	2.4	2.3	2.3	2.3	2.3	2.7	26	53	7.5	4.2	3.8
16	2.8	2.4	2.3	2.3	2.3	2.3	2.9	26	47	7.2	4.1	3.8
17	2.8	2.5	2.3	2.3	2.3	2.3	3.1	25	46	7.0	4.0	3.8
18	2.8	2.5	2.3	2.3	2.4	2.3	3.3	24	43	6.7	4.0	3.8
19	2.8	2.5	2.3	2.3	2.3	2.3	3.5	24	40	6.5	4.0	3.7
20	3.1	2.5	2.4	2.3	2.3	2.3	3.7	24	35	6.0	4.0	3.8
21	2.8	2.4	2.4	2.3	2.3	2.3	3.9	29	32	5.7	3.9	3.7
22	2.8	2.4	2.4	2.3	2.3	2.3	4.2	45	28	5.4	3.9	3.7
23	2.6	2.4	2.4	2.3	2.3	2.3	4.4	63	26	5.4	4.0	3.7
24	2.6	2.4	2.3	2.3	2.1	2.4	4.3	65	23	5.2	4.0	3.7
25	2.6	2.5	2.3	2.3	2.3	2.3	4.3	58	21	5.1	4.2	3.7
26	2.6	2.5	2.3	2.3	2.3	2.3	4.1	51	20	4.9	4.1	3.7
27	2.6	2.4	2.3	2.3	2.3	2.3	4.4	47	18	4.9	4.0	3.6
28	2.6	2.4	2.3	2.3	2.3	2.3	4.5	47	16	4.9	3.9	3.6
29	2.6	2.4	2.3	2.3	2.3	2.3	5.0	50	15	4.9	3.8	3.6
30	2.6	2.5	2.3	2.3	---	2.3	5.3	48	14	4.9	3.8	3.6
31	2.6	---	2.3	2.3	---	2.3	---	54	---	4.9	3.8	---
TOTAL	84.0	74.7	72.8	71.9	66.6	71.4	97.1	973.3	1643	254.1	126.5	113.5
MEAN	2.71	2.49	2.35	2.32	2.30	2.30	3.24	31.4	54.8	8.20	4.08	3.78
MAX	3.1	2.6	2.4	2.6	2.4	2.4	5.3	65	117	17	4.8	4.4
MIN	2.6	2.4	2.3	2.3	2.1	2.3	2.3	5.3	14	4.9	3.8	3.6
AC-FT	167	148	144	143	132	142	193	1930	3260	504	251	225

CAL YR 1979 TOTAL 1851.4 MEAN 5.07 MAX 61 MIN 2.1 AC-FT 3670
WTR YR 1980 TOTAL 3648.9 MEAN 9.97 MAX 117 MIN 2.1 AC-FT 7240

09299400 WHITEROCKS RIVER BELOW DAM SITE, NEAR WHITEROCKS, UTAH

LOCATION.--Lat 40°35'13", long 109°55'37", in SE1/4NE1/4NW1/4 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 current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,160 ft (2,182 m), from topographic map.

REMARKS.--Records good except those for winter period and period of no gage-height record, June 11 to Aug. 4, 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.

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, 1,660 ft^3/s (47.0 m^3/s) June 10, gage height, 5.01 ft (1.527 m); minimum daily, 18 ft^3/s (0.51 m^3/s) several days during winter months.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	35	26	22	19	19	19	96	306	395	140	100
2	48	36	27	22	19	20	19	91	278	405	138	94
3	48	38	28	22	19	20	19	91	310	365	130	94
4	47	37	30	22	19	20	19	104	446	325	128	93
5	47	36	32	22	19	20	19	126	571	300	128	91
6	46	35	33	22	20	20	22	152	591	272	126	91
7	46	35	33	21	20	20	22	243	638	255	124	94
8	45	33	33	22	19	20	22	258	769	245	122	100
9	45	33	31	23	18	20	22	243	910	235	119	96
10	45	31	30	22	18	20	22	217	1110	220	117	155
11	43	31	29	21	18	20	21	185	1200	205	111	133
12	43	29	28	21	20	20	21	161	1270	200	111	122
13	43	34	27	22	22	20	22	143	1150	195	111	108
14	43	32	27	22	22	20	24	131	1000	182	115	93
15	44	32	27	23	23	19	29	127	770	170	123	84
16	44	30	27	23	20	19	29	130	650	160	122	77
17	43	31	27	23	20	19	33	132	730	150	117	70
18	48	30	27	22	21	18	40	121	800	170	111	63
19	53	29	27	22	21	18	47	121	880	165	109	62
20	65	28	27	21	20	18	57	142	850	160	133	61
21	60	31	25	20	20	18	62	210	750	152	131	61
22	55	35	24	19	20	18	73	318	660	160	128	60
23	56	33	24	19	20	20	76	432	595	157	131	58
24	53	32	24	19	20	19	64	373	535	160	131	57
25	52	33	24	19	20	19	67	290	510	155	140	57
26	52	34	23	19	20	19	72	244	480	148	142	56
27	48	32	23	19	20	19	72	224	465	143	131	55
28	45	29	22	19	20	19	76	245	405	140	115	56
29	43	27	22	19	20	19	94	291	365	139	106	58
30	39	26	23	18	---	19	111	296	375	148	104	66
31	31	---	22	18	---	19	---	320	---	155	100	---
TOTAL	1469	967	832	648	577	598	1295	6257	20369	6431	3794	2465
MEAN	47.4	32.2	26.8	20.9	19.9	19.3	43.2	202	679	207	122	82.2
MAX	65	38	33	23	23	20	111	432	1270	405	142	155
MIN	31	26	22	18	18	18	19	91	278	139	100	55
AC-FT	2910	1920	1650	1290	1140	1190	2570	12410	40400	12760	7530	4890

CAL YR 1979 TOTAL 32324 MEAN 88.6 MAX 847 MIN 15 AC-FT 64110
WTR YR 1980 TOTAL 45702 MEAN 125 MAX 1270 MIN 18 AC-FT 90650

09299500 WHITEROCKS RIVER NEAR WHITEROCKS, UTAH

LOCATION.--Lat 40°33'54", long 109°55'37", in SE1/4SE1/4SW1/4 sec.18, T.2 N., R.1 E., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, on left bank 0.8 mi (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 different datum.

REMARKS.--Records good except those for winter period, which are 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.--73 years (1899-1903, 1908-10, 1913-80), 123 ft^3/s (3.483 m^3/s), 89,110 acre-ft/yr (110 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.--Peak discharge above base of 600 ft^3/s (17.0 m^3/s), and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage Height (ft)	Gage Height (m)
June 10	2400	*1660	47.0	5.41	1.649
June 19	2315	1080	30.6	4.69	1.430

Minimum discharge, 11 ft^3/s (0.31 m^3/s) Mar. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	37	27	23	20	20	20	95	316	402	145	97
2	48	38	28	24	20	21	20	89	284	410	141	93
3	48	39	30	24	20	21	20	90	320	370	135	93
4	47	37	32	24	20	22	20	102	480	332	129	93
5	47	37	34	24	20	22	20	130	590	304	129	91
6	46	36	34	23	21	21	22	152	615	277	127	89
7	46	35	34	25	21	21	21	242	630	259	123	93
8	45	34	34	23	20	21	22	263	754	250	121	101
9	45	34	34	23	19	21	22	248	937	241	119	95
10	45	32	32	22	19	21	23	224	1120	223	117	155
11	43	32	30	21	19	21	22	193	1210	208	113	137
12	43	30	29	22	22	21	21	163	1310	200	111	125
13	43	34	28	23	23	21	22	140	1180	195	115	111
14	43	32	28	23	23	21	25	125	1020	185	119	95
15	44	32	28	24	24	20	31	121	787	172	125	85
16	44	31	28	25	21	20	32	127	660	162	123	80
17	43	32	28	24	21	20	35	129	738	155	119	73
18	48	30	28	23	22	19	42	115	809	172	115	66
19	52	30	28	23	22	19	50	115	887	168	113	61
20	63	29	28	22	22	19	58	139	862	162	137	56
21	59	35	27	21	21	19	63	213	760	155	133	58
22	53	37	25	21	21	19	74	315	670	162	131	60
23	55	34	25	20	21	21	77	430	605	160	133	60
24	53	33	25	20	21	20	66	378	546	165	133	58
25	52	34	25	20	21	20	68	292	515	160	143	58
26	52	36	24	20	21	20	73	240	484	150	145	56
27	49	35	24	20	21	20	72	221	470	145	133	56
28	45	31	24	20	22	20	75	240	406	143	117	56
29	44	29	24	19	21	20	93	296	370	141	109	58
30	40	26	23	19	---	20	109	300	378	150	103	68
31	32	---	23	19	---	20	---	334	---	158	101	---
TOTAL	1465	1001	871	684	609	631	1318	6261	20713	6536	3857	2477
MEAN	47.3	33.4	28.1	22.1	21.0	20.4	43.9	202	690	211	124	82.6
MAX	63	39	34	25	24	22	109	430	1310	410	145	155
MIN	32	26	23	19	19	19	20	89	284	141	101	56
AC-FT	2910	1990	1730	1360	1210	1250	2610	12420	41080	12960	7650	4910

CAL YR 1979 TOTAL 32326 MEAN 88.6 MAX 837 MIN 16 AC-FT 64120
WTR YR 1980 TOTAL 46423 MEAN 127 MAX 1310 MIN 19 AC-FT 92080

09299600 WHITEROCKS RIVER BELOW FARM CREEK CANAL, NEAR WHITEROCKS, UTAH

LOCATION.--Lat 40°31'57", long 109°55'21", in SE1/4NW1/4NE1/4 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 current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,690 ft (2,040 m) from topographic map.

REMARKS.--Records good except those for winter period and highwater period, which are fair. Several major irrigation diversions upstream from station.

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 daily, 7.4 ft^3/s (0.21 m^3/s) April 16, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, not determined, probably occurred June 12; minimum daily, 16 ft^3/s (0.45 m^3/s) Jan. 30, 31, Feb. 9-11, Mar. 18-22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	36	23	20	17	17	17	62	270	302	96	65
2	34	35	25	20	17	18	17	55	234	322	94	64
3	33	34	26	20	17	18	17	53	250	276	85	66
4	33	33	28	21	17	18	17	62	395	213	80	68
5	33	32	30	21	17	18	18	88	548	170	80	67
6	33	32	31	21	17	18	19	107	578	146	81	67
7	33	31	31	20	18	18	19	210	610	139	77	70
8	33	30	31	20	17	18	19	235	730	130	77	72
9	32	30	30	21	16	18	19	219	880	113	76	66
10	32	29	30	21	16	18	20	192	1070	93	74	111
11	31	29	28	18	16	18	19	152	1160	77	76	91
12	30	29	27	18	18	18	19	119	1260	71	77	81
13	31	30	26	19	20	18	19	87	1120	68	78	68
14	31	29	25	20	20	18	20	79	970	61	81	55
15	32	28	25	20	21	17	21	74	740	55	82	46
16	32	27	25	21	19	17	22	80	610	50	82	40
17	32	27	25	21	19	17	23	88	660	45	76	34
18	35	28	25	20	19	16	24	77	760	51	73	28
19	41	27	25	20	20	16	25	76	840	50	73	27
20	53	27	25	20	20	16	27	90	800	48	102	25
21	50	29	24	19	19	16	28	164	700	46	101	26
22	46	33	23	18	18	16	29	266	620	49	100	24
23	49	32	23	17	18	18	30	389	550	50	102	24
24	46	30	22	17	18	17	32	335	500	50	102	23
25	45	30	21	17	18	17	34	250	474	50	107	22
26	45	32	21	17	18	17	39	201	424	46	110	21
27	42	33	21	17	18	17	38	180	399	44	96	21
28	41	29	21	17	19	17	40	199	299	42	80	20
29	40	26	21	17	19	17	54	250	238	27	71	21
30	36	24	21	16	---	17	75	254	251	91	67	31
31	31	---	20	16	---	17	---	288	---	107	65	---
TOTAL	1149	901	779	590	526	536	800	4981	18940	3082	2621	1444
MEAN	37.1	30.0	25.1	19.0	18.1	17.3	26.7	161	631	99.4	84.5	48.1
MAX	53	36	31	21	21	18	75	389	1260	322	110	111
MIN	30	24	20	16	16	16	17	53	234	27	65	20
AC-FT	2280	1790	1550	1170	1040	1060	1590	9880	37570	6110	5200	2860

CAL YR 1979 TOTAL 25192 MEAN 69.0 MAX 760 MIN 14 AC-FT 49970
WTR YR 1980 TOTAL 36349 MEAN 99.3 MAX 1260 MIN 16 AC-FT 72100

09299700 WHITEROCKS RIVER AT WHITEROCKS, UTAH

LOCATION.--Lat 40°28'02", long 109°54'48", in SW1/4NW1/4SW1/4, 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 current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,020 ft (1,835 m), from topographic map.

REMARKS.--Records good except those for winter months, which are fair. Several major irrigation diversions above station.

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, 1,660 ft^3/s (47.0 m^3/s) June 11, gage height, 5.81 ft (1.771 m); no flow several days during Nov. and Apr.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	.25	10	4.4	5.2	13	1.8	40	116	162	52	43
2	15	.27	10	4.3	5.4	13	1.5	43	90	172	50	41
3	15	.48	11	4.3	5.7	13	1.0	42	84	153	48	38
4	15	.10	11	4.7	6.1	14	1.3	48	192	147	46	37
5	15	.05	12	4.8	6.6	14	.24	54	394	122	46	36
6	14	.00	13	4.8	6.9	14	.12	47	447	97	46	36
7	14	.00	14	3.6	7.1	13	.04	89	471	87	46	37
8	13	.00	13	4.4	7.1	13	.00	84	694	89	47	39
9	13	.00	10	4.5	6.9	13	.00	70	790	87	47	36
10	13	.00	6.8	4.6	6.7	14	.00	95	880	82	47	55
11	12	.00	4.8	4.7	6.2	14	1.0	85	1150	100	47	25
12	11	.00	1.2	4.8	5.9	14	.16	60	1190	104	48	28
13	12	.20	3.1	4.9	7.8	11	.00	38	960	100	48	29
14	12	.29	4.4	4.9	9.0	16	2.6	35	752	86	49	25
15	12	.60	5.0	5.0	9.9	14	6.8	32	584	72	49	25
16	13	.86	5.2	4.8	10	12	8.3	32	448	87	50	26
17	13	.97	5.4	4.6	11	9.4	9.4	37	468	91	51	24
18	14	.00	5.4	4.4	12	14	11	31	545	88	50	19
19	13	.00	5.3	4.2	13	15	10	30	611	80	46	16
20	4.3	1.1	5.1	4.3	13	14	10	34	608	73	44	14
21	3.0	2.5	4.7	4.4	14	14	11	59	567	69	45	14
22	2.0	13	4.5	4.5	14	13	9.8	97	531	69	47	14
23	1.6	12	4.5	4.5	13	13	19	186	476	64	50	15
24	1.1	11	4.4	4.5	12	14	19	174	407	66	56	15
25	.71	12	4.4	4.6	12	13	24	111	337	61	67	14
26	.43	13	4.3	4.6	15	4.9	29	72	305	59	67	14
27	.32	13	4.5	4.6	14	2.3	28	56	274	57	67	13
28	.25	12	4.3	4.6	15	1.8	27	63	214	50	58	13
29	.15	11	3.3	4.6	14	1.2	32	101	163	43	50	11
30	.07	10	4.3	4.6	---	1.3	40	102	150	42	47	5.2
31	.01	---	4.2	4.8	---	.82	---	127	---	52	45	---
TOTAL	268.94	114.67	203.1	141.3	284.5	346.72	304.06	2174	14898	2711	1556	757.2
MEAN	8.68	3.82	6.55	4.56	9.81	11.2	10.1	70.1	497	87.5	50.2	25.2
MAX	16	13	14	5.0	15	16	40	186	1190	172	67	55
MIN	.01	.00	1.2	3.6	5.2	.82	.00	30	84	42	44	5.2
AC-FT	533	227	403	280	564	688	603	4310	29550	5380	3090	1500

CAL YR 1979 TOTAL 12237.07 MEAN 33.5 MAX 664 MIN .00 AC-FT 24270
WTR YR 1980 TOTAL 23759.49 MEAN 64.9 MAX 1190 MIN .00 AC-FT 47130

09300500 UINTAH RIVER AT FT. DUCHESNE, UTAH

LOCATION.--Lat 40°18'07", long 109°51'09", in SW1/4SE1/4SW1/4 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 Ft. Duchesne.

DRAINAGE AREA.--557 mi^2 (1,443 km^2).

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 current year. 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 and no gage-height record, Oct. 10 to Dec. 5, which are poor. Several major irrigation diversions above station.

AVERAGE DISCHARGE.--25 years (1899-1902, 1908-10, 1942-58, 1976-80), 104 ft^3/s (2.95 m^3/s), 75,350 acre-ft/yr (92.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--1899-1904, 1906-10, 1917-20, 1942-58, 1976-79; 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, 3,480 ft^3/s (98.6 m^3/s) June 12, gage height, 4.69 ft (1.430 m); minimum daily, 1.5 ft^3/s (0.042 m^3/s) Sept.28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	5.0	11	12	17	80	14	12	65	55	16	2.2
2	4.2	5.2	12	12	16	80	13	7.4	55	55	14	5.2
3	4.3	5.2	12	12	16	76	12	7.2	22	60	5.1	4.9
4	5.0	5.3	13	12	16	76	9.2	6.1	54	55	4.0	4.4
5	4.9	5.2	13	12	16	75	8.0	11	191	47	4.0	4.5
6	4.4	5.0	13	12	16	70	7.9	17	325	33	9.4	5.1
7	4.6	5.0	13	12	17	69	7.0	26	360	29	12	4.8
8	4.3	5.0	13	12	17	66	6.1	21	448	23	7.0	10
9	4.3	4.8	12	12	17	61	19	9.2	830	18	4.2	12
10	5.0	4.8	12	12	16	50	24	56	1460	11	7.2	20
11	5.3	4.9	12	14	16	56	28	89	1740	6.8	9.6	33
12	5.8	5.1	11	17	16	50	24	99	2420	13	7.2	22
13	6.2	5.2	12	21	16	38	22	103	1600	12	6.9	16
14	5.3	4.9	12	27	25	35	21	66	1260	11	9.7	12
15	5.6	4.3	12	38	35	37	24	47	989	10	9.8	10
16	6.5	4.1	12	40	48	34	24	35	684	8.8	8.0	5.8
17	6.5	4.9	12	40	62	27	5.7	25	606	13	7.4	4.7
18	6.8	5.5	12	39	74	26	5.6	28	893	13	4.7	5.7
19	8.2	6.0	12	35	130	26	6.2	21	1010	11	7.9	6.7
20	10	5.8	12	32	148	21	5.7	17	1190	2.7	4.9	3.3
21	9.2	5.6	12	30	125	26	4.7	18	1070	3.3	9.2	2.0
22	7.5	5.8	13	26	113	26	5.9	45	999	7.7	7.1	1.9
23	5.8	8.6	13	24	100	24	5.8	114	840	11	6.4	1.9
24	5.0	10	13	20	80	24	6.4	176	588	9.3	9.0	1.8
25	4.6	10	13	19	72	25	7.7	101	443	8.2	13	1.8
26	4.5	10	12	18	67	25	7.0	68	335	5.9	15	1.8
27	4.5	10	11	17	66	22	7.1	42	266	5.5	5.7	1.6
28	4.5	10	11	17	73	20	6.5	33	172	6.0	4.9	1.5
29	4.7	10	11	17	78	19	6.5	43	76	4.5	3.6	2.0
30	4.9	10	11	17	---	15	10	56	42	9.9	2.8	3.2
31	4.9	---	11	17	---	14	---	65	---	14	1.6	---
TOTAL	171.9	191.2	374	645	1508	1293	354.0	1463.9	21033	572.6	237.3	211.8
MEAN	5.55	6.37	12.1	20.8	52.0	41.7	11.8	47.2	701	18.5	7.65	7.06
MAX	10	10	13	40	148	80	28	176	2420	60	16	33
MIN	4.2	4.1	11	12	16	14	4.7	6.1	22	2.7	1.6	1.5
AC-FT	341	379	742	1280	2990	2560	702	2900	41720	1140	471	420

CAL YR 1979 TOTAL 11635.4 MEAN 31.9 MAX 1040 MIN 2.6 AC-FT 23080
WTR YR 1980 TOTAL 28055.7 MEAN 76.7 MAX 2420 MIN 1.5 AC-FT 55650

09301200 DRY GULCH NEAR FT. DUCHESNE, UTAH

LOCATION.--Lat 40°14'20", long 109°51'06", in NW1/4SE1/4NW1/4 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 Ft. Duchesne.

DRAINAGE AREA.--469 mi^2 (1,215 km^2).

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

REVISED RECORDS.--WDR UT-1979: 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 months, 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.

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, 372 ft^3/s (10.5 m^3/s) May 12, gage height, 3.51 ft (1.070 m); minimum daily, 12 ft^3/s (0.34 m^3/s) Oct. 10, 11, Apr. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	25	15	18	20	85	52	18	71	153	32	38
2	36	22	16	18	20	70	54	17	75	203	28	31
3	38	23	16	18	20	71	65	19	72	221	27	31
4	36	27	17	18	20	75	48	20	70	212	24	24
5	36	28	18	18	20	73	38	20	68	181	22	28
6	26	24	18	18	21	71	41	33	80	137	24	34
7	25	22	19	18	22	64	38	28	98	94	25	40
8	31	16	18	18	22	56	31	44	106	107	28	55
9	23	16	16	18	21	50	28	79	135	89	28	64
10	12	18	15	18	20	48	27	109	139	90	25	172
11	12	18	14	18	19	48	27	243	135	84	26	207
12	16	16	14	19	19	48	21	336	130	61	29	119
13	17	18	14	21	19	39	19	254	154	87	26	98
14	13	16	14	24	29	38	21	155	135	103	32	83
15	14	15	14	25	47	41	19	108	117	78	31	67
16	17	14	14	26	66	39	12	100	116	58	44	61
17	15	16	14	25	105	30	14	92	106	58	35	53
18	19	17	14	24	160	29	16	79	127	51	38	38
19	20	17	14	24	260	31	16	72	162	53	40	37
20	33	17	14	24	360	31	16	53	148	40	33	39
21	42	16	15	23	260	34	23	47	166	39	36	47
22	21	15	16	22	200	34	26	46	161	43	44	44
23	20	16	17	22	140	30	43	71	159	41	44	49
24	19	16	17	22	110	28	45	82	142	39	48	50
25	22	16	17	22	81	31	39	106	139	37	57	49
26	22	15	17	22	73	39	31	116	121	35	81	54
27	18	14	16	22	74	50	25	99	97	33	44	55
28	18	14	16	22	81	76	18	70	89	35	40	53
29	22	14	16	22	87	74	21	56	100	28	31	47
30	20	14	17	22	---	66	23	63	107	34	31	42
31	22	---	18	21	---	59	---	82	---	33	35	---
TOTAL	713	535	490	652	2396	1558	897	2717	3525	2557	1088	1809
MEAN	23.0	17.8	15.8	21.0	82.6	50.3	29.9	87.6	118	82.5	35.1	60.3
MAX	42	28	19	26	360	85	65	336	166	221	81	207
MIN	12	14	14	18	19	28	12	17	68	28	22	24
AC-FT	1410	1060	972	1290	4750	3090	1780	5390	6990	5070	2160	3590

CAL YR 1979 TOTAL 14467.9 MEAN 39.6 MAX 432 MIN 9.9 AC-FT 28700
WTR YR 1980 TOTAL 18937.0 MEAN 51.7 MAX 360 MIN 12 AC-FT 37560

09301500 UINTAH RIVER AT RANDLETT, UTAH

LOCATION.--Lat 40°14'01", long 109°48'11", in SE1/4SE1/4SE1/4 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 current year. 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.

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, 3,300 ft^3/s (93.5 m^3/s) June 12, gage height, 5.47 ft (1.667 m); minimum daily discharge, 12 ft^3/s (0.34 m^3/s) Oct. 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	26	24	30	36	155	58	32	130	203	35	47
2	31	23	25	30	35	158	58	27	136	277	35	38
3	34	23	26	30	35	155	67	26	101	298	30	38
4	30	26	28	30	35	150	52	26	122	287	29	30
5	34	27	30	30	35	149	42	27	321	239	25	32
6	23	24	31	30	36	139	43	45	552	178	28	38
7	23	21	32	30	36	131	42	49	648	122	28	40
8	30	16	31	30	35	120	34	59	730	133	31	57
9	26	16	29	30	34	108	39	95	1100	98	32	68
10	12	17	28	30	34	105	46	145	1640	98	30	184
11	12	17	28	30	34	103	54	355	2120	92	30	244
12	15	17	27	35	35	94	45	490	2640	66	34	120
13	17	18	27	42	35	74	42	407	2220	89	34	98
14	14	17	28	58	40	64	42	253	1770	107	38	89
15	15	15	28	69	60	67	45	172	1350	84	38	73
16	20	16	28	70	80	64	44	153	1020	63	52	66
17	17	17	28	66	135	52	29	116	782	61	41	56
18	17	18	29	65	250	50	23	110	1020	55	42	35
19	22	19	29	62	380	51	22	95	1170	58	47	31
20	34	18	30	56	500	46	20	76	1340	46	40	32
21	45	17	31	48	400	51	26	58	1240	42	41	40
22	24	16	31	43	280	54	28	81	1160	46	49	40
23	19	19	31	38	210	48	42	194	999	47	55	42
24	20	22	31	38	175	46	45	305	730	45	56	45
25	20	23	31	38	150	51	42	243	582	42	66	43
26	23	23	30	38	140	58	34	203	456	39	87	48
27	18	23	28	38	140	63	29	148	363	38	55	51
28	18	23	28	38	150	84	24	93	261	39	47	51
29	21	23	28	38	152	82	26	83	176	33	38	44
30	21	23	28	38	---	72	29	102	149	40	39	39
31	20	---	30	37	---	67	---	131	---	39	42	---
TOTAL	701	603	893	1285	3697	2711	1172	4399	27028	3104	1274	1859
MEAN	22.6	20.1	28.8	41.5	127	87.5	39.1	142	901	100	41.1	62.0
MAX	45	27	32	70	500	158	67	490	2640	298	87	244
MIN	12	15	24	30	34	46	20	26	101	33	25	30
AC-FT	1390	1200	1770	2550	7330	5380	2320	8730	53610	6160	2530	3690

CAL YR 1979 TOTAL 24564.4 MEAN 67.3 MAX 980 MIN 7.0 AC-FT 48720
WTR YR 1980 TOTAL 48726.0 MEAN 133 MAX 2640 MIN 12 AC-FT 96650

09302000 DUCHESNE RIVER NEAR RANDLETT, UTAH

LOCATION (REVISED).--Lat 40°12'56", long 109°46'58", in SW1/4SW1/4SW1/4 sec.16, T.3 S., R.2 E., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank 0.25 mi (0.40 km) downstream from Uinta 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) National Geodetic Vertical Datum 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 winter period, 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.--38 years, 557 ft^3/s (15.77 m^3/s), 403,500 acre-ft/yr (498 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, 6,060 ft^3/s (172 m^3/s) June 12, gage height, 7.69 ft (2.344 m); minimum daily, 42 ft^3/s (1.19 m^3/s) Aug. 10-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	505	272	195	140	145	345	187	331	632	1290	75	129
2	357	262	220	130	155	345	176	255	727	1450	67	129
3	152	264	240	120	162	345	158	206	703	1320	54	115
4	115	273	260	125	170	345	144	213	687	1100	50	103
5	104	269	265	135	180	348	133	268	1070	862	60	98
6	97	267	250	145	190	333	134	222	1670	673	67	102
7	92	261	230	155	200	310	137	157	1950	535	67	96
8	95	258	210	160	200	293	131	147	2120	490	48	159
9	92	255	190	165	190	269	123	174	2810	432	49	217
10	74	211	165	165	180	260	109	500	3700	400	42	627
11	76	122	150	170	190	248	112	785	4820	370	42	924
12	84	108	135	175	210	228	101	867	5620	322	45	526
13	84	101	120	180	220	207	79	654	5380	312	48	445
14	83	152	110	190	240	186	72	439	4540	320	49	398
15	81	258	98	200	280	191	70	344	3680	262	55	359
16	97	264	98	195	310	191	76	326	2930	210	69	333
17	104	190	98	190	330	168	128	306	2490	153	91	251
18	108	110	98	190	345	151	203	308	3100	126	93	219
19	126	106	98	185	345	164	217	303	3470	121	90	202
20	178	108	98	180	345	164	286	286	4000	120	77	182
21	389	110	98	180	345	166	279	291	4490	106	80	178
22	281	97	98	175	345	168	300	644	4250	86	79	171
23	291	93	92	170	345	163	320	1190	3910	87	81	172
24	299	97	88	165	345	157	358	1520	3420	76	87	176
25	296	105	84	160	345	164	308	1320	2950	89	113	162
26	306	115	80	158	345	173	334	1090	2500	98	201	157
27	301	117	90	155	345	173	366	827	2050	83	185	157
28	292	130	110	150	345	184	348	584	1540	87	171	241
29	287	150	125	145	345	194	271	555	1120	87	141	204
30	287	170	140	142	---	201	319	621	986	88	125	151
31	283	---	145	140	---	198	---	610	---	78	115	---
TOTAL	6016	5295	4478	5035	7692	7032	5979	16343	83315	11833	2616	7383
MEAN	194	177	144	162	265	227	199	527	2777	382	84.4	246
MAX	505	273	265	200	345	348	366	1520	5620	1450	201	924
MIN	74	93	80	120	145	151	70	147	632	76	42	96
AC-FT	11930	10500	8880	9990	15260	13950	11860	32420	165300	23470	5190	14640

CAL YR 1979 TOTAL 175751 MEAN 482 MAX 3110 MIN 74 AC-FT 348600
WTR YR 1980 TOTAL 163017 MEAN 445 MAX 5620 MIN 42 AC-FT 323300

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, 2,710 micromhos Oct. 22, 24, 29; minimum, 280 micromhos June 13.
WATER TEMPERATURES: Maximum daily, 27.5°C July 16; minimum daily, several days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN, DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
10...	1245	72	2230	8.3	27.5	14.0	12	12.0	--	700	410
NOV											
28...	1130	130	2520	8.1	-2.5	.0	--	13.2	1.0	880	520
DEC											
10...	1600	165	1620	8.1	3.0	.0	9.0	12.0	--	600	290
JAN											
16...	1500	195	1260	8.0	5.5	.0	12	11.5	--	370	160
FEB											
12...	1500	210	1510	7.8	-1.0	.0	6.7	11.4	--	500	230
MAR											
19...	1345	174	2000	8.2	14.0	10.0	14	9.3	--	630	320
APR											
09...	1400	126	1930	8.2	18.5	13.5	9.0	11.4	--	580	290
MAY											
22...	1430	570	1180	8.0	31.5	21.5	540	6.9	--	330	140
JUN											
27...	1200	1950	390	7.6	26.0	18.0	35	7.8	--	150	52
JUL											
16...	1300	212	1360	8.1	--	27.5	--	10.9	--	460	230
AUG											
21...	1600	81	2030	8.2	29.0	22.5	15	7.4	--	620	360
SEP											
25...	1600	181	1970	8.2	24.5	18.0	37	8.3	--	580	310

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
OCT										
10...	130	92	290	47	4.8	290	4.2	360	0	295
NOV										
28...	170	110	340	46	5.0	340	4.2	440	0	361
DEC										
10...	120	72	200	59	3.6	200	2.9	370	0	303
JAN										
16...	74	44	110	39	2.5	110	2.6	260	0	213
FEB										
12...	100	60	160	41	3.1	160	2.4	330	0	271
MAR										
19...	120	80	230	44	4.0	--	4.3	380	0	312
APR										
09...	110	73	210	44	3.8	--	3.3	350	0	287
MAY										
22...	69	39	86	36	2.1	--	3.1	280	0	230
JUN										
27...	33	16	30	30	1.1	--	1.4	120	0	98
JUL										
16...	95	53	140	40	2.9	--	3.5	--	--	230
AUG										
21...	130	72	260	47	4.5	--	5.4	--	--	260
SEP										
25...	110	74	230	46	4.2	--	4.9	--	--	270

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	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)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)
OCT										
10...	2.9	840	98	.7	10	1680	1640	2.28	327	27
NOV										
28...	5.6	940	160	.3	15	--	1960	2.67	688	--
DEC										
10...	4.7	570	72	.6	11	1250	1230	1.70	557	32
JAN										
16...	4.2	350	57	.4	9.7	846	776	1.15	445	56
FEB										
12...	8.4	470	80	.5	12	1100	1050	1.50	624	19
MAR										
19...	3.8	670	110	.6	9.0	1480	1410	2.01	695	20
APR										
09...	3.5	600	96	.7	8.7	1310	1280	1.78	446	26
MAY										
22...	3.7	270	30	.5	13	671	626	.91	1030	276
JUN										
27...	4.8	88	11	.2	7.2	248	246	.34	1310	94
JUL										
16...	--	410	51	.8	12	954	904	1.30	546	38
AUG										
21...	--	730	130	.8	8.0	1530	1490	2.08	335	17
SEP										
25...	--	630	110	.8	11	1520	1330	2.07	743	50

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA 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)
OCT								
10...	.03	--	.040	--	.05	--	.69	--
NOV								
28...	--	.40	--	.020	--	.03	--	.58
DEC								
10...	.29	--	.030	--	.04	--	.02	--
JAN								
16...	.32	--	.060	--	.07	--	.93	--
FEB								
12...	.50	--	.140	--	.17	--	.86	--
MAR								
19...	.05	--	.000	--	.00	--	.71	--
APR								
09...	.09	--	.130	--	.16	--	1.2	--
MAY								
22...	.12	--	.100	--	.12	--	1.0	--
JUN								
27...	.03	--	.040	--	.05	--	.56	--
JUL								
16...	.01	--	.010	--	--	--	.89	--
AUG								
21...	.00	--	.000	--	.00	--	1.0	--
SEP								
25...	.04	--	.010	--	.01	--	.82	--

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)
OCT							
10...	.73	--	.76	3.4	.000	.00	--
NOV							
28...	--	.60	--	--	--	--	.010
DEC							
10...	.05	--	.34	1.5	.040	.12	--
JAN							
16...	.99	--	1.3	5.8	.060	.18	--
FEB							
12...	1.0	--	1.5	6.6	.020	.06	--
MAR							
19...	.71	--	.76	3.4	.040	.12	--
APR							
09...	1.3	--	1.4	6.2	.040	.12	--
MAY							
22...	1.1	--	1.2	5.4	.540	1.7	--
JUN							
27...	.60	--	.63	2.8	.110	.34	--
JUL							
16...	.90	--	.91	4.0	.080	--	--
AUG							
21...	1.0	--	1.0	4.4	.040	.12	--
SEP							
25...	.83	--	.87	3.9	.160	.49	--

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)	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)
NOV											
28...	1130	320	300	20	2	0	3	0	0	0	1400
APR											
09...	1400	290	280	10	2	0	3	0	0	<1	1000

DATE	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	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)	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)
NOV											
28...	0	0	1	10	10	0	0	0	370	330	40
APR											
09...	0	0	<1	0	0	3	1	2	470	460	<10

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	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)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)
NOV											
28...	5	3	2	250	70	0	100	.0	.0	.0	--
APR											
09...	0	0	0	160	100	30	70	.0	.0	.0	8

DATE	MOLYBDENUM, SUSPENDED RECOV. (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	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)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
NOV											
28...	--	2	100	2	2	1	1	0	20	0	20
APR											
09...	0	<10	0	1	3	1	0	1	10	7	<3

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)
OCT			
10...	1245	1400	10
NOV			
28...	1130	1400	40
DEC			
10...	1600	1000	10
JAN			
16...	1500	670	20
FEB			
12...	1500	710	30
MAR			
19...	1345	1000	10
APR			
09...	1400	1000	<10
MAY			
22...	1430	650	120
JUN			
27...	1200	180	70
JUL			
16...	1300	840	--
AUG			
21...	1600	940	90
SEP			
25...	1600	70	<10

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
OCT			
10...	1245	13	12
NOV			
28...	1130	19	25
DEC			
10...	1600	11	8.4
JAN			
16...	1500	7.9	7.6
FEB			
12...	1500	5.9	5.8
MAR			
19...	1345	10	6.0
APR			
09...	1400	8.8	8.5
MAY			
22...	1430	23	12
JUN			
27...	1200	8.0	8.8
JUL			
16...	1300	12	14
AUG			
21...	1600	15	15
SEP			
25...	1600	7.6	8.1

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						
10...	1245	1.57	1.42	.570	.000	263
APR						
09...	1400	5.43	4.88	.960	.270	573
MAY						
22...	1430	4.02	2.84	6.19	.820	191
AUG						
21...	1600	6.38	5.83	1.54	.060	357
SEP						
25...	1600	29.2	26.9	3.97	.450	579

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1310	1580	1630	1940	1730	1930	1510	1570	690	700	1910	1920
2	1310	1590	1630	1940	445	1870	1550	1510	690	650	1920	1940
3	2210	1500	1630	1940	1360	1840	2050	1350	690	710	1910	1950
4	2210	1550	2230	1870	1360	1940	1970	1610	690	780	1920	1860
5	2220	1520	2170	1750	1770	1830	2060	1600	690	790	2000	1730
6	2220	1500	1700	1750	1760	1810	2350	1380	570	830	2160	1730
7	2220	1520	1700	1930	1760	1840	1920	1640	420	1180	1920	1740
8	2220	1520	1700	1750	1760	1810	2070	1510	420	1120	2200	1760
9	2110	1580	2170	1750	1780	1960	2080	1280	420	1150	1920	1750
10	2350	1570	2070	1750	1360	1960	2080	1280	370	1160	1910	1960
11	2350	1720	2180	1750	1360	1940	2070	1430	380	1690	1930	1840
12	2340	1730	2070	1750	1360	2170	2080	1270	330	1230	1910	1950
13	2140	1720	440	1940	1370	1640	2060	1570	280	1100	2190	2010
14	2350	1710	1690	1720	1360	1980	1920	1570	290	1380	2190	1960
15	2700	1720	2070	1750	2470	1940	1370	1280	300	1820	2180	1830
16	2230	1690	460	1750	1360	1880	2360	1260	370	1380	1930	2010
17	2230	1580	2060	1800	1760	2000	2390	1280	430	1420	1920	1860
18	2700	1710	2060	1940	1770	1980	1600	1270	395	1790	1930	2010
19	2700	2320	450	1750	1760	2070	1390	1280	345	1810	1920	1860
20	2340	2320	460	1670	1360	1910	1390	1290	315	1990	1920	2020
21	2140	1700	2070	1940	1360	1810	1400	870	310	1990	1930	1810
22	2710	1590	2070	1940	1360	1840	1400	860	580	2070	1930	1730
23	2240	2320	2180	1940	1360	1800	1290	870	365	2060	1930	1800
24	2710	2300	2180	1740	1340	1900	1400	870	295	2070	1920	1830
25	2350	2320	2190	1930	1310	1900	1270	870	330	2070	1930	1970
26	1610	1700	2000	1930	1280	1950	1690	860	390	2060	1920	1970
27	2700	2320	2000	1930	1200	1940	1180	880	470	1980	1920	1940
28	1620	1710	2000	1740	1340	1610	1180	870	695	1980	1920	1750
29	2710	2330	1990	1940	1410	1610	1180	870	610	2200	1920	1960
30	1610	2330	2000	1940	---	1510	1180	1290	680	2280	1920	1860
31	1560	---	2000	1880	---	1610	---	1280	---	2240	1920	---
MEAN	2210	1810	1780	1840	1480	1860	1710	1250	460	1540	1970	1880

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	14.0	19.5	24.0	20.0
2	---	---	---	---	---	---	---	---	14.0	21.0	23.0	20.0
3	---	---	---	---	---	---	---	---	15.0	21.0	23.0	20.0
4	---	---	---	---	---	---	---	---	15.0	23.0	23.0	20.0
5	---	---	---	---	---	---	---	---	15.0	23.0	23.0	20.0
6	---	---	---	---	---	---	---	---	19.0	23.5	21.0	20.0
7	---	---	---	---	---	---	---	---	19.0	26.0	21.0	19.0
8	---	---	---	---	---	---	---	---	19.0	21.0	21.0	19.0
9	---	---	---	---	---	---	13.5	---	19.0	23.0	23.0	19.0
10	14.0	---	.0	---	---	---	---	---	19.0	26.0	24.0	19.0
11	---	---	---	---	---	---	---	---	16.0	26.0	26.0	19.0
12	---	---	---	---	.0	---	---	---	16.0	26.0	26.0	19.0
13	---	---	---	---	---	---	---	---	16.5	26.0	26.0	19.0
14	---	---	---	---	---	---	---	---	16.5	26.0	26.0	19.0
15	---	---	---	---	---	---	---	19.0	16.0	26.0	26.0	19.0
16	---	---	---	.0	---	---	15.0	19.0	17.0	27.5	26.0	18.0
17	---	---	---	---	---	---	17.0	17.0	18.0	26.0	26.0	18.0
18	---	---	---	---	---	---	17.0	17.0	18.5	26.0	26.0	18.0
19	---	---	---	---	---	10.0	17.0	15.0	19.0	26.0	26.0	18.0
20	---	---	---	---	---	---	17.0	15.0	14.5	26.0	26.0	18.0
21	---	---	---	---	---	---	17.0	14.0	15.0	20.0	25.0	19.0
22	---	---	---	---	---	---	15.0	16.0	15.0	20.0	25.0	18.0
23	---	---	---	---	---	---	15.0	14.0	16.0	21.0	23.0	18.0
24	---	---	---	---	---	---	15.0	---	17.0	21.0	23.0	18.0
25	---	---	---	---	---	---	15.0	---	17.5	21.0	22.0	18.0
26	---	---	---	---	---	---	14.0	---	18.0	20.0	20.0	18.0
27	---	---	---	---	---	---	14.0	---	19.0	21.0	20.0	18.0
28	---	.0	---	---	---	---	15.0	---	19.0	21.0	18.0	18.0
29	---	---	---	---	---	---	15.0	---	19.0	20.0	19.0	18.0
30	---	---	---	---	---	---	14.0	---	16.0	20.0	19.0	18.0
31	---	---	---	---	---	---	---	---	---	20.0	19.0	---
MEAN	---	---	---	---	---	---	---	---	17.0	23.0	23.0	18.5

WTR YR 1980 MEAN 19.0 MAX 27.5 MIN .0

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
NOV						
28...	1130	130	.0	123	--	43
DEC						
10...	1600	165	.0	152	--	68
JAN						
16...	1500	195	.0	106	67	56
FEB						
12...	1500	210	.0	29	78	16
MAR						
19...	1345	174	10.0	64	--	30
APR						
09...	1400	126	13.5	64	--	22
MAY						
22...	1430	570	21.5	898	--	1380
JUN						
27...	1200	1950	18.0	385	--	2030
JUL						
16...	1300	212	27.5	219	--	125
AUG						
21...	1600	81	22.5	170	--	37
SEP						
25...	1600	181	18.0	228	--	111

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UTAH

LOCATION.--Lat 40°00'50", long 109°04'48", in NW1/4NE1/4NE1/4 sec.27, T.9 S., R.25 E., Uintah County, Hydrologic Unit 14050007, on right bank 900 ft (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.--Water-discharge records good except those for winter period, which are fair. Diversions for irrigation of about 31,900 acres (129 km^2) above station.

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, 3,330 ft^3/s (94.3 m^3/s) May 25, gage height, 6.19 ft (1.887 m); minimum, 129 ft^3/s (3.65 m^3/s) Dec. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	281	456	190	350	330	666	413	1170	2460	1070	354	345
2	282	419	224	340	360	564	403	1120	2410	1170	332	362
3	281	431	283	330	380	556	424	1020	2290	1440	331	357
4	295	451	420	330	400	490	418	1010	2250	1320	324	337
5	303	459	430	320	390	573	415	1080	2330	1100	326	347
6	319	461	430	360	380	614	448	1140	2510	981	317	342
7	336	451	430	370	370	569	487	1380	2600	895	304	347
8	343	448	420	370	360	591	461	1550	2650	836	293	327
9	324	459	370	380	360	623	413	1590	2710	788	270	359
10	326	453	350	380	380	490	419	1680	2670	718	297	424
11	338	453	350	310	420	481	476	1700	2700	690	314	516
12	338	443	350	340	470	473	445	1990	2820	672	270	426
13	352	433	360	380	500	473	424	2000	2960	623	246	404
14	360	406	350	380	600	438	411	1730	2980	627	234	430
15	392	406	350	370	698	518	438	1590	2810	670	281	403
16	393	415	360	370	734	562	491	1540	2590	614	395	403
17	371	430	360	370	893	490	527	1760	2340	563	420	413
18	380	435	370	360	960	421	553	1870	2190	541	429	409
19	389	438	370	360	1100	414	582	1680	2080	521	415	398
20	438	456	370	350	1300	471	655	1680	2070	497	376	389
21	489	431	370	350	1220	475	724	1880	1910	490	368	386
22	546	459	360	340	892	513	818	2180	1850	464	311	405
23	523	352	360	330	659	565	951	2610	1790	405	285	395
24	489	310	350	330	547	504	973	3030	1710	383	391	402
25	496	403	340	330	490	490	963	3110	1600	406	806	376
26	503	504	330	330	481	504	909	2230	1520	412	648	373
27	496	473	310	330	486	484	925	2340	1430	405	456	362
28	485	420	380	330	564	444	916	2340	1320	372	392	363
29	488	324	380	320	676	428	969	2530	1200	364	376	363
30	496	274	360	320	---	414	1080	2640	1120	338	356	352
31	492	---	350	320	---	413	---	2410	---	341	341	---
TOTAL	12344	12753	11027	10750	17400	15711	18531	57580	65870	20716	11258	11515
MEAN	398	425	356	347	600	507	618	1857	2196	668	363	384
MAX	546	504	430	380	1300	666	1080	3110	2980	1440	806	516
MIN	281	274	190	310	330	413	403	1010	1120	338	234	327
AC-FT	24480	25300	21870	21320	34510	31160	36760	114200	130700	41090	22330	22840

CAL YR 1979 TOTAL 279873 MEAN 767 MAX 4230 MIN 190 AC-FT 555100
WTR YR 1980 TOTAL 265455 MEAN 725 MAX 3110 MIN 190 AC-FT 526500

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.

REMARKS.--Specific-conductance and water-temperature recorders were not operated during the winter period. 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 29 percent missing record), 1,570 micromhos July 22, 1977; minimum recorded, 228 micromhos June 14, 15, 1979.
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 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 (more than 20 percent missing record), 1,360 micromhos Aug. 25; minimum recorded, 354 micromhos, June 13.
WATER TEMPERATURES: Maximum recorded (more than 20 percent missing record), 27.5°C Aug. 2; minimum observed, 0.0°C Feb. 22.
SEDIMENT LOADS: Maximum daily, 48,600 tons (44,100 tonnes) May 24; minimum daily, 128 tons (116 tonnes) Aug. 16.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT												
09...	1700	329	760	8.3	21.0	15.0	8.1	290	110	73	27	60
NOV												
13...	1600	431	710	8.3	11.5	3.0	11.6	270	140	68	25	55
JAN												
08...	1430	356	810	7.8	4.5	.0	11.8	260	75	66	22	57
MAR												
14...	1200	450	1000	8.3	7.0	4.5	9.6	340	130	77	35	100
APR												
04...	1130	404	1000	7.9	8.5	5.5	10.4	350	150	80	36	82
MAY												
21...	1530	1700	560	7.9	25.5	16.5	7.8	200	51	46	21	36
JUN												
06...	1400	2480	380	7.8	25.5	14.5	8.1	140	14	38	12	19
JUL												
22...	1500	466	750	8.3	36.0	23.0	7.2	270	58	66	25	57
AUG												
27...	1600	435	970	7.8	30.0	20.5	--	320	110	79	30	72
SEP												
18...	1430	404	780	8.3	19.0	16.0	8.0	260	84	63	26	59

DATE	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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												
09...	31	1.5	63	2.5	180	190	41	.4	12	514	.70	457
NOV												
13...	30	1.5	--	1.7	130	160	34	.3	14	436	.59	507
JAN												
08...	33	1.6	59	1.5	180	160	37	.2	14	467	.64	449
MAR												
14...	39	2.4	100	2.6	210	260	49	.2	13	664	.90	807
APR												
04...	34	1.9	--	2.2	200	240	46	.3	14	621	.84	677
MAY												
21...	28	1.1	--	1.7	150	120	10	.2	13	340	.46	1560
JUN												
06...	22	.7	--	1.2	130	57	7.3	.1	11	227	.31	1520
JUL												
22...	31	1.5	--	2.5	210	150	29	.4	14	470	.64	591
AUG												
27...	33	1.8	--	3.7	210	210	38	.4	14	573	.78	673
SEP												
18...	33	1.6	--	1.8	180	170	34	.3	12	474	.64	517

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UTAH--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)
OCT				
09...	.03	--	.010	.03
NOV				
13...	.02	.010	--	--
JAN				
08...	.27	--	.000	.00
MAR				
14...	.12	.020	--	--
APR				
04...	.04	--	.010	.03
MAY				
21...	.31	.020	--	--
JUN				
06...	.73	--	--	--
JUL				
22...	.00	.020	.000	.00
AUG				
27...	.00	.020	--	--
SEP				
18...	.00	010	--	--

DATE	TIME	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT				
09...	1700	70	20	3
NOV				
13...	1600	70	--	--
JAN				
08...	1430	50	<10	2
MAR				
14...	1200	70	--	--
APR				
04...	1130	70	30	2
MAY				
21...	1530	60	--	--
JUL				
22...	1500	60	20	3
AUG				
27...	1600	120	--	--
SEP				
18...	1430	60	--	--

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	LEAD, DISSOLVED (UG/L AS PB)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)
JUN									
06...	1400	100	1	<1	0	10	0	.0	1
SEP									
18...	1430	10	1	1	0	3	0	.0	1

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UTAH--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	847	801	828	790	766	777	767	733	753	---	---	---
2	845	795	819	778	746	766	787	761	776	---	---	---
3	832	798	818	776	744	765	797	767	783	---	---	---
4	843	793	822	772	748	763	815	787	800	---	---	---
5	835	781	813	761	721	746	821	733	781	---	---	---
6	826	766	801	753	729	744	751	679	710	---	---	---
7	809	755	787	743	725	738	681	657	672	---	---	---
8	817	765	792	743	711	735	685	647	672	804	586	801
9	904	772	831	747	731	740	709	659	681	805	797	802
10	910	864	892	747	717	736	733	677	711	820	796	807
11	914	880	901	744	718	733	735	709	721	835	821	827
12	919	879	904	742	706	730	723	705	713	826	822	825
13	921	877	902	806	708	759	747	709	728	831	809	820
14	917	891	904	810	758	789	769	723	743	830	812	818
15	901	799	850	806	754	786	776	754	768	839	815	830
16	819	733	771	796	756	782	812	752	777	876	846	856
17	785	747	765	784	754	764	828	796	814	921	883	904
18	778	746	762	756	736	750	838	798	823	950	924	932
19	772	708	742	744	728	739	834	776	809	971	925	953
20	706	690	695	730	690	717	804	766	789	1010	966	983
21	714	684	697	690	674	683	790	780	785	1080	1020	1060
22	708	676	695	700	674	687	784	774	780	1100	1040	1080
23	750	706	724	718	704	713	786	770	781	1140	997	1060
24	755	717	740	739	717	727	784	762	774	1060	992	1020
25	769	725	749	755	729	741	774	774	774	1000	978	993
26	785	757	773	747	709	730	---	---	---	1120	1010	1070
27	791	757	778	709	669	690	---	---	---	1080	1060	1060
28	793	749	774	699	671	686	---	---	---	1060	1040	1040
29	771	763	766	727	695	713	---	---	---	1080	1040	1060
30	776	762	768	749	715	736	---	---	---	1110	1070	1090
31	784	770	776	---	---	---	---	---	---	1120	1070	1100
MONTH	921	676	795	810	669	739	838	647	757	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	1130	1080	1110	911	877	894	1020	992	1010	670	610	653
2	1110	1070	1100	914	878	893	1030	1010	1020	674	590	645
3	1120	1090	1110	927	891	911	1050	976	1010	660	596	630
4	1140	1060	1100	946	914	930	1060	940	988	692	614	650
5	1090	1020	1060	941	919	930	966	886	922	664	614	636
6	1060	1010	1030	952	934	946	954	860	890	674	620	639
7	1010	991	1000	971	931	952	934	898	913	662	584	622
8	1040	998	1020	976	940	962	948	928	934	700	572	610
9	1050	991	1030	985	933	963	960	922	940	624	584	604
10	1040	996	1020	1000	966	984	990	956	970	620	572	598
11	1040	997	1020	1020	999	1010	1080	1020	1060	606	580	596
12	1060	1030	1050	1020	996	1010	1100	1060	1080	644	602	620
13	1070	1020	1050	1020	983	1010	1130	1100	1120	646	588	620
14	1040	984	1010	1020	982	1000	1160	1110	1140	656	598	629
15	987	903	942	1030	984	998	1330	1010	1130	674	606	641
16	856	800	828	1030	930	992	1050	974	1010	680	622	649
17	799	771	791	974	902	942	1030	968	989	682	632	658
18	900	744	766	984	928	952	982	942	956	768	640	674
19	980	705	763	982	890	938	956	916	938	666	542	590
20	730	672	705	977	903	924	936	794	900	600	546	574
21	930	677	729	977	901	948	912	768	877	618	518	564
22	760	662	709	913	891	900	882	804	837	600	512	546
23	765	735	749	917	863	899	820	760	783	544	436	478
24	838	790	812	961	911	935	768	718	734	504	418	448
25	909	879	894	991	943	971	738	706	723	462	424	445
26	914	894	908	985	963	974	744	708	724	466	412	444
27	918	894	910	973	925	949	754	700	725	488	422	451
28	933	893	916	951	911	930	734	680	704	488	430	462
29	934	888	916	1010	909	943	706	660	688	476	426	451
30	---	---	---	1020	998	1010	700	616	663	470	398	431
31	---	---	---	1030	988	1010	---	---	---	458	410	434
MONTH	1140	662	933	1030	863	955	1330	616	913	768	398	571

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UTAH--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	470	412	441	498	430	459	656	626	641	788	748	771
2	458	396	432	550	496	529	652	618	635	795	757	776
3	462	390	427	575	523	541	656	626	640	786	752	770
4	456	388	419	591	551	571	676	644	660	794	752	775
5	456	378	420	601	539	572	690	658	672	799	759	779
6	450	386	417	605	565	584	692	658	674	796	762	780
7	456	382	418	607	567	587	697	657	676	787	775	783
8	434	374	404	627	593	607	699	667	682	793	779	789
9	426	368	398	642	604	622	707	679	693	802	788	794
10	428	366	394	656	632	644	723	691	706	807	773	789
11	416	362	388	674	634	654	739	699	719	835	781	799
12	404	374	387	750	666	684	742	700	720	822	794	809
13	414	354	389	700	672	686	738	706	725	825	797	811
14	432	378	400	743	607	646	750	724	738	825	791	808
15	424	378	403	751	683	715	766	746	757	820	772	794
16	434	384	411	745	691	714	780	756	769	795	765	781
17	442	394	421	695	641	667	812	780	791	799	759	780
18	454	410	428	697	661	678	831	803	814	804	710	758
19	452	398	427	717	687	701	811	791	800	721	641	668
20	454	394	425	726	690	705	813	767	791	652	616	637
21	462	408	436	740	702	719	809	765	786	669	641	657
22	482	422	448	760	708	738	811	771	789	682	646	667
23	484	428	454	716	664	682	837	787	802	697	647	674
24	482	442	463	674	626	646	840	816	827	698	656	680
25	490	430	460	660	614	639	1360	848	1000	709	669	692
26	484	436	459	711	635	653	1170	940	989	726	680	706
27	478	418	453	747	657	687	976	801	908	735	689	715
28	496	428	467	679	615	645	802	752	768	747	703	728
29	476	416	446	653	609	628	788	758	773	764	722	746
30	494	448	472	633	601	616	785	749	766	779	727	757
31	---	---	---	643	613	629	784	744	767	---	---	---
MONTH	496	354	427	760	430	640	1360	618	757	835	616	749

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19.0	14.0	16.5	3.5	1.5	2.5						
2	17.5	14.0	16.0	4.0	1.0	2.5						
3	17.0	13.5	15.5	4.0	1.5	3.0						
4	16.5	12.0	14.5	4.0	2.0	3.0						
5	17.0	12.5	15.0	5.0	2.0	3.5						
6	16.5	12.5	14.5	4.5	2.5	3.5						
7	17.0	12.5	14.5	4.5	3.5	4.0						
8	16.5	12.5	14.5	5.0	3.0	4.0						
9	15.0	---	14.0	5.0	3.5	4.5						
10	15.0	10.5	13.0	5.5	3.0	4.0						
11	14.5	11.0	13.0	5.0	3.0	4.0						
12	15.0	11.0	13.0	4.0	2.0	3.0						
13	15.0	11.0	13.0	3.5	1.0	2.5						
14	13.5	11.0	12.5	3.0	1.0	2.0						
15	14.0	10.0	12.0	2.5	1.0	1.5						
16	15.0	11.5	13.0	2.0	.5	1.0						
17	13.5	10.5	12.0	1.0	1.0	1.0						
18	14.5	11.0	13.0	2.0	.5	1.5						
19	14.0	12.0	13.0	2.0	1.0	1.5						
20	12.5	8.5	10.0	2.0	1.0	1.5						
21	10.0	7.5	8.5	1.0	1.0	1.0						
22	9.0	6.5	8.0	1.0	1.0	1.0						
23	9.0	5.5	7.5	---	---	---						
24	9.5	6.5	8.0	---	---	---						
25	10.0	6.5	8.5	---	---	---						
26	10.5	7.0	9.0	---	---	---						
27	10.5	7.5	9.0	---	---	---						
28	9.5	7.0	8.5	---	---	---						
29	8.5	6.0	7.5	---	---	---						
30	6.0	4.0	5.0	---	---	---						
31	4.5	2.0	3.5	---	---	---						
MONTH	19.0	---	11.5	---	---	---						

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UTAH--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	1.5	.5	.5	7.5	3.5	5.5	14.5	12.0	13.5
2	---	---	---	1.5	.5	.5	5.5	4.0	5.0	15.0	12.5	13.5
3	---	---	---	1.5	.5	.5	7.5	2.0	5.0	16.0	13.0	14.5
4	---	---	---	2.0	.5	1.0	11.0	4.5	8.0	17.5	14.0	15.5
5	---	---	---	1.5	.5	.5	11.0	7.5	9.0	16.5	14.0	15.5
6	---	---	---	1.0	.5	.5	9.5	7.5	8.5	16.0	14.0	15.0
7	---	---	---	1.5	.5	1.0	7.5	6.0	7.0	15.5	14.0	14.5
8	---	---	---	3.0	.5	1.0	9.0	4.0	6.5	14.5	13.0	13.5
9	---	---	---	3.0	.5	1.0	11.0	6.0	8.5	13.5	12.5	13.0
10	---	---	---	6.0	1.0	3.5	12.0	8.5	10.0	13.5	11.5	12.5
11	---	---	---	6.0	3.5	5.0	9.5	7.5	8.5	12.5	11.0	11.5
12	---	---	---	6.0	3.5	5.0	9.0	5.5	7.0	11.0	9.0	10.0
13	---	---	---	7.0	2.5	4.5	10.5	4.5	7.5	11.0	8.5	10.0
14	---	---	---	8.5	4.0	6.5	13.0	6.5	9.5	11.5	9.5	10.5
15	---	---	---	6.5	5.0	6.0	14.0	9.0	11.5	13.5	10.5	12.0
16	---	---	---	6.0	3.5	5.0	14.5	9.0	11.5	14.5	12.0	13.5
17	---	---	---	6.0	2.0	4.0	15.0	9.0	12.0	13.5	11.5	12.5
18	---	---	---	7.0	2.0	4.5	15.5	10.0	13.0	14.0	10.0	12.0
19	---	---	---	9.0	4.0	6.5	16.5	11.0	13.5	16.0	12.0	14.0
20	---	---	---	9.5	5.0	7.5	16.5	12.0	14.5	17.5	14.0	15.5
21	---	---	---	9.0	5.5	7.5	15.0	13.0	14.0	18.5	15.0	17.0
22	1.0	.0	.5	8.0	6.5	7.0	15.5	12.0	14.0	17.5	15.5	16.5
23	1.0	.5	.5	8.5	5.5	7.0	14.5	12.5	13.5	17.0	15.0	16.0
24	1.0	.5	.5	8.5	6.5	7.5	13.5	12.0	13.0	15.0	12.5	14.0
25	1.0	.5	.5	7.0	5.0	6.0	14.5	10.5	12.5	12.5	10.0	11.0
26	1.5	.5	.5	8.5	4.5	6.0	15.5	11.5	13.5	12.0	8.5	10.0
27	2.0	.5	.5	9.0	4.5	7.0	16.0	12.0	14.0	14.0	11.0	12.0
28	1.5	.5	.5	7.5	5.5	6.5	17.5	13.0	15.0	15.0	11.5	13.0
29	1.0	.5	.5	8.0	4.0	6.0	16.0	14.0	15.0	15.5	13.0	14.5
30	---	---	---	6.0	4.0	5.0	14.0	13.0	13.5	15.5	13.5	14.5
31	---	---	---	6.0	2.0	4.0	---	---	---	15.5	12.5	14.0
MONTH	---	---	---	9.5	.5	4.5	17.5	2.0	10.5	18.5	8.5	13.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.5	12.5	13.5	23.5	20.5	22.0	27.0	22.5	25.0	20.5	15.5	18.0
2	14.0	11.0	12.5	23.0	21.5	22.0	27.5	22.5	25.0	21.0	16.0	18.5
3	15.5	12.0	13.5	22.5	20.0	21.5	25.5	22.0	23.5	21.5	16.5	19.5
4	17.0	13.5	15.0	23.0	19.0	21.0	24.5	19.5	22.0	22.5	17.0	20.0
5	17.0	14.0	15.5	24.0	20.0	22.0	25.5	19.5	22.5	22.5	17.5	20.5
6	17.0	14.0	15.5	23.5	20.0	22.0	25.5	21.0	23.5	23.0	18.5	21.0
7	17.0	14.0	15.5	22.5	20.5	21.5	27.0	21.0	24.0	21.5	19.0	20.0
8	17.0	14.5	16.0	23.5	20.0	22.0	27.0	22.0	24.5	20.5	18.0	19.0
9	17.5	14.5	16.0	25.5	20.0	23.0	27.0	22.5	25.0	19.0	17.5	18.0
10	18.0	15.5	17.0	25.5	22.0	24.0	26.5	22.0	24.5	18.5	17.5	18.0
11	18.0	15.5	17.0	26.0	21.5	24.0	26.0	20.5	23.5	18.0	16.0	17.0
12	18.0	15.5	16.5	24.5	21.5	23.0	24.5	20.5	22.5	19.5	15.0	17.5
13	17.0	14.5	16.0	24.0	21.5	22.5	25.0	20.5	22.5	21.0	16.5	18.5
14	17.0	14.5	15.5	24.5	20.0	22.0	26.5	21.0	23.5	20.5	16.5	18.5
15	17.0	14.0	15.5	24.5	19.5	22.0	24.0	21.5	23.0	20.0	15.5	18.0
16	17.5	14.5	16.0	26.0	20.5	23.0	23.5	19.0	21.5	20.5	16.5	18.5
17	18.0	15.0	16.5	26.5	21.5	24.0	23.0	19.5	21.5	20.0	15.0	17.5
18	19.5	16.0	17.5	27.0	22.0	24.5	23.5	19.5	21.5	20.0	15.5	18.0
19	20.0	17.0	18.5	26.5	23.0	25.0	20.5	17.5	19.0	18.5	16.5	17.5
20	19.0	17.0	18.0	27.0	22.0	24.5	21.0	15.0	18.0	19.5	15.0	17.5
21	19.5	16.5	18.0	27.0	22.0	24.5	22.5	16.5	19.5	19.0	15.0	17.0
22	20.0	16.5	18.5	27.0	21.5	24.5	22.0	17.5	20.0	17.5	13.5	15.5
23	19.5	17.0	18.5	27.0	23.0	25.0	22.0	18.5	20.0	17.0	12.5	15.0
24	20.0	16.5	18.5	26.5	22.0	24.0	22.0	18.0	20.0	17.0	12.5	14.5
25	20.5	17.0	19.0	26.5	21.0	24.0	20.5	14.0	18.0	17.0	12.5	15.0
26	21.5	18.0	19.5	27.0	22.0	24.5	21.5	16.0	18.5	17.5	12.0	15.0
27	21.5	18.0	20.0	26.5	21.0	24.0	22.5	17.5	20.0	18.0	13.0	15.5
28	21.5	17.5	20.0	27.0	21.5	24.5	22.0	18.0	20.0	18.5	13.5	16.0
29	22.5	19.0	21.0	26.0	21.5	24.0	21.5	18.0	19.5	18.5	14.0	16.5
30	23.0	20.0	21.5	27.0	21.5	24.5	20.5	17.0	19.0	18.5	13.5	16.0
31	---	---	---	27.0	22.0	24.5	20.0	16.5	18.0	---	---	---
MONTH	23.0	11.0	17.0	27.0	19.0	23.5	27.5	14.0	21.5	23.0	12.0	17.5
YEAR	27.5	.0	13.5									

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UTAH--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
TOTAL		4930		4380		3990		10790		92630		32570

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	---	396	3180	10000			---	2120	216	206	346	322
2	---	370	2500	7560			---	2890	208	186	324	317
3	---	424	2920	8040			---	4570	216	193	280	270
4	---	406	2290	6240			---	2920	200	175	228	207
5	---	398	3320	9680			---	1690	177	156	231	216
6	---	433	3250	10000			---	1270	207	177	228	211
7	---	450	6620	24700			---	1090	207	170	234	219
8	---	401	6500	27200			---	975	218	172	372	328
9	---	346	5350	23000			---	862	228	166	446	432
10	---	362	6050	27400			---	921	217	174	3000	3430
11	---	395	5720	26300			---	686	235	199	13600	18900
12	---	352	8220	44200			---	639	193	141	2940	3380
13	---	312	7520	40600			---	555	193	128	1080	1180
14	---	283	6000	28000			---	508	210	133	518	601
15	---	291	4860	20900			---	506	247	187	330	359
16	594	787	4950	20600			---	428	2460	2620	288	313
17	1240	1760	6030	28700			---	383	2600	2950	280	312
18	1500	2240	5100	25700			---	324	845	979	252	278
19	2390	3760	3900	17700			---	345	429	481	240	258
20	2140	3780	3300	15000			---	322	276	280	224	235
21	2230	4360	3020	15300			---	311	240	238	208	217
22	2520	5570	4460	26300			---	293	180	151	206	225
23	2980	7650	5900	41600			256	280	9000	6930	198	211
24	2630	6910	5940	48600			297	307	19800	20900	200	217
25	1550	4030	4640	39000			292	320	19800	43100	182	185
26	1620	3980	3380	20400			900	1000	18400	32200	170	171
27	1370	3420	3960	25000			1190	1300	4620	5690	168	164
28	1370	3390	3440	21700			382	384	2280	2410	168	165
29	1650	4320	3930	26800			269	264	693	704	158	155
30	2580	7520	3700	26400			240	219	484	465	158	150
31	---	---	2950	19200			235	216	407	375	---	---
TOTAL	---	69096	---	731820		368600	---	28896	---	123036	---	33628

TOTAL LOAD FOR YEAR: 1,504,368 TONS.

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UTAH--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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
FEB												
22...	1230	1190	.0	2490	8000	51	63	69	79	85	99	100
MAR												
14...	1230	450	4.5	598	727	45	59	76	87	92	100	--
APR												
04...	1045	403	5.5	334	363	43	52	73	85	88	99	100
15...	--	445	--	233	280	45	50	73	88	90	98	100
MAY												
07...	1500	1580	18.0	5540	23600	23	29	48	88	96	100	--
22...	1500	2100	17.5	3510	19900	33	38	50	89	99	100	--
JUN												
06...	1400	2480	14.5	1760	11800	20	25	31	57	85	99	100
30...	1430	1150	20.5	543	1690	13	19	22	32	63	97	100
AUG												
27...	1530	436	20.5	1960	2310	46	58	82	96	97	100	--

LOCATION.--Lat 39°58'24", long 109°07'40", in NW1/4SE1/4SW1/4, sec.5, T.10 S., R.25 E., Uintah County, Hydrologic Unit 14050007, on right bank 0.1 mi (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.

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, 280 ft^3/s (7.92 m^3/s) Aug. 25, gage height, 3.20 ft (0.975 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 1979 TO SEPTEMBER 1980
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	1.0	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.50	.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	2.0	.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	1.5	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	2.0	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.50	.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	.50	.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	10	.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	.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	4.00	.00	.00	.00	.00	1.50	12.50	.00
MEAN	.000	.000	.000	.000	.14	.000	.000	.000	.000	.048	.40	.000
MAX	.00	.00	.00	.00	2.0	.00	.00	.00	.00	1.0	10	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	7.9	.00	.00	.00	.00	3.0	25	.00

CAL YR 1979 TOTAL 27.27 MEAN .075 MAX 8.0 MIN .00 AC-FT 54
WTR YR 1980 TOTAL 18.00 MEAN .049 MAX 10 MIN .00 AC-FT 36

09306405 HELLS HOLE CANYON CREEK AT MOUTH, NEAR WATSON, UTAH--Continued

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 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)
AUG 15...	1200	2.0	1100	6.6	22.5	25.0	530	390	170	25	58

DATE	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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)
AUG 15...	19	1.1	13	140	480	6.5	.4	11	850	1.16	4.59

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS PO4)
AUG 15...	.28	.110	.34

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)
AUG 15...	1200	280	40

09306410 EVACUATION CREEK ABOVE MISSOURI CREEK, NEAR DRAGON, UTAH

LOCATION.--Lat 39°47'52", long 109°04'26", in SW1/4SW1/4SW1/4 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 mi^2 (259 km^2).

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.--Water-discharge records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--6 years, 2.77 ft^3/s (0.078 m^3/s), 964 acre-ft/yr (1.189 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 835 ft^3/s (23.6 m^3/s) Aug. 13, 1978, gage height 8.32 ft (2.536 m), from rating curve extended above 10 ft^3/s (0.28 m^3/s) on the basis of slope-area measurements of peak flow; minimum, 0.04 ft^3/s (0.001 m^3/s) Feb. 23, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 309 ft^3/s (8.75 m^3/s) July 2, gage height, 6.73 ft (2.051 m); minimum, 0.20 ft^3/s (0.006 m^3/s) Mar. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.32	.33	.26	.30	.37	.49	.74	5.4	8.5	1.9	.85	.69
2	.32	.35	.26	.30	.37	.45	.72	4.6	8.0	24	.77	.64
3	.32	.37	.26	.30	.38	.49	1.0	4.6	7.2	7.5	.71	.55
4	.32	.35	.28	.30	.40	.47	1.0	4.6	6.9	4.8	.69	.55
5	.32	.35	.28	.30	.40	.44	1.2	6.6	6.3	3.8	.69	.53
6	.32	.35	.26	.30	.40	.50	1.2	5.7	5.5	3.4	.63	.53
7	.32	.35	.26	.28	.45	.50	1.2	7.4	4.4	2.9	.67	.63
8	.32	.35	.26	.30	.40	.55	1.4	8.1	3.8	2.8	.67	.69
9	.32	.35	.24	.30	.39	.52	1.4	7.4	3.8	2.5	.66	.63
10	.34	.35	.24	.31	.39	.50	1.6	9.3	3.6	2.2	.63	1.5
11	.34	.35	.26	.30	.39	.50	1.6	39	3.2	2.0	.63	.99
12	.34	.35	.28	.30	.40	.50	1.9	42	2.8	1.9	.67	.83
13	.34	.35	.30	.30	.43	.50	2.0	39	2.9	1.9	.72	.82
14	.34	.33	.30	.30	.47	.50	2.0	37	2.8	1.8	.76	.80
15	.34	.31	.30	.30	2.4	.52	2.1	33	2.6	1.2	1.8	.79
16	.34	.35	.30	.32	2.0	.50	2.2	36	2.5	.95	1.2	.76
17	.34	.37	.31	.35	3.2	.49	2.3	45	2.4	.90	.90	.75
18	.35	.35	.30	.40	14	.47	2.6	26	2.3	.80	.75	.75
19	.34	.35	.29	.42	18	.50	2.9	40	2.1	.70	.70	.71
20	.66	.34	.29	.42	3.7	.50	3.2	30	2.4	.65	.80	.75
21	.66	.40	.29	.42	1.2	.52	3.5	23	2.0	.65	.70	.75
22	.55	.33	.29	.40	.69	.58	3.8	21	2.2	.60	.65	.78
23	.52	.32	.29	.36	.50	.60	4.1	19	2.0	.55	.75	.72
24	.50	.34	.29	.32	.47	.60	4.3	17	2.2	.70	4.2	.71
25	.47	.32	.29	.28	.46	.58	4.0	15	1.7	2.4	2.0	.72
26	.44	.30	.29	.36	.45	.66	3.8	14	1.8	1.3	1.3	.72
27	.40	.27	.28	.40	.45	.72	3.7	13	1.6	.79	.86	.70
28	.40	.30	.29	.40	.47	.74	3.5	12	1.6	.60	.73	.71
29	.40	.29	.30	.40	.52	.72	3.7	11	1.6	.59	.69	.71
30	.40	.27	.30	.40	---	.72	4.1	10	1.5	.75	.69	.69
31	.33	---	.30	.38	---	.80	---	9.0	---	1.4	.71	---
TOTAL	12.02	10.09	8.74	10.52	54.15	17.13	72.76	594.7	102.2	78.93	29.18	22.10
MEAN	.39	.34	.28	.34	1.87	.55	2.43	19.2	3.41	2.55	.94	.74
MAX	.66	.40	.31	.42	18	.80	4.3	45	8.5	24	4.2	1.5
MIN	.32	.27	.24	.28	.37	.44	.72	4.6	1.5	.55	.63	.53
AC-FT	24	20	17	21	107	34	144	1180	203	157	58	44

CAL YR 1979 TOTAL 411.17 MEAN 1.13 MAX 11 MIN .09 AC-FT 816
WTR YR 1980 TOTAL 1012.52 MEAN 2.77 MAX 45 MIN .24 AC-FT 2010

09306410 EVACUATION CREEK ABOVE MISSOURI CREEK, NEAR DRAGON, UTAH--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 (discontinued).

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily (more than 20 percent missing record), 4,900 micromhos Sept. 9, 1977; minimum recorded, 2,040 micromhos, Aug. 23, 1977.
WATER TEMPERATURES: Maximum recorded (more than 20 percent missing record), 34.0°C July 11, 1976; minimum, 0.0°C on many days during winter periods.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)
JUN												
02...	1430	9.5	1620	8.2	20.5	18.0	7.6	490	180	74	73	210
SEP												
20...	1820	.71	3350	8.3	--	16.0	--	830	400	100	140	650

DATE	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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)
JUN												
02...	48	4.1	--	2.8	310	600	7.9	.3	13	1170	1.59	30.0
SEP												
20...	85	9.8	650	3.9	430	1900	25	.6	12	3090	4.20	5.92

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS PO4)
JUN			
02...	.20	.010	.03

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)
JUN			
02...	1430	80	10
SEP			
20...	1820	170	30

09306430 EVACUATION CREEK NEAR WATSON, UTAH

LOCATION.--Lat 39°57'08", long 109°09'31", in NE1/4SW1/4NE1/4 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 current year.

GAGE.--Water-stage recorder and artificial control. Altitude of gage is 5,050 ft (1,539 m) from topographic map.

REMARKS.--Records fair.

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, 676 ft^3/s (19.1 m^3/s) Feb. 19, gage height, 4.99 ft (1.521 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, no flow on several days during Oct., Jan., and Feb.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	.03	.04	.11	.45	.60	.90	2.6	8.0	.60	.20	.50
2	.08	.03	.04	.07	.18	.60	1.2	5.1	7.0	2.3	.10	.40
3	.08	.04	.04	.03	.04	.50	.90	5.1	4.4	7.9	.10	.40
4	.07	.04	.04	.03	.07	.20	1.1	3.7	3.0	7.2	.10	.40
5	.07	.07	.04	.03	.01	.40	1.7	4.6	3.7	6.5	.10	.50
6	.06	.07	.04	.02	.04	.40	2.8	5.1	2.3	5.1	.10	.50
7	.06	.07	.03	.02	.02	.40	2.5	6.5	1.6	3.7	.10	.50
8	.05	.07	.03	.02	.02	.50	1.4	5.1	1.4	3.7	.10	1.2
9	.05	.07	.03	.02	.02	.50	1.6	5.1	1.4	2.9	.10	.70
10	.04	.07	.03	.01	.02	.50	1.7	8.6	1.4	2.7	.10	.60
11	.04	.07	.02	.03	.02	.50	1.7	10	1.1	2.4	.10	1.9
12	.07	.04	.02	.01	.02	.50	1.4	8.6	2.3	2.2	.10	2.1
13	.07	.04	.02	.01	.01	.50	1.2	16	1.7	2.0	.10	.90
14	.07	.04	.03	9.5	.00	.60	1.2	20	1.9	1.7	.10	.30
15	.04	.04	.02	27	.00	.60	1.4	25	1.7	1.4	.10	.30
16	.04	.04	.03	9.5	18	.60	1.6	22	1.4	1.1	.20	.20
17	.04	.04	.03	5.3	57	.50	1.7	20	1.4	.70	.10	.20
18	.04	.04	.04	2.5	196	.50	1.9	17	1.4	.60	.10	.20
19	.25	.04	.07	.07	258	.50	1.9	14	1.4	.60	.10	.20
20	2.2	.04	.04	.01	174	.50	1.7	13	1.2	.50	.20	.20
21	.04	.04	.04	.01	29	.60	1.9	19	1.1	.40	.20	.20
22	.00	.04	.07	.01	7.2	.60	2.3	18	1.1	.40	.10	.20
23	.00	.07	.07	.02	1.2	.60	2.5	17	1.1	.40	.10	.20
24	.00	.07	.04	.04	.80	.30	2.5	16	.90	1.0	1.2	.20
25	.04	.04	.04	.02	.80	.50	2.5	15	.90	1.2	5.1	.20
26	.01	.04	.04	.01	.70	.60	2.1	14	.90	1.6	33	.20
27	.01	.07	.07	.01	.70	.90	2.1	13	.70	1.0	31	.20
28	.02	.04	.07	.00	.60	1.4	1.7	12	.70	.10	2.5	.20
29	.02	.04	.18	.00	1.0	1.4	1.9	11	.70	.10	.90	.20
30	.02	.04	.11	.00	---	1.4	2.3	10	.70	.10	.60	.20
31	.02	---	.11	.04	---	1.0	---	9.0	---	.10	.40	---
TOTAL	3.68	1.48	1.52	54.45	745.92	19.20	53.30	371.1	58.50	62.20	77.40	14.20
MEAN	.12	.049	.049	1.76	25.7	.62	1.78	12.0	1.95	2.01	2.50	.47
MAX	2.2	.07	.18	27	258	1.4	2.8	25	8.0	7.9	33	2.1
MIN	.00	.03	.02	.00	.00	.20	.90	2.6	.70	.10	.10	.20
AC-FT	7.3	2.9	3.0	108	1480	38	106	736	116	123	154	28

CAL YR 1979 TOTAL 593.15 MEAN 1.63 MAX 59 MIN .00 AC-FT 1180
WTR YR 1980 TOTAL 1462.95 MEAN 4.00 MAX 258 MIN .00 AC-FT 2900

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 current year, daily.

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; 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.--
WATER TEMPERATURES: Maximum recorded, 30.0°C Aug. 14, 15; minimum, 0.0°C on many days during winter period.
SPECIFIC CONDUCTANCE: Maximum recorded (more than 20 percent missing record), 4,900 micromhos Jan. 30; minimum recorded, 190 micromhos Feb. 18.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (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)
JAN										
30...	1000	.12	4900	9.2	.0	--	1100	660	170	170
MAY										
13...	1245	16	2300	8.5	15.0	35	630	320	100	93
JUL										
28...	1030	E.60	3800	8.3	19.0	--	1000	750	170	140
SEP										
29...	1000	.22	4200	8.4	8.4	43	1000	630	170	150

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	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)
JAN										
30...	710	58	9.2	720	7.3	460	--	2200	48	1.5
MAY										
13...	330	53	5.7	--	5.7	310	--	1000	16	.4
JUL										
28...	600	56	8.3	--	7.9	250	--	1900	37	1.0
SEP										
29...	670	58	9.0	--	10	420	.0	2000	42	.9

DATE	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)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, AM-MONIA + ORGANIC ONE DET TOT (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)
JAN										
30...	--	12	3600	4.90	1.19	.54	--	--	--	--
MAY										
13...	--	7.2	1740	2.37	75.2	.86	.070	.09	12	--
JUL										
28...	--	7.5	3030	E4.12	E4.91	1.3	--	--	--	--
SEP										
29...	.2	10	3310	4.50	1.97	.63	.000	.00	--	.49

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, AM-MONIA + ORGANIC ONE DET TOT (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS PO4)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS PO4)
JAN									
30...	.54	--	--	--	--	--	--	.010	.03
MAY									
13...	.86	.070	.09	12	--	2.600	8.0	.010	.03
JUL									
28...	1.3	--	--	--	--	--	--	.000	.00
SEP									
29...	.63	.000	.00	--	.49	.050	.15	.000	.00

E Estimated values.

09306430 EVACUATION CREEK NEAR WATSON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
MAY							
13...	1245	10	2	--	0	0	6
SEP							
29...	1000	10	2	0	0	0	7

DATE	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)
MAY							
13...	2	--	.0	--	2	--	--
SEP							
29...	0	120	.0	39	3	3800	2.0

DATE	TIME	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
JAN				
30...	1000	1800	40	150
MAY				
13...	1245	450	20	10
JUL				
28...	1030	8600	40	80
SEP				
29...	1000	1600	70	230

DATE	TIME	CARBON, ORGANIC DISSOLVED (MG/L AS C)	PHENOLS (UG/L)
SEP			
29...	1000	18	3

09306430 EVACUATION CREEK NEAR WATSON, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	4180	3750	4040	4310	3530	4080	4130	4020	4080
2	---	---	---	4150	3820	4020	4240	3770	4030	4110	4040	4070
3	3780	3450	3610	---	---	---	3930	3640	3820	4150	4050	4110
4	3710	3430	3590	---	---	---	4280	3520	4040	4130	4050	4100
5	3590	3230	3480	---	---	---	4320	4040	4220	4150	4040	4100
6	3610	3240	3490	---	---	---	4320	4080	4220	4200	3950	4100
7	3630	3210	3490	---	---	---	4260	4130	4210	4140	3960	4080
8	3630	3150	3470	---	---	---	4240	4050	4180	4120	3970	4060
9	3670	3230	3520	---	---	---	4320	4020	4200	4070	3930	4010
10	3740	3180	3540	---	---	---	4330	4000	4180	4150	3030	3880
11	3750	3230	3540	---	---	---	4410	4080	4200	4330	3950	4140
12	3720	3260	3550	---	---	---	4490	4040	4320	4130	4020	4070
13	3800	3240	3580	---	---	---	4590	4090	4390	4180	3950	4060
14	3740	3330	3600	---	---	---	4580	4170	4380	4050	230	2440
15	3770	3240	3560	---	---	---	4550	4190	4350	1690	460	930
16	3770	3240	3560	---	---	---	4360	3980	4230	1980	1650	1790
17	3840	3220	3550	---	---	---	4360	3970	4210	2210	1820	2020
18	3720	3120	3470	---	---	---	4370	3970	4220	2510	2110	2360
19	4170	3030	3860	---	---	---	4390	3970	4220	2670	2510	2570
20	4180	2590	3640	4230	3960	4100	4290	4020	4180	2910	2620	2680
21	---	---	---	---	---	---	4230	4020	4120	---	---	---
22	---	---	---	4690	3650	4310	4130	4020	4160	---	---	---
23	---	---	---	4460	3890	4190	4200	4050	4140	---	---	---
24	---	---	---	4320	3930	4160	4180	4090	4140	---	---	---
25	---	---	---	4390	3720	4110	4180	4070	4140	---	---	---
26	---	---	---	4160	3990	4090	4200	4060	4150	3910	3610	3790
27	4170	3960	4030	4530	3670	4240	4220	4090	4160	3950	3650	3820
28	4180	3950	4040	4600	3760	4270	4220	4030	4120	---	---	---
29	4030	3220	3880	4660	4020	4360	4270	4040	4150	---	---	---
30	4050	4000	4040	4590	3970	4270	4190	4030	4120	---	---	---
31	4160	3820	4040	---	---	---	4160	4040	4110	4310	3870	4120
MONTH	4180	2590	3660	4690	3650	4180	4590	3520	4170	4330	230	3450

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4280	3910	4160	---	---	---	4070	3650	3830	3270	3070	3170
2	4310	3990	4150	---	---	---	4450	3700	4000	3370	3100	3210
3	4280	4030	4170	---	---	---	4100	3440	3890	3470	3330	3420
4	4400	3540	3920	---	---	---	4100	3790	3950	3650	3160	3530
5	4490	3990	4300	3980	3930	3950	4130	2820	3500	3600	3100	3320
6	4400	4160	4260	3960	3670	3920	3490	2500	3010	3240	2960	3150
7	4350	4160	4230	3960	3690	3920	3280	2990	3160	3170	2600	2990
8	4480	4020	4320	3970	3910	3940	3480	3020	3260	3030	2570	2850
9	4520	4020	4370	3980	3900	3950	3480	3310	3410	2720	1930	2440
10	4490	4060	4350	3980	3870	3940	3510	3320	3430	2400	2010	2170
11	4480	4000	4340	3980	3880	3940	3390	3300	3350	2660	2400	2540
12	4480	4040	4330	3990	3740	3940	3510	3120	3340	2570	1510	1760
13	4410	4070	4280	4000	3820	3930	3490	3130	3330	2360	1280	1930
14	---	---	---	4000	3640	3860	4550	3230	3820	2410	1710	2130
15	---	---	---	3950	3670	3880	4540	4270	4420	1780	1570	1690
16	4250	570	2000	3980	3660	3870	4410	4080	4280	1570	1240	1430
17	1140	340	650	4000	3760	3910	4400	4020	4220	1930	730	1080
18	680	190	475	3960	3710	3880	4230	3840	4000	1520	890	1220
19	670	270	450	4000	3730	3920	4070	3760	3940	1660	1510	1570
20	680	320	425	4000	3760	3890	3990	3660	3860	---	---	---
21	870	460	650	3950	3670	3830	4240	3250	3620	---	---	---
22	---	---	---	3850	3480	3680	3330	3180	3270	---	---	---
23	---	---	---	3720	3240	3530	3260	3120	3210	---	---	---
24	---	---	---	3660	3400	3550	3170	3080	3150	---	---	---
25	---	---	---	3720	3580	3670	3190	3060	3110	---	---	---
26	---	---	---	3790	3480	3660	3320	3190	3280	---	---	---
27	---	---	---	3730	2820	3420	3370	3310	3340	---	---	---
28	---	---	---	3990	3460	3730	3450	3370	3410	---	---	---
29	---	---	---	4420	3540	3850	3460	3380	3420	---	---	---
30	---	---	---	4170	3290	3740	3420	3030	3330	---	---	---
31	---	---	---	4020	3070	3680	---	---	---	---	---	---
MONTH	4520	190	3150	4420	2820	3810	4550	2500	3570	3650	730	2400

09306430 EVACUATION CREEK NEAR WATSON, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	3920	3610	3770	3880	3730	3800	4130	3720	4000
2	---	---	---	3830	1670	3480	3930	3610	3790	4080	3690	3830
3	---	---	---	1730	1170	1290	3850	3660	3780	3780	3670	3740
4	---	---	---	1380	1220	1300	3950	3630	3840	3900	3610	3730
5	---	---	---	1440	1270	1360	3950	3620	3790	3650	3360	3500
6	---	---	---	1490	1310	1400	3750	3250	3530	3370	3130	3290
7	---	---	---	1500	1400	1450	3390	2700	3080	3380	610	2700
8	---	---	---	1600	1450	1510	3730	2880	3400	960	710	840
9	---	---	---	1690	1530	1610	3850	3550	3720	1090	960	1030
10	---	---	---	1830	1640	1730	3760	3310	3560	1240	1090	1140
11	---	---	---	2010	1810	1880	3550	2870	3280	1330	1000	1090
12	---	---	---	2180	2010	2080	3660	3170	3410	4010	620	2870
13	3510	3380	3450	2360	2180	2250	3580	3010	3310	4160	3880	4010
14	3520	3280	3430	2450	2300	2380	---	---	---	4060	3690	3820
15	3370	3240	3310	2550	2390	2480	---	---	---	3690	3540	3610
16	3300	3180	3250	2600	2430	2530	---	---	---	3650	3560	3610
17	3240	3090	3180	3700	---	3210	---	---	---	4110	3550	3800
18	3700	3150	3450	3670	3520	3590	---	---	---	4160	4040	4100
19	3640	3510	3580	3610	3480	3550	---	---	---	4120	4040	4080
20	3620	3480	3540	3620	3310	3500	---	---	---	4160	3740	4010
21	3600	3460	3540	3580	3170	3460	---	---	---	4160	3610	4000
22	3580	3460	3520	3560	2630	3360	---	---	---	4200	4020	4140
23	3590	3490	3540	---	3050	3440	---	---	---	4190	3880	4070
24	3630	3510	3570	3690	2740	3170	---	---	---	4120	3680	3950
25	3650	3510	3580	3100	2620	2840	---	---	---	3990	3380	3750
26	3650	3540	3600	2970	2810	2870	---	---	---	3770	3200	3540
27	3660	3570	3620	2910	2770	2870	---	---	---	3640	3080	3570
28	3730	3570	3670	3830	2910	3380	---	---	---	3640	3270	3480
29	3760	3660	3710	3700	3480	3620	4480	4260	4320	4210	3510	3900
30	---	3700	3910	3800	3610	3720	4250	3980	4140	4230	4000	4150
31	---	---	---	3890	3620	3740	4130	3880	4040	---	---	---
MONTH	3760	3090	3530	3920	1170	2670	4480	2700	3670	4230	610	3380

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	11.0	.5	3.5	.5	.0	.0	1.0	.0	.5
2	24.0	12.0	17.0	13.0	.5	4.0	1.0	.0	.0	1.5	.0	.5
3	23.0	9.0	13.5	13.0	1.0	4.5	1.5	.0	.5	2.0	.5	2.0
4	24.0	6.0	13.0	13.0	1.5	4.5	2.0	.0	.5	2.0	.5	1.0
5	25.0	7.0	13.5	14.5	1.0	5.0	3.0	.5	1.5	2.0	.5	1.5
6	25.0	7.0	13.5	12.5	1.0	5.5	3.0	.0	1.0	2.5	.0	1.0
7	25.0	7.0	13.5	9.5	2.0	5.0	3.0	.5	1.5	2.5	.5	1.0
8	24.0	7.0	13.0	13.0	2.0	6.0	4.0	.5	1.5	3.0	.5	.0
9	23.0	7.0	12.0	12.0	2.5	5.5	3.5	.0	1.0	2.5	1.0	1.5
10	23.0	5.5	12.0	13.0	.5	4.0	3.0	.0	1.0	4.0	.0	1.5
11	22.0	6.0	12.0	8.5	1.0	4.5	3.5	.0	1.0	1.5	.0	.5
12	22.0	7.0	12.5	12.5	.5	3.5	1.0	.0	.0	1.5	.0	1.0
13	23.0	6.0	12.5	11.0	.0	3.0	1.0	.5	.5	3.0	.0	1.0
14	19.0	8.0	11.5	11.0	.0	2.5	1.0	.0	.5	2.0	.0	1.0
15	23.0	5.5	12.0	10.0	.0	2.0	1.0	.0	.5	.5	.0	.5
16	21.0	7.0	12.0	9.0	.0	2.0	1.0	.0	.5	2.5	.0	.5
17	19.0	5.0	11.0	6.0	.0	2.0	1.0	.0	.5	3.0	.0	1.0
18	22.0	7.0	12.5	9.5	.5	3.5	1.0	.0	.0	4.0	.0	1.5
19	19.5	9.5	12.5	4.0	.0	1.5	1.0	.0	.0	1.0	.0	.0
20	11.5	2.0	7.0	7.0	.5	2.5	1.0	.0	.0	2.0	.0	.5
21	12.0	3.0	7.0	7.0	.5	1.5	1.0	.0	.5	3.0	.0	1.0
22	---	---	---	2.5	.5	.5	1.5	.0	.5	6.0	.0	1.5
23	---	---	---	1.0	.5	.5	2.0	.0	.5	3.0	.0	1.0
24	---	---	---	1.0	.0	.5	2.0	.0	.5	4.0	.5	1.5
25	20.0	3.5	9.0	3.0	.0	1.0	2.0	.0	.5	6.0	.0	1.5
26	20.0	4.0	9.5	4.0	.0	1.0	1.0	.0	.0	5.5	.0	1.0
27	18.5	3.5	8.5	3.0	.0	.5	.5	.0	.0	1.0	.0	.5
28	16.5	2.5	7.5	1.0	.0	.5	1.5	.0	.5	---	---	---
29	8.5	3.5	6.0	.5	.0	.0	.0	.0	.0	---	---	---
30	13.0	1.5	4.5	.5	.0	.0	1.5	.0	.0	---	---	---
31	11.0	.5	3.5	---	---	---	1.0	.0	.0	.5	.0	.5
MONTH	25.0	.5	11.0	14.5	.0	2.5	4.0	.0	.5	6.0	.0	1.0

09306430 EVACUATION CREEK NEAR WATSON, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.5	.0	.5	14.0	2.5	6.0	15.0	3.0	7.5	20.0	10.0	13.5
2	1.0	.0	.5	14.0	3.5	6.0	9.0	2.0	5.5	23.0	8.5	14.5
3	2.0	.0	.5	10.5	5.0	6.5	14.5	2.5	8.0	24.0	9.0	15.0
4	4.0	.0	1.0	14.5	5.0	7.5	17.5	4.0	9.5	24.0	9.5	15.5
5	3.0	.0	1.0	11.5	4.5	7.0	15.5	5.5	9.0	24.0	10.0	15.5
6	3.0	.0	1.0	9.0	4.5	6.5	15.0	3.5	8.0	24.0	11.0	15.5
7	3.0	.5	1.5	12.0	3.0	7.5	12.5	2.0	6.0	20.0	11.0	14.0
8	1.5	.0	.5	15.0	4.5	8.0	15.5	2.5	8.5	21.0	11.0	14.5
9	1.0	.0	.5	15.5	4.0	7.5	17.5	3.0	9.0	17.5	10.0	13.0
10	1.0	.0	.5	16.0	4.5	8.0	16.0	5.0	9.0	19.0	9.0	13.0
11	1.0	.0	.5	14.0	4.5	7.5	9.5	3.0	5.5	15.0	8.5	11.5
12	1.0	.0	.5	14.0	4.0	7.5	14.0	2.5	7.0	14.5	6.0	9.5
13	1.0	.0	.5	15.5	4.0	8.0	16.5	3.0	9.0	19.0	6.0	12.0
14	---	---	---	16.5	5.0	8.5	18.0	4.0	10.0	19.0	6.5	12.0
15	---	---	---	11.0	6.0	7.5	19.0	5.0	10.5	20.0	8.0	12.5
16	1.5	.0	.5	13.0	3.5	6.5	19.0	3.5	10.5	22.0	10.0	12.5
17	1.0	.0	.5	15.0	3.0	6.5	20.5	3.5	11.0	18.0	8.5	9.5
18	1.5	.0	.0	16.0	3.5	8.0	21.5	4.5	12.0	25.0	9.0	11.5
19	3.0	.5	1.0	16.5	4.5	8.5	22.0	5.0	12.0	24.0	10.5	12.0
20	3.0	1.0	1.5	17.5	4.5	8.5	20.5	6.0	12.5	28.0	15.0	13.5
21	5.5	1.0	3.0	16.0	5.0	8.5	17.5	8.0	12.5	26.0	10.0	17.5
22	12.0	2.0	6.5	14.0	6.5	8.5	20.0	8.0	13.0	20.0	13.0	16.0
23	9.0	.5	3.5	17.0	6.0	9.5	19.0	8.5	12.5	18.5	12.5	15.0
24	13.0	1.0	4.5	15.0	6.0	9.0	16.0	8.5	11.5	16.0	9.5	12.5
25	12.0	1.5	4.5	9.0	4.5	7.0	20.0	4.5	11.5	14.0	7.5	10.0
26	13.5	2.5	6.0	18.0	4.0	8.5	21.0	5.0	12.0	19.5	4.0	11.5
27	14.5	3.0	6.5	15.5	4.0	7.5	22.0	6.0	13.0	18.0	7.0	12.5
28	14.0	3.0	7.0	8.0	3.0	5.0	22.0	8.0	14.0	19.5	8.0	13.5
29	10.0	3.5	6.0	15.0	3.0	7.0	20.0	9.5	13.0	20.5	10.0	14.5
30	---	---	---	8.0	1.5	3.0	17.0	9.5	12.0	20.0	10.0	14.5
31	---	---	---	14.0	2.0	6.0	---	---	---	20.0	8.5	14.0
MONTH	14.5	.0	2.0	18.0	1.5	7.5	22.0	2.0	10.0	28.0	4.0	13.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.0	10.0	14.0	24.5	13.5	16.5	29.0	13.5	18.5	24.5	10.0	15.5
2	18.0	9.0	13.0	26.0	14.0	17.5	29.0	13.0	19.0	25.5	10.5	16.0
3	19.5	9.0	14.0	26.0	15.5	20.5	27.0	12.5	17.5	25.5	11.0	16.5
4	19.0	9.5	14.0	23.0	15.0	19.0	27.0	11.5	17.0	25.5	10.5	18.0
5	18.0	10.0	14.0	21.0	15.0	18.5	28.5	12.0	17.5	26.5	11.0	16.5
6	17.0	11.0	14.0	21.0	15.0	18.0	27.5	12.5	18.0	27.5	13.0	18.0
7	17.0	11.5	14.0	19.0	16.5	17.5	29.5	12.5	18.5	20.0	13.0	16.0
8	17.0	12.0	14.5	20.5	16.0	18.0	29.0	12.5	18.5	19.5	14.0	16.0
9	17.5	12.5	15.0	21.5	15.5	18.5	29.5	13.5	19.0	17.0	14.5	16.0
10	17.0	12.5	15.0	21.0	16.5	19.0	29.0	12.5	18.0	18.0	15.5	16.5
11	16.5	12.5	14.5	21.0	17.0	19.0	29.0	11.0	17.5	20.0	11.5	15.5
12	21.0	11.5	15.0	19.5	18.0	19.0	27.5	11.5	17.0	25.0	12.0	17.0
13	20.5	10.0	14.0	19.0	18.0	19.5	30.0	13.0	18.0	24.0	11.5	16.0
14	21.0	10.0	14.0	20.5	16.5	18.5	30.0	14.0	19.5	25.5	10.0	15.5
15	21.5	10.0	14.5	20.0	16.5	18.0	25.5	15.0	18.0	27.0	10.0	15.5
16	21.5	10.0	14.5	20.5	17.0	17.5	26.5	12.0	18.0	25.0	12.0	16.0
17	22.5	10.5	15.0	27.5	15.0	20.0	28.0	12.5	18.0	26.5	10.5	16.0
18	22.0	11.0	15.5	26.5	12.5	17.5	25.5	12.5	17.5	23.5	10.0	15.0
19	23.0	12.0	15.5	26.0	13.5	17.5	20.5	12.0	15.0	22.0	12.0	15.0
20	23.0	11.5	15.5	27.0	12.0	17.5	26.0	10.5	16.5	24.5	10.0	15.0
21	22.0	11.5	15.5	27.5	12.0	17.5	29.0	10.5	17.0	23.0	9.0	14.0
22	23.0	11.0	15.5	27.5	12.0	17.5	27.0	10.0	16.0	23.0	8.0	13.0
23	21.0	11.0	15.0	28.0	13.0	17.5	25.5	14.0	17.5	23.0	7.5	13.0
24	22.5	11.0	15.5	28.5	13.0	18.0	25.5	15.0	19.5	22.0	8.0	13.0
25	22.5	11.0	15.5	28.5	12.5	18.5	20.5	14.0	16.5	23.5	7.5	13.0
26	23.0	11.5	15.5	27.5	12.5	18.5	20.5	13.5	17.0	24.0	7.5	13.0
27	23.0	11.5	15.5	28.0	12.0	18.0	24.0	14.0	18.5	24.5	8.5	14.0
28	24.0	10.5	15.5	28.5	12.0	18.0	23.0	12.0	17.0	24.5	8.5	14.0
29	24.0	11.5	16.0	28.0	12.0	17.5	23.0	13.0	16.5	25.0	8.5	14.0
30	23.5	13.0	16.5	29.0	13.0	18.5	23.0	12.0	15.5	25.5	7.5	14.0
31	---	---	---	28.0	13.0	18.5	23.0	11.0	15.0	---	---	---
MONTH	24.0	9.0	15.0	29.0	12.0	18.0	30.0	10.0	17.5	27.5	7.5	15.0

09306430 EVACUATION CREEK NEAR WATSON, UT--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

1980	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
TOTAL	0.88	0.00	0.00	0.00	0.09	9463.68	6898.80	2193.79	152.86	31.69	4584.76	32048.38
MAX	.72	.00	.00	.00	.01	3600	4900	320	62	9.0	4400	32000
MIN	.00	.00	.00	.00	.00	.01	.30	.10	.00	.00	.00	.00

WTR YR 1980 TOTAL 55,374.93 MAX 32,000 MIN .00

09306625 ASPHALT WASH NEAR MOUTH, NEAR WATSON, UTAH

LOCATION.--Lat 39°56'05", long 109°16'00" in NE1/4NE1/4SE1/4 sec.24, T.10 S., R.23 E., Uintah County, Hydrologic Unit 14050007, on right bank 1.3 mi (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).

WATER-DISCHARGE RECORDS

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.--Water-discharge record fair.

AVERAGE DISCHARGE.--6 years, 0.20 ft^3/s (0.0057 m^3/s), 145 acre-ft/yr (179,000 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 the basis of slope-area measurements of peak flow; no flow most of the time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,200 ft^3/s (90.6 m^3/s) Aug. 25, gage height, 9.21 ft (2.807 m), from rating curve extended above 2 ft^3/s (0.06 m^3/s) on the basis of slope-area measurements of peak flow; no flow most of time.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	18
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.0
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	5.0	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	83	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	58	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	25	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	5.0	.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	124	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	20	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.0	.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	.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	176.00	.00	.00	.00	.00	.00	146.00	20.00
MEAN	.000	.000	.000	.000	6.07	.000	.000	.000	.000	.000	4.71	.67
MAX	.00	.00	.00	.00	83	.00	.00	.00	.00	.00	124	18
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	349	.00	.00	.00	.00	.00	290	40

CAL YR 1979 TOTAL 67.83 MEAN .19 MAX 16 MIN .00 AC-FT 135
WTR YR 1980 TOTAL 342.00 MEAN .93 MAX 124 MIN .00 AC-FT 678

09306800 BITTER CREEK NEAR BONANZA, UTAH

LOCATION.--Lat 39°45'12", long 109°21'15", in SE1/4SW1/4SW1/4 sec.21, T.12 S., R.23 E., Uintah County, Hydrologic Unit 14050007, on left bank 150 ft (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 poor. Small reservoirs on tributaries above station.

AVERAGE DISCHARGE.--10 years, 1.39 ft^3/s (0.039 m^3/s), 1,010 acre-ft/yr (1.25 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)
Feb. 18 or 19	unknown	unknown			
Aug. 23	2245	*534	15.1	9.82	2.993
Aug. 26	2100	155	4.39	7.50	2.286

Minimum daily, 0.05 ft^3/s (0.001 m^3/s) Dec. 27, 28, Jan. 1-5, 9-14, 20-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	.19	.13	.05	.08	1.6	4.3	8.0	12	5.6	1.4	2.3
2	.09	.19	.13	.05	.09	1.5	4.7	7.3	13	6.6	1.4	2.2
3	.95	.19	.13	.05	.10	1.4	4.6	7.3	12	7.3	1.4	1.9
4	.10	.18	.11	.05	.11	1.2	4.9	7.3	12	6.8	1.2	1.8
5	.10	.17	.10	.05	.12	1.2	5.6	7.5	11	5.3	1.0	1.8
6	.11	.16	.10	.06	.13	1.5	6.1	7.8	11	4.6	.97	1.7
7	.12	.15	.09	.07	.15	1.9	6.1	8.2	10	4.3	.82	1.9
8	.13	.15	.09	.06	.17	1.7	5.9	8.4	10	4.4	.75	2.8
9	.13	.16	.09	.05	.19	1.7	6.1	8.2	10	4.3	.68	3.0
10	.14	.16	.09	.05	.20	1.7	6.4	8.2	9.6	4.2	.63	3.9
11	.14	.19	.08	.05	.20	2.0	6.4	8.4	9.1	3.9	.63	4.0
12	.14	.19	.08	.05	.19	2.1	6.4	8.9	8.5	3.8	.63	3.4
13	.14	.17	.08	.05	.20	2.0	6.4	8.9	8.4	3.5	.68	3.0
14	.14	.16	.08	.05	.23	2.0	6.4	9.3	7.3	4.3	.97	2.7
15	.14	.15	.08	.07	.25	2.2	6.4	9.1	7.1	3.8	1.9	2.6
16	.14	.15	.07	.10	.30	2.2	6.2	9.3	8.0	3.1	2.1	2.5
17	.17	.17	.07	.08	.33	2.4	6.4	11	8.2	2.8	1.8	2.4
18	.17	.17	.07	.07	5.0	2.4	6.4	9.8	7.8	2.6	1.7	2.3
19	.17	.15	.07	.06	20	2.4	6.4	9.6	7.6	2.4	1.4	2.3
20	.17	.14	.09	.05	14	2.4	6.4	9.4	7.6	2.0	1.4	2.2
21	.21	.14	.11	.05	10	2.6	6.4	9.4	7.5	1.7	1.4	2.3
22	.17	.14	.10	.05	2.5	2.8	6.6	9.8	6.4	1.7	1.4	2.3
23	.17	.14	.09	.05	2.0	3.0	7.0	10	6.1	1.6	13	2.6
24	.17	.14	.07	.05	1.8	2.9	7.1	11	5.8	1.6	16	2.6
25	.17	.16	.06	.05	1.6	3.2	7.0	11	5.2	1.7	4.6	2.6
26	.17	.16	.06	.05	1.5	3.6	7.0	11	5.0	1.7	11	2.8
27	.17	.14	.05	.06	1.6	3.5	6.8	12	4.6	1.7	7.2	2.7
28	.17	.13	.05	.06	1.6	3.9	6.8	12	4.4	1.5	2.9	2.7
29	.17	.13	.06	.07	1.6	3.8	7.3	12	4.4	1.4	2.3	2.7
30	.17	.13	.06	.07	---	4.3	7.5	12	4.6	1.4	2.1	2.7
31	.18	---	.06	.07	---	5.0	---	12	---	1.4	2.1	---
TOTAL	5.40	4.75	2.60	1.80	66.24	76.1	188.0	294.1	244.2	103.0	87.46	76.7
MEAN	.17	.16	.084	.058	2.28	2.45	6.27	9.49	8.14	3.32	2.82	2.56
MAX	.95	.19	.13	.10	20	5.0	7.5	12	13	7.3	16	4.0
MIN	.09	.13	.05	.05	.08	1.2	4.3	7.3	4.4	1.4	.63	1.7
AC-FT	11	9.4	5.2	3.6	131	151	373	583	484	204	173	152

CAL YR 1979 TOTAL 176.70 MEAN .48 MAX 4.0 MIN .00 AC-FT 350
WTR YR 1980 TOTAL 1150.35 MEAN 3.14 MAX 20 MIN .05 AC-FT 2280

09306800 BITTER CREEK NEAR BONANZA, UTAH--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 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT												
10...	1300	.14	8000	8.0	18.0	6.0	--	3600	3100	210	750	1100
JAN												
28...	1530	.06	9500	7.7	-4.5	.0	8.1	4700	4000	470	850	1200
APR												
24...	1700	6.8	6500	8.0	14.5	12.0	9.1	2900	2500	370	490	670
JUL												
18...	1730	2.7	5200	8.0	35.5	22.5	9.0	2200	1700	280	360	530

DATE	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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...	82	8.0	1100	13	510	5100	90	1.3	8.1	7590	10.3	2.87
JAN												
28...	36	7.6	2600	10	640	6400	120	1.4	20	9460	12.9	1.53
APR												
24...	33	5.4	--	12	470	3700	65	.6	9.3	5600	7.62	103
JUL												
18...	35	4.9	--	7.5	530	2800	56	.8	10	4360	5.93	31.8

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS PO4)
OCT			
10...	.82	.010	.03
JAN			
28...	.91	.000	.00
APR			
24...	.77	.010	.03
JUL			
18...	.00	.000	.00

DATE	TIME	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT					
10...	1300	--	3100	50	20
JAN					
28...	1530	--	3700	70	70
APR					
24...	1700	8	1600	50	120
JUL					
18...	1730	--	1200	40	20

09306850 BITTER CREEK AT MOUTH, NEAR BONANZA, UTAH

LOCATION.--Lat 39°57'56", long 109°24'59", in NE1/4SE1/4NE1/4 sec.10, T.10 S., R.22 E., Uintah County, Hydrologic Unit 14050007, on left bank 0.6 mi (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.--Water-discharge records good.

AVERAGE DISCHARGE.--6 years, 0.94 ft^3/s (0.0266 m^3/s) 681 acre-ft/yr (840,000 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 the 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, 188 ft^3/s (5.32 m^3/s) Feb. 19, gage height, 3.26 ft (0.994 m), same as above; minimum daily, 0.40 ft^3/s (0.011 m^3/s) during several days in Oct.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.45	.53	.53	.53	.53	.57	.53	.53	4.3	2.2	.55	.73
2	.44	.53	.53	.53	.53	.51	.53	.53	4.6	4.3	.55	.67
3	.40	.53	.52	.53	.53	.55	.53	.51	5.0	5.4	.54	.60
4	.40	.53	.53	.53	.53	.54	.53	.51	4.6	5.5	.52	.53
5	.40	.53	.53	.53	.53	.51	.53	.52	4.6	6.1	.52	.53
6	.40	.53	.53	.53	.53	.60	.53	.52	4.3	4.1	.51	.53
7	.40	.53	.53	.53	.53	1.1	.54	.53	4.3	2.5	.50	.60
8	.42	.53	.53	.53	.53	.69	.54	.52	4.0	1.8	.50	7.0
9	.41	.53	.53	.53	.53	.61	.53	.51	4.0	1.8	.50	2.6
10	.42	.53	.53	.53	.53	.60	.53	.53	4.0	1.7	.50	14
11	.44	.53	.53	.53	.53	.60	.53	.53	4.0	1.3	.50	6.0
12	.46	.53	.53	.53	.53	.59	.53	.52	4.0	1.3	.51	4.2
13	.46	.53	.53	.53	.53	.57	.53	.51	4.0	1.5	.52	3.3
14	.46	.53	.53	.53	.53	.57	.53	.53	4.0	1.4	.56	3.1
15	.45	.53	.53	.57	.53	.59	.53	.51	3.3	1.7	.59	2.3
16	.46	.53	.53	.60	.53	.54	.53	.52	2.3	1.6	.56	2.0
17	.46	.53	.53	.54	.53	.59	.60	.49	3.5	1.1	.56	2.0
18	.46	.53	.53	.53	.55	.59	.53	.49	3.8	.87	.54	1.7
19	.46	.53	.53	.53	58	.60	.53	.49	3.9	.79	.54	1.5
20	.77	.53	.55	.53	68	.60	.53	.49	3.9	.69	.55	1.5
21	.51	.53	.59	.53	26	.60	.53	.48	3.8	.59	.55	1.3
22	.51	.53	.57	.53	3.0	.60	.60	.53	3.7	.60	.55	1.5
23	.53	.53	.53	.53	.78	.60	.60	.53	3.3	.53	.55	1.6
24	.53	.53	.53	.53	.57	.60	.53	.60	2.8	.60	23	1.9
25	.53	.53	.53	.53	.55	.60	.53	1.6	2.2	.53	9.7	2.0
26	.53	.53	.53	.53	.60	.60	.53	2.2	1.5	.53	7.2	2.0
27	.53	.53	.53	.53	.60	.60	.53	2.7	1.4	.53	14	2.0
28	.53	.49	.53	.53	.60	.60	.53	3.0	1.2	.55	5.3	2.0
29	.53	.51	.53	.53	.60	.58	.52	3.3	1.0	.55	1.9	1.7
30	.49	.53	.53	.53	---	.59	.53	3.6	1.2	.55	1.0	1.7
31	.53	---	.53	.53	---	.60	---	4.0	---	.55	.83	---
TOTAL	14.77	15.84	16.54	16.55	168.86	18.69	16.12	32.83	102.5	53.76	75.20	73.09
MEAN	.48	.53	.53	.53	5.82	.60	.54	1.06	3.42	1.73	2.43	2.44
MAX	.77	.53	.59	.60	68	1.1	.60	4.0	5.0	6.1	23	14
MIN	.40	.49	.52	.53	.53	.51	.52	.48	1.0	.53	.50	.53
AC-FT	29	31	33	33	335	37	32	65	203	107	149	145

CAL YR 1979 TOTAL 271.96 MEAN .75 MAX 18 MIN .38 AC-FT 539
WTR YR 1980 TOTAL 604.75 MEAN 1.65 MAX 68 MIN .40 AC-FT 1200

09306850 BITTER CREEK AT MOUTH, NEAR BONANZA, UTAH—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 (discontinued).
WATER TEMPERATURES: April to September 1977.
SEDIMENT DATA: October 1976 to August 1978, monthly.

EXTREMES FOR PERIOD OF RECORD.—
SPECIFIC CONDUCTANCE: Maximum recorded (more than 20 percent missing record), 19,000 micromhos Aug. 17, 1977; minimum recorded, 2,150 micromhos July 24, 1977.
WATER TEMPERATURES: Maximum recorded (more than 20 percent missing record), 31.5°C June 25-26, July 26, 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT												
02...	1400	.40	16200	8.0	27.5	16.0	14.8	3000	2400	270	560	3600
JAN												
28...	1330	.53	16000	8.1	-2.0	6.0	14.0	3200	2500	280	600	3500
APR												
24...	1630	.53	15000	7.9	18.0	16.0	12.6	3100	2400	280	590	3200
JUL												
18...	1400	4.3	11200	8.2	34.5	24.0	15.0	2800	2700	250	540	2300
SEP												
25...	1300	2.2	8880	8.1	23.5	14.5	9.9	--	--	--	--	--

DATE	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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...	72	29	3600	14	610	9100	280	.8	8.7	14200	19.3	15.3
JAN												
28...	71	27	3500	9.0	670	9400	280	.7	12	14500	19.7	20.8
APR												
24...	69	25	--	14	--	--	--	--	8.9	--	7.33	--
JUL												
18...	64	19	--	11	160	7000	170	.9	6.4	10400	14.1	121
SEP												
25...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS PO4)
OCT			
02...	3.6	.010	.03
JAN			
28...	3.7	.000	.00
APR			
24...	2.9	.010	.03
JUL			
18...	1.3	.000	.00

DATE	TIME	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT											
02...	1400	--	12000	--	--	70	--	50	--	--	--
JAN											
28...	1330	--	12000	--	--	80	--	70	--	--	--
APR											
24...	1630	--	12000	--	--	60	--	130	--	--	--
JUL											
18...	1400	--	12000	--	--	80	--	30	--	--	--
SEP											
25...	1300	7	--	0	5	--	1	--	.0	2	50

09306870 SAND WASH NEAR OURAY, UTAH

LOCATION.--Lat 39°55'51", long 109°29'45", in NE1/4NW1/4SE1/4 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 current year.

GAGE.--Water-stage recorder and artificial control. Altitude of gage is 5,140 ft (1,567 m) from topographic map.

REMARKS.--1979: Water-discharge records fair. 1980: Water-discharge records good.

AVERAGE DISCHARGE.--6 years, 0.040 ft^3/s (0.001 m^3/s), 0.72 acre-ft/yr (888 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.--Water year 1979: Maximum discharge, 43 ft^3/s (1.22 m^3/s) Aug. 7, gage height, 2.54 ft (0.774 m); no flow most of year.
Water year 1980: Maximum discharge, 162 ft^3/s (4.59 m^3/s) Sept. 10, gage height, 3.24 ft (0.988 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.32	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.35	.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	.90	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	1.2	.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	.24	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.72	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.97	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.45	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.57	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	1.2	.00	.00	.00	.00	.00	.00
21	.50	.00	.00	.00	.00	1.1	.00	.00	.00	.00	.00	.00
22	1.0	.00	.00	.00	.00	1.9	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.19	.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	3.7	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	5.4	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.67	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	1.9	---	.00	---	.00	.00	---
TOTAL	1.50	.00	.00	.00	.00	19.01	2.42	.00	.00	.00	.35	.00
MEAN	.048	.000	.000	.000	.000	.61	.081	.000	.000	.000	.011	.000
MAX	1.0	.00	.00	.00	.00	5.4	1.2	.00	.00	.00	.35	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	3.0	.00	.00	.00	.00	38	4.8	.00	.00	.00	.7	.00

CAL YR 1978 TOTAL 3.56 MEAN .010 MAX 1.0 MIN .00 AC-FT 7.1
WTR YR 1979 TOTAL 23.28 MEAN .064 MAX 5.4 MIN .00 AC-FT 46

09306870 SAND WASH NEAR OURAY, UT--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.13	.00	.00	.00	.00	.00	4.1
8	.00	.00	.00	.00	.00	.27	.00	.00	.00	.00	.00	.43
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	7.0
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	.47	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.20	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.35	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	13	.00	.00	.00	.00	.00	.00	.00
20	.10	.00	.00	.00	20	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	2.6	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.98	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.30	.00	.00	.00	.00	.00	.08	.00
24	.00	.00	.00	.00	.07	.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	.14	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.04	.00	.00	.00	.00	.00	.00	.00
29	.00	.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	.10	.00	.00	.67	37.48	.40	.00	.00	.00	.00	.08	11.53
MEAN	.003	.000	.000	.022	1.29	.013	.000	.000	.000	.000	.003	.38
MAX	.10	.00	.00	.47	20	.27	.00	.00	.00	.00	.08	7.0
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.2	.00	.00	1.3	74	.8	.00	.00	.00	.00	.2	23

CAL YR 1979 TOTAL 21.88 MEAN .060 MAX 5.4 MIN .00 AC-FT 43
WTR YR 1980 TOTAL 50.26 MEAN .14 MAX 20 MIN .00 AC-FT 100

09306870 SAND WASH NEAR OURAY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1976 to current year. Prior to 1979 water year, published in "Climatologic and Hydrologic Data" reports for Utah.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)
MAR												
08...	1430	.98	570	8.1	7.0	15.0	8.8	37	0	12	1.8	99

DATE	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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)
MAR												
08...	83	7.0	100	5.4	110	84	35	.7	8.4	317	.43	.84

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS PO4)
MAR			
08...	.69	.230	.71

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR				
08...	1430	530	1300	20

09306872 SAND WASH NEAR MOUTH, NEAR OURAY, UTAH

LOCATION.--Lat 39°59'27", long 109°29'10", in NE1/4NW1/4SW1/4 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.--1979: Water-discharge record fair. 1980: Water-discharge records good.

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.--Water year 1979: Maximum discharge, 267 ft^3/s (7.56 m^3/s) Aug. 19, gage height, 3.10 ft (0.945 m); no flow most of year.
Water year 1980: Maximum discharge, 247 ft^3/s (7.00 m^3/s) Feb. 20, gage height, 3.13 ft (0.954 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	10	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	5.0	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	2.0	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.50	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.10	.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	.50	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	1.0	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	1.0	26	.26	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	1.0	28	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	2.0	6.5	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	2.0	.43	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	2.0	.12	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	3.3	.05	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	14	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	15	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	13	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	10	.00	.00	.00	.00	16	.00
20	.00	.00	.00	.00	.00	17	.00	.00	.00	.00	8.6	.00
21	2.0	.00	.00	.00	.00	28	.00	.00	.00	.00	.00	.00
22	10	.00	.00	.00	.00	41	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	13	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	7.5	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	5.9	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	4.9	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	3.9	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	51	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	86	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	10	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	38	---	.00	---	.00	.00	---
TOTAL	12.00	.00	.00	.00	.00	371.00	78.71	.26	.00	.00	24.60	.00
MEAN	.39	.000	.000	.000	.000	12.0	2.62	.008	.000	.000	.79	.000
MAX	10	.00	.00	.00	.00	86	28	.26	.00	.00	16	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	24	.00	.00	.00	.00	736	156	.5	.00	.00	49	.00

CAL YR 1978 TOTAL 53.02 MEAN .15 MAX 10 MIN .00 AC-FT 105
WTR YR 1979 TOTAL 486.57 MEAN 1.33 MAX 86 MIN .00 AC-FT 965

09306872 SAND WASH NEAR MOUTH, NEAR OURAY, UT--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.05	.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	.05	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	5.8	.00	.00	.00	.00	.00	3.8
8	.00	.00	.00	.00	.00	1.6	.00	.00	.00	.00	.00	.44
9	.00	.00	.00	.00	.00	.19	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	21
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
12	.00	.00	.00	.00	.00	.06	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	1.3	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	2.9	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.78	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.26	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.16	8.8	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	54	.00	.00	.00	.00	.00	.00	.00
20	6.6	.00	.00	.00	85	.00	.00	.00	.00	.00	.00	.00
21	.02	.00	.00	.00	18	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	8.5	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	3.2	.00	.00	.00	.00	.00	.67	.00
24	.00	.00	.00	.00	.23	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.06	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.22	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.59	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.52	.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	6.62	.00	.00	5.40	179.19	7.87	.00	.00	.00	.00	.67	25.26
MEAN	.21	.000	.000	.17	6.18	.25	.000	.000	.000	.000	.022	.84
MAX	6.6	.00	.00	2.9	85	5.8	.00	.00	.00	.00	.67	21
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	13	.00	.00	11	355	16	.00	.00	.00	.00	1.3	50

CAL YR 1979 TOTAL 481.19 MEAN 1.32 MAX 86 MIN .00 AC-FT 954
WTR YR 1980 TOTAL 225.01 MEAN .61 MAX 85 MIN .00 AC-FT 446

09306872 SAND WASH NEAR MOUTH, NEAR OURAY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1980.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980.

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)
MAR												
08...	1400	8.4	840	8.2	6.5	11.0	8.6	45	0	15	1.9	160

DATE	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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)
MAR												
08...	88	10	160	2.1	130	100	110	.6	7.8	484	.66	11.0

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS PO4)
MAR			
08...	1.8	.210	.64

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR				
08...	1400	610	120	10

09306878 COYOTE WASH NEAR MOUTH, NEAR OURAY, UTAH

LOCATION.--Lat 40°03'15", long 109°28'36", in SW1/4NE1/4NE1/4 sec.7, T.9 S., R.22 E., Uintah County, Hydrologic Unit 14050007, on right bank 0.1 mi (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 fair.

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, 829 ft^3/s (23.5 m^3/s) Feb. 20, gage height, 5.65 ft (1.722 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	7.8	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	2.3	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.48	.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	57	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	12	.00	.00	.00	.00	.00	5.6
9	.00	.00	.00	.00	.00	.98	.00	.00	.00	.00	.00	.85
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	166
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	50
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.91
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	5.0	.00	.00	.00	.00	.00	.00	.76	.00
16	.00	.00	.00	25	.00	.00	.00	.00	.00	.00	.67	.00
17	.00	.00	.00	25	1.0	.00	.00	.78	.00	.00	.00	.00
18	.00	.00	.00	12	20	.00	.00	.48	.00	.00	.00	.00
19	.00	.00	.00	3.8	377	.00	.00	.04	.00	.00	.00	.00
20	86	.00	.00	.37	548	.00	.00	.00	.00	.00	.00	.00
21	52	.00	.00	.00	196	.00	.00	.00	.00	.00	.00	.00
22	.33	.00	.00	.00	121	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	58	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	26	.00	.00	.00	.00	.00	3.1	.00
25	.00	.00	.00	.00	12	.00	.00	.00	.00	.00	17	.00
26	.00	.00	.00	.00	9.1	.00	.00	.00	.00	.00	4.7	.00
27	.00	.00	.00	.00	14	.00	.00	.00	.00	.00	.21	.00
28	.00	.00	.00	.00	13	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	20	.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	138.33	.00	.00	71.17	1415.10	80.56	.00	1.30	.00	.00	26.44	223.36
MEAN	4.46	.000	.000	2.30	48.8	2.60	.000	.042	.000	.000	.85	7.45
MAX	86	.00	.00	25	548	57	.00	.78	.00	.00	17	166
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	274	.00	.00	141	2810	160	.00	2.6	.00	.00	52	443

CAL YR 1979 TOTAL 2740.55 MEAN 7.51 MAX 477 MIN .00 AC-FT 5440
WTR YR 1980 TOTAL 1956.26 MEAN 5.34 MAX 548 MIN .00 AC-FT 3880

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 September 1980, 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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
FEB												
19...	1700	334	330	--	--	.0	24	0	7.0	1.6	69	85
AUG												
15...	1500	7.3	480	7.8	30.0	27.0	13	0	4.0	.7	77	92

DATE	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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)
FEB											
19...	6.1	77	1.7	94	25	4.6	.1	4.4	173	.24	156
AUG											
15...	9.3	--	1.4	160	25	6.2	.5	5.1	220	.30	4.34

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS PO4)
FEB			
19...	.51	.100	.31
AUG			
15...	.67	.060	.18

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
FEB				
19...	1700	100	660	10
AUG				
15...	1500	290	320	10

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

1980	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
TOTAL	9886.20	0.00	0.00	1976.50	228,846.90	2186.00	0.00	18.05	0.00	0.00	4778.50	23,222.00
MAX	6570	.00	.00	894	107,900	1310	.00	11	.00	.00	3290	18,470
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

WTR YR 1980 TOTAL 270,914.15 MAX 107,900 MIN .00

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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
JAN											
17...	1300	12	.0	5180	168	76	80	88	96	98	100
MAR											
08...	1300	7.0	8.0	7740	146	91	95	98	98	99	100
SEP											
10...	1540	347	17.5	51700	48400	46	61	86	96	99	100
11...	1700	7.9	20.0	18700	399	88	96	99	99	100	--

09306880 NORTH WASH NEAR OURAY, UTAH

LOCATION.--Lat 40°02'48", long 109°31'23", in NW1/4SE1/4SW1/4 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 1980.

GAGE.--Water-stage recorder and artificial control. Altitude of gage is 4,730 ft (1,442 m), from topographic map.

REMARKS.--Water-discharge records fair.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 136 ft^3/s (3.85 m^3/s) Feb. 20, gage height, 2.31 ft (0.704 m), from rating curve extended above 1.0 ft^3/s (0.028 m^3/s) on the basis of theoretical computations; no flow most of time.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.15	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	3.8	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	2.4	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.40	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	6.9
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	2.7	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	2.7	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	1.8	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	2.0	3.4	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.94	26	.00	.00	.00	.00	.00	.00	.00
20	12	.00	.00	.00	33	.00	.00	.00	.00	.00	.00	.00
21	.24	.00	.00	.00	10	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	7.6	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	2.8	.00	.00	.00	.00	.00	.49	.00
24	.00	.00	.00	.00	.42	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.58	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.22	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.36	.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	12.24	.00	.00	10.14	84.48	6.84	.00	.00	.00	.00	.49	6.90
MEAN	.39	.000	.000	.33	2.91	.22	.000	.000	.000	.000	.016	.23
MAX	12	.00	.00	2.7	33	3.8	.00	.00	.00	.00	.49	6.9
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	24	.00	.00	20	168	14	.00	.00	.00	.00	1.0	14

WTR YR 1980 TOTAL 121.09 MEAN .33 MAX 33 MIN .00 AC-FT 240

09306885 COTTONWOOD WASH AT MOUTH, NEAR OURAY, UTAH

LOCATION.--Lat 40°03'22", long 109°36'30", in NW1/4NE1/4NE1/4 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.--1979: Water-discharge records poor. 1980: Water-discharge records fair.

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.--Water year 1979: Maximum discharge recorded, 780 ft^3/s (22.1 m^3/s) Mar. 29, gage height, 3.56 ft (1.085 m); no flow most of year.
Water year 1980: Maximum discharge, 840 ft^3/s (23.8 m^3/s) Feb. 20, gage height, 3.28 ft (1.000 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	50	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	15	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	5.0	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.50	.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	150	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	50	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	10	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	2.0	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.50	.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	75	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.0	.00
18	.00	.00	.00	.00	.00	50	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	118	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	130	.00	.00	.00	.00	.00	.00
21	2.0	.00	.00	.00	.00	187	.00	.00	.00	.00	.00	.00
22	20	.00	.00	.00	.00	240	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	74	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	28	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	9.8	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	1.9	.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	71	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	282	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	75	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	150	---	.00	---	.00	.00	---
TOTAL	22.00	.00	.00	.00	.00	1416.70	283.00	.00	.00	.00	80.00	.00
MEAN	.71	.000	.000	.000	.000	45.7	9.43	.000	.000	.000	2.58	.000
MAX	20	.00	.00	.00	.00	282	150	.00	.00	.00	75	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	44	.00	.00	.00	.00	2810	561	.00	.00	.00	159	.00

CAL YR 1978 TOTAL 47.50 MEAN .13 MAX 20 MIN .00 AC-FT 94
WTR YR 1979 TOTAL 1801.70 MEAN 4.94 MAX 282 MIN .00 AC-FT 3570

09306885 COTTONWOOD WASH AT MOUTH, NEAR OURAY, UT--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.12	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	3.7	.00	7.4	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	23	.00	1.8	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	20	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	5.2	.00	.00	.00	.00	.00	8.9
11	.00	.00	.00	.00	.00	.04	.00	.00	.00	.00	.00	.04
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	13	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	4.6	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.22	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	2.3	7.3	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	173	.00	.00	.00	.00	.00	.00	.00
20	24	.00	.00	.00	180	.00	.00	.00	.00	.00	.00	.00
21	.09	.00	.00	.00	70	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	60	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	30	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	9.2	.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	.24	.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	24.09	.00	.00	20.12	529.74	52.06	.00	9.20	.00	.00	.00	8.94
MEAN	.78	.000	.000	.65	18.3	1.68	.000	.30	.000	.000	.000	.30
MAX	24	.00	.00	13	180	23	.00	7.4	.00	.00	.00	8.9
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	48	.00	.00	40	1050	103	.00	18	.00	.00	.00	18

CAL YR 1979 TOTAL 1803.79 MEAN 4.94 MAX 282 MIN .00 AC-FT 3580
WTR YR 1980 TOTAL 644.15 MEAN 1.76 MAX 180 MIN .00 AC-FT 1280

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 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)
MAR												
08...	1530	5.3	520	8.1	8.0	14.5	8.4	29	0	10	.9	99
SEP												
10...	2000	.01	--	8.6	15.5	18.0	--	6	0	1.7	.5	41

DATE	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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)
MAR												
08...	87	8.0	100	2.7	130	53	34	.6	9.0	293	.40	4.19
SEP												
10...	92	7.1	--	1.0	74	13	5.7	.6	15	124	.17	.00

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS PO4)
MAR			
08...	1.0	.200	.61
SEP			
10...	.00	.000	.00

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
MAR				
08...	1530	460	1100	10
SEP				
10...	2000	250	420	--

09306900 WHITE RIVER AT MOUTH NEAR OURAY, UTAH

LOCATION.--Lat 40°03'54", long 109°38'06", in SE1/4SE1/4NW1/4 sec.2, T.9 S., R.20 E., Uintah County, Hydrologic Unit 14050007, Uintah and Ouray Indian Reservation, on left bank 2.8 mi (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.--Water-discharge records fair. Diversions for irrigation of about 33,200 acres (134 km^2) above station.

AVERAGE DISCHARGE.--6 years, 662 ft^3/s (18.7 m^3/s) 479,600 acre-ft/yr (591 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, 2,840 ft^3/s (80.4 m^3/s) May. 25, gage height, 6.93 ft (2.112 m); minimum, 175 ft^3/s (4.96 m^3/s) Nov. 18, but may have been less during periods of ice effect.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	264	507	230	370	330	880	448	1160	2180	1160	267	367
2	267	485	190	350	340	960	445	1210	2220	1140	282	357
3	258	437	220	350	370	850	446	1170	2140	1350	285	367
4	267	437	280	340	390	800	457	1120	2140	1630	271	365
5	284	473	400	340	420	650	447	1160	2140	1310	270	346
6	292	469	430	330	410	740	443	1210	2210	1090	255	355
7	303	471	440	360	390	780	463	1300	2310	954	252	352
8	330	457	440	370	380	770	504	1550	2390	852	243	428
9	348	446	430	370	380	780	491	1610	2430	803	240	354
10	322	454	390	380	390	780	427	1720	2480	729	236	516
11	314	445	360	380	410	650	413	1830	2460	646	255	712
12	322	444	360	330	470	580	486	1840	2540	614	291	577
13	322	439	360	380	540	560	459	1990	2630	608	281	457
14	330	428	360	390	620	560	421	1960	2680	548	260	409
15	353	403	360	380	720	610	406	1740	2580	547	244	414
16	371	390	360	370	1000	660	415	1610	2410	606	251	383
17	394	385	360	360	1200	620	468	1620	2250	531	348	372
18	366	386	370	360	1500	502	528	1820	2120	459	400	384
19	371	415	380	360	1900	412	544	1740	2000	437	384	388
20	565	412	380	360	2400	394	582	1620	1960	434	401	374
21	590	441	380	350	2600	465	666	1760	1930	388	368	368
22	505	379	380	350	2500	478	757	1960	1830	376	359	369
23	575	349	370	350	2270	519	851	2220	1870	355	324	399
24	580	295	370	340	1910	600	969	2520	1790	322	283	394
25	540	212	360	340	1560	539	960	2680	1670	293	433	403
26	525	255	360	340	1200	527	948	2660	1600	301	1040	381
27	520	434	340	340	900	550	921	2440	1550	339	667	367
28	520	376	330	330	800	519	950	2360	1450	319	545	366
29	520	330	380	330	840	481	956	2340	1360	296	441	363
30	520	280	390	330	---	457	1040	2360	1240	282	417	371
31	515	---	370	330	---	447	---	2300	---	268	389	---
TOTAL	12553	12134	11130	10960	29140	19120	18311	56580	62560	19987	10982	12058
MEAN	405	404	359	354	1005	617	610	1825	2085	645	354	402
MAX	590	507	440	390	2600	960	1040	2680	2680	1630	1040	712
MIN	258	212	190	330	330	394	406	1120	1240	268	236	346
AC-FT	24900	24070	22080	21740	57800	37920	36320	112200	124100	39640	21780	23920

CAL YR 1979 TOTAL 293635 MEAN 804 MAX 4200 MIN 190 AC-FT 582400
WTR YR 1980 TOTAL 275515 MEAN 753 MAX 2680 MIN 190 AC-FT 546500

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), 32.0°C July 15, 1977; 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; minimum daily, 0.69 ton (0.63 tonne) July 2, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded (more than 20 percent missing record), 1,320 micromhos Apr. 8; minimum daily, 352 micromhos June 18.
WATER TEMPERATURES: Maximum recorded (more than 20 percent missing record), 29.0°C July 28, Aug. 7, 8; minimum, 0.0°C many days during winter period.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 30,500 mg/L Aug. 27; minimum daily mean, 120 mg/L Feb. 3.
SEDIMENT LOADS: Maximum daily, 66,800 tons (60,600 tonnes) Aug. 26; minimum daily, 112 tons (102 tonnes) Aug. 10.

REVISIONS.--The minimum daily specific conductance value for water year 1979 has been revised to 330 micromhos, June 20, 1979, superseding value previously published.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	COLOR (PLAT-INUM COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN, DIS-SOLVED (MG/L AS N)
OCT										
10...	1530	317	860	8.5	21.0	16.0	15	130	8.2	.64
NOV										
28...	1515	366	920	7.9	-2.5	.0	15	55	12.0	.47
DEC										
11...	1000	360	720	8.3	-1.0	.0	5	46	11.4	.63
JAN										
17...	1000	360	720	8.0	1.0	.0	20	250	11.2	1.1
FEB										
13...	1000	540	840	7.9	-8.5	.0	5	8.9	10.6	.78
MAR										
20...	0830	384	980	8.1	2.5	5.0	10	420	9.4	1.5
APR										
09...	0930	510	1050	8.1	10.0	8.0	5	360	9.8	.65
MAY										
19...	1100	1750	580	8.0	--	14.0	--	1600	--	.96
22...	0930	1990	550	7.9	19.0	17.0	10	770	7.3	.85
JUN										
27...	0800	1680	410	7.6	25.0	19.0	60	200	6.8	.55
JUL										
16...	0830	630	730	7.9	22.0	22.0	25	140	7.0	.54
AUG										
21...	1200	362	880	8.0	21.5	18.5	10	170	7.5	.53
SEP										
25...	0830	398	830	8.1	6.5	13.0	7	9.6	8.2	.38

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT
OCT										
10...	17	10000	K14	110	300	92	74	29	74	46
NOV										
28...	13	--	K3	47	330	120	84	30	82	35
DEC										
11...	15	K17	K7	44	290	93	73	25	68	44
JAN										
17...	20	22	35	27	260	55	66	24	71	37
FEB										
13...	9	24	K2	20	300	87	74	27	84	38
MAR										
20...	30	K67	K34	K53	320	82	75	32	110	43
APR										
09...	36	K22	K8	350	340	100	78	35	99	39
MAY										
19...	100	--	--	--	200	40	45	21	61	40
22...	120	K230	240	840	220	0	50	23	47	32
JUN										
27...	34	650	K90	220	170	39	42	15	26	25
JUL										
16...	13	--	K48	92	270	84	67	26	59	32
AUG										
21...	25	110	66	280	300	92	68	32	75	35
SEP										
25...	39	--	--	--	280	97	63	29	72	36

DATE	SODIUM ADSORPTION RATIO	SODIUM+POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFIDE TOTAL (MG/L AS S)	SULFATE DISSOLVED (MG/L AS SO4)
OCT									
10...	1.8	77	2.5	250	2	208	1.3	.1	190
NOV									
28...	2.0	85	2.5	260	0	213	5.2	.1	220
DEC									
11...	1.8	70	1.9	240	0	197	1.9	.2	170
JAN									
17...	1.9	73	1.8	250	0	205	4.0	.0	170
FEB									
13...	2.1	86	1.8	260	0	213	5.2	--	200
MAR									
20...	2.7	--	3.0	290	0	238	3.7	--	260
APR									
09...	2.3	--	2.3	290	0	238	3.7	.1	290
MAY									
19...	1.9	--	2.7	--	--	290	--	.1	140
22...	1.4	--	2.2	310	0	254	6.2	.2	130
JUN									
27...	.9	--	1.5	160	0	131	6.4	.0	74
JUL									
16...	1.6	--	2.3	--	--	190	--	.0	170
AUG									
21...	1.9	--	2.9	--	--	210	--	.2	210
SEP									
25...	1.9	--	2.5	--	--	180	--	.0	190

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 1979 TO SEPTEMBER 1980

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	BROMIDE DISSOLVED (MG/L AS BR)	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									
10...	43	.3	--	11	552	549	.75	472	--
NOV									
28...	46	.3	--	15	610	609	.83	603	150
DEC									
11...	34	.2	--	15	507	507	.69	493	0
JAN									
17...	36	.3	--	12	513	506	.70	499	518
FEB									
13...	41	.2	--	15	549	573	.75	800	--
MAR									
20...	46	.3	--	13	680	683	.92	705	716
APR									
09...	43	.3	--	11	707	702	.96	974	712
MAY									
19...	15	.3	.1	12	427	396	.58	2020	--
22...	13	.3	--	13	392	433	.53	2110	2440
JUN									
27...	9.9	.2	--	13	262	261	.36	1190	176
JUL									
16...	27	.4	--	14	477	480	.65	811	260
AUG									
21...	36	.5	--	14	620	565	.84	606	274
SEP									
25...	38	.3	--	12	634	515	.86	681	192

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS NO3)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS NO2)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT											
10...	.02	--	.000	--	.02	.02	.040	.000	.05	.00	.68
NOV											
28...	.04	--	.040	--	.08	.10	.020	.010	.02	.01	.82
DEC											
11...	.23	--	.020	--	.25	.24	.040	.020	.05	.03	4.5
JAN											
17...	.44	--	.010	--	.45	.45	.040	.030	.05	.04	1.3
FEB											
13...	.24	--	.020	--	.26	.42	.170	.120	.21	.15	.14
MAR											
20...	.16	--	.010	--	.17	.21	.040	.000	.05	.00	1.3
APR											
09...	.05	--	.010	--	.06	.06	.100	.000	.12	.00	4.7
MAY											
19...	--	--	--	--	.46	.46	.030	.070	.04	.09	3.9
22...	.34	--	.000	--	.34	.33	.040	.030	.05	.04	2.2
JUN											
27...	.05	--	.010	--	.06	.08	.040	.060	.05	.08	1.1
JUL											
16...	.03	.03	.010	.01	.04	.00	.000	.010	.00	.01	.83
AUG											
21...	.00	--	.010	--	.00	.00	.000	.010	.00	.01	1.1
SEP											
25...	.00	--	.000	--	.00	.00	.010	.000	.01	.00	.52

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	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, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE TOTAL (MG/L AS PO4)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE TOTAL (MG/L AS P)
OCT											
10...	.62	.72	.10	.62	.74	3.3	.210	.06	.64	.000	.020
NOV											
28...	.36	.84	.47	.37	.92	4.1	.090	.06	.28	.000	.020
DEC											
11...	.37	4.5	4.1	.39	4.8	21	.070	.06	.21	.000	.020
JAN											
17...	.65	1.3	.62	.68	1.8	7.7	.410	.12	1.3	.050	.040
FEB											
13...	.24	.31	.00	.36	.57	2.5	.040	.03	.12	.010	.010
MAR											
20...	1.3	1.3	.00	1.3	1.5	6.5	.500	.09	1.5	.020	.030
APR											
09...	.59	4.8	4.2	.59	4.9	22	.500	.03	1.5	.370	.010
MAY											
19...	.43	3.9	3.4	.50	4.4	19	2.400	--	7.4	.020	--
22...	.49	2.2	1.7	.52	2.5	11	2.400	.03	7.4	.020	.010
JUN											
27...	.41	1.1	.63	.47	1.2	5.1	.590	.21	1.8	.040	.070
JUL											
16...	.53	.83	.29	.54	.87	3.9	.220	.06	.67	.030	.020
AUG											
21...	.52	1.1	.57	.53	1.1	4.9	.220	.00	.67	.010	.000
SEP											
25...	.38	.53	.15	.38	.53	2.3	.360	1.1	1.1	.030	.360

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)	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)
OCT												
10...	1530	3500	3500	50	2	1	1	200	100	100	0	0
NOV												
28...	1515	--	--	20	3	2	1	400	300	80	0	--
DEC												
11...	1000	--	--	--	--	--	--	--	--	--	--	--
JAN												
17...	1000	--	--	--	--	--	--	--	--	--	--	--
FEB												
13...	1000	500	--	--	2	0	2	200	100	80	--	--
MAR												
20...	0830	--	--	--	--	--	--	--	--	--	--	--
APR												
09...	0930	--	--	--	--	--	--	--	--	--	--	--
MAY												
19...	1100	15000	15000	30	4	3	1	1100	1100	50	--	--
22...	0930	910	890	20	10	8	2	900	800	60	0	--
JUN												
27...	0800	--	--	--	--	--	--	--	--	--	--	--
AUG												
21...	1200	--	--	--	4	1	3	200	100	90	--	--
SEP												
25...	0830	--	--	--	--	--	--	--	--	--	--	--

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	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)	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)	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)
OCT												
10...	<1	150	1	1	0	10	0	0	0	0	2	1
NOV												
28...	--	110	0	0	<1	0	0	1	0	<3	0	0
DEC												
11...	--	90	--	--	--	--	--	--	--	--	--	--
JAN												
17...	--	90	--	--	--	--	--	--	--	--	--	--
FEB												
13...	--	130	0	0	<1	0	0	0	0	<3	3	3
MAR												
20...	--	130	--	--	--	--	--	--	--	--	--	--
APR												
09...	--	120	--	--	--	--	--	--	--	--	--	--
MAY												
19...	--	--	1	0	2	50	50	24	--	<3	100	97
22...	<1	70	1	--	<1	40	40	27	--	<3	100	100
JUN												
27...	--	50	--	--	--	--	--	--	--	--	--	--
AUG												
21...	--	130	1	--	<1	10	0	4	--	<3	13	12
SEP												
25...	--	100	--	--	--	--	--	--	--	--	--	--

DATE	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)	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)
OCT											
10...	1	2200	2200	0	11	11	0	20	0	20	100
NOV											
28...	0	4000	4000	30	6	4	2	20	--	--	110
DEC											
11...	--	--	--	120	--	--	--	--	--	--	--
JAN											
17...	--	--	--	60	--	--	--	--	--	--	--
FEB											
13...	0	580	550	30	3	3	0	--	--	--	20
MAR											
20...	--	--	--	<10	--	--	--	--	--	--	--
APR											
09...	--	--	--	30	--	--	--	--	--	--	--
MAY											
19...	3	66000	66000	30	60	57	3	90	80	10	1800
22...	0	44000	44000	30	54	53	1	70	60	10	1700
JUN											
27...	--	--	--	<10	--	--	--	--	--	--	--
AUG											
21...	1	5900	--	<10	12	12	0	--	--	--	170
SEP											
25...	--	--	--	<10	--	--	--	--	--	--	--

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	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)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, SUSPENDED RECOV. (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)
OCT											
10...	90	10	4.1	.9	3.2	5	0	<10	0	0	0
NOV											
28...	110	2	.0	.0	.0	--	--	--	100	7	1
DEC											
11...	--	--	--	--	--	--	--	--	0	--	--
JAN											
17...	--	--	--	--	--	--	--	--	0	--	--
FEB											
13...	20	4	.0	.0	.0	--	--	--	0	1	0
MAR											
20...	--	--	--	--	--	--	--	--	0	--	--
APR											
09...	--	--	--	--	--	--	--	--	100	--	--
MAY											
19...	1800	5	.3	.3	.0	--	--	--	--	--	--
22...	1700	2	.1	.1	.0	3	0	5	200	75	0
JUN											
27...	--	--	--	--	--	--	--	--	100	--	--
AUG											
21...	170	4	.1	.1	.0	--	--	--	100	7	3
SEP											
25...	--	--	--	--	--	--	--	--	0	--	--

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)	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)
OCT											
10...	1	0	1	0	0	0	--	2.0	10	0	10
NOV											
28...	1	0	1	0	0	0	--	--	10	30	5
DEC											
11...	--	--	--	0	--	--	--	--	50	--	--
JAN											
17...	--	--	--	0	--	--	--	--	80	--	--
FEB											
13...	1	0	1	0	0	0	--	--	20	0	20
MAR											
20...	--	--	--	0	--	--	--	--	110	--	--
APR											
09...	--	--	--	0	--	--	--	--	100	--	--
MAY											
19...	5	3	2	0	0	0	590	3.0	340	--	<3
22...	4	2	2	1	0	0	--	<6.0	260	--	<3
JUN											
27...	--	--	--	0	--	--	--	--	90	--	--
AUG											
21...	1	0	2	2	2	0	--	--	40	40	3
SEP											
25...	--	--	--	0	--	--	--	--	60	--	--

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM DISSOLVED, EXTRACTION (UG/L)
MAY									
22...	0930	<4.7	72	<2.8	40	<2.6	38	.08	2.3
AUG									
21...	1200	<8.8	15	<4.0	11	<3.8	11	.11	2.2

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)
OCT					
10...	1530	7.7	4.7	.4	.00
NOV					
28...	1515	3.3	11	.2	.00
DEC					
11...	1000	3.6	3.8	--	.00
JAN					
17...	1000	5.1	3.0	--	.00
FEB					
13...	1000	--	3.0	.6	.00
MAR					
20...	0830	14	4.6	--	.00
APR					
09...	0930	12	5.0	--	.00
MAY					
19...	1100	51	10	--	--
22...	0930	--	6.6	3.4	.00
JUN					
27...	0800	11	5.0	--	.00
AUG					
21...	1200	--	19	1.3	.00
SEP					
25...	0830	5.9	3.7	--	.00

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)
OCT								
10...	1530	.00	.00	.0	.00	.00	.00	.00
NOV								
28...	1515	.00	.00	.0	.00	.00	.00	.00
FEB								
13...	1000	.00	.00	.0	.00	.00	.00	.00
MAY								
22...	0930	.00	.00	.0	.00	.00	.00	.00
AUG								
21...	1200	.00	.00	.0	.00	.00	.00	.00

DATE	DI-ELDRIN TOTAL (UG/L)	ENDO-SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	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)
OCT									
10...	.00	.00	.00	.00	.00	.00	.00	.00	.00
NOV									
28...	.00	.00	.00	.00	.00	.00	.00	.00	.00
FEB									
13...	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY									
22...	.00	.00	.00	.00	.00	.00	.00	.00	.00
AUG									
21...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	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)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT								
10...	.00	.00	.00	0	.00	.00	.00	.00
NOV								
28...	.00	.00	.00	0	.00	.02	.00	.00
FEB								
13...	.00	.00	.00	0	.00	.00	.00	.00
MAY								
22...	.00	.00	.00	0	.00	.00	.00	.00
AUG								
21...	.00	.00	.00	0	.00	.02	.00	.00

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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						
10...	1530	12.6	11.8	5.54	.660	144
APR						
09...	0930	43.5	42.0	.000	.000	--
AUG						
21...	1200	10.2	9.45	1.01	.000	743

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEC 11,79		MAR 20,80		MAY 22,80		JUN 27,80	
TIME	1000		0830		0930		0800	
TOTAL CELLS/ML	140		4900		500		390	
DIVERSITY: DIVISION	1.4		1.2		0.0		0.5	
.CLASS	1.4		1.2		0.0		0.5	
..ORDER	1.7		1.4		0.0		1.2	
...FAMILY	2.5		2.2		1.8		1.4	
....GENUS	2.6		2.2		1.8		1.4	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	13	3
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	59	1	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	--	-	--	-
....SCENEDESMUS	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	10	7	39	1	--	-	26	7
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	10	7	270	6	--	-	64#	17
....MELOSIRA	--	-	--	-	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	*	0	--	-	--	-
....COCCONEIS	--	-	--	-	--	-	--	-
....RHOICOSPHENIA	--	-	39	1	72	14	--	-
...CYMBELLACEAE								
....CYMBELLA	5	4	98	2	--	-	13	3
....EPITHEMIA	15	11	--	-	--	-	--	-
....RHOPALODIA	--	-	*	0	--	-	--	-
...DIATOMACEAE								
....DIATOMA	--	-	39	1	72	14	--	-
...FRAGILARIACEAE								
....HANNAEA	--	-	*	0	--	-	--	-
....SYNEDRA	--	-	*	0	--	-	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	140	3	--	-	--	-
...NAVICULACEAE								
....NAVICULA	35#	25	800#	17	220#	43	--	-
...NITZSCHIACEAE								
....DENTICULA	--	-	--	-	--	-	--	-
....NITZSCHIA	20	14	470	10	140#	29	270#	70
...SURIRELLACEAE								
....SURIRELLA	--	-	39	1	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	*	0	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	--	-	--	-
..HORMOGONALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	40#	29	2700#	56	--	-	--	-
...RIVULARIACEAE								
....RAPHIDIOPSIS	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	5	4	*	0	--	-	--	-

See footnotes at end of table.

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	JUL 16,80		AUG 21,80		SEP 25,80	
TIME	0830		1200		0830	
TOTAL CELLS/ML	7700		5600		2200	
DIVERSITY: DIVISION	1.0		1.6		1.4	
.CLASS	1.0		1.6		1.4	
..ORDER	1.6		2.6		1.9	
...FAMILY	1.7		2.7		2.5	
....GENUS	1.7		2.8		2.5	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...CHARACIACEAE						
....SCHROEDERIA	--	-	--	-	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	--	-	65	1	14	1
...SCENEDESMACEAE						
....ACTINASTRUM	400	5	--	-	--	-
....SCENEDESMUS	--	-	1200#	22	240	11
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	100	1	820	15	14	1
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	1100	14	1200#	22	230	11
....MELOSIRA	--	-	98	2	--	-
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	--	-
....COCCONEIS	--	-	--	-	14	1
....RHOICOSPHENIA	--	-	33	1	--	-
...CYMBELLACEAE						
....CYMBELLA	--	-	--	-	--	-
....EPITHEMIA	--	-	--	-	--	-
....RHOPALODIA	--	-	--	-	--	-
...DIATOMACEAE						
....DIATOMA	--	-	--	-	--	-
...FRAGILARIACEAE						
....HANNAEA	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	--	-
...GOMPHONEMATACEAE						
....GOMPHONEMA	50	1	--	-	57	3
...NAVICULACEAE						
....NAVICULA	--	-	98	2	86	4
...NITZSCHIACEAE						
....DENTICULA	--	-	--	-	14	1
....NITZSCHIA	4600#	59	780	14	750#	34
...SURIRELLACEAE						
....SURIRELLA	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
.CRYPTOPHYCEAE						
..CRYPTOMONADALES						
...CRYPTOMONADACEAE						
....CRYPTOMONAS	--	-	33	1	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	--	-	330	6	57	3
..HORMOGONALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	1600#	20	850#	15	650#	30
...RIVULARIACEAE						
....RAPHIDIOPSIS	--	-	--	-	57	3
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....EUGLENA	--	-	33	1	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		816	999	858	---	---	880	---	---	472	847	945
2		901	1010	870	---	---	1100	---	---	498	848	914
3		890	1060	891	---	---	876	---	---	540	860	910
4		862	1030	920	---	---	900	---	---	570	861	907
5		881	1030	949	---	---	926	---	---	610	869	907
6		903	1060	912	900	---	930	660	---	617	888	913
7		889	1070	854	860	---	971	650	---	606	894	918
8		892	921	836	840	---	1320	700	---	615	902	923
9		866	811	843	860	---	1250	710	---	623	902	958
10		880	796	836	900	---	1000	720	---	635	906	912
11		881	800	831	910	---	1000	730	---	654	923	630
12		857	821	851	920	---	1030	740	---	668	920	747
13		836	867	851	950	---	1030	720	---	675	928	790
14		824	861	850	980	---	1060	710	---	684	918	801
15		820	904	846	940	---	1070	700	---	694	892	816
16		810	947	827	880	---	1100	700	---	711	908	819
17		800	968	815	830	---	1090	730	---	712	935	828
18		796	976	---	640	---	---	700	352	732	936	807
19		800	1010	---	470	---	---	680	365	730	944	800
20		829	1050	---	580	---	---	670	370	740	933	792
21		790	993	---	600	---	---	660	369	751	883	790
22		853	917	---	620	---	---	690	381	755	839	795
23		850	924	---	680	---	---	---	396	757	833	807
24		850	863	---	820	---	---	---	397	767	828	813
25		850	855	---	870	934	---	---	409	775	898	816
26		856	827	---	---	927	---	---	409	794	1040	825
27		831	810	---	---	937	---	---	415	799	1050	830
28		903	819	---	---	911	---	---	429	817	1010	841
29		919	833	---	---	917	---	---	440	867	988	849
30		953	872	---	---	909	---	---	448	830	965	844
31		---	851	---	---	917	---	---	---	836	959	---
MEAN		856	921		803					695	913	842

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1				4.5	2.5	3.5	.0	.0	.0	.0	.0	.0
2				4.0	1.0	2.5	.0	.0	.0	.0	.0	.0
3				4.0	1.5	2.5	.0	.0	.0	.0	.0	.0
4				4.5	1.5	3.0	.0	.0	.0	.0	.0	.0
5				5.0	2.0	3.5	.0	.0	.0	.0	.0	.0
6				4.5	2.0	3.0	.0	.0	.0	.0	.0	.0
7				4.0	2.5	3.0	.0	.0	.0	.0	.0	.0
8				5.0	2.0	3.5	.0	.0	.0	.0	.0	.0
9				5.0	3.0	4.0	.0	.0	.0	.0	.0	.0
10				5.0	2.5	3.5	.0	.0	.0	.0	.0	.0
11				5.0	.0	3.0	.0	.0	.0	.0	.0	.0
12				4.5	.0	1.5	.0	.0	.0	.0	.0	.0
13				3.5	.0	2.0	.0	.0	.0	.0	.0	.0
14				3.0	.0	1.0	.0	.0	.0	.0	.0	.0
15				2.5	.0	.5	.0	.0	.0	.0	.0	.0
16				1.5	.0	.0	.0	.0	.0	.0	.0	.0
17				.5	.0	.0	.0	.0	.0	.0	.0	.0
18				.0	.0	.0	.0	.0	.0	---	---	---
19				.5	.0	.0	.0	.0	.0	---	---	---
20				.5	.0	.0	.0	.0	.0	---	---	---
21				.0	.0	.0	.0	.0	.0	---	---	---
22				.0	.0	.0	.0	.0	.0	---	---	---
23				.0	.0	.0	.0	.0	.0	---	---	---
24				.0	.0	.0	.0	.0	.0	---	---	---
25				.0	.0	.0	.0	.0	.0	---	---	---
26				.0	.0	.0	.0	.0	.0	---	---	---
27				.0	.0	.0	.0	.0	.0	---	---	---
28				.0	.0	.0	.0	.0	.0	---	---	---
29				.0	.0	.0	.0	.0	.0	---	---	---
30				.0	.0	.0	.0	.0	.0	---	---	---
31				---	---	---	.0	.0	.0	---	---	---
MONTH				5.0	.0	1.5	2.0	.0	.0	---	---	---

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1			---	---	---	---	8.0	3.5	5.0	---	---	---
2			---	---	---	---	6.5	2.0	4.5	---	---	---
3			---	---	---	---	8.0	3.0	5.5	---	---	---
4			---	---	---	---	10.5	5.0	7.5	---	---	---
5			---	---	---	---	11.5	7.5	9.0	---	---	---
6			.0	---	---	---	10.5	7.5	9.0	17.5	16.5	17.0
7			.0	---	---	---	9.5	6.0	7.5	21.5	15.0	18.0
8			.0	---	---	---	10.0	4.5	7.0	21.0	21.0	21.0
9			.0	---	---	---	10.5	4.0	8.0	20.5	20.5	20.5
10			.0	---	---	---	11.5	6.5	9.0	20.0	20.0	20.0
11			.0	---	---	---	10.5	6.5	8.5	19.5	19.5	19.5
12			.0	---	---	---	9.5	5.5	7.5	19.0	19.0	19.0
13			.0	---	---	---	10.5	5.0	7.5	18.5	18.0	18.5
14			.0	---	---	---	13.0	6.5	9.5	18.0	17.5	18.0
15			.0	---	---	---	14.0	9.0	11.0	17.5	17.0	17.5
16			.0	---	---	---	15.0	9.0	12.0	17.0	16.5	16.5
17			.0	---	---	---	12.5	10.0	11.0	16.5	16.0	16.5
18			.0	---	---	---	---	---	---	16.0	15.5	15.5
19			.0	---	---	---	---	---	---	15.5	14.5	15.0
20			.0	---	---	---	---	---	---	16.5	15.5	16.0
21			.0	---	---	---	---	---	---	17.0	16.5	17.0
22			.0	---	---	---	---	---	---	---	---	---
23			.0	---	---	---	---	---	---	---	---	---
24			.0	---	---	---	---	---	---	---	---	---
25			.0	7.0	5.0	6.0	---	---	---	---	---	---
26			---	8.0	3.5	5.5	---	---	---	---	---	---
27			---	8.5	5.0	6.5	---	---	---	---	---	---
28			---	7.5	5.5	6.5	---	---	---	---	---	---
29			---	9.0	4.5	6.5	---	---	---	---	---	---
30				7.0	3.0	5.5	---	---	---	---	---	---
31				6.5	1.5	4.0	---	---	---	---	---	---
MONTH			---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	24.0	21.5	22.5	28.5	22.5	25.0	21.5	15.0	18.0
2	---	---	---	24.5	22.0	23.0	28.5	22.5	25.5	22.0	16.5	19.5
3	---	---	---	25.0	22.0	23.5	26.0	21.5	23.5	22.5	17.0	19.5
4	---	---	---	24.0	21.5	23.0	24.5	19.0	21.5	24.0	17.5	20.5
5	---	---	---	24.0	21.0	22.5	26.5	19.5	22.5	24.0	18.0	21.0
6	---	---	---	24.5	20.5	22.5	27.5	20.5	24.0	22.5	18.5	20.5
7	---	---	---	23.0	21.5	22.5	29.0	21.5	25.0	22.0	19.5	20.5
8	---	---	---	24.0	21.0	22.5	29.0	22.0	26.0	22.0	18.5	20.0
9	---	---	---	26.0	21.0	23.5	28.5	22.5	26.0	20.0	18.5	19.0
10	---	---	---	26.0	23.0	24.5	27.0	21.5	24.5	19.5	18.0	18.5
11	---	---	---	27.0	22.5	24.5	27.5	19.5	23.5	19.0	16.5	18.0
12	---	---	---	25.0	23.5	24.0	27.0	20.5	23.5	20.0	16.0	18.0
13	---	---	---	24.5	22.5	23.5	27.0	20.5	23.5	21.5	17.5	19.0
14	---	---	---	25.5	21.5	23.0	28.5	21.5	24.5	20.0	17.0	18.5
15	---	---	---	25.5	21.0	23.5	28.0	21.0	23.0	20.0	16.0	18.0
16	---	---	---	26.5	21.5	24.0	26.0	19.0	22.5	20.0	17.0	18.5
17	---	---	---	27.5	22.5	25.0	24.5	20.0	22.5	20.5	15.0	18.0
18	20.0	18.5	19.5	27.5	23.0	25.5	23.5	19.5	21.5	20.5	16.0	18.0
19	20.5	18.0	19.5	27.5	23.5	25.5	19.5	16.5	18.5	19.0	16.5	18.0
20	21.0	18.5	20.0	28.0	22.0	25.0	21.5	15.0	18.0	20.0	15.0	17.5
21	21.0	18.5	20.0	28.5	23.0	25.5	23.0	16.5	20.0	18.5	15.0	16.5
22	21.0	18.5	20.0	28.5	23.0	25.5	23.0	18.0	20.5	18.0	13.0	15.5
23	20.5	18.5	19.5	27.5	23.5	25.5	24.0	19.0	21.0	18.0	13.0	15.5
24	20.5	18.0	19.5	27.5	22.5	25.0	23.5	19.0	21.0	18.0	13.5	15.5
25	21.0	18.0	20.0	28.0	21.5	25.0	21.0	19.0	20.0	18.0	13.5	15.5
26	21.5	19.0	20.5	28.0	22.0	25.0	19.5	16.5	18.5	18.5	13.0	15.5
27	21.5	19.0	20.5	28.5	22.0	25.5	21.0	17.0	19.0	19.0	13.5	16.0
28	22.5	19.0	20.5	29.0	22.5	25.5	22.0	18.0	19.5	19.5	14.5	17.0
29	23.5	20.0	22.0	25.5	22.0	23.5	21.0	17.5	19.0	19.5	14.5	17.0
30	23.5	20.5	22.0	27.5	21.0	24.0	21.0	17.0	18.5	19.5	14.5	17.0
31	---	---	---	28.0	22.0	25.0	19.5	16.0	17.5	---	---	---
MONTH	---	---	---	29.0	20.5	24.0	29.0	15.0	22.0	24.0	13.0	18.0

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	795	567	465	637	240	149	234	234	128	114	2740	6510
2	805	580	470	615	220	113	224	212	139	128	3080	7980
3	770	536	475	560	195	116	221	209	120	120	3030	6950
4	768	554	485	572	199	150	215	197	129	136	2820	6090
5	779	597	495	632	202	218	250	229	148	168	2420	4250
6	818	645	493	624	273	317	295	263	167	185	2320	4640
7	818	669	500	636	312	371	308	299	259	273	2260	4760
8	841	749	468	577	215	255	317	317	213	219	2400	4990
9	839	788	412	496	178	207	315	315	198	203	2290	4820
10	803	698	410	503	165	174	320	328	232	244	2350	4950
11	745	632	422	507	150	146	308	316	179	198	1880	3300
12	705	613	418	501	140	136	333	297	158	201	1590	2490
13	690	600	403	478	148	144	310	316	175	255	1520	2300
14	680	606	430	497	165	160	268	282	193	323	1480	2240
15	685	653	385	419	165	160	265	272	268	521	1970	3240
16	691	692	345	363	168	163	520	519	448	1210	2570	4580
17	765	814	365	379	175	170	795	773	428	1390	2330	3900
18	712	704	425	443	175	175	930	904	440	1780	2120	2870
19	689	690	485	543	192	197	438	426	900	4620	1360	1510
20	4300	6560	550	612	223	229	265	258	5100	33000	880	936
21	16200	25800	665	792	234	240	250	236	2500	17600	1130	1420
22	6450	8790	555	568	231	237	273	258	2220	15000	1510	1950
23	3050	4740	465	438	231	231	270	255	2210	13500	1590	2230
24	1990	3120	500	398	231	231	273	251	2060	10600	2250	3650
25	1590	2320	410	235	225	219	240	220	2150	9060	1530	2230
26	1190	1690	465	320	210	204	182	167	2180	7060	1700	2420
27	975	1370	650	762	215	197	175	161	2290	5560	1650	2450
28	895	1260	435	442	225	200	174	155	2360	5100	1200	1680
29	755	1060	260	232	225	231	266	237	2470	5600	750	974
30	625	877	252	191	225	237	219	195	---	---	750	925
31	510	709	---	---	245	245	232	207	---	---	880	1060
TOTAL	---	70683	---	14972	---	6222	---	9310	---	134368	---	104295

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	570	689	2630	8240	3500	20600	2160	6770	386	278	840	832
2	500	601	2760	9020	3500	21000	2110	6490	384	292	710	684
3	490	590	2700	8530	3400	19600	2860	10400	405	312	690	684
4	450	555	2570	7770	3400	19600	3940	17300	328	240	730	719
5	440	531	2750	8610	3250	18800	3890	13800	273	199	580	542
6	460	550	3020	9870	3200	19100	2860	8420	237	163	520	498
7	610	763	2510	8810	3150	19600	2540	6540	199	135	490	466
8	770	1050	1880	7870	3300	21300	2380	5470	217	142	4600	5320
9	870	1150	2090	9090	3700	24300	1790	3880	196	127	4500	4300
10	780	899	1950	9060	3800	25400	1420	2790	176	112	3780	5270
11	660	736	2970	14700	3500	23200	1400	2440	183	126	16600	31900
12	730	958	5610	27900	3600	24700	1440	2390	179	141	7560	11800
13	900	1120	7350	39500	3700	26300	1080	1770	157	119	4680	5770
14	730	830	7040	37300	2900	21000	714	1060	199	140	2880	3180
15	580	636	5750	27000	3200	22300	441	651	522	344	1620	1810
16	520	583	4970	21600	2400	15600	715	1170	990	671	1080	1120
17	550	695	4430	19400	2840	17300	697	999	4750	4460	624	627
18	1190	1700	6220	30600	2660	15200	674	835	1570	1700	567	588
19	1330	1950	6740	31700	3510	19000	674	795	1360	1410	518	543
20	1250	1960	4730	20700	3000	15900	650	762	876	948	436	440
21	1340	2410	4640	22000	2830	14700	566	593	385	383	315	313
22	1360	2780	5560	29400	2770	13700	516	524	264	256	234	233
23	1380	3170	5830	34900	2500	12600	454	435	242	212	292	315
24	1480	3870	9570	65100	2370	11500	408	355	638	487	279	297
25	1490	3860	8780	63500	1930	8700	327	259	3960	4630	243	264
26	1590	4070	6940	49800	2200	9500	358	291	23800	66800	238	245
27	1640	4080	6150	40500	2140	8960	430	394	30500	54900	250	248
28	1840	4720	5050	32200	2260	8850	756	651	16000	23500	305	301
29	1900	4900	4400	27800	2280	8370	1390	1110	5800	6910	290	284
30	2280	6400	4550	29000	2270	7600	408	311	3250	3660	251	251
31	---	---	4260	26500	---	---	357	258	1570	1650	---	---
TOTAL	---	58806	---	777970	---	514280	---	99913	---	175447	---	79844

TOTAL LOAD FOR YEAR: 2046110 TONS.

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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							
08...	1300	329	13.0	--	420	373	29
10...	1530	317	16.0	76	366	313	--
NOV							
01...	1600	509	4.5	--	423	581	19
28...	1515	366	.0	30	637	629	--
29...	1400	225	.0	--	251	152	30
DEC							
11...	1000	360	.0	45	259	252	--
JAN							
17...	1000	360	.0	84	686	667	--
FEB							
13...	1000	540	.0	90	34	50	--
MAR							
17...	1515	624	4.0	--	2120	3570	31
20...	0830	384	5.0	57	1470	1520	--
APR							
01...	1300	469	5.5	--	564	714	27
09...	0930	510	8.0	63	1280	1760	--
17...	1430	479	13.0	--	542	701	34
28...	1600	952	17.5	--	1660	4270	30
MAY							
19...	1235	1740	14.0	--	8170	38400	31
22...	0930	1990	17.0	68	5190	27900	--
JUN							
09...	1330	2370	18.0	--	3370	21600	15
18...	1300	2060	17.5	--	2100	11700	20
27...	0800	1680	19.0	38	2380	10800	--
JUL							
16...	0830	630	22.0	26	1550	2640	--
AUG							
21...	1200	362	18.5	76	482	471	--
26...	1300	1380	17.0	--	26700	99500	32
SEP							
17...	1400	374	17.5	--	656	662	40
25...	0830	398	13.0	90	316	340	--

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						
08...	40	70	83	90	98	100
10...	--	--	--	--	--	--
NOV						
01...	22	42	62	72	96	100
28...	--	--	--	--	--	--
29...	38	58	76	81	98	100
DEC						
11...	--	--	--	--	--	--
JAN						
17...	--	--	--	--	--	--
FEB						
13...	--	--	--	--	--	--
MAR						
17...	38	56	67	75	95	100
20...	--	--	--	--	--	--
APR						
01...	32	43	61	75	95	100
09...	--	--	--	--	--	--
17...	38	50	70	85	98	100
28...	37	57	77	86	99	100
MAY						
19...	37	53	77	88	98	100
22...	--	--	--	--	--	--
JUN						
09...	20	25	49	77	96	100
18...	21	30	61	86	97	100
27...	--	--	--	--	--	--
JUL						
16...	--	--	--	--	--	--
AUG						
21...	--	--	--	--	--	--
26...	44	80	96	98	100	--
SEP						
17...	45	58	80	89	99	100
25...	--	--	--	--	--	--

09307200 PARIETTE DRAW NEAR OURAY, UTAH

LOCATION.--Lat 40°04'58", long 109°52'22", in SW1/4SE1/4SE1/4 sec.27, T.8 S., R.18 E., Uintah County, Hydrologic Unit 14060005, on right bank, 1.2 mi (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.--Water-discharge records good except those for winter months and period of no gage-height record, Nov. 23 to Mar. 11, which are poor. Some small diversions above station for irrigation.

AVERAGE DISCHARGE.--5 years, 23.8 ft^3/s (0.674 m^3/s), 17,240 acre-ft/yr (21.3 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 (0.085 m^3/s) Feb. 6, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 626 ft^3/s (17.7 m^3/s) Sept. 10, gage height, 9.76 ft (2.975 m); minimum daily, 5.9 ft^3/s (0.17 m^3/s) Nov. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	29	8.5	11	8.5	13	9.5	13	29	23	28	45
2	31	26	9.0	11	10	13	9.0	15	28	20	24	49
3	23	41	10	10	11	13	9.0	16	20	16	24	60
4	36	47	11	10	11	14	9.0	18	19	22	31	58
5	43	41	12	10	12	14	9.0	25	20	28	30	48
6	44	42	12	10	12	14	9.0	30	25	26	31	36
7	46	41	12	10	12	14	9.0	32	40	19	23	35
8	45	41	12	10	11	14	9.0	34	43	21	16	66
9	39	40	12	11	10	14	9.0	35	39	21	17	94
10	33	37	12	12	10	14	8.5	36	29	21	19	335
11	30	32	11	11	10	14	8.0	35	24	20	16	103
12	28	17	9.5	11	11	13	8.0	32	20	12	18	42
13	35	13	9.0	13	12	11	8.0	28	20	15	20	35
14	35	17	9.5	14	13	11	8.0	26	24	27	24	32
15	31	17	10	14	14	12	8.0	24	21	24	24	36
16	27	16	11	14	14	11	8.0	24	24	20	31	38
17	30	17	11	14	14	10	8.0	25	21	19	32	65
18	36	32	12	14	14	11	8.0	26	17	17	32	87
19	34	29	12	14	15	9.7	8.0	27	12	15	43	93
20	131	29	13	12	15	9.8	8.0	30	11	17	49	86
21	109	19	13	12	15	11	7.5	32	17	14	35	88
22	82	5.9	13	12	15	11	7.5	30	11	13	27	82
23	66	8.2	12	12	14	16	7.5	32	15	11	32	70
24	49	8.2	12	11	14	12	7.5	36	15	10	48	71
25	46	10	11	11	13	12	7.5	36	15	18	71	66
26	38	11	11	11	13	11	7.2	38	14	15	84	66
27	36	10	10	11	13	10	6.5	29	15	16	65	63
28	38	10	11	11	13	10	6.5	27	14	29	56	59
29	39	9.5	11	11	13	9.7	13	27	16	23	46	54
30	37	8.5	11	10	---	9.6	14	30	19	31	43	51
31	32	---	11	8.0	---	9.5	---	32	---	29	41	---
TOTAL	1361	704.3	344.5	356.0	362.5	371.3	254.7	880	637	612	1080	2113
MEAN	43.9	23.5	11.1	11.5	12.5	12.0	8.49	28.4	21.2	19.7	34.8	70.4
MAX	131	47	13	14	15	16	14	38	43	31	84	335
MIN	23	5.9	8.5	8.0	8.5	9.5	6.5	13	11	10	16	32
AC-FT	2700	1400	683	706	719	736	505	1750	1260	1210	2140	4190

CAL YR 1979 TOTAL 9757.9 MEAN 26.7 MAX 331 MIN 5.9 AC-FT 19350
WTR YR 1980 TOTAL 9076.3 MEAN 24.8 MAX 335 MIN 5.9 AC-FT 18000

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.

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
NOV												
01...	1530	43	2450	8.3	5.0	4.5	640	370	130	76	400	58
29...	1140	9.4	4100	8.1	-4.0	.0	880	530	170	110	720	79
JAN												
10...	1110	12	4420	8.0	4.0	.0	950	730	200	110	700	61
MAR												
12...	1240	14	5280	8.1	6.0	5.5	990	690	230	100	880	66
APR												
29...	1340	6.8	5100	8.1	23.0	17.5	980	720	180	130	820	64
MAY												
21...	1240	33	2500	8.0	--	18.0	590	340	130	65	400	59
JUN												
04...	1130	18	3150	8.0	25.5	14.5	770	500	170	83	520	60
JUL												
09...	1220	22	2450	8.3	25.0	21.0	660	440	150	70	400	57
AUG												
07...	1250	24	2500	8.0	33.0	22.0	610	360	130	69	390	58
SEP												
09...	1430	75	2060	8.3	25.0	16.5	540	280	120	59	290	54

DATE	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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											
01...	6.9	400	3.1	270	1000	67	.6	14	1860	2.53	216
29...	11	720	3.7	350	1900	120	.7	20	3280	4.46	83.2
JAN											
10...	9.9	700	3.2	220	2000	130	.7	18	3320	4.52	111
MAR											
12...	12	890	5.3	300	2400	180	.7	13	4010	5.45	152
APR											
29...	11	--	4.5	260	2300	170	.9	9.7	3800	5.17	69.8
MAY											
21...	7.2	--	3.6	250	1000	73	.6	14	1850	2.52	164
JUN											
04...	8.2	--	3.3	270	1400	100	.7	15	2470	3.36	122
JUL											
09...	6.8	--	2.9	220	1100	72	.2	26	1960	2.67	117
AUG											
07...	6.9	--	4.3	250	1000	69	.7	9.9	1830	2.49	119
SEP											
09...	5.4	--	4.5	260	780	62	.5	9.7	1490	2.03	302

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
NOV		
01...	1.9	.000
29...	5.3	.000
JAN		
10...	6.5	.010
MAR		
12...	5.1	.030
APR		
29...	5.2	.010
MAY		
21...	2.1	.070
JUN		
04...	3.1	.050
JUL		
09...	1.7	.060
AUG		
07...	1.7	.020
SEP		
09...	1.0	.050

09307200 PARIETTE DRAW NEAR OURAY, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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
NOV							
01...	1530	43	4.5	636	74	--	--
29...	1140	9.4	.0	65	1.6	--	--
29...	1545	12	1.5	149	4.9	--	--
JAN							
10...	1110	12	.0	319	11	--	--
MAR							
12...	1240	14	5.5	256	9.7	--	--
APR							
29...	1340	6.8	17.5	84	1.5	--	--
MAY							
21...	1240	33	18.0	1410	126	25	25
JUN							
04...	1130	18	14.5	806	40	--	--
JUL							
09...	1220	22	21.0	460	27	17	20
AUG							
07...	1250	24	22.0	261	17	--	--
SEP							
09...	1430	75	16.5	2150	435	28	32

DATE	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	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM
NOV						
01...	--	--	--	--	--	--
29...	--	--	--	--	--	--
29...	--	--	--	--	--	--
JAN						
10...	--	--	--	--	--	--
MAR						
12...	--	--	--	--	--	--
APR						
29...	--	--	--	--	--	--
MAY						
21...	36	62	87	98	100	--
JUN						
04...	--	--	--	--	--	--
JUL						
09...	32	67	74	97	100	--
AUG						
07...	--	--	--	--	--	--
SEP						
09...	40	61	77	92	99	100

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
MAY							
21...	1240	33	18.0	3	9	32	60
SEP							
09...	1430	75	16.5	1	1	10	31

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...	78	86	94	99	100	--
SEP						
09...	46	58	71	84	96	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, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
NOV												
01...	1355	38	2700	8.3	5.0	6.0	670	400	140	78	430	73
29...	1545	12	3560	--	-6.0	1.5	780	460	150	99	590	77
JAN												
10...	1610	12	4370	7.9	.0	.5	850	460	160	110	880	69
MAR												
12...	1755	15	5240	8.1	3.0	6.5	1000	740	220	120	890	65
APR												
29...	1910	7.0	4300	8.2	11.0	16.5	780	590	130	110	700	66
MAY												
21...	1820	17	3050	8.3	--	20.5	640	430	130	77	500	63
JUN												
04...	1710	18	2320	8.3	25.0	19.5	530	350	110	61	360	60
JUL												
09...	1810	18	2650	8.3	--	26.0	580	410	120	69	460	63
AUG												
07...	1730	23	2500	8.3	35.5	25.0	590	400	120	71	400	59
SEP												
09...	1845	70	2150	8.3	17.0	19.0	500	260	110	55	330	59

DATE	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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											
01...	7.2	430	3.9	270	1100	79	.5	13	2020	2.75	206
29...	9.2	590	3.6	320	1600	110	.6	15	2780	3.78	90.1
JAN											
10...	13	880	3.7	390	2100	140	.7	17	3670	4.99	118
MAR											
12...	12	900	5.5	300	2400	190	.7	13	4040	5.49	164
APR											
29...	11	--	4.7	190	1800	150	.9	4.8	3020	4.11	56.8
MAY											
21...	8.6	--	4.2	210	1300	97	.6	9.1	2250	3.06	104
JUN											
04...	6.8	--	2.9	180	960	72	.6	7.2	1690	2.30	82.1
JUL											
09...	8.3	--	3.5	170	1200	89	.2	8.6	2060	2.80	101
AUG											
07...	7.2	--	4.7	190	1100	76	.7	6.4	1900	2.58	116
SEP											
09...	6.4	--	4.6	240	880	60	.5	7.5	1600	2.18	304

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
NOV		
01...	1.9	.000
29...	3.7	.000
JAN		
10...	6.0	.010
MAR		
12...	4.6	.030
APR		
29...	1.9	.020
MAY		
21...	1.1	.010
JUN		
04...	.90	.020
JUL		
09...	.82	.010
AUG		
07...	.38	.010
SEP		
09...	1.1	.030

09307250 PARIETTE DRAW NEAR EIGHTMILE FLAT, NEAR OURAY, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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												
01...	1355	38	6.0	170	17	--	--	--	--	--	--	--
JAN												
10...	1610	12	.5	193	6.2	--	--	--	--	--	--	--
MAR												
12...	1755	15	6.5	394	16	50	58	67	72	76	97	100
APR												
29...	1910	7.0	16.5	570	11	--	--	--	--	--	--	--
MAY												
21...	1820	17	20.5	47	2.2	--	--	--	--	--	--	--
JUN												
04...	1710	18	19.5	35	1.7	--	--	--	--	--	--	--
JUL												
09...	1810	18	26.0	16	.78	--	--	--	--	--	--	--
AUG												
07...	1730	23	25.0	47	2.9	--	--	--	--	--	--	--
SEP												
09...	1845	70	19.0	79	15	--	--	--	--	--	--	--

09307295 LAMBS DIVERSION FROM PARIETTE DRAW, NEAR OURAY, UTAH

LOCATION.--Lat 40°01'45", long 109°45'23", in NW1/4NW1/4SW1/4 sec.14, T.9 S., R.19 E., Uintah County, Hydrologic Unit 14060005, on right bank 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, 17 ft^3/s (0.48 m^3/s) May 6 and 7, 1980; no flow on many days.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 17 ft^3/s (0.48 m^3/s) May 6 and 7; no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	1.0	.90	.40	1.4
2	.00	.00	.00	.00	.00	.00	.00	.00	1.0	.90	.50	1.4
3	.00	.00	.00	.00	.00	.00	.00	.00	1.0	.90	.40	6.4
4	.00	.00	.00	.00	.00	.00	.00	.00	1.0	.90	.30	13
5	.00	.00	.00	.00	.00	.00	.00	8.7	1.0	.90	.30	13
6	.00	.00	.00	.00	.00	.00	.00	17	5.8	.80	.30	13
7	.00	.00	.00	.00	.00	.00	.00	17	11	.80	.30	13
8	.00	.00	.00	.00	.00	.00	.00	16	11	.80	.30	13
9	1.5	.00	.00	.00	.00	.00	.00	16	8.9	.70	.30	13
10	1.4	.00	.00	.00	.00	.00	.00	13	2.4	.60	.30	14
11	.00	.00	.00	.00	.00	.00	.00	8.8	1.9	.50	.30	16
12	.00	.00	.00	.00	.00	.00	.00	8.9	1.6	.50	.30	7.1
13	.00	.00	.00	.00	.00	.00	.00	3.8	1.6	.50	.30	.80
14	.00	.00	.00	.00	.00	.00	.00	.70	1.6	.40	.30	.70
15	.00	.00	.00	.00	.00	.00	.00	.80	1.7	.40	.30	.50
16	.00	.00	.00	.00	.00	.00	.00	.80	2.6	.40	.30	.40
17	.00	.00	.00	.00	.00	.00	.00	.80	2.0	.40	.30	.40
18	4.2	.00	.00	.00	.00	.00	.00	.80	1.2	.40	.30	.30
19	12	.00	.00	.00	.00	.00	.00	.80	1.2	.40	.30	.30
20	12	.00	.00	.00	.00	.00	.00	.80	1.2	.40	.30	.30
21	13	.00	.00	.00	.00	.00	.00	.90	1.2	4.5	1.0	.30
22	7.8	.00	.00	.00	.00	.00	.00	1.0	1.2	13	1.6	.30
23	.00	.00	.00	.00	.00	.00	.00	1.0	1.2	13	1.5	.30
24	.00	.00	.00	.00	.00	.00	.00	1.0	1.2	12	1.4	.30
25	.00	.00	.00	.00	.00	.00	.00	1.0	1.2	11	1.5	.30
26	.00	.00	.00	.00	.00	.00	.00	1.0	1.2	7.3	1.6	.30
27	.00	.00	.00	.00	.00	.00	.00	1.0	1.1	5.2	1.6	.30
28	.00	.00	.00	.00	.00	.00	.00	1.0	1.1	4.8	1.7	.30
29	.00	.00	.00	.00	.00	.00	.00	.90	1.1	2.8	1.6	.30
30	.00	.00	.00	.00	---	.00	.00	.90	1.0	.30	1.4	.20
31	.00	---	.00	.00	---	.00	---	1.0	---	.40	1.4	---
TOTAL	51.90	.00	.00	.00	.00	.00	.00	125.40	72.2	86.80	22.70	130.90
MEAN	1.67	.000	.000	.000	.000	.000	.000	4.05	2.41	2.80	.73	4.36
MAX	13	.00	.00	.00	.00	.00	.00	17	11	13	1.7	16
MIN	.00	.00	.00	.00	.00	.00	.00	.00	1.0	.30	.30	.20
AC-FT	103	.00	.00	.00	.00	.00	.00	249	143	172	45	260

CAL YR 1979 TOTAL 220.70 MEAN .60 MAX 13 MIN .00 AC-FT 438
WTR YR 1980 TOTAL 489.90 MEAN 1.34 MAX 17 MIN .00 AC-FT 972

09307300 PARIETTE DRAW AT THE MOUTH, NEAR OURAY, UTAH

LOCATION.--Lat 40°01'48", long 109°45'23", in NW1/4NW1/4SW1/4 sec.14, T.9 S., R.19 E., Uintah County, Hydrologic Unit 14060005, on right bank 120 ft (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.--Water-discharge records good except those for winter period and period of no gage-height record Feb. 2 to Mar. 12, and Mar. 14 to Apr. 29, which are poor. 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.--5 years, 19.4 ft^3/s (0.549 m^3/s), 14,060 acre-ft/yr (17.3 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 March 29, 1979); no flow July 21-23, August 16, 17, December 25-27, 1976, January 25-27, 1977, July 24-30, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 158 ft^3/s (4.47 m^3/s) Sept. 12, gage height 3.32 ft (1.012 m); minimum, no flow several days in July.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	39	9.0	11	9.5	13	9.5	7.1	24	1.9	3.5	35
2	28	38	10	11	10	13	9.0	9.6	25	3.6	16	34
3	28	41	11	11	11	13	9.0	13	23	15	21	34
4	26	44	12	10	11	14	9.0	13	19	17	15	32
5	25	45	13	10	12	14	9.0	12	16	12	14	34
6	29	45	13	10	12	14	9.0	17	13	11	15	31
7	33	44	13	10	12	14	9.0	17	6.8	13	14	23
8	36	42	13	10	12	14	9.0	15	6.4	16	14	19
9	36	41	13	10	11	14	9.0	21	11	15	11	27
10	34	42	13	9.5	10	14	8.5	20	17	9.7	8.5	42
11	33	39	12	9.5	10	14	8.0	20	19	8.9	7.3	125
12	31	37	11	13	11	13	8.0	19	16	9.4	8.1	154
13	28	38	9.5	14	12	12	8.0	19	12	9.1	8.7	154
14	28	35	10	14	13	11	8.0	18	9.4	7.7	9.0	142
15	30	34	11	14	14	12	8.0	18	7.6	8.2	12	116
16	30	37	11	14	14	11	8.0	18	6.9	11	14	35
17	29	39	12	14	14	10	8.0	18	17	12	17	31
18	28	41	12	14	14	11	8.0	18	20	21	20	59
19	25	38	13	14	15	10	8.0	19	12	17	20	76
20	28	33	13	13	15	10	8.0	20	7.8	9.9	22	83
21	72	31	13	12	15	11	7.5	22	5.7	6.8	28	86
22	102	28	13	12	15	11	7.5	22	5.1	2.4	27	84
23	108	22	13	12	15	17	7.5	23	5.0	.10	22	84
24	98	15	12	11	14	13	7.5	23	4.3	.00	23	79
25	75	17	11	11	13	12	7.5	28	3.9	.00	35	73
26	59	17	11	11	13	11	7.0	31	3.4	.00	65	70
27	49	14	10	11	13	10	6.0	33	2.8	.00	73	67
28	42	12	10	11	13	10	5.0	31	2.4	.00	62	66
29	41	11	11	11	13	9.5	4.7	25	2.3	.00	58	62
30	41	10	11	10	---	9.5	4.8	24	1.9	.00	46	55
31	40	---	11	9.0	---	9.5	---	23	---	.08	37	---
TOTAL	1323	969	360.5	357.0	366.5	374.5	235.0	616.7	325.7	237.78	746.1	2012
MEAN	42.7	32.3	11.6	11.5	12.6	12.1	7.83	19.9	10.9	7.67	24.1	67.1
MAX	108	45	13	14	15	17	9.5	33	25	21	73	154
MIN	25	10	9.0	9.0	9.5	9.5	4.7	7.1	1.9	.00	3.5	19
AC-FT	2620	1920	715	708	727	743	466	1220	646	472	1480	3990

CAL YR 1979 TOTAL 10575.50 MEAN 29.0 MAX 400 MIN 8.0 AC-FT 20980
WTR YR 1980 TOTAL 7923.78 MEAN 21.6 MAX 154 MIN .00 AC-FT 15720

09307290 PARIETTE DRAW AT THE MOUTH NEAR OURAY, UTAH--Continued

Combined discharge, in cubic feet per second, of Pariette Draw at the mouth near Ouray, Utah and Lambs diversion from Pariette Draw near Ouray, Utah, October 1979 to September 1980.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	39	9.0	11	9.5	13	9.5	7.1	25	2.8	3.9	36
2	28	38	10	11	10	13	9.0	9.6	26	4.5	17	35
3	28	41	11	11	11	13	9.0	13	24	16	21	40
4	26	44	12	10	11	14	9.0	13	20	18	15	45
5	25	45	13	10	12	14	9.0	21	17	13	14	47
6	29	45	13	10	12	14	9.0	34	19	12	15	44
7	33	44	13	10	12	14	9.0	34	18	14	14	36
8	36	42	13	10	12	14	9.0	31	17	17	14	32
9	38	41	13	10	11	14	9.0	37	20	16	11	40
10	35	42	13	9.5	10	14	8.5	33	19	10	8.8	56
11	33	39	12	9.5	10	14	8.0	29	21	9.4	7.6	141
12	31	37	11	13	11	13	8.0	28	18	9.9	8.4	161
13	28	38	9.5	14	12	12	8.0	23	14	9.6	9.0	155
14	28	35	10	14	13	11	8.0	19	11	8.1	9.3	143
15	30	34	11	14	14	12	8.0	19	9.3	8.6	12	117
16	30	37	11	14	14	11	8.0	19	9.5	11	14	35
17	29	39	12	14	14	10	8.0	19	19	12	17	31
18	32	41	12	14	14	11	8.0	19	21	21	20	59
19	37	38	13	14	15	10	8.0	20	13	17	20	76
20	40	33	13	13	15	10	8.0	21	9.0	10	22	83
21	85	31	13	12	15	11	7.5	23	6.9	11	29	86
22	110	28	13	12	15	11	7.5	23	6.3	15	29	84
23	108	22	13	12	15	17	7.5	24	6.2	13	24	84
24	98	15	12	11	14	13	7.5	24	5.5	12	24	79
25	75	17	11	11	13	12	7.5	29	5.1	11	37	73
26	59	17	11	11	13	11	7.0	32	4.6	7.3	67	70
27	49	14	10	11	13	10	6.0	34	3.9	5.2	75	67
28	42	12	10	11	13	10	5.0	32	3.5	4.8	64	66
29	41	11	11	11	13	9.5	4.7	26	3.4	2.8	60	62
30	41	10	11	10	---	9.5	4.8	25	2.9	.30	47	55
31	40	---	11	9.0	---	9.5	---	24	---	.48	38	---
TOTAL	1375	969	360.5	357.0	366.5	374.5	235.0	744.7	398.1	322.78	767.0	2138
MEAN	44.4	32.3	11.6	11.5	12.6	12.1	7.83	24.0	13.3	10.4	24.7	71.3
MAX	110	45	13	14	15	17	9.5	37	26	21	75	161
MIN	25	10	9.0	9.0	9.5	9.5	4.7	7.1	2.9	.30	3.9	31
AC-FT	2730	1920	715	708	727	743	466	1480	790	640	1520	4240

CAL YR 1979 TOTAL 10800.50 MEAN 29.6 MAX 400 MIN 8.0 AC-FT 21420
WTR YR 1980 TOTAL 8408.08 MEAN 23.0 MAX 161 MIN .30 AC-FT 16680

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 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)
NOV											
01...	1145	38	2800	8.0	--	5.0	650	370	130	80	480
29...	1425	11	3380	7.8	--	--	740	400	140	96	570
JAN											
10...	1330	9.7	4560	7.7	--	.0	970	530	190	120	830
MAR											
12...	1550	13	4790	8.0	--	6.0	930	640	190	110	800
APR											
29...	1720	5.2	4600	8.0	--	18.0	800	570	140	110	730
MAY											
21...	1700	22	3800	7.7	28.0	21.0	690	460	120	94	680
JUN											
04...	1405	18	2640	7.8	20.5	18.0	570	340	120	66	440
JUL											
09...	1620	13	3400	8.0	35.0	24.5	700	470	140	85	570
AUG											
07...	1615	15	3100	7.8	37.0	24.0	640	420	120	83	530
SEP											
09...	1730	32	2400	8.1	16.0	19.5	580	320	120	67	390

DATE	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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											
01...	61	8.2	5.2	280	1200	92	.6	8.1	2170	2.95	223
29...	78	9.1	4.0	340	1500	110	.6	12	2650	3.60	79.4
JAN											
10...	65	12	4.1	440	2100	160	.7	15	3710	5.05	97.4
MAR											
12...	65	11	6.2	290	2100	190	.6	10	3590	4.88	130
APR											
29...	66	11	5.9	230	1900	170	.8	1.5	3200	4.35	44.9
MAY											
21...	68	11	5.1	230	1700	130	.6	3.0	2870	3.90	170
JUN											
04...	62	8.0	3.4	230	1100	86	.6	4.6	1960	2.67	95.3
JUL											
09...	64	9.4	5.1	230	1500	120	.1	7.4	2570	3.50	91.6
AUG											
07...	64	9.1	5.0	220	1400	100	.8	5.8	2380	3.24	96.4
SEP											
09...	59	7.1	4.9	260	1000	76	.6	7.1	1820	2.48	157

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
NOV		
01...	.81	.000
29...	2.3	.000
JAN		
10...	4.5	.010
MAR		
12...	2.4	.020
APR		
29...	.03	.020
MAY		
21...	.10	.020
JUN		
04...	.08	.020
JUL		
09...	.00	.030
AUG		
07...	.00	.010
SEP		
09...	.11	.030

09307300 PARIETTE DRAW AT MOUTH, NEAR OURAY, UT--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
NOV					
01...	1145	38	5.0	92	9.4
29...	1425	11	--	108	3.2
JAN					
10...	1330	9.7	.0	93	2.4
MAR					
12...	1550	13	6.0	21	.74
APR					
29...	1720	5.2	18.0	31	.44
MAY					
21...	1700	22	21.0	60	3.6
JUN					
04...	1405	18	18.0	346	17
JUL					
09...	1620	13	24.5	47	1.7
AUG					
07...	1615	15	24.0	95	3.8
SEP					
09...	1730	32	19.5	46	4.0

09307500 WILLOW CREEK ABOVE DIVERSIONS, NEAR OURAY, UTAH

LOCATION.--Lat 39°33'59", long 109°35'12", in NE1/4SW1/4SE1/4 sec.29, T.14 S., R.21 E., Uintah County, Uintah and Ouray Indian Reservation, Hydrologic Unit 14060006, on right bank 0.1 mi (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.--24 years (water years 1951-55, 1958-70, 1975-80), 20.6 ft^3/s (0.583 m^3/s), 14,920 acre-ft/yr (18.40 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 the 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), 156 ft^3/s (4.42 m^3/s) May 12, gage height, 3.21 ft (0.978 m); minimum, 3.3 ft^3/s (0.093 m^3/s) Nov.22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	11	12	15	12	25	21	110	99	41	22	20
2	15	13	12	15	13	25	26	97	99	42	22	19
3	15	19	13	15	14	25	22	99	96	41	21	19
4	15	20	14	15	14	25	24	105	90	37	20	19
5	15	17	13	15	15	25	25	112	87	35	20	20
6	15	17	13	15	16	24	27	114	87	33	19	20
7	15	20	12	15	15	25	28	124	85	34	19	20
8	15	19	11	15	13	23	24	98	99	34	19	22
9	15	19	11	15	11	23	26	113	93	34	19	22
10	16	18	11	13	12	22	28	112	92	32	18	29
11	16	16	10	11	13	24	30	116	82	32	18	37
12	15	14	9.5	13	14	25	25	124	73	30	18	25
13	15	12	9.5	16	15	21	24	108	69	30	19	23
14	16	10	9.0	19	16	24	25	79	71	32	20	21
15	16	7.0	10	18	17	26	28	75	66	29	21	20
16	16	5.0	11	17	24	23	28	86	69	26	22	21
17	16	15	12	16	30	18	27	131	72	26	20	20
18	17	25	13	15	40	22	31	122	70	26	19	20
19	17	20	14	14	50	24	37	124	71	25	18	20
20	18	13	15	13	40	24	55	126	69	24	19	20
21	22	9.0	15	13	35	24	76	128	66	24	19	20
22	20	4.5	15	12	30	24	82	130	63	24	19	20
23	19	7.0	15	11	27	24	100	131	58	24	19	21
24	19	12	14	12	23	24	97	133	50	26	29	20
25	18	14	14	13	21	24	97	133	47	25	26	20
26	18	13	14	13	25	23	100	127	45	25	34	20
27	18	12	13	13	28	21	107	120	42	25	24	20
28	18	11	15	14	27	26	108	114	41	23	21	20
29	20	11	15	13	27	20	105	109	40	23	20	20
30	19	11	15	12	---	25	100	101	39	22	19	20
31	14	---	15	11	---	18	---	100	---	22	19	---
TOTAL	518	414.5	395.0	437	637	726	1533	3503	2130	906	642	638
MEAN	16.7	13.8	12.7	14.1	22.0	23.4	51.1	113	71.0	29.2	20.7	21.3
MAX	22	25	15	19	50	26	108	133	99	42	34	37
MIN	14	4.5	9.0	11	11	18	21	75	39	22	18	19
AC-FT	1030	822	783	867	1260	1440	3040	6950	4220	1800	1270	1270

CAL YR 1979 TOTAL 11722.5 MEAN 32.1 MAX 166 MIN 4.5 AC-FT 23250
WTR YR 1980 TOTAL 12479.5 MEAN 34.1 MAX 133 MIN 4.5 AC-FT 24750

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1974 to current year. Prior to 1979 water year, published in "Hydrologic and Climatologic Data" report for Utah.
SEDIMENT DATA: November 1975 to September 1976, November 1978 to September 1979, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT												
12...	1710	15	640	--	--	15.0	--	--	--	--	--	--
NOV												
16...	1315	4.3	740	--	--	.0	--	--	--	--	--	--
DEC												
20...	1015	18	450	--	--	.0	--	--	--	--	--	--
JAN												
23...	1640	9.2	830	--	--	.0	--	--	--	--	--	--
MAR												
07...	1450	23	770	--	--	4.5	--	--	--	--	--	--
APR												
11...	1245	31	698	--	--	3.0	--	--	--	--	--	--
30...	1645	107	600	--	--	8.0	--	--	--	--	--	--
JUN												
05...	1430	88	590	--	--	15.0	--	--	--	--	--	--
05...	1530	91	590	8.1	25.5	15.0	8.0	270	41	64	27	23
JUL												
03...	1200	41	610	--	--	18.0	--	--	--	--	--	--
11...	1215	31	620	--	--	19.0	--	--	--	--	--	--

DATE	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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											
12...	--	--	--	--	--	--	--	--	--	--	--
NOV											
16...	--	--	--	--	--	--	--	--	--	--	--
DEC											
20...	--	--	--	--	--	--	--	--	--	--	--
JAN											
23...	--	--	--	--	--	--	--	--	--	--	--
MAR											
07...	--	--	--	--	--	--	--	--	--	--	--
APR											
11...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
JUN											
05...	--	--	--	--	--	--	--	--	--	--	--
05...	16	.6	1.3	230	86	3.0	.2	1.5	345	.47	84.8
JUL											
03...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS PO4)
JUN			
05...	.23	.010	.03

09307800 HILL CREEK ABOVE TOWAVE RESERVOIR, NEAR OURAY, UTAH

LOCATION.--Lat 39°31'33", long 109°44'02", in NW1/4NE1/4SE1/4 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 of 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.--6 years, 9.66 ft^3/s (0.274 m^3/s), 7,000 acre-ft/yr (8.63 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 (1.113m); maximum gage height, 4.73 ft (1.442 m) Feb. 21, 1978 (backwater from ice); minimum daily discharge, 0.07 ft^3/s (0.002 m^3/s) Aug.10, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 65 ft^3/s (1.84 m^3/s) Apr. 29, gage height, 2.85 ft (0.869 m); minimum, 0.45 ft^3/s (0.013 m^3/s) Nov. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	6.0	4.8	9.4	9.7	12	10	24	46	24	13	9.7
2	7.1	5.5	5.3	8.5	11	12	12	24	46	23	13	9.4
3	6.8	7.1	6.5	8.2	12	12	11	24	44	22	12	9.1
4	7.1	8.0	8.0	9.1	12	13	12	24	43	21	11	9.1
5	7.1	6.5	9.7	9.7	9.1	12	14	25	42	20	11	9.1
6	7.1	7.1	10	9.4	12	12	15	25	40	19	11	9.4
7	7.4	8.8	10	8.5	10	12	13	27	39	19	10	11
8	7.4	9.7	11	9.4	7.7	12	12	30	39	19	10	13
9	7.4	9.7	11	10	8.2	11	13	32	37	19	10	13
10	7.7	8.8	11	9.7	12	12	14	36	37	18	9.7	18
11	7.7	8.0	11	7.4	10	12	13	38	36	18	9.4	18
12	7.8	6.8	7.1	10	11	12	11	39	34	17	9.1	14
13	7.7	5.8	5.8	14	12	11	12	37	33	17	9.1	12
14	7.7	4.5	7.4	19	12	13	13	37	32	17	9.7	11
15	7.7	4.0	8.0	15	13	14	14	39	32	17	12	11
16	8.0	8.5	9.1	12	13	11	14	38	32	16	12	10
17	8.0	8.2	10	11	12	10	15	40	30	16	11	9.7
18	8.2	11	9.1	11	17	12	15	39	30	15	10	9.7
19	8.2	6.8	8.6	10	18	13	16	40	29	15	9.4	9.1
20	9.4	6.5	8.8	8.8	17	13	17	41	28	15	10	8.8
21	11	7.4	9.1	8.2	14	13	19	43	27	14	9.7	8.8
22	9.7	7.1	10	11	13	12	22	47	26	14	9.4	9.1
23	9.4	6.8	8.2	6.8	12	12	25	51	26	14	10	9.4
24	9.4	6.3	8.5	9.1	10	12	24	54	25	14	12	9.4
25	9.1	7.1	10	11	11	11	23	56	24	14	13	9.4
26	9.1	8.0	8.8	8.0	11	10	23	54	23	14	16	9.4
27	8.8	5.5	11	9.7	13	11	23	52	23	14	12	9.1
28	8.8	3.8	10	10	13	12	23	50	22	13	11	9.1
29	10	4.0	7.1	8.8	12	11	23	48	22	13	10	8.8
30	10	4.5	8.2	7.7	---	12	23	47	22	13	9.7	8.8
31	7.7	---	8.5	6.0	---	10	---	46	---	13	9.7	---
TOTAL	255.6	207.8	271.6	306.4	347.7	367	494	1207	969	517	334.9	315.4
MEAN	8.25	6.93	8.76	9.88	12.0	11.8	16.5	38.9	32.3	16.7	10.8	10.5
MAX	11	11	11	19	18	14	25	56	46	24	16	18
MIN	6.8	3.8	4.8	6.0	7.7	10	10	24	22	13	9.1	8.8
AC-FT	507	412	539	608	690	728	980	2390	1920	1030	664	626

CAL YR 1979 TOTAL 5550.9 MEAN 15.2 MAX 98 MIN 3.8 AC-FT 11010
WTR YR 1980 TOTAL 5593.4 MEAN 15.3 MAX 56 MIN 3.8 AC-FT 11090

09307800 HILL CREEK ABOVE TOWAVE RESERVOIR, NEAR OURAY, UTAH--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1974 to current year. Prior to 1979 water year, published in "Hydrologic and Climatologic Data" report for Utah.
SEDIMENT DATA: November 1974 to September 1976, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)
JUN 04...	1530	43	560	8.1	24.5	7.8	270	65	65	25	24

DATE	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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)
JUN 04...	16	.6	1.2	200	110	5.3	.2	17	368	.50	42.9

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS PO4)
JUN 04...	.06	.010	.03

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)
JUN 04...	1530	30	30

09307900 HILL CREEK NEAR MOUTH, NEAR OURAY, UTAH

LOCATION.--Lat 39°52'35", long 109°42'12", in SE1/4SE1/4NW1/4 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.--6 years, 5.18 ft^3/s (0.147 m^3/s), 3,750 acre-ft/yr (4.62 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, 97 ft^3/s (2.75 m^3/s) Sept. 10, gage height, 3.69 ft (1.125 m); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	4.2	.01	2.0	.80	19	13	18	50	14	3.4	.20
2	.00	4.2	.00	2.1	.65	18	12	19	49	16	3.7	.00
3	.00	4.5	.00	2.0	.58	18	12	19	48	16	3.4	.00
4	.00	6.0	.00	2.0	.70	19	12	20	47	14	2.7	.00
5	.00	5.6	.00	2.0	.90	19	12	20	45	13	2.2	.00
6	.00	5.3	.00	2.0	1.2	20	13	21	44	12	1.5	.20
7	.00	5.2	.00	2.0	1.5	22	13	24	42	11	1.1	.79
8	.00	5.0	.00	1.9	1.9	20	13	23	39	11	1.0	.20
9	.00	4.5	.00	1.8	2.3	19	14	26	37	11	.90	2.8
10	.00	4.1	2.0	2.0	3.0	18	14	30	36	10	.50	26
11	.00	3.7	2.5	2.2	3.8	18	13	36	34	9.8	.57	12
12	.00	3.2	3.0	2.4	5.0	19	13	42	33	9.1	.59	8.6
13	.00	2.8	2.6	2.6	5.0	17	13	43	32	8.7	3.5	7.8
14	.00	2.5	2.0	3.0	4.4	17	13	43	32	8.3	8.0	6.6
15	.00	2.2	1.5	3.2	5.2	18	12	44	31	7.8	9.3	5.7
16	.00	2.4	.24	3.1	5.8	17	12	46	32	7.3	5.0	4.8
17	.00	.90	.00	2.9	6.2	15	12	45	16	7.2	1.7	4.3
18	.00	.80	.00	2.8	30	16	12	45	8.3	6.7	1.2	3.8
19	.07	.73	.00	2.6	41	15	12	46	12	6.1	.71	3.6
20	1.6	.65	.00	2.6	50	15	13	46	16	5.2	.87	3.2
21	4.9	.70	.00	2.7	40	16	13	46	18	4.9	1.4	3.1
22	4.7	.60	.00	2.8	33	15	14	55	18	4.6	1.4	2.9
23	4.6	.46	.00	3.0	25	15	15	57	18	4.5	1.4	3.1
24	4.2	.40	2.0	2.6	20	15	16	57	17	5.1	2.0	3.1
25	3.9	.35	2.1	2.2	17	15	17	59	15	5.1	2.4	3.0
26	3.8	.40	2.1	2.4	18	15	16	62	14	4.9	5.5	3.1
27	3.4	.47	2.1	2.2	19	15	16	63	13	4.4	6.9	3.1
28	3.6	.52	2.2	1.7	20	14	16	61	13	4.0	5.0	3.0
29	3.8	.40	2.1	1.4	20	13	17	58	13	3.7	3.8	2.9
30	4.3	.35	2.0	1.2	---	13	17	55	13	3.8	1.1	2.8
31	4.2	---	2.0	1.1	---	12	---	52	---	3.5	.39	---
TOTAL	47.07	73.13	30.45	70.5	381.93	517	410	1281	835.3	252.7	83.13	120.69
MEAN	1.52	2.44	.98	2.27	13.2	16.7	13.7	41.3	27.8	8.15	2.68	4.02
MAX	4.9	6.0	3.0	3.2	50	22	17	63	50	16	9.3	26
MIN	.00	.35	.00	1.1	.58	12	12	18	8.3	3.5	.39	.00
AC-FT	93	145	60	140	758	1030	813	2540	1660	501	165	239

CAL YR 1979 TOTAL 3560.02 MEAN 9.75 MAX 88 MIN .00 AC-FT 7060
WTR YR 1980 TOTAL 4102.90 MEAN 11.2 MAX 63 MIN .00 AC-FT 8140

09307900 HILL CREEK NEAR MOUTH, NEAR OURAY, UTAH—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1975 to current year. Prior to 1979 water year, published in "Hydrologic and Climatologic Data" report for Utah.
SEDIMENT DATA: February 1975 to August 1976, April 1978, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)
NOV 02...	1600	4.2	1050	7.9	8.5	1.0	11.2	38	--
JUN 03...	1600	49	780	8.2	27.0	17.0	7.7	--	330

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)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)
NOV 02...	--	--	--	--	--	--	--	--	.2
JUN 03...	50	66	40	50	25	1.2	2.8	280	--

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)	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 02...	--	--	--	.2	--	--	--	--
JUN 03...	140	7.8	.3	--	16	492	.67	65.1

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS PO4)
NOV 02...	--	.000	.00	.68	.220	.67	.020	--	--
JUN 03...	.10	--	--	--	--	--	--	.010	.03

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)
NOV 02...	1600	10	10	60	--	<1	6	--
JUN 03...	1600	--	--	--	350	--	--	20

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV 02...	0	30	.0	17	1	1100	4.0	10
JUN 03...	--	--	--	--	--	--	--	--

09308000 WILLOW CREEK NEAR OURAY, UTAH

LOCATION.--Lat 39°56'20", long 109°38'52", in NE1/4NW1/4NE1/4 sec.22, T.10 S., R.20 E., Uintah County, Hydrologic Unit 14060006, on left bank 0.3 mi (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. 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.--14 years (water years 1948-55, 1975-80) 25.6 ft^3/s (0.725 m^3/s), 18,550 acre-ft/yr (22.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 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, estimated; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, not determined, probably occurred Feb. 20; minimum, 0.60 ft^3/s (0.017 m^3/s); no flow Aug. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	17	12	16	12	63	40	106	128	34	3.6	12
2	5.3	18	13	16	13	50	43	113	127	37	5.2	12
3	4.8	22	13	16	14	46	46	127	123	44	5.4	10
4	4.9	25	14	16	15	45	44	133	114	37	3.6	7.8
5	4.5	24	14	16	15	43	46	131	109	33	3.1	9.1
6	4.9	21	13	16	16	42	46	132	101	31	2.3	7.1
7	6.0	21	13	16	17	48	46	125	100	27	1.6	6.4
8	6.7	23	12	16	15	56	46	150	99	27	1.2	17
9	6.5	22	11	16	12	48	46	168	93	25	1.0	21
10	8.9	21	11	16	12	45	47	169	86	25	.82	123
11	9.5	20	10	13	14	43	46	165	82	23	.81	371
12	8.8	16	9.8	15	16	47	46	186	78	21	2.1	211
13	9.1	20	9.3	17	19	45	45	178	71	19	3.2	34
14	7.8	17	8.9	20	22	42	45	167	62	17	12	30
15	7.3	19	9.9	19	26	42	47	165	59	19	15	27
16	8.3	18	12	18	31	44	46	154	58	18	14	26
17	7.1	17	13	17	40	41	46	146	50	17	7.2	22
18	8.7	21	14	16	160	39	52	147	39	14	4.4	20
19	9.1	24	15	15	280	42	53	148	41	13	4.5	18
20	15	18	16	14	500	42	60	136	44	13	5.3	17
21	19	18	16	13	350	43	67	139	46	8.3	5.0	18
22	22	10	15	13	250	43	72	142	44	5.3	3.6	20
23	20	13	15	13	148	46	83	147	42	6.0	4.0	21
24	19	14	15	13	104	44	91	149	41	5.4	5.5	20
25	19	14	14	13	80	46	80	149	38	5.4	16	19
26	19	14	13	13	82	46	84	158	37	5.2	22	19
27	19	12	15	14	66	44	90	160	36	4.9	30	19
28	19	12	17	15	65	45	105	148	34	4.3	21	19
29	19	11	17	13	65	49	98	145	31	3.8	17	19
30	22	12	16	12	---	43	99	136	30	3.8	13	19
31	20	---	16	11	---	45	---	137	---	3.7	11	---
TOTAL	365.0	534	412.9	467	2459	1407	1805	4556	2043	550.1	244.43	1194.4
MEAN	11.8	17.8	13.3	15.1	84.8	45.4	60.2	147	68.1	17.7	7.88	39.8
MAX	22	25	17	20	500	63	105	186	128	44	30	371
MIN	4.5	10	8.9	11	12	39	40	106	30	3.7	.81	6.4
AC-FT	724	1060	819	926	4880	2790	3580	9040	4050	1090	485	2370

CAL YR 1979 TOTAL 12818.30 MEAN 35.1 MAX 234 MIN .64 AC-FT 25430
WTR YR 1980 TOTAL 16037.83 MEAN 43.8 MAX 500 MIN .81 AC-FT 31810

09308000 WILLOW CREEK NEAR OURAY, UTAH--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°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, 15,400 mg/L May 8; minimum daily, 312 mg/L.
SEDIMENT LOADS: Maximum daily 8,500 tons (7,700 tonnes) Feb. 20; minimum daily, 1.5 tons (1.4 tonnes) Aug. 7.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	NITRO-GEN, DIS-SOLVED (MG/L AS N)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)
MAY									
20...	0900	140	820	8.3	12.0	1300	.88	120	320

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)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)
MAY									
20...	64	65	39	71	32	1.7	3.0	370	.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)	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)
MAY									
20...	180	7.8	.4	.1	15	567	540	.77	214

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA 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)
MAY								
20...	.33	.31	.030	.000	.04	.00	3.9	.57

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
MAY								
20...	3.9	3.3	.57	4.2	19	2.200	6.7	.030

09308000 WILLOW CREEK NEAR OURAY, UTAH--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 (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)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)
MAY 20...	0900	78000	78000	40	31	28	3	2800	2700	60	2	1

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	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)
MAY 20...	1	170	170	28	<3	210	210	3	150000	150000	10

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	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)
MAY 20...	88	86	2	510	490	20	4700	4700	2	.1	.1

DATE	MERCURY DISSOLVED (UG/L AS HG)	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)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
MAY 20...	.0	3	2	1	0	0	0	820	13	510	<3

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1		5.3		92		58		63		32		451
2		6.0		95		64		55		39		335
3		5.1		125		65		54		41		318
4		5.3		147		67		49		43		309
5		4.8		137		66		47		45		293
6		5.4		110		59		51		65		286
7		6.5		103		58		50		60		337
8		7.3		109		53		52		42		414
9		7.5		100		46		49		35		347
10		11		95		46		48		33		307
11		12		91		41		34		39		289
12		11		75		39		38		46		315
13		11		96		35		47		72		303
14		9.5		84		33		56		88		281
15		9.1		92		36		71		90		286
16		10		85		37		67		126		293
17		8.7		77		36		60		241		271
18		11		99		34		54		1390		256
19		12		115		35		50		3540		274
20		85		84		36		49		8500		271
21		143		85		35		44		4940		279
22		86		43		39		46		2710		280
23		62		58		34		44		1250		303
24		46		61		34		45		792		290
25		42		64		33		42		639		306
26		49		67		39		43		684		308
27		55		62		44		46		536		297
28		62		60		56		51		477		306
29		70		55		62		43		469		334
30		108		55		63		40				287
31		109				64		33				327
TOTAL		1075.5		2621		1447		1521		27064		9553

09308000 WILLOW CREEK NEAR OURAY, UTAH--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	---	289	9400	2690	7000	2420	2080	191	400	3.9	800	26
2	---	318	9140	2790	6250	2140	1840	184	790	11	780	25
3	---	340	9320	3200	5450	1810	4550	541	484	7.1	810	22
4	---	308	10200	3660	7200	2220	2050	205	354	3.4	800	17
5	---	322	9900	3500	6500	1910	1520	135	332	2.8	880	22
6	---	315	11400	4060	5780	1580	1290	108	312	1.9	850	16
7	---	315	11300	3810	5590	1510	1120	82	350	1.5	825	14
8	---	312	15400	6240	5420	1450	1220	89	768	2.5	1120	51
9	---	309	13600	6170	5450	1370	1180	80	912	2.5	1050	60
10	---	332	12600	5750	5220	1210	1060	72	1110	2.5	1400	465
11	---	324	12100	5390	4870	1080	1110	69	1190	2.6	3520	3530
12	---	416	11400	5730	4360	918	1410	80	786	4.5	3200	1820
13	---	371	11800	5670	4110	788	1310	67	564	4.9	1840	169
14	---	383	10100	4550	6120	1020	946	43	2410	78	1230	100
15	---	377	9500	4230	5780	921	1180	61	3720	151	990	72
16	3000	373	12000	4990	4300	673	1170	57	2700	102	927	65
17	4550	565	9750	3840	3880	524	1360	62	572	11	832	49
18	4600	646	9350	3710	2920	307	638	24	446	5.3	680	37
19	4590	657	8590	3430	3300	365	660	23	462	5.6	616	30
20	7150	1160	9400	3450	3530	419	858	30	539	7.7	532	24
21	8220	1490	9350	3510	3220	400	418	9.4	1010	14	576	28
22	10100	1960	8600	3300	3210	381	1680	24	446	4.3	528	29
23	9200	2060	8880	3520	2540	288	804	13	385	4.2	688	39
24	11400	2800	8600	3460	2900	321	864	13	594	8.8	604	33
25	13100	2830	6680	2690	2900	298	1370	20	2530	109	608	31
26	9400	2130	7650	3260	2700	270	708	9.9	7540	448	580	30
27	11200	2720	7750	3350	2900	282	571	7.6	6000	486	574	29
28	10600	3010	7380	2950	2550	234	529	6.1	3140	178	416	21
29	8650	2290	8450	3310	2370	198	408	4.2	1320	61	399	20
30	9720	2600	8500	3120	2080	168	372	3.8	880	31	462	24
31	---	---	8150	3010	---	---	491	4.9	760	23	---	---
TOTAL	---	32322	---	122340	---	27475	---	2318.9	---	1779.0	---	6898

TOTAL LOAD FOR YEAR: 236414.4 TONS.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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												
02...	1230	22	.0	1870	111	20	30	72	96	98	100	--
JAN												
25...	1200	13	.0	1040	37	34	45	78	98	99	100	--
MAR												
28...	1230	41	--	2260	250	23	33	60	85	92	99	100
APR												
16...	1430	52	--	2920	410	23	34	63	90	97	100	--
MAY												
01...	1500	103	11.5	9150	2550	20	29	55	87	95	99	100
20...	0900	140	12.0	10300	3890	18	26	49	79	90	98	100
JUN												
03...	1300	118	18.5	5300	1690	21	28	52	82	94	100	--
JUL												
11...	1400	24	25.0	878	57	30	48	79	98	100	--	--
AUG												
26...	1500	22	--	4800	285	32	49	85	99	100	--	--
SEP												
19...	1415	18	14.5	60	2.9	48	60	79	98	100	--	--

09308500 MINNIE MAUD CREEK NEAR MYTON, UTAH

LOCATION.--Lat 39°47'55", long 110°33'55", in SW1/4 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 except those for winter period and period of no gage-height record, Apr. 26 to May 29, which are poor. No diversion above station.

AVERAGE DISCHARGE.--28 years, 5.12 ft^3/s (0.145 m^3/s), 3,710 acre-ft/yr (4.57 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.--Peak discharge above base of 90 ft^3/s (2.55 m^3/s), and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage Height (ft)	Gage Height (m)
May 23	-	144	4.08	7.70	2.347
Sept. 10	0900	*247	7.00	8.25	2.515

Minimum, 0.15 ft^3/s (0.005 m^3/s) Apr. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.2	.92	.78	.58	.70	.73	8.1	50	11	5.9	3.4
2	1.4	1.3	.95	.76	.52	.67	.75	8.1	50	11	5.7	3.1
3	1.5	1.3	.96	.80	.53	.65	.76	9.0	51	10	5.9	3.1
4	1.5	1.4	1.0	.83	.55	.70	.78	10	52	10	5.2	2.8
5	1.5	1.5	.95	.83	.50	.70	.80	12	57	10	4.6	2.8
6	1.4	1.5	.91	.82	.46	.68	.83	13	63	9.7	4.6	2.8
7	1.4	1.4	.94	.80	.42	.70	.85	12	63	9.4	4.9	4.3
8	1.4	1.5	.96	.82	.40	.75	.87	15	58	9.8	4.0	5.6
9	1.4	1.4	.95	.81	.43	.73	.88	18	50	8.7	3.4	6.6
10	1.4	1.3	.94	.82	.45	.77	.90	23	45	8.5	3.2	13
11	1.5	1.2	.94	.80	.50	.75	.93	21	39	8.2	3.2	4.3
12	1.5	1.4	.85	.86	.50	.73	.95	19	25	7.9	3.2	4.3
13	1.5	1.6	.78	.88	.47	.76	1.0	17	22	7.6	3.1	3.4
14	1.5	1.8	.81	.87	.46	.80	1.7	19	21	7.5	3.5	3.7
15	1.5	1.9	.85	.83	.50	.78	2.3	20	21	7.4	4.2	4.0
16	1.5	1.9	.84	.82	.57	.76	2.7	23	20	7.2	3.8	3.1
17	1.5	1.8	.80	.83	.65	.76	3.0	27	19	6.6	3.4	1.6
18	1.5	1.7	.80	.82	.63	.77	4.3	25	18	6.7	3.1	1.5
19	1.5	1.5	.77	.80	.66	.78	5.7	35	15	6.4	3.1	1.6
20	2.0	1.3	.78	.76	.64	.81	5.4	55	15	6.3	3.1	1.9
21	1.5	1.4	.75	.78	.62	.79	5.0	75	14	6.0	2.9	1.9
22	1.5	1.4	.75	.75	.65	.77	4.6	78	14	6.2	2.7	1.6
23	1.6	1.5	.72	.76	.62	.80	4.2	80	13	6.2	2.8	1.6
24	1.7	1.6	.72	.77	.61	.76	4.0	75	13	6.1	2.9	1.9
25	1.6	1.5	.73	.77	.65	.73	4.4	62	12	5.8	7.6	3.1
26	1.5	1.5	.72	.75	.71	.76	5.5	56	12	6.0	5.9	3.2
27	1.4	1.0	.72	.75	.71	.78	7.5	54	11	6.0	4.6	3.9
28	1.4	.90	.72	.72	.71	.78	8.5	52	11	5.9	3.7	3.0
29	1.3	.91	.68	.73	.68	.83	9.0	50	11	5.8	3.4	1.8
30	1.2	.93	.75	.63	---	.77	8.2	50	11	6.0	3.4	4.0
31	1.1	---	.74	.55	---	.73	---	49	---	6.0	3.4	---
TOTAL	45.7	42.54	25.70	24.30	16.38	23.25	97.03	1070.2	876	235.9	124.4	102.9
MEAN	1.47	1.42	.83	.78	.56	.75	3.23	34.5	29.2	7.61	4.01	3.43
MAX	2.0	1.9	1.0	.88	.71	.83	9.0	80	63	11	7.6	13
MIN	1.1	.90	.68	.55	.40	.65	.73	8.1	11	5.8	2.7	1.5
AC-FT	91	84	51	48	32	46	192	2120	1740	468	247	204

CAL YR 1979 TOTAL 3520.61 MEAN 9.65 MAX 117 MIN .00 AC-FT 6980
WTR YR 1980 TOTAL 2684.30 MEAN 7.33 MAX 80 MIN .40 AC-FT 5320

09309600 FAIRVIEW TUNNEL NEAR FAIRVIEW, UTAH
(Transmountain diversion)

LOCATION.--Lat 39°40'03", long 111°18'41", in NW1/4NW1/4NE1/4 sec.25, T.13 S., R.5 E., Sanpete County, Hydrologic Unit 14060007, on right bank 1,000 ft (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, 30 ft^3/s (0.85 m^3/s) July 8, gage height, 1.20 ft (0.366 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	15	18	14
2									---	13	18	13
3									---	11	18	13
4									---	8.6	16	13
5									---	12	18	12
6									---	17	18	12
7									---	20	18	14
8									---	21	17	12
9									---	25	17	9.0
10									---	18	17	---
11									---	15	17	---
12									---	8.6	16	---
13									---	11	17	---
14									---	14	17	---
15									---	14	16	---
16									---	14	16	---
17									7.0	14	16	---
18									22	15	16	---
19									21	14	16	---
20									16	15	16	---
21									8.9	15	17	---
22									5.2	15	16	---
23									5.4	16	16	---
24									12	16	16	---
25									17	19	15	---
26									18	18	15	---
27									18	17	14	---
28									19	18	14	---
29									19	18	13	---
30									16	19	13	---
31									---	18	13	---
TOTAL									---	484.2	500	---
MEAN									---	15.6	16.1	---
MAX									---	25	18	---
MIN									---	8.6	13	---
AC-FT									---	960	992	---

09310000 GOOSEBERRY CREEK NEAR SCOFIELD, UTAH

LOCATION.--Lat 39°42'57", long 111°17'58", in NW1/4SE1/4SW1/4 sec.6, T.13 S., R.6 E., Sanpete County, Hydrologic Unit 14060007, on left bank 300 ft (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.--41 years, 18.4 ft^3/s (0.521 m^3/s), 13,330 acre-ft/yr (16.4 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, 230 ft^3/s (6.51 m^3/s) May 23, gage height, 2.77 ft (0.844 m); minimum daily, 2.8 ft^3/s (0.079 m^3/s) Oct. 16, 17, Nov. 15-17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	3.5	3.2	3.5	3.5	3.5	3.5	47	173	34	8.3	5.7
2	3.2	3.5	3.5	3.5	3.5	3.5	3.5	49	176	33	7.9	5.7
3	3.2	3.5	3.5	3.5	3.5	3.5	3.5	60	184	30	7.9	5.7
4	3.2	3.5	3.5	3.5	3.5	3.5	3.5	68	191	27	7.6	5.7
5	3.2	3.5	3.5	3.5	3.5	3.5	3.5	70	204	25	7.4	5.7
6	3.2	3.5	3.5	3.5	3.5	3.5	3.6	105	204	24	7.3	5.7
7	3.2	3.5	3.5	3.5	3.5	3.5	3.7	128	193	24	6.8	5.7
8	3.2	3.5	3.5	3.5	3.5	3.5	3.9	114	191	24	6.8	9.8
9	3.2	3.5	3.5	3.5	3.5	3.5	4.1	125	188	23	6.8	12
10	3.2	3.5	3.5	3.5	3.5	3.5	4.4	112	184	22	6.8	12
11	3.2	3.5	3.5	3.5	3.5	3.5	4.7	81	180	21	6.8	10
12	3.2	3.2	3.5	3.5	3.5	3.5	5.1	67	167	20	6.8	8.5
13	3.2	3.2	3.5	3.5	3.5	3.5	5.8	58	157	18	6.8	7.0
14	3.2	3.0	3.5	3.5	3.5	3.5	6.8	58	163	18	7.9	6.0
15	3.2	2.8	3.5	3.5	3.5	3.5	8.2	60	165	16	8.3	5.5
16	2.8	2.8	3.5	3.5	3.5	3.5	10	63	161	14	7.9	5.0
17	2.8	2.8	3.5	3.5	3.5	3.5	13	66	152	14	7.6	4.8
18	3.0	3.5	3.5	3.5	3.5	3.5	17	60	133	14	7.2	4.4
19	3.6	3.5	3.5	3.5	3.5	3.5	20	77	120	13	6.8	4.4
20	6.0	3.5	3.5	3.5	3.5	3.5	22	110	115	12	6.8	4.1
21	6.5	3.5	3.5	3.5	3.5	3.5	22	143	100	12	6.8	4.1
22	5.0	3.5	3.5	3.5	3.5	3.5	21	177	75	11	6.8	4.1
23	4.4	3.5	3.5	3.5	3.5	3.5	20	211	61	11	6.4	4.1
24	4.4	3.5	3.5	3.5	3.5	3.5	20	199	53	10	6.8	4.1
25	4.4	3.5	3.5	3.5	3.5	3.5	27	149	49	10	6.8	4.1
26	4.4	3.5	3.5	3.5	3.5	3.5	33	126	44	9.0	6.8	4.1
27	4.4	3.5	3.5	3.5	3.5	3.5	38	125	41	8.7	6.8	4.1
28	4.4	3.5	3.5	3.5	3.5	3.5	44	141	38	8.7	6.4	4.1
29	4.1	3.2	3.5	3.5	3.5	3.5	52	156	36	8.3	6.1	4.1
30	3.8	3.5	3.5	3.5	---	3.5	50	164	34	8.7	5.7	4.1
31	3.6	---	3.5	3.5	---	3.5	---	174	---	8.3	5.7	---
TOTAL	115.6	101.5	108.2	108.5	101.5	108.5	476.8	3343	3932	531.7	217.6	174.4
MEAN	3.73	3.38	3.49	3.50	3.50	3.50	15.9	108	131	17.2	7.02	5.81
MAX	6.5	3.5	3.5	3.5	3.5	3.5	52	211	204	34	8.3	12
MIN	2.8	2.8	3.2	3.5	3.5	3.5	3.5	47	34	8.3	5.7	4.1
AC-FT	229	201	215	215	201	215	946	6630	7800	1050	432	346

CAL YR 1979 TOTAL 6094.6 MEAN 16.7 MAX 202 MIN 2.8 AC-FT 12090
WTR YR 1980 TOTAL 9319.3 MEAN 25.5 MAX 211 MIN 2.8 AC-FT 18480

09310500 FISH CREEK ABOVE RESERVOIR NEAR SCOFIELD, UTAH

LOCATION.--Lat 39°46'28", long 111°11'25", in NW1/4SW1/4 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 the period October 20 to May 28, which are poor. Small transmountain diversions in headwaters for irrigation in Sevier Lake basin and one diversion for irrigation above station.

AVERAGE DISCHARGE.--42 years (1938-80), 47.2 ft^3/s (1.337 m^3/s), 34,200 acre-ft/yr (42.2 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.--Peak discharge above base of 270 ft^3/s (7.65 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 23	Unknown	*997	28.2	4.58	1.396
June 6	0100	754	21.4	4.11	1.253

Minimum daily discharge, 7.1 ft^3/s (0.201 m^3/s), for several days in October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	8.7	9.0	9.6	9.7	10	9.5	169	541	81	22	15
2	7.4	8.9	9.3	9.4	9.8	9.8	10	179	521	80	22	15
3	7.1	8.9	9.9	9.5	9.8	9.6	10	214	549	74	22	15
4	7.1	9.0	11	9.7	10	9.9	10	222	594	69	22	15
5	7.1	9.3	10	9.7	10	9.7	10	290	659	67	20	15
6	7.1	9.3	9.6	9.6	10	9.7	11	400	664	63	20	15
7	7.1	9.2	9.8	9.4	10	9.7	12	560	574	59	19	15
8	7.3	9.3	10	9.5	9.8	9.8	15	480	545	61	18	21
9	7.5	9.0	9.9	9.4	9.8	9.6	17	530	521	58	18	23
10	7.5	8.9	9.8	9.5	10	9.8	21	560	493	56	18	22
11	7.4	8.7	9.8	9.4	10	9.7	30	425	461	52	17	21
12	7.1	9.2	9.2	9.7	10	9.6	37	360	409	47	16	20
13	7.1	9.6	9.0	9.9	10	9.7	50	310	357	45	16	19
14	7.1	9.8	9.7	9.9	9.8	9.9	60	330	340	46	17	18
15	7.1	10	10	9.8	10	9.8	75	360	322	41	18	17
16	7.3	9.8	9.8	9.5	10	9.6	90	410	298	38	18	17
17	7.5	9.6	9.6	9.6	10	9.6	105	440	271	36	17	16
18	7.8	9.4	9.7	9.5	9.7	9.7	120	405	246	33	16	15
19	8.7	9.0	9.6	9.4	9.8	9.7	130	480	222	32	16	15
20	10	9.0	10	9.2	9.8	9.9	125	550	206	30	16	14
21	9.5	9.0	9.6	9.3	9.7	9.8	115	650	186	28	16	14
22	9.6	9.0	9.7	9.2	9.8	9.8	105	800	155	27	15	14
23	9.7	9.2	9.5	9.5	9.7	9.8	100	950	137	26	15	14
24	9.8	9.4	9.4	9.7	9.5	9.5	94	910	125	27	16	13
25	10	9.3	9.7	9.7	9.7	9.3	111	750	113	26	17	13
26	10	9.4	9.6	9.6	9.8	9.5	139	570	103	25	18	13
27	9.7	8.9	9.6	9.6	9.8	9.6	149	450	98	24	16	13
28	9.3	8.8	9.6	9.5	9.8	9.6	166	470	92	24	16	12
29	9.1	8.8	9.4	9.6	9.8	9.8	199	483	86	22	16	12
30	9.0	9.0	9.5	9.2	---	9.5	186	509	81	23	16	12
31	8.9	---	9.4	9.0	---	9.5	---	541	---	22	16	---
TOTAL	254.3	275.4	299.7	295.1	285.6	300.5	2311.5	14757	9969	1342	545	473
MEAN	8.20	9.18	9.67	9.52	9.85	9.69	77.1	476	332	43.3	17.6	15.8
MAX	10	10	11	9.9	10	10	199	950	664	81	22	23
MIN	7.1	8.7	9.0	9.0	9.5	9.3	9.5	169	81	22	15	12
AC-FT	504	546	594	585	566	596	4580	29270	19770	2660	1080	938

CAL YR 1979 TOTAL 17998.2 MEAN 49.3 MAX 664 MIN 2.6 AC-FT 35700
WTR YR 1980 TOTAL 31108.1 MEAN 85.0 MAX 950 MIN 7.1 AC-FT 61700

09310600 ECCLES CANYON NEAR SCOFIELD, UTAH

LOCATION.--Lat 39°41'07", long 111°09'22", in NW1/4SW1/4SE1/4 sec.17, T.13 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on left bank about 0.4 mi (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 September 1980.

GAGE.--Water-stage recorder. Altitude of gage is 7,980 ft (2,432 m) from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 46 ft^3/s (1.30 m^3/s) June 11, gage height, 1.26 ft (0.384m); minimum daily, 0.62 ft^3/s (0.018 m^3/s) Jan. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.0	.96	.79	.92	.90	1.0	5.3	19	5.3	2.0	2.0
2	1.0	1.0	.96	.79	.92	.92	1.0	5.0	18	5.3	1.8	2.0
3	1.0	1.0	.96	.79	.92	.92	.89	5.3	22	5.0	2.0	1.8
4	1.1	1.0	.96	.80	.91	.92	1.0	6.0	26	5.0	1.8	1.7
5	1.2	1.1	.96	.80	.90	.92	1.1	7.7	31	4.6	1.7	1.8
6	1.1	1.0	.96	.80	.89	.92	1.1	11	30	4.6	2.0	1.7
7	1.0	1.0	.96	.80	.90	.92	1.0	9.1	30	4.6	2.0	2.2
8	1.0	1.1	.96	.80	.91	.92	1.1	9.1	30	4.3	1.8	2.7
9	.98	1.1	.96	.72	.92	.92	1.2	12	30	4.1	1.8	2.5
10	.96	1.0	.96	.62	.92	.93	1.2	11	29	4.1	2.0	2.5
11	.96	1.0	.95	.70	.92	.94	1.1	8.7	32	3.6	1.8	2.0
12	.96	1.0	.95	.80	.92	.96	1.1	7.7	35	3.6	1.9	2.0
13	.96	1.0	.94	.90	.92	.99	1.2	7.4	32	3.4	2.0	1.5
14	.96	1.0	.93	.96	.92	1.0	1.7	7.0	31	3.4	2.0	1.5
15	.98	1.0	.93	.94	.92	1.1	1.8	6.7	27	2.9	1.8	1.5
16	1.0	1.0	.92	.89	.92	1.1	2.0	6.3	25	2.9	1.8	1.8
17	1.0	1.0	.91	.89	.91	1.1	2.7	6.0	23	3.2	1.7	1.7
18	1.1	.99	.89	.79	.90	1.1	3.4	5.7	22	2.7	1.7	1.7
19	1.4	.99	.89	.79	.90	1.2	5.0	7.7	21	2.7	1.7	1.7
20	2.3	.97	.89	.70	.89	1.2	4.6	11	19	2.7	1.5	1.7
21	1.7	.96	.89	.89	.89	1.1	3.8	18	17	2.5	1.7	1.5
22	1.4	.96	.89	.79	.89	1.0	4.3	24	15	2.2	1.8	1.7
23	1.3	.96	.89	.79	.89	1.0	4.3	25	14	1.8	1.8	1.8
24	1.2	.96	.89	.89	.89	1.0	4.3	24	12	2.0	1.8	1.8
25	1.2	.96	.89	.89	.89	.89	6.3	18	10	1.8	2.2	2.0
26	1.1	.96	.89	.89	.90	1.0	5.7	14	8.7	1.8	2.0	1.7
27	1.1	.96	.89	.89	.90	1.0	6.0	13	8.2	2.0	2.0	1.5
28	1.1	.96	.89	.89	.90	1.0	7.4	14	7.4	1.8	1.7	1.5
29	1.0	.96	.89	.89	.90	1.0	7.0	16	6.7	2.0	1.7	1.7
30	1.0	.96	.79	.90	---	1.0	6.0	17	6.0	1.8	2.0	1.5
31	1.0	---	.79	.91	---	1.0	---	18	---	2.2	1.8	---
TOTAL	35.06	29.85	28.39	25.69	26.28	30.87	90.29	356.7	637.0	99.9	57.3	54.7
MEAN	1.13	1.00	.92	.83	.91	1.00	3.01	11.5	21.2	3.22	1.85	1.82
MAX	2.3	1.1	.96	.96	.92	1.2	7.4	25	35	5.3	2.2	2.7
MIN	.96	.96	.79	.62	.89	.89	.89	5.0	6.0	1.8	1.5	1.5
AC-FT	70	59	56	51	52	61	179	708	1260	198	114	108

WTR YR 1980 TOTAL 1472.03 MEAN 4.02 MAX 35 MIN .62 AC-FT 2920

09310600 ECCLES CANYON NEAR SCOFIELD, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1979 to September 1980.
SEDIMENT DATA: December 1979 to September 1980.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT												
12...	1315	.96	500	8.5	21.0	7.0	9.6	--	--	--	320	82
NOV												
09...	0940	.95	550	8.0	.0	3.0	9.7	--	--	--	310	39
DEC												
12...	1230	1.0	560	8.1	-10.0	1.0	10.3	.41	K1	K15	310	72
JAN												
15...	1400	1.0	520	8.0	3.0	3.0	9.9	--	--	--	280	34
FEB												
05...	1545	1.0	550	8.2	-1.0	2.0	9.8	--	--	--	310	47
MAR												
04...	1200	.82	570	8.0	2.0	3.0	9.6	.16	K1	48	290	36
APR												
08...	1240	1.1	560	8.1	4.0	3.0	10.0	--	--	--	300	21
23...	1510	4.2	510	--	--	6.0	--	1.8	--	--	260	56
MAY												
08...	1700	16	320	--	--	4.5	--	2.4	--	--	170	30
21...	1515	21	330	8.3	22.0	5.0	9.6	--	--	--	170	6
22...	1945	29	285	--	--	--	--	3.4	--	--	150	16
JUN												
26...	1345	8.3	365	8.6	24.5	12.0	8.1	.67	K1	150	200	21
JUL												
10...	1400	4.0	430	8.6	31.0	11.5	8.3	--	--	--	220	10
16...	1405	2.9	465	--	--	14.5	--	.91	--	--	250	28
AUG												
15...	1330	1.8	500	8.5	23.0	12.0	8.2	--	--	--	260	58
18...	1440	1.3	490	--	--	12.0	--	.24	--	--	270	51
SEP												
17...	1515	1.7	530	8.4	20.0	8.0	9.1	--	20	450	280	43
19...	1535	2.3	500	7.9	18.0	10.0	7.8	--	--	--	280	59

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT												
12...	81	29	3.7	2	.1	6.3	2.6	290	0	240	1.5	94
NOV												
09...	79	27	4.1	4	.1	6.3	2.2	330	0	270	5.3	44
DEC												
12...	79	27	4.8	5	.1	7.2	2.4	290	0	240	3.7	43
JAN												
15...	74	24	3.5	3	.1	5.8	2.3	300	0	250	4.8	39
FEB												
05...	77	28	3.5	2	.1	5.8	2.3	320	0	260	3.2	42
MAR												
04...	73	25	9.0	6	.2	11	2.1	310	0	250	5.0	40
APR												
08...	77	26	5.7	4	.1	--	2.3	340	0	280	4.3	45
23...	71	19	6.9	6	.2	--	2.1	--	--	200	--	35
MAY												
08...	50	11	2.8	3	.1	--	1.3	--	--	140	--	16
21...	50	11	2.6	3	.1	--	1.3	200	0	170	1.6	16
22...	43	9.4	2.7	4	.1	--	1.3	--	--	130	--	13
JUN												
26...	57	13	2.5	3	.1	--	1.1	210	4	180	.9	19
JUL												
10...	62	17	3.0	3	.1	--	1.6	240	8	210	1.0	33
16...	68	19	9.5	8	.3	--	1.8	--	--	220	--	25
AUG												
15...	67	22	3.8	3	.1	--	2.1	280	4	240	1.5	37
18...	69	24	4.0	3	.1	--	1.9	--	--	220	--	36
SEP												
17...	72	25	3.7	3	.1	--	2.3	330	2	280	1.9	36
19...	69	26	4.0	3	.1	--	2.7	--	0	300	--	41

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

09310600 ECCLES CANYON NEAR SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)
OCT											
12...	4.6	--	6.2	364	.50	.94	--	--	--	--	--
NOV											
09...	4.5	--	6.3	330	.45	.85	--	--	--	--	--
DEC											
12...	4.5	.2	7.0	312	.42	.88	--	.14	.62	--	.000
JAN											
15...	4.7	--	6.5	302	.41	.85	--	--	--	--	--
FEB											
05...	4.8	--	6.8	322	.44	.87	--	--	--	--	--
MAR											
04...	15	.2	6.8	325	.44	.72	--	.16	.71	--	.000
APR											
08...	12	--	7.4	343	.47	.97	--	--	--	--	--
23...	15	.2	7.0	280	.38	3.18	.72	.76	3.4	.020	.020
MAY											
08...	3.9	.1	5.3	180	.24	7.78	1.2	1.2	5.3	.010	.010
21...	3.8	--	5.5	189	.26	10.7	--	--	--	--	--
22...	3.2	.2	5.1	161	.22	12.8	1.2	1.2	5.3	.020	.010
JUN											
26...	2.0	.1	5.7	209	.28	4.68	--	.20	.89	--	.010
JUL											
10...	4.6	--	5.5	253	.34	2.75	--	--	--	--	--
16...	7.9	.3	5.8	271	.37	2.12	.17	.19	.84	.010	.010
AUG											
15...	10	--	6.7	273	.37	1.33	--	--	--	--	--
18...	5.5	.2	10	283	.38	.99	.01	.00	.00	.000	.000
SEP											
17...	4.4	.2	7.2	295	.40	1.35	--	--	--	--	--
19...	6.5	--	7.0	288	.39	1.75	--	--	--	--	--

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA 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)
OCT											
12...	--	--	--	--	--	--	--	--	--	--	--
NOV											
09...	--	--	--	--	--	--	--	--	--	--	--
DEC											
12...	.00	--	.14	--	.040	--	.05	--	.23	.36	.09
JAN											
15...	--	--	--	--	--	--	--	--	--	--	--
FEB											
05...	--	--	--	--	--	--	--	--	--	--	--
MAR											
04...	.00	--	.16	--	.000	--	.00	--	.00	.35	.35
APR											
08...	--	--	--	--	--	--	--	--	--	--	--
23...	.07	.74	.78	.050	.070	.06	.09	3.1	.93	3.1	2.1
MAY											
08...	.03	1.2	1.2	.030	.010	.04	.01	1.3	1.2	1.3	.10
21...	--	--	--	--	--	--	--	--	--	--	--
22...	.03	1.2	1.2	.070	.010	.08	.01	20	2.2	20	18
JUN											
26...	.03	--	.21	--	.030	--	.04	--	.43	.64	.18
JUL											
10...	--	--	--	--	--	--	--	--	--	--	--
16...	.03	.18	.20	.030	.030	.04	.04	.93	.68	.96	.25
AUG											
15...	--	--	--	--	--	--	--	--	--	--	--
18...	.00	.01	.00	.030	.020	.04	.03	.30	.22	.33	.09
SEP											
17...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--

09310600 ECCLES CANYON NEAR SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE TOTAL (MG/L AS PO4)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE TOTAL (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)
DEC										
12...	.27	--	--	.010	--	.03	--	--	.010	.03
MAR										
04...	.00	--	--	.070	--	.21	--	--	.010	.03
APR										
23...	1.0	3.8	17	1.600	1.0	4.9	.050	.330	.100	.31
MAY										
08...	1.2	2.5	11	.400	.15	1.2	.030	.050	.020	.06
22...	2.2	21	94	4.300	.46	13	.040	.150	.040	.12
JUN										
26...	.46	--	--	.390	--	1.2	--	--	.010	.03
JUL										
16...	.71	1.1	5.0	.040	.03	.12	.020	.010	.030	.09
AUG										
18...	.24	.34	1.5	.020	.03	.06	.010	.010	.000	.00

DATE	TIME	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
DEC							
12...	1230	1	30	--	--	10	0
MAR							
04...	1200	1	30	--	--	<10	0
APR							
23...	1510	0	40	2	9	50	5
MAY							
08...	1700	0	8	<1	4	40	1
22...	1945	1	30	<1	6	30	0
JUN							
26...	1345	1	0	--	--	20	2
JUL							
16...	1405	1	40	<1	2	30	0
AUG							
18...	1440	0	20	2	0	<10	0
SEP							
17...	1515	1	40	--	--	10	0

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
DEC						
12...	20	90	--	0	190	5
MAR						
04...	9	80	--	0	170	<3
APR						
23...	--	--	.0	0	--	10
MAY						
08...	--	--	.0	0	--	<3
22...	--	--	.0	0	--	4
JUN						
26...	<4	20	--	0	100	<3
JUL						
16...	--	--	.0	0	--	20
AUG						
18...	--	--	.0	0	--	180
SEP						
17...	10	60	--	0	170	<3

09310600 ECCLES CANYON NEAR SCOFIELD, UT--Continued

BENTHIC INVERTEBRATES ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

Date:	Dec. 12, 1979	Mar. 4, 1980	June 26, 1980	Sept. 19, 1980
Time:	1645	1200	1345	1535
Total Count	2,400	1,489	619	657
Diversity Phylum				
.Class				
..Order	1.6	0.0	0.0	0.0
...Family	0.0	1.5	1.0	2.7
Organism				
Annelida				
.Oligochaeta	8	-	-	-
..Plesiopora				
...Enchytraeidae	-	-	1	-
...Lumbricidae	-	1	-	11
...Naididae	-	1	-	-
...Tubificidae	-	6	3	4
Arthropoda				
.Crustacea				
..Copopoda				
...Cylclopidae	-	-	-	2
...Canthocamptidae	-	-	-	1
.Arachnoidea				
..Hydracarina				
...Hygrobatidae	-	-	-	2
...Lebertiidae	-	2	-	1
...Sperchonidae	-	2	-	2
.Insecta				
..Coleoptera				
...Dytiscidae				
...Elmidae	-	1	3	1
..Diptera				
...Ceratopogonidae	-	1	-	7
...Chironomidae	760	337	13	65
...Empididae	32	7	-	7
...Muscidae	-	1	-	5
...Psychodidae	-	1	-	1
...Stratiomyidae	-	2	-	3
...Tipulidae	24	6	4	6
..Ephemeroptera	64	-	-	-
...Baetidae	-	93	517	368
...Ephemeridae	-	5	3	37
...Heptageniidae	-	1	59	3
..Plecoptera	1,344	-	-	-
...Capniidae	-	-	-	13
...Chloroperlidae	-	4	-	-
...Leuctridae	-	-	-	2
...Nemouridae	-	989	-	14
...Perlodidae	-	-	2	12
...Taeniopterygidae	-	3	-	20
..Trichoptera	168	-	-	-
...Brachycentridae	-	12	-	3
...Hydropsychidae	-	5	-	41
...Limnephilidae	-	2	3	10
...Rhyacophilidae	-	6	9	14
Mollusca				
.Pelecypoda				
..Heterodonta				
...Sphaeriidae	-	-	1	-
Nematoda				
.Aphasmidia				
..Enoplida				
...Dorycaimidae	-	-	1	-
Platyhelminthes				
.Turbellaria				
..Tricladida				
...Planariidae	-	1	-	3

09310600 ECCLES CANYON NEAR SCOFIELD, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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
DEC							
12...	1230	1.0	1.0	112	.31	--	--
MAR							
04...	1200	.82	3.0	73	.16	--	--
MAY							
01...	1530	4.6	4.5	1600	20	67	75
21...	1515	21	5.0	4020	228	--	--
JUN							
10...	1515	33	9.0	1290	115	13	15
26...	1345	8.3	12.0	85	1.9	--	--
SEP							
17...	1515	1.7	8.0	55	.25	--	--

DATE	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	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM
DEC						
12...	--	--	--	--	--	--
MAR						
04...	--	--	--	--	--	--
MAY						
01...	88	95	98	100	--	--
21...	--	--	--	--	--	--
JUN						
10...	19	46	75	92	98	100
26...	--	--	--	--	--	--
SEP						
17...	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
DEC							
12...	1230	1.0	1.0	2	5	9	11
MAR							
04...	1200	.82	3.0	2	5	9	11

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
DEC						
12...	12	13	16	24	37	47
MAR						
04...	12	13	17	30	51	63

09310700 MUD CREEK BELOW WINTER QUARTERS CANYON, AT SCOFIELD, UTAH

(Formerly published as Pleasant Valley Creek below Winter Quarters Canyon, at Scofield, Utah)

LOCATION.--Lat 39°43'18", long 111°09'38", in SW1/4NE1/4 sec.5, T.13 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on left bank 1.3 mi (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) September 8, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 145 ft^3/s (4.11 m^3/s) May 23; minimum daily, 1.6 ft^3/s (0.045 m^3/s) Jan. 11-17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	3.6	3.5	1.9	2.9	5.0	4.0	33	116	30	8.1	6.1
2	2.6	3.5	3.6	1.8	2.9	4.7	4.0	33	103	29	7.2	5.7
3	2.4	3.4	3.6	1.8	3.0	4.5	4.0	36	106	26	6.9	5.3
4	2.4	3.4	3.6	1.8	3.0	4.5	4.0	41	115	23	6.5	4.9
5	2.4	3.3	3.6	1.7	3.0	4.3	4.0	52	129	22	6.5	5.2
6	2.6	3.3	3.5	1.7	3.0	4.3	4.0	86	136	20	6.0	5.1
7	2.8	3.3	3.5	1.7	3.1	4.3	4.0	82	114	20	5.8	6.6
8	2.6	3.3	3.4	1.7	3.2	4.3	4.1	73	119	19	5.7	9.7
9	2.6	3.2	3.4	1.7	3.3	4.3	4.2	76	142	18	5.6	8.3
10	2.8	3.3	3.3	1.7	3.3	4.2	5.6	68	126	17	5.7	10
11	2.6	3.3	3.2	1.6	3.4	4.2	6.0	57	137	17	5.2	8.1
12	2.6	3.3	3.2	1.6	3.4	4.2	6.2	48	129	16	5.1	7.2
13	2.7	3.3	3.1	1.6	3.5	4.5	8.0	38	117	15	5.2	5.9
14	2.6	3.4	3.0	1.6	3.5	4.6	10	33	106	14	6.1	5.5
15	2.5	3.4	2.9	1.6	3.5	4.7	15	33	95	13	7.2	5.1
16	2.6	3.4	2.8	1.6	3.6	4.5	15	33	87	12	6.5	5.4
17	2.7	3.4	2.7	1.6	3.7	4.3	17	36	82	12	6.1	5.1
18	3.0	3.4	2.6	1.7	4.0	4.3	20	40	82	11	5.7	5.2
19	3.8	3.4	2.6	1.7	4.4	4.6	24	47	81	11	5.7	5.3
20	7.7	3.3	2.5	1.8	5.2	4.9	27	60	78	10	5.7	5.5
21	4.4	3.3	2.4	1.9	4.7	5.0	23	74	72	9.9	5.7	5.1
22	4.0	3.3	2.3	2.0	4.5	4.8	27	100	63	9.8	5.6	5.5
23	3.7	3.3	2.3	2.1	4.4	4.6	28	145	57	9.5	6.3	5.6
24	3.6	3.3	2.2	2.2	4.4	4.4	27	142	52	10	7.0	5.7
25	3.5	3.3	2.2	2.3	4.6	4.3	34	116	47	9.4	7.3	5.8
26	3.6	3.3	2.1	2.4	5.0	4.2	32	97	41	8.7	6.9	5.6
27	3.5	3.3	2.0	2.6	5.4	4.2	35	89	39	8.3	6.4	5.6
28	3.4	3.4	2.0	2.7	5.8	4.1	42	94	35	8.5	5.9	5.3
29	3.5	3.4	2.0	2.8	5.2	4.1	46	104	33	8.3	5.7	5.5
30	3.3	3.5	1.9	2.8	---	4.0	36	103	31	8.3	5.8	5.3
31	3.3	---	1.9	2.8	---	4.0	---	111	---	8.2	6.1	---
TOTAL	98.0	100.6	86.9	60.5	112.9	136.9	520.1	2182	2670	453.9	191.2	180.2
MEAN	3.16	3.35	2.80	1.95	3.89	4.42	17.3	70.4	89.0	14.6	6.17	6.01
MAX	7.7	3.6	3.6	2.8	5.8	5.0	46	145	142	30	8.1	10
MIN	2.2	3.2	1.9	1.6	2.9	4.0	4.0	33	31	8.2	5.1	4.9
AC-FT	194	200	172	120	224	272	1030	4330	5300	900	379	357

CAL YR 1979 TOTAL 3079.2 MEAN 8.44 MAX 89 MIN 1.6 AC-FT 6110
WTR YR 1980 TOTAL 6793.2 MEAN 18.6 MAX 145 MIN 1.6 AC-FT 13470

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 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)
AUG 14...	1315	3.6	490	8.5	19.0	16.5	8.4	--	--	280
SEP 19...	1500	2.7	520	8.5	7.5	8.0	9.5	490	113	300

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)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
AUG 14...	61	72	25	6.7	5	.2	2.7	250	10
SEP 19...	60	77	25	5.4	4	.1	2.7	270	11

DATE	ALKA-LINITY (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)
AUG 14...	220	1.4	79	10	--	7.7	336	.46	3.24
SEP 19...	240	1.5	51	8.4	.2	7.6	323	.44	2.35

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)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)
SEP 19...	.13	.60	.000	.00	.13	.140	.18

DATE	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)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS PO4)
SEP 19...	.05	.48	.29	.19	.020	.030	.09

DATE	TIME	ARSENIC DIS-SOLVED (UG/L AS AS)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
SEP 19...	1500	1	0	210	13	10	40	0	260	30

09310700 MUD CREEK BELOW WINTER QUARTER CANYON, AT SCOFIELD, UT--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
AUG					
25...	1045	2.8	11.0	10	.08
SEP					
19...	1500	2.7	8.0	43	.31

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
AUG							
14...	1315	3.6	16.5	--	--	--	--
25...	1045	2.8	11.0	--	--	--	--
SEP							
19...	1500	2.7	8.0	11	21	38	49

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
AUG						
14...	--	--	--	--	--	--
25...	--	--	--	--	--	--
SEP						
19...	51	53	55	60	70	76

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT												
12...	1130	2.8	520	8.4	18.0	7.0	9.5	--	--	--	270	34
NOV												
09...	1200	5.4	560	8.1	3.5	.0	11.1	--	--	--	300	37
16...	0945	4.3	610	--	--	.0	--	1.3	--	--	350	76
DEC												
12...	1645	3.6	650	8.1	-10.0	.5	10.7	.55	26	29	360	65
14...	0930	2.8	620	--	--	.0	--	1.0	--	--	--	--
JAN												
15...	1140	1.6	520	7.9	-2.0	.0	10.7	--	--	--	250	37
FEB												
05...	1415	5.1	590	8.1	-5.5	.0	10.7	--	--	--	320	57
06...	1205	3.2	581	--	--	1.0	--	.33	--	--	--	--
MAR												
04...	1630	4.5	590	8.2	.0	.0	10.6	.75	K7	42	300	37
APR												
08...	1030	4.0	600	8.2	-4.0	.0	10.7	--	--	--	320	49
23...	1545	27	453	--	--	--	--	1.8	--	--	--	--
MAY												
21...	1245	73	350	8.3	22.0	7.0	9.2	--	--	--	180	32
28...	1345	80	335	--	--	9.0	--	.93	--	--	180	38
JUN												
26...	1745	39	340	8.4	23.0	16.5	7.2	.53	K87	200	180	29
JUL												
10...	1700	18	405	8.5	22.0	16.5	8.1	--	--	--	210	26
16...	1300	12	445	--	--	16.0	--	.66	--	--	240	41
AUG												
15...	1015	7.2	510	8.4	16.0	12.5	8.5	--	--	--	260	19
18...	1630	3.6	500	--	--	19.0	--	.29	--	--	250	42
SEP												
17...	1045	5.3	540	8.1	12.0	8.0	9.4	--	500	390	280	60
19...	1450	5.2	520	8.0	24.0	16.0	8.0	--	--	--	290	66

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

09310700 MUD CREEK BELOW WINTER QUARTER CANYON, AT SCOFIELD, UT--Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT												
12...	61	29	5.4	7	.1	--	3.1	280	4	240	1.8	50
NOV												
09...	75	27	5.9	6	.1	8.3	2.4	320	0	270	4.1	49
16...	89	30	7.6	7	.2	11	3.1	--	--	270	--	82
DEC												
12...	93	30	7.0	6	.2	9.7	2.7	360	0	290	4.6	60
14...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
15...	67	20	15	11	.4	18	2.9	260	0	210	5.2	39
FEB												
05...	84	27	8.3	5	.2	11	2.4	320	0	260	4.1	52
06...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
04...	79	25	7.9	5	.2	10	2.3	320	0	260	3.2	50
APR												
08...	83	27	9.7	6	.2	--	2.4	330	0	270	3.3	59
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
21...	53	12	3.8	4	.1	--	1.3	200	0	160	1.6	21
28...	53	11	3.7	4	.1	--	1.3	--	--	140	--	24
JUN												
26...	52	11	3.0	4	.1	--	1.2	180	2	150	1.2	23
JUL												
10...	56	16	3.9	4	.1	--	1.7	--	6	190	--	30
16...	67	18	4.1	4	.1	--	1.7	--	--	200	--	31
AUG												
15...	71	21	5.2	4	.1	--	3.1	290	2	240	1.9	52
18...	63	23	6.5	5	.2	--	2.1	--	--	210	--	43
SEP												
17...	71	25	5.5	4	.1	--	2.8	300	0	240	3.4	46
19...	70	27	6.2	4	.2	--	2.6	--	0	350	--	49

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE 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 TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)
OCT											
12...	7.5	--	6.2	304	.41	2.31	--	--	--	--	--
NOV											
09...	7.5	--	5.7	330	.45	4.85	--	--	--	--	--
16...	8.8	.2	7.4	391	.53	4.54	.00	.04	.18	.010	.010
DEC											
12...	8.4	.2	8.0	388	.53	3.77	--	.12	.53	--	.000
14...	--	--	--	--	--	--	.21	.13	.58	.010	.010
JAN											
15...	21	--	6.2	299	.41	1.32	--	--	--	--	--
FEB											
05...	12	--	7.1	350	.48	4.82	--	--	--	--	--
06...	--	--	--	--	--	--	.15	.14	.62	.010	.010
MAR											
04...	12	.2	7.1	342	.47	4.16	--	.13	.58	--	.000
APR											
08...	16	--	7.3	367	.50	4.00	--	--	--	--	--
23...	--	--	--	--	--	--	.62	.60	2.7	.010	.030
MAY											
21...	5.4	--	6.1	193	.26	38.0	--	--	--	--	--
28...	5.6	.2	6.1	192	.26	41.5	.66	.66	2.9	.010	.000
JUN											
26...	2.4	.1	5.7	190	.26	20.0	--	.08	.35	--	.010
JUL											
10...	5.1	--	5.3	226	.31	10.9	--	--	--	--	--
16...	5.4	.4	5.6	254	.35	8.23	.07	.05	.22	.010	.010
AUG											
15...	7.5	--	7.3	312	.42	6.07	--	--	--	--	--
18...	8.6	.2	6.6	279	.38	2.71	.00	.00	.00	.000	.000
SEP											
17...	7.9	.2	6.7	298	.41	4.26	--	--	--	--	--
19...	8.6	--	6.5	302	.41	4.25	--	--	--	--	--

09310700 MUD CREEK BELOW WINTER QUARTER CANYON, AT SCOFIELD, UT--Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA 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)
OCT											
12...	--	--	--	--	--	--	--	--	--	--	--
NOV											
09...	--	--	--	--	--	--	--	--	--	--	--
16...	.03	.01	.05	.020	.110	.02	.14	.26	1.1	.28	.00
DEC											
12...	.00	--	.12	--	.060	--	.08	--	.37	.52	.09
14...	.03	.22	.14	.020	.030	.02	.04	.97	.87	.99	.09
JAN											
15...	--	--	--	--	--	--	--	--	--	--	--
FEB											
05...	--	--	--	--	--	--	--	--	--	--	--
06...	.03	.16	.15	.030	.010	.04	.01	.23	.17	.26	.08
MAR											
04...	.00	--	.13	--	.000	--	.00	--	.62	.65	.03
APR											
08...	--	--	--	--	--	--	--	--	--	--	--
23...	.10	.63	.63	.170	.080	.21	.10	.93	1.1	1.1	.00
MAY											
21...	--	--	--	--	--	--	--	--	--	--	--
28...	.00	.67	.66	.010	.030	.01	.04	.51	.24	.52	.25
JUN											
26...	.03	--	.09	--	.030	--	.04	--	.41	.91	.47
JUL											
10...	--	--	--	--	--	--	--	--	--	--	--
16...	.03	.08	.06	.030	.010	.04	.01	1.3	.59	1.3	.70
AUG											
15...	--	--	--	--	--	--	--	--	--	--	--
18...	.00	.00	.00	.030	.030	.04	.04	.24	.26	.27	.00
SEP											
17...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS PO4)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS P)	PHOSPHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS PO4)
NOV										
16...	1.2	.29	1.3	.010	.03	.03	.010	.010	.010	.03
DEC										
12...	.43	--	--	.010	--	.03	--	--	.010	.03
14...	.90	1.2	5.4	.040	.09	.12	.010	.030	.010	.03
FEB										
06...	.18	.42	1.9	.030	.00	.09	.000	.000	.000	.00
MAR										
04...	.62	--	--	.050	--	.15	--	--	.030	.09
APR										
23...	1.2	1.7	7.7	.230	.09	.71	.020	.030	.030	.09
MAY										
28...	.27	1.2	5.3	.090	.15	.28	.030	.050	.030	.09
JUN										
26...	.44	--	--	.080	--	.25	--	--	.030	.09
JUL										
16...	.60	1.4	6.1	.050	.03	.15	.040	.010	.000	.00
AUG										
18...	.29	.27	1.2	.020	.03	.06	.010	.010	.000	.00

09310700 MUD CREEK BELOW WINTER QUARTER CANYON, AT SCOFIELD, UT--Continued

WATER-QUALITY RECORDS

DATE	TIME	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
NOV							
16...	0945	0	60	53	2	10	5
DEC							
12...	1645	2	40	--	--	10	0
FEB							
06...	1205	0	40	3	<10	--	28
MAR							
04...	1630	0	40	--	--	10	0
APR							
23...	1545	0	--	0	3	--	4
MAY							
28...	1345	1	30	<1	4	30	0
JUN							
26...	1745	1	10	--	--	20	1
JUL							
16...	1300	1	50	<1	1	10	0
AUG							
18...	1630	1	30	<1	0	10	0
SEP							
17...	1045	1	50	--	--	10	0

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV						
16...	--	--	--	0	--	7
DEC						
12...	20	50	--	0	260	3
FEB						
06...	--	--	--	0	--	7
MAR						
04...	10	50	--	0	210	6
APR						
23...	--	--	.0	0	--	10
MAY						
28...	--	--	.0	0	--	<3
JUN						
26...	<4	20	--	0	110	<3
JUL						
16...	--	--	.0	0	--	4
AUG						
18...	--	--	.0	0	--	<3
SEP						
17...	10	30	--	0	200	<3

09310700 MUD CREEK BELOW WINTER QUARTER CANYON, AT SCOFIELD, UT--Continued

BENTHIC INVERTEBRATE ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTMEBER 1980

Date:	June 26, 1980	Sept. 19, 1980
Time:	1745	1450
Total Count	176	1,785
Diversity Phylum .Class ..Order ...Family	2.4	2.7
Organism		
Annelida		
.Oligochaeta		
..Plesiopora		
...Naididae	-	17
...Tubificidae	74	14
Arthropoda		
.Crustacea		
..Copopoda		
...Cylclopidae	-	1
.Arachnoidea		
..Hydracarina		
...Sperchonidae	-	4
.Insecta		
..Coleoptera		
...Dryopidae	-	1
...Elmidae	1	257
..Diptera		
...Ceratopogonidae	1	6
...Chironomidae	43	638
...Empididae	-	3
...Simuliidae	2	11
...Tipulidae	-	15
..Ephemeroptera		
...Baetidae	9	102
...Ephemeridae	12	40
...Heptageniidae	25	27
...Leptophlebiidae	-	6
..Plecoptera		
...Capniidae	-	32
...Nemouridae	-	8
...Perlodidae	-	30
...Pteronarcyidae	-	9
..Trichoptera		
...Brachycentridae	2	28
...Hydropsychidae	5	512
...Hydroptilidae	-	18
...Limnephilidae	2	2
Mollusca		
.Gastropoda		
..Aspidobranchia		
...Physidae	-	2
Nematoda		
.Aphasmidia		
..Enoplida		
...Dorycaimidae	-	2

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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
DEC												
12...	1645	3.6	.5	95	.92	--	--	--	--	--	--	--
MAR												
04...	1630	4.5	.0	70	.85	--	--	--	--	--	--	--
MAY												
01...	1345	30	6.0	1690	137	20	24	29	64	85	97	100
21...	1245	73	7.0	680	134	--	--	--	--	--	--	--
23...	1330	142	7.0	1420	544	16	18	25	69	89	98	100
JUN												
10...	1315	123	9.0	1300	432	13	15	20	53	78	93	100
26...	1745	39	16.5	332	35	--	--	--	--	--	--	--
AUG												
15...	1015	7.2	12.5	354	6.9	--	--	--	--	--	--	--
SEP												
17...	1045	5.3	8.0	60	.86	--	--	--	--	--	--	--

09310700 MUD CREEK BELOW WINTER QUARTER CANYON, AT SCOFIELD, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
DEC							
12...	1645	3.6	.5	6	16	31	35
MAR							
04...	1630	4.5	.0	1	2	4	6

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
DEC						
12...	--	--	--	--	--	--
MAR						
04...	8	9	11	15	29	64

09311000 SCOFIELD RESERVOIR NEAR SCOFIELD, UTAH

LOCATION.--Lat 39°47'15", long 111°07'30", in NW1/4SE1/4 sec.10, T.12 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on right bank 200 ft (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 National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service). 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 Water and Power Resources Service.

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, 71,770 acre-ft (88.5 hm^3) June 6-9, elevation, 7,619.6 ft (2,322.45 m); minimum,39,760 acre-ft (49.0 hm^3) Oct. 15-20, elevation, 7,607.6 ft (2,318.80 m).

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

7,605	33,600	7,615	58,870
7,610	45,720	7,620	72,930

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41230	40250	40740	41480	43210	44710	44460	44210	71480	68040	59690	49830
2	41230	40250	40980	41480	43210	44710	44210	44710	71480	68040	59140	49570
3	40980	40250	40980	41480	43210	44710	44210	45220	71480	67760	58870	49310
4	40740	40250	40980	41720	43210	44710	43960	45980	71480	67760	58320	49050
5	40740	40250	40980	41720	43210	44710	43960	46740	71480	67480	58050	48790
6	40490	40250	40980	41720	43460	44710	43710	47760	71770	67190	57780	48790
7	40490	40250	40980	41720	43460	44960	43710	48790	71770	67190	57240	48540
8	40490	40250	40980	41720	43460	44960	42960	50090	71770	66910	56970	48540
9	40250	40250	40980	41720	43460	44960	42710	51130	71770	66630	56700	48280
10	40250	40250	40980	41720	43460	45220	42460	52440	71480	66630	56700	48280
11	40250	40250	40980	41720	43710	45220	42220	53500	71480	66350	56160	48280
12	40000	40250	41230	41720	43710	45220	41720	54300	71200	66350	55900	48540
13	40000	40250	41230	41970	43710	45470	41230	55090	70910	66060	55630	48540
14	40000	40250	41230	42220	43710	45470	40740	55630	70620	65780	55090	48540
15	39760	40250	41230	42220	43710	45470	40490	56430	70330	65500	54830	48540
16	39760	40250	41230	42460	43960	45470	40250	56970	69470	65220	54560	48540
17	39760	40250	41230	42460	43960	45470	40250	57780	69470	64940	54300	48540
18	39760	40250	41230	42460	43960	45470	40000	58600	69190	64660	53760	48540
19	39760	40490	41230	42460	43960	45470	40000	59410	69190	64380	53230	48280
20	39760	40490	41230	42460	43960	45220	40000	59960	68900	63820	52970	48280
21	40000	40490	41230	42710	43960	45220	40000	61060	68900	63550	52440	48020
22	40000	40490	41230	42710	44210	45220	40000	62710	68900	62990	52180	48020
23	40000	40490	41480	42710	44210	45220	40250	64380	68900	62710	51920	48020
24	40250	40490	41480	42710	44460	45220	40250	66630	68900	62440	51650	48020
25	40250	40490	41480	42960	44460	45220	40740	68330	68900	62160	51390	47760
26	40250	40740	41480	42960	44460	45220	40980	69190	68620	61610	51390	47760
27	40250	40740	41480	42960	44460	44960	41480	70040	68620	61330	51130	47760
28	40250	40740	41480	42960	44460	44960	42220	70620	68330	60780	50870	47760
29	40250	40740	41480	42960	44460	44710	42710	71200	68330	60510	50610	47510
30	40250	40740	41480	42960	---	44460	43460	71200	68330	60230	50350	47510
31	40250	---	41480	43210	---	44460	---	71200	---	59960	50090	---
MAX	41230	40740	41480	43210	44460	45470	44460	71200	71770	68040	59690	49830
MIN	39760	40250	40740	41480	43210	44460	40000	44210	68330	59960	50090	47510
(†)	7607.8	7608.0	7608.3	7609.0	7609.5	7609.5	7609.1	7619.4	7618.4	7615.4	7611.7	7610.7
(‡)	-1230	+490	+740	+1730	+1250	0	-1000	+27740	-2870	-8370	-9870	-2580

CAL YR 1979 . . . . . (‡) +2930
WTR YR 1980 . . . . . (‡) +6030

(†) 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 NE1/4SE1/4SW1/4 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 good except those for winter period, which are poor.

AVERAGE DISCHARGE.--13 years, 28.6 ft^3/s (0.810 m^3/s), 20,720 acre-ft/yr (25.5 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.--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 7	2300	*409	11.6	4.57	1.393
May 23	1200	357	10.1	4.28	1.305
July 23	1800	147	4.16	3.24	.988
Sept. 8	1600	154	4.36	2.99	.911

Minimum daily discharge, 2.3 ft^3/s (0.065 m^3/s) Dec. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	3.6	4.2	2.8	5.7	5.2	5.8	251	157	38	18	5.4
2	2.8	3.8	4.2	2.8	5.5	5.1	5.9	254	151	35	15	4.9
3	2.5	3.8	4.3	2.9	5.6	5.1	6.2	264	138	33	13	4.5
4	2.8	3.9	4.9	3.0	5.7	5.3	6.6	297	130	32	12	4.1
5	2.8	4.0	4.7	3.2	5.3	5.3	7.4	328	124	32	11	3.7
6	3.1	4.0	4.0	3.2	5.0	5.3	8.0	350	120	31	10	4.1
7	3.1	3.9	4.1	3.2	4.8	5.4	9.0	389	114	31	9.4	5.4
8	2.8	4.0	4.3	3.3	4.7	5.6	10	384	107	31	8.8	32
9	3.1	3.9	4.2	3.5	4.8	5.5	12	373	101	30	8.1	46
10	3.1	3.8	3.9	3.7	5.0	5.9	14	366	96	28	7.5	31
11	3.1	3.7	3.9	4.1	5.1	5.8	20	337	90	27	6.9	28
12	3.1	4.1	3.4	4.6	5.1	5.6	22	299	82	26	6.4	23
13	3.1	4.6	3.0	6.0	4.9	5.7	25	260	74	25	6.9	19
14	3.4	5.0	2.6	7.0	4.7	6.0	30	245	68	24	8.1	15
15	3.4	5.3	2.5	7.3	4.8	6.0	36	234	64	22	8.8	11
16	3.4	5.3	2.6	6.8	5.1	5.8	50	234	62	20	8.1	9.4
17	3.4	5.1	2.6	6.9	5.3	5.7	62	238	59	19	7.0	8.8
18	3.7	5.1	2.5	6.7	5.2	5.8	63	232	57	18	6.2	8.1
19	3.7	5.0	2.4	6.4	5.2	5.8	78	236	54	17	5.8	8.1
20	5.5	5.0	2.3	6.0	5.1	6.1	103	262	52	17	8.1	7.5
21	4.3	5.1	2.4	6.1	4.9	6.0	111	303	49	15	5.9	7.5
22	4.3	5.1	2.4	6.0	4.9	6.0	124	332	47	14	4.9	7.5
23	4.4	5.2	2.4	6.3	4.8	6.1	154	350	45	30	5.9	7.5
24	4.6	5.4	2.4	6.5	4.7	6.0	151	330	43	39	6.9	7.5
25	4.8	5.3	2.5	6.5	4.8	5.9	190	283	42	27	17	7.5
26	4.4	5.4	2.5	6.4	5.2	5.9	207	239	40	22	13	7.5
27	4.3	4.7	2.6	6.4	5.2	5.9	216	212	39	20	10	6.9
28	4.0	4.0	2.6	6.3	5.2	5.9	243	194	38	18	7.5	6.9
29	3.9	4.1	2.4	6.4	5.0	6.0	287	184	36	18	5.9	6.4
30	3.6	4.2	2.5	6.0	---	5.8	270	176	36	20	5.5	6.4
31	3.5	---	2.6	5.5	---	5.8	---	168	---	17	5.5	---
TOTAL	110.8	135.4	97.9	161.8	147.3	177.3	2526.9	8604	2315	776	273.1	350.6
MEAN	3.57	4.51	3.16	5.22	5.08	5.72	84.2	278	77.2	25.0	8.81	11.7
MAX	5.5	5.4	4.9	7.3	5.7	6.1	287	389	157	39	18	46
MIN	2.5	3.6	2.3	2.8	4.7	5.1	5.8	168	36	14	4.9	3.7
AC-FT	220	269	194	321	292	352	5010	17070	4590	1540	542	695

CAL YR 1979 TOTAL 9666.3 MEAN 26.5 MAX 257 MIN 1.4 AC-FT 19170
WTR YR 1980 TOTAL 15676.1 MEAN 42.8 MAX 389 MIN 2.3 AC-FT 31090

09312700 BEAVER CREEK NEAR SOLDIER SUMMIT, UTAH

LOCATION.--Lat 39°49'50", long 110°58'07", in NW1/4SW1/4SW1/4 sec.30, T.11 S., R.9 E., Utah County, Hydrologic Unit 14060007, on left bank 0.5 mi (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 good except for period on no gage-height record Nov. 12 to Dec. 12 and for winter period, which are poor.

AVERAGE DISCHARGE.--20 years, 4.05 ft^3/s (0.115 m^3/s), 2,930 acre-ft/yr (3.61 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, 93 ft^3/s (2.63 m^3/s) May 23, gage height, 2.23 ft (0.680 m); minimum daily, 0.04 ft^3/s (0.001 m^3/s) on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.23	.14	.14	.09	.06	.05	.04	25	54	9.9	1.4	.25
2	.25	.15	.15	.08	.06	.04	.05	26	52	12	1.1	.25
3	.21	.15	.15	.08	.06	.04	.05	31	49	9.1	.96	.25
4	.20	.15	.17	.08	.07	.05	.05	38	46	7.4	.82	.32
5	.20	.16	.16	.08	.06	.04	.05	44	43	6.8	.82	.32
6	.15	.16	.15	.08	.05	.04	.10	63	41	5.9	.70	.25
7	.15	.15	.16	.07	.05	.04	.12	66	38	5.9	.70	.40
8	.10	.16	.17	.08	.04	.05	.19	58	37	6.2	.60	.40
9	.10	.15	.16	.07	.04	.04	.25	65	34	5.7	.50	.40
10	.10	.14	.16	.07	.04	.05	.30	64	32	5.1	.40	.70
11	.10	.13	.16	.05	.05	.05	.35	56	31	4.5	.32	.50
12	.10	.15	.14	.07	.05	.04	.40	48	29	4.2	.25	.40
13	.10	.15	.13	.08	.05	.05	.45	43	27	4.2	.25	.32
14	.10	.16	.15	.08	.04	.05	.50	42	25	3.8	.25	.25
15	.15	.17	.17	.07	.05	.04	.55	42	23	3.4	.25	.25
16	.15	.16	.15	.07	.05	.04	.60	44	22	3.1	.25	.25
17	.15	.15	.13	.08	.05	.04	.70	46	20	2.9	.25	.20
18	.15	.15	.13	.08	.04	.04	1.0	42	19	2.6	.25	.20
19	.15	.14	.12	.07	.05	.04	2.0	46	18	2.4	.20	.25
20	.30	.14	.12	.07	.05	.05	4.0	57	17	2.1	.25	.20
21	.16	.14	.11	.07	.04	.05	6.0	70	15	2.0	.25	.25
22	.16	.14	.11	.06	.04	.05	8.6	82	14	1.9	.20	.25
23	.17	.15	.10	.07	.04	.05	14	90	13	1.9	.25	.25
24	.18	.16	.09	.08	.04	.05	12	87	12	2.0	.40	.25
25	.19	.15	.10	.08	.04	.04	17	78	11	2.0	.40	.25
26	.18	.15	.08	.07	.05	.04	19	69	10	1.7	.60	.25
27	.17	.13	.08	.07	.05	.04	21	63	9.5	1.4	.50	.25
28	.15	.12	.08	.06	.05	.04	25	59	8.6	1.5	.32	.25
29	.14	.13	.07	.06	.04	.04	31	60	8.2	1.2	.32	.25
30	.14	.14	.08	.05	---	.04	29	59	8.2	1.2	.25	.25
31	.13	---	.08	.04	---	.04	---	56	---	1.3	.25	---
TOTAL	4.91	4.42	3.95	2.21	1.40	1.36	194.35	1719	766.5	125.3	14.26	8.86
MEAN	.16	.15	.13	.071	.048	.044	6.48	55.5	25.6	4.04	.46	.30
MAX	.30	.17	.17	.09	.07	.05	31	90	54	12	1.4	.70
MIN	.10	.12	.07	.04	.04	.04	.04	25	8.2	1.2	.20	.20
AC-FT	9.7	8.8	7.8	4.4	2.8	2.7	385	3410	1520	249	28	18

CAL YR 1979 TOTAL 1235.02 MEAN 3.38 MAX 41 MIN .01 AC-FT 2450
WTR YR 1980 TOTAL 2846.52 MEAN 7.78 MAX 90 MIN .04 AC-FT 5650

09312800 WILLOW CREEK NEAR CASTLE GATE, UTAH

LOCATION.--Lat 39°46'37", long 110°47'30", in SW1/4 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 except those for winter period and period of no gage-height record, Oct. 20 to Apr. 27, May 11-30, and Aug. 9 to Sept. 30, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--18 years, 8.37 ft^3/s (0.237 m^3/s), 6,060 acre-ft/yr (7.47 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.-- Maximum daily discharge, 200 ft^3/s (5.66 m^3/s) May 23; minimum, 0.51 ft^3/s (0.014 m^3/s), Oct. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.3	.75	.70	1.3	1.6	3.5	78	57	17	5.5	4.0
2	1.7	1.4	.75	.70	1.2	1.6	3.7	86	56	17	5.0	3.8
3	1.7	1.4	.70	.75	1.2	1.6	4.0	98	56	16	4.8	3.6
4	1.7	1.5	.70	.75	1.5	1.6	4.3	110	54	15	4.6	3.4
5	1.7	1.6	.65	.80	1.4	1.6	5.1	120	52	14	4.5	3.3
6	1.6	1.6	.65	.80	1.3	1.6	5.5	130	49	14	4.4	3.2
7	1.6	1.5	.65	.80	1.3	1.6	6.0	110	47	13	3.9	5.4
8	1.6	1.6	.60	.85	1.2	1.6	7.0	100	45	14	4.0	7.0
9	1.6	1.5	.60	.90	1.3	1.7	8.0	92	43	12	4.2	10
10	1.6	1.4	.60	.95	1.5	1.8	9.0	87	40	12	4.3	16
11	1.6	1.3	.60	.92	1.7	1.8	13	82	38	11	4.3	9.0
12	1.7	1.3	.60	1.1	1.7	1.9	15	78	36	11	4.3	6.0
13	1.7	1.3	.60	1.2	1.7	2.0	17	78	34	11	4.2	5.0
14	1.7	1.3	.60	1.2	1.6	2.0	20	80	32	11	4.4	4.3
15	1.7	1.3	.60	1.2	1.6	2.1	22	82	30	9.7	5.0	4.0
16	1.7	1.2	.60	1.2	1.6	2.2	23	85	28	9.5	4.6	3.8
17	1.7	1.2	.60	1.3	1.6	2.3	26	85	27	8.9	4.1	3.7
18	1.9	1.2	.60	1.2	1.6	2.4	27	85	26	8.5	3.6	3.6
19	1.8	1.2	.60	1.1	1.6	2.5	30	94	25	8.2	3.6	3.6
20	2.6	1.2	.60	1.0	1.6	2.6	34	110	24	8.1	3.6	3.5
21	1.6	1.1	.60	1.2	1.6	2.7	40	130	23	7.7	3.4	3.5
22	1.7	1.1	.60	1.1	1.6	2.8	45	160	22	7.5	3.3	3.5
23	1.7	1.0	.60	1.2	1.6	2.9	52	200	21	7.6	3.4	3.5
24	1.8	1.0	.60	1.3	1.6	3.1	60	160	20	7.7	3.6	3.5
25	1.8	.95	.60	1.3	1.6	3.4	64	120	20	7.4	8.0	3.5
26	1.7	.95	.60	1.2	1.6	3.6	68	100	18	7.0	7.0	3.4
27	1.7	.90	.60	1.2	1.6	3.8	70	90	17	6.5	6.0	3.3
28	1.7	.85	.60	1.1	1.6	3.8	70	75	17	5.9	5.0	3.3
29	1.6	.80	.60	1.2	1.6	4.0	72	72	17	6.0	4.5	3.3
30	1.5	.80	.65	1.0	---	3.7	73	61	17	6.1	4.1	3.3
31	1.2	---	.65	.95	---	3.5	---	59	---	5.7	4.5	---
TOTAL	52.7	36.75	19.35	32.17	43.9	75.4	897.1	3097	991	316.0	139.7	140.3
MEAN	1.70	1.23	.62	1.04	1.51	2.43	29.9	99.9	33.0	10.2	4.51	4.68
MAX	2.6	1.6	.75	1.3	1.7	4.0	73	200	57	17	8.0	16
MIN	1.2	.80	.60	.70	1.2	1.6	3.5	59	17	5.7	3.3	3.2
AC-FT	105	73	38	64	87	150	1780	6140	1970	627	277	278

CAL YR 1979 TOTAL 7429.24 MEAN 20.4 MAX 198 MIN .47 AC-FT 14740
WTR YR 1980 TOTAL 5841.37 MEAN 16.0 MAX 200 MIN .60 AC-FT 11590

09312900 WILLOW CREEK AT CASTLE GATE, UTAH

LOCATION.--Lat 39°43'37", long 110°51'41", in SW1/4SW1/2NE1/4 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 1980.

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 and when the orifice was moving, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 210 ft^3/s (5.95 m^3/s) May 23; minimum daily, 0.60 ft^3/s (0.017 m^3/s) Dec. 13-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	1.9	.88	.72	1.7	1.9	4.2	88	74	17	6.2	4.0
2	1.9	2.0	.84	.76	1.7	1.9	4.2	100	72	17	5.6	3.8
3	1.8	2.0	.82	.78	1.7	1.9	4.3	112	65	17	5.2	3.6
4	1.8	2.0	.80	.82	1.7	1.9	4.7	119	63	16	4.9	3.5
5	1.9	1.9	.76	.86	1.7	1.9	5.0	125	63	15	4.9	3.5
6	1.8	1.9	.74	.90	1.7	1.9	5.4	140	61	14	4.8	3.4
7	1.8	1.9	.72	.96	1.7	2.0	5.6	120	57	14	4.6	4.4
8	1.8	1.8	.70	1.0	1.7	2.0	6.0	110	52	15	4.3	7.9
9	1.8	1.6	.68	1.0	1.8	2.0	7.2	100	51	14	4.0	21
10	1.8	1.5	.66	1.1	1.8	2.0	8.6	92	50	13	3.8	33
11	1.8	1.5	.64	1.1	1.8	2.1	11	86	45	13	3.7	8.6
12	1.9	1.5	.62	1.2	1.8	2.2	12	84	42	13	3.7	6.2
13	1.8	1.5	.60	1.3	1.8	2.3	15	82	39	13	3.7	5.6
14	1.9	1.5	.60	1.3	1.8	2.4	17	84	35	12	4.2	4.4
15	2.0	1.5	.60	1.4	1.8	2.5	20	86	32	11	4.3	4.3
16	2.0	1.4	.60	1.4	1.8	2.6	22	90	30	10	5.3	4.2
17	1.9	1.4	.60	1.5	1.8	2.7	26	84	29	10	4.3	3.8
18	2.0	1.4	.60	1.5	1.8	2.8	30	81	27	9.6	3.8	3.7
19	2.0	1.3	.60	1.5	1.8	2.9	33	100	25	9.4	3.7	3.7
20	3.2	1.3	.60	1.5	1.8	3.0	38	120	26	8.9	4.0	3.5
21	2.8	1.2	.60	1.5	1.8	3.1	44	140	23	8.4	3.7	3.6
22	2.2	1.2	.60	1.6	1.8	3.2	50	170	22	8.2	3.6	3.6
23	2.2	1.1	.60	1.6	1.8	3.4	56	210	22	8.2	3.7	3.5
24	2.2	1.1	.60	1.6	1.8	3.5	64	160	21	8.9	4.2	3.5
25	2.0	1.1	.60	1.6	1.9	3.7	70	119	20	7.9	8.2	3.4
26	2.2	1.0	.60	1.6	1.9	3.9	72	103	19	7.6	7.2	3.5
27	2.0	.98	.62	1.6	1.9	4.0	72	93	18	7.2	6.4	3.4
28	2.0	.96	.64	1.6	1.9	4.0	74	83	17	6.6	4.6	3.3
29	2.2	.94	.66	1.6	1.9	4.2	76	81	18	6.4	4.0	3.2
30	2.2	.90	.68	1.6	---	4.2	78	74	18	6.6	4.0	3.2
31	1.9	---	.70	1.6	---	4.3	---	74	---	6.0	4.0	---
TOTAL	62.5	43.28	20.56	40.10	51.9	86.4	935.2	3310	1136	343.9	142.6	170.3
MEAN	2.02	1.44	.66	1.29	1.79	2.79	31.2	107	37.9	11.1	4.60	5.68
MAX	3.2	2.0	.88	1.6	1.9	4.3	78	210	74	17	8.2	33
MIN	1.7	.90	.60	.72	1.7	1.9	4.2	74	17	6.0	3.6	3.2
AC-FT	124	86	41	80	103	171	1850	6570	2250	682	283	338

WTR YR 1980 TOTAL 6342.74 MEAN 17.3 MAX 210 MIN .60 AC-FT 12580

09312900 WILLOW CREEK AT CASTLE GATE, UT--Continued

PERIOD OF RECORD.--October 1979 to September 1980.
SEDIMENT DATA: December 1979 to September 1980.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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										
12...	1645	2.0	950	8.6	24.5	14.5	8.7	--	--	--
NOV										
07...	1515	.64	960	8.3	8.0	5.0	10.4	--	--	--
DEC										
13...	1100	.35	1280	8.3	-7.0	.5	12.0	.34	K1	K9
JAN										
16...	1150	1.6	1070	8.1	1.0	.0	11.9	--	--	--
FEB										
06...	1345	1.8	1020	8.2	5.0	.0	11.6	--	--	--
MAR										
05...	1600	3.5	970	8.5	4.5	.0	11.4	.15	K2	120
APR										
08...	1540	9.4	960	8.3	13.0	7.0	9.7	--	--	--
MAY										
22...	1615	173	580	8.6	25.5	14.0	8.4	--	--	--
JUN										
27...	1345	19	750	8.5	25.0	19.0	7.4	.64	K4	140
JUL										
12...	1015	12	760	8.5	21.5	15.5	8.1	--	--	--
AUG										
16...	1330	5.4	960	8.8	18.0	17.0	7.6	--	--	--
SEP										
19...	1700	3.7	900	8.5	24.0	16.0	8.0	.51	4	35

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)
OCT										
12...	370	99	53	57	87	34	2.0	90	3.3	310
NOV										
07...	370	83	59	54	81	32	1.8	84	2.8	350
DEC										
13...	500	160	82	72	100	51	1.9	100	3.6	420
JAN										
16...	390	86	70	53	91	33	2.0	94	2.9	370
FEB										
06...	420	110	76	57	82	29	1.7	85	2.6	380
MAR										
05...	360	68	64	49	75	31	1.7	77	2.4	340
APR										
08...	380	44	66	53	86	33	1.9	--	2.3	410
MAY										
22...	260	0	54	30	33	22	.9	--	1.7	320
JUN										
27...	300	32	52	42	51	27	1.3	--	1.9	310
JUL										
12...	300	41	46	46	60	30	1.5	--	2.4	300
AUG										
16...	330	61	51	50	83	35	2.0	--	2.8	300
SEP										
19...	320	67	44	50	77	34	1.9	--	2.4	290

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

09312900 WILLOW CREEK AT CASTLE GATE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CARBONATE (MG/L AS CO3)	ALKALINITY (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										
12...	10	270	1.3	230	25	--	14	632	.86	3.45
NOV										
07...	0	280	2.8	230	22	--	14	635	.86	1.10
DEC										
13...	0	350	3.4	300	34	.3	14	814	1.11	.77
JAN										
16...	0	300	4.7	200	45	--	11	655	.89	2.74
FEB										
06...	0	310	3.8	230	28	--	12	675	.92	3.28
MAR										
05...	8	290	1.8	210	28	.2	11	616	.84	5.82
APR										
08...	0	340	3.3	220	33	--	12	674	.92	17.0
MAY										
22...	10	280	1.4	70	9.8	--	15	381	.52	178
JUN										
27...	8	270	1.7	130	23	.2	12	474	.64	24.3
JUL										
12...	8	260	1.6	140	20	--	13	483	.66	16.0
AUG										
16...	14	270	.8	210	30	--	12	601	.82	8.76
SEP										
19...	8	250	1.5	200	27	.3	14	566	.77	5.65

DATE	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	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, NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT										
12...	--	--	--	--	--	--	--	--	--	--
NOV										
07...	--	--	--	--	--	--	--	--	--	--
DEC										
13...	.06	.27	.000	.00	.06	.030	.04	.25	.52	.24
JAN										
16...	--	--	--	--	--	--	--	--	--	--
FEB										
06...	--	--	--	--	--	--	--	--	--	--
MAR										
05...	.04	.18	.000	.00	.04	.000	.00	.11	.45	.34
APR										
08...	--	--	--	--	--	--	--	--	--	--
MAY										
22...	--	--	--	--	--	--	--	--	--	--
JUN										
27...	.00	.00	.000	.00	.00	.010	.01	.63	.50	.00
JUL										
12...	--	--	--	--	--	--	--	--	--	--
AUG										
16...	--	--	--	--	--	--	--	--	--	--
SEP										
19...	.00	.00	.000	.00	.00	.010	.01	.50	.56	.05

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)
DEC					
13...	.28	.010	.03	.010	.03
MAR					
05...	.11	.120	.37	.010	.03
JUN					
27...	.64	.190	.58	.000	.00
SEP					
19...	.51	.010	.03	.000	.00

09312900 WILLOW CREEK AT CASTLE GATE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
DEC										
13...	1100	2	110	<10	0	40	20	2	1100	7
MAR										
05...	1600	2	80	<10	0	30	20	3	760	<3
JUN										
27...	1345	2	110	<10	1	20	3	2	630	<3
SEP										
19...	1700	2	120	<10	1	30	4	1	740	6

BENTHIC INVERTEBRATE ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date:	June 27, 1980	Sept. 19, 1980
Time:	1345	1035
Total Count	39	44
Diversity Phylum .Class ..Order ...Family	2.4	2.6
Organism		
Annelida		
.Oligochaeta		
..Plesiopora		
...Enchytraeidae	2	-
...Naididae	-	1
Arthropoda		
.Crustacea		
..Copepoda		
...Cylclopidae	-	1
.Insecta		
..Diptera		
...Ceratopogonidae	2	-
...Chironomidae	17	8
...Empididae	-	1
...Simuliidae	1	-
..Ephemeroptera		
...Baetidae	6	8
...Ephemeridae	-	3
...Heptageniidae	1	1
..Plecoptera		
...Capniidae	-	3
...Perlodidae	1	2
..Trichoptera		
...Hydropsychidae	8	16
...Hydroptilidae	1	-

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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
DEC							
13...	1100	.35	.5	23	.02	--	--
MAR							
05...	1600	3.5	.0	158	1.5	48	65
MAY							
02...	0915	100	6.0	1770	478	37	40
22...	1615	173	14.0	1930	902	32	37
JUN							
27...	1345	19	19.0	94	4.8	--	--
SEP							
19...	1700	3.7	16.0	11	.11	--	--

09312900 WILLOW CREEK AT CASTLE GATE, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	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	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM
DEC						
13...	--	--	--	--	--	--
MAR						
05...	93	100	--	--	--	--
MAY						
02...	48	73	87	95	99	100
22...	50	71	82	92	99	100
JUN						
27...	--	--	--	--	--	--
SEP						
19...	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
DEC							
13...	1100	.35	.5	2	3	4	6

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
DEC						
13...	8	12	20	30	40	49

09313000 PRICE RIVER NEAR HEINER, UTAH

LOCATION.--Lat 39°43'08", long 110°51'55" in SW1/4SE1/4SW1/4, 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 September 1980.

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 fair. Flow affected by regulation of the Scofield Reservoir.

AVERAGE DISCHARGE.--36 years (water years 1934-69, 1979-80), 113 ft^3/s (3.20 m^3/s), 81,870 acre-ft/yr (100.9 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, 1,100 ft^3/s (31.2 m^3/s) May 31, gage height, 4.65 ft (1.417 m); minimum, 3.6 ft^3/s (0.102 m^3/s) Nov. 11, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	12	13	12	19	19	74	549	1050	297	205	112
2	66	12	13	13	19	21	74	544	1060	290	203	108
3	57	18	13	12	18	22	78	559	1020	263	189	105
4	53	17	13	13	18	20	80	609	1020	249	181	113
5	52	19	13	14	16	19	85	675	1000	242	175	119
6	53	16	12	14	16	16	88	771	1050	228	170	121
7	55	16	12	14	15	15	86	807	1040	221	161	129
8	53	20	12	14	14	15	137	819	990	227	160	152
9	52	14	12	14	16	16	230	819	963	227	156	156
10	53	13	12	14	17	19	247	855	963	228	169	166
11	54	14	12	18	16	19	250	801	951	218	166	56
12	54	13	12	17	14	19	250	729	933	226	173	43
13	54	14	11	17	14	20	254	633	885	221	191	39
14	55	14	11	19	15	20	261	589	861	204	202	36
15	54	12	10	18	16	20	230	579	819	209	208	32
16	48	12	12	19	17	24	149	579	765	235	212	30
17	22	14	10	19	18	42	177	589	711	236	205	31
18	19	21	9.9	19	21	51	213	569	589	240	194	36
19	19	13	10	19	19	56	258	574	554	239	194	50
20	28	16	12	20	23	53	325	627	450	234	196	62
21	28	14	12	20	20	49	365	711	425	227	182	64
22	24	14	14	20	19	29	424	777	393	230	172	61
23	21	14	15	19	19	26	509	861	371	235	175	59
24	20	14	15	17	16	25	519	837	339	248	174	51
25	19	15	14	18	16	23	574	825	321	235	187	38
26	21	14	13	18	17	28	494	801	291	228	174	37
27	20	14	13	19	19	121	504	795	282	215	146	63
28	20	14	12	18	19	124	544	849	273	214	125	64
29	17	14	12	18	21	120	627	990	292	216	119	64
30	14	13	12	18	---	104	599	1070	292	216	116	64
31	11	---	12	19	---	76	---	1070	---	206	115	---
TOTAL	1189	440	378.9	523	507	1231	8705	22862	20953	7204	5395	2261
MEAN	38.4	14.7	12.2	16.9	17.5	39.7	290	737	698	232	174	75.4
MAX	73	21	15	20	23	124	627	1070	1060	297	212	166
MIN	11	12	9.9	12	14	15	74	544	273	204	115	30
AC-FT	2360	873	752	1040	1010	2440	17270	45350	41560	14290	10700	4480

WTR YR 1980 TOTAL 71648.9 MEAN 196 MAX 1070 MIN 9.9 AC-FT 142100

09313000 PRICE RIVER NEAR HEINER, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1979 to September 1980.
SEDIMENT DATA: December 1979 to September 1980, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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										
13...	1600	54	390	8.7	20.5	12.5	9.8	--	--	--
NOV										
10...	0945	6.8	930	8.1	5.5	1.0	11.9	--	--	--
DEC										
13...	1515	12	810	8.6	1.0	2.0	11.8	.89	K1	K9
JAN										
16...	1440	20	700	8.1	2.0	2.5	11.0	--	--	--
FEB										
06...	1500	14	680	8.4	7.0	2.0	11.1	--	--	--
MAR										
05...	1130	19	760	8.3	4.0	3.0	11.8	.88	<1	210
APR										
09...	1020	218	385	8.1	11.0	3.0	11.0	--	--	--
MAY										
23...	1200	918	530	8.9	18.0	9.0	9.4	--	--	--
JUN										
27...	0915	282	470	8.4	19.5	15.0	8.1	.66	41	86
JUL										
12...	1245	221	435	8.7	25.0	18.0	8.1	--	--	--
AUG										
16...	1500	204	380	8.8	25.0	19.0	7.8	--	--	--
SEP										
19...	0930	56	540	8.5	22.0	16.0	8.0	.20	67	210

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)
OCT										
13...	190	24	45	20	13	13	.4	15	1.7	190
NOV										
10...	390	140	85	43	53	35	1.2	56	3.1	310
DEC										
13...	360	71	78	39	44	33	1.0	47	2.5	340
JAN										
16...	290	52	65	31	45	25	1.2	47	2.4	290
FEB										
06...	300	59	65	34	34	20	.9	36	2.1	290
MAR										
05...	310	64	66	34	44	24	1.1	46	2.4	300
APR										
09...	190	18	47	17	8.6	9	.3	--	1.4	210
MAY										
23...	250	0	57	27	22	16	.6	--	1.5	320
JUN										
27...	220	16	54	21	15	13	.4	--	1.4	240
JUL										
12...	200	6	49	19	13	12	.4	--	1.4	220
AUG										
16...	180	19	44	16	9.7	11	.3	--	1.2	180
SEP										
19...	230	42	50	26	27	20	.8	--	1.6	240

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

09313000 PRICE RIVER NEAR HEINER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CARBONATE (MG/L AS CO3)	ALKALINITY (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										
13...	6	170	.6	44	9.7	--	3.3	236	.32	34.5
NOV										
10...	0	260	3.9	180	38	--	9.6	564	.77	10.4
DEC										
13...	6	290	1.4	120	22	.2	11	493	.67	16.0
JAN										
16...	0	240	3.7	110	32	--	9.4	438	.60	23.9
FEB										
06...	2	240	1.9	100	22	--	9.0	411	.56	15.6
MAR										
05...	0	240	2.4	130	28	.2	8.6	464	.63	23.8
APR										
09...	0	180	2.7	30	7.8	--	7.5	223	.30	131
MAY										
23...	2	260	.7	53	9.0	--	14	343	.47	850
JUN										
27...	4	200	1.6	44	8.2	.2	6.1	273	.37	208
JUL										
12...	8	190	.8	31	8.9	--	5.2	244	.33	146
AUG										
16...	8	160	.5	35	7.3	--	4.2	214	.29	118
SEP										
19...	4	210	1.2	70	18	.2	5.6	313	.43	47.3

DATE	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	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, NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT										
13...	--	--	--	--	--	--	--	--	--	--
NOV										
10...	--	--	--	--	--	--	--	--	--	--
DEC										
13...	.50	2.2	.000	.00	.50	.030	.04	.36	.42	.03
JAN										
16...	--	--	--	--	--	--	--	--	--	--
FEB										
06...	--	--	--	--	--	--	--	--	--	--
MAR										
05...	.47	2.1	.010	.03	.48	.000	.00	.40	.45	.05
APR										
09...	--	--	--	--	--	--	--	--	--	--
MAY										
23...	--	--	--	--	--	--	--	--	--	--
JUN										
27...	.13	.58	.000	.00	.13	.010	.01	.52	.53	.00
JUL										
12...	--	--	--	--	--	--	--	--	--	--
AUG										
16...	--	--	--	--	--	--	--	--	--	--
SEP										
19...	.04	.18	.000	.00	.04	.050	.06	.11	1.1	.94

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)
DEC					
13...	.39	.040	.12	.010	.03
MAR					
05...	.40	.020	.06	.010	.03
JUN					
27...	.53	.020	.06	.010	.03
SEP					
19...	.16	.140	.43	.000	.00

09313000 PRICE RIVER NEAR HEINER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTMEBER 1980

DATE	TIME	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
DEC										
13...	1515	2	180	30	0	30	20	3	630	20
MAR										
05...	1130	1	160	<10	0	30	10	3	560	<3
JUN										
27...	0915	1	70	<10	0	7	5	1	300	<3
SEP										
19...	0930	2	120	<10	1	20	4	1	400	7

BENTHIC INVERTEBRATE ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date:	Mar. 5, 1980	Sept. 19, 1980
Time:	1130	0930
Total Count	50	344
Diversity Phylum .Class ..Order ...Family	2.7	3.2
Organism		
Annelida		
..Plesiopora		
...Enchytraeidae	2	3
...Naididae	2	-
...Tubificidae	4	4
Arthropoda		
.Arachnoidea		
..Hydracarina		
...Hygrobatidae	-	2
.Insecta		
..Coleoptera		
...Elmidae	-	2
...Hydrophilidae	-	1
..Diptera		
...Ceratopogonidae	-	1
...Chironomidae	14	12
...Rhagionidae	-	11
..Ephemeroptera		
...Baetidae	4	25
...Ephemeridae	-	13
...Heptageniidae	-	69
...Tricorythidae	-	45
..Lepidoptera		
...Pyralidae	-	1
..Plecoptera		
...Capniidae	-	1
...Perlodidae	-	40
..Trichoptera		
...Brachycentridae	-	73
...Hydropsychidae	12	39
...Lepidostomatidae	-	1
...Rhyacophilidae	5	-
Nematoda		
.Aphasmidia		
..Enoplida		
...Dorycaimidae	7	1

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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
DEC							
13...	1515	12	2.0	82	2.7	--	--
MAR							
05...	1130	19	3.0	58	3.0	--	--
MAY							
01...	0915	540	6.0	1330	1940	30	35
23...	1200	918	9.0	1520	3770	29	34
JUN							
10...	1800	968	16.0	460	1200	--	--
27...	0915	282	15.0	115	88	--	--
SEP							
19...	0930	56	16.0	295	45	--	--

09313000 PRICE RIVER NEAR HEINER, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	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	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM
DEC						
13...	--	--	--	--	--	--
MAR						
05...	--	--	--	--	--	--
MAY						
01...	46	73	86	95	97	100
23...	54	77	87	95	99	100
JUN						
10...	--	--	--	--	--	--
27...	--	--	--	--	--	--
SEP						
19...	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
MAR							
05...	1130	19	3.0	2	4	12	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
MAR						
05...	32	38	47	59	79	100

09313040 SPRING CANYON BELOW SOWBELLY GULCH, AT HELPER, UTAH

LOCATION.--Lat 39°41'19", long 110°53'09", in NE1/4NW1/4NW1/4 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 current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,110 ft (1,862 m) from topographic map.

REMARKS.--Records good except those for winter period and periods when sediment or debris were covering the orifice on many days in May, June, and Sept., which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 167 ft^3/s (4.73 m^3/s) Aug. 25, 1980, gage height, 2.51 ft (0.765 m) from rating curve extended above 50 ft^3/s (1.42 m^3/s); 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)
Aug. 25	1430	*167	4.73	2.51	0.765
Sept. 12	2200	72	2.04	1.95	0.594

Minimum, 0.13 ft^3/s (0.004 m^3/s) Apr. 4-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	.27	.39	.18	.26	.28	.17	.29	.35	.33	.38	.54
2	.16	.28	.35	.20	.30	.28	.16	.28	.31	.34	.37	.54
3	.16	.31	.35	.22	.31	.28	.16	.25	.50	.32	.38	.50
4	.17	.33	.35	.22	.28	.28	.13	.28	.35	.32	.40	.50
5	.19	.31	.35	.22	.29	.28	.13	.63	.31	.31	.41	.50
6	.19	.33	.35	.22	.28	.26	.13	.91	.31	.32	.41	.50
7	.19	.36	.31	.22	.28	.27	.13	.63	.39	.30	.41	.54
8	.19	.32	.31	.22	.27	.28	.13	.42	.31	.34	.44	.50
9	.19	.31	.28	.22	.26	.25	.13	.39	.33	.34	.50	.68
10	.19	.31	.28	.21	.27	.24	.15	.73	.33	.31	.50	.63
11	.19	.31	.21	.20	.28	.25	.13	.59	.30	.29	.47	.52
12	.19	.31	.22	.22	.28	.25	.16	.73	.30	.33	.47	1.3
13	.20	.31	.23	.22	.28	.26	.16	.54	.31	.35	.53	.45
14	.19	.31	.23	.26	.28	.25	.17	.49	.30	.33	.52	.45
15	.24	.31	.22	.25	.28	.25	.20	.46	.30	.33	.53	.45
16	.27	.31	.22	.25	.29	.25	.20	.63	.31	.33	.53	.42
17	.25	.31	.22	.25	.31	.25	.22	.63	.30	.33	.54	.46
18	.26	.35	.22	.25	.35	.26	.24	.37	.31	.30	.54	.50
19	.29	.35	.22	.25	.33	.25	.24	.42	.30	.32	.50	.54
20	.31	.39	.21	.26	.32	.27	.28	.35	.30	.32	.50	.63
21	.31	.42	.19	.25	.27	.25	.25	.31	.31	.32	.50	.85
22	.31	.46	.19	.23	.28	.19	.25	.46	.31	.31	.50	.79
23	.30	.46	.19	.26	.28	.21	.25	.63	.30	.34	.54	.68
24	.33	.46	.19	.26	.27	.23	.22	.58	.31	.34	.54	.63
25	.33	.36	.19	.28	.29	.24	.22	.46	.31	.31	6.3	.73
26	.31	.33	.19	.25	.28	.24	.22	.22	.29	.34	.54	.73
27	.30	.34	.19	.25	.28	.29	.22	.25	.28	.36	.54	.68
28	.31	.32	.19	.25	.28	.24	.26	.28	.31	.33	.54	.73
29	.31	.23	.16	.26	.28	.17	.26	.35	.30	.37	.54	.73
30	.33	.25	.16	.25	---	.16	.28	.31	.32	.37	.54	.68
31	.29	---	.16	.25	---	.17	---	.35	---	.38	.54	---
TOTAL	7.61	10.02	7.52	7.33	8.31	7.63	5.85	14.22	9.56	10.23	20.95	18.38
MEAN	.25	.33	.24	.24	.29	.25	.20	.46	.32	.33	.68	.61
MAX	.33	.46	.39	.28	.35	.29	.28	.91	.50	.38	6.3	1.3
MIN	.16	.23	.16	.18	.26	.16	.13	.22	.28	.29	.37	.42
AC-FT	15	20	15	15	16	15	12	28	19	20	42	36

CAL YR 1979 TOTAL 53.01 MEAN .15 MAX .46 MIN .04 AC-FT 105
WTR YR 1980 TOTAL 127.61 MEAN .35 MAX 6.3 MIN .13 AC-FT 253

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 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	COLOR (PLAT-INUM COBALT UNITS)	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											
13...	1100	.21	2430	8.3	19.0	11.0	--	9.1	--	--	--
NOV											
08...	1410	.28	2900	8.0	12.0	10.0	--	8.9	--	--	--
DEC											
14...	1045	.25	3050	8.1	-1.5	4.0	--	10.8	7.4	K0	K9
JAN											
17...	0900	.23	2950	8.1	4.0	6.0	--	10.0	--	--	--
FEB											
07...	1115	.29	3000	8.2	1.0	6.0	--	10.7	--	--	--
MAR											
06...	1030	.24	3000	8.1	1.5	7.5	--	10.2	7.4	<1	32
APR											
07...	1600	.14	2950	8.2	3.5	10.5	--	9.7	--	--	--
MAY											
21...	1845	.27	2850	8.2	27.0	16.0	--	8.0	--	--	--
JUN											
23...	1730	.27	3080	8.3	21.5	19.5	--	7.6	7.1	K11	390
JUL											
10...	1015	.34	2800	8.2	23.0	14.5	--	8.7	--	--	--
AUG											
16...	1000	.58	2750	8.3	19.0	13.0	--	8.6	--	--	--
SEP											
16...	1515	.40	3050	8.2	23.0	19.0	0	7.6	--	K11	66

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
OCT											
13...	1600	1200	210	260	150	37	1.6	170	21	500	0
NOV											
08...	1500	1100	180	260	140	39	1.6	160	20	480	0
DEC											
14...	1700	1300	200	290	140	15	1.5	160	21	500	0
JAN											
17...	1700	1300	210	280	140	15	1.5	160	18	500	0
FEB											
07...	1600	1200	200	270	140	16	1.5	160	17	480	0
MAR											
06...	1800	1400	220	310	150	15	1.5	170	20	480	0
APR											
07...	1600	1200	210	250	150	17	1.7	170	21	470	0
MAY											
21...	1600	1200	210	260	130	15	1.4	--	19	460	0
JUN											
23...	1700	1300	210	280	150	16	1.6	--	18	460	0
JUL											
10...	1500	1100	190	260	130	15	1.4	--	20	460	0
AUG											
16...	1600	1200	210	250	120	14	1.3	--	18	470	0
SEP											
16...	1700	1300	200	280	150	16	1.6	--	21	480	0

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

09313040 SPRING CANYON BELOW SOWBELLY GULCH, AT HELPER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	ALKALINITY (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)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)
OCT										
13...	410	4.0	1300	120	--	13	2320	3.16	1.28	10
NOV										
08...	390	7.7	1300	74	--	14	2220	3.02	1.68	--
DEC										
14...	410	6.4	1400	99	.4	14	2440	3.32	1.65	--
JAN										
17...	410	6.4	1300	87	--	12	2290	3.11	1.45	--
FEB										
07...	390	4.8	1300	90	--	14	2270	3.09	1.78	--
MAR										
06...	390	6.1	1400	89	.4	16	2470	3.36	1.60	--
APR										
07...	390	4.7	1400	93	--	10	2370	3.22	.90	--
MAY										
21...	370	4.6	1400	79	--	13	2340	3.18	1.71	--
JUN										
23...	380	3.7	1400	85	.4	12	2410	3.28	1.76	--
JUL										
10...	380	4.6	1300	79	--	6.3	2210	3.01	2.03	--
AUG										
16...	380	3.8	1300	79	--	8.0	2220	3.02	3.48	--
SEP										
16...	390	4.7	1400	88	.5	14	2420	3.29	2.61	--

DATE	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	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, NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT										
13...	--	--	--	--	--	--	--	--	--	--
NOV										
08...	--	--	--	--	--	--	--	--	--	--
DEC										
14...	6.7	30	.000	.00	6.7	.010	.01	.68	.76	.07
JAN										
17...	--	--	--	--	--	--	--	--	--	--
FEB										
07...	--	--	--	--	--	--	--	--	--	--
MAR										
06...	6.8	30	.010	.03	6.8	.000	.00	.63	.64	.01
APR										
07...	--	--	--	--	--	--	--	--	--	--
MAY										
21...	--	--	--	--	--	--	--	--	--	--
JUN										
23...	6.3	28	.020	.07	6.3	.040	.05	.75	.89	.10
JUL										
10...	--	--	--	--	--	--	--	--	--	--
AUG										
16...	--	--	--	--	--	--	--	--	--	--
SEP										
16...	--	--	--	--	7.8	--	--	--	--	--

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)
DEC					
14...	.69	.030	.09	.010	.03
MAR					
06...	.63	.000	.00	.000	.00
JUN					
23...	.79	.010	.03	.030	.09
SEP					
16...	--	.020	.06	--	--

09313040 SPRING CANYON BELOW SOWBELLY GULCH, AT HELPER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
DEC										
14...	1045	1	620	50	0	170	30	16	1100	10
MAR										
06...	1030	1	590	30	0	170	20	17	1400	20
JUN										
23...	1730	1	590	20	0	160	20	19	1200	10
SEP										
16...	1515	1	680	50	18	190	20	15	1200	20

BENTHIC INVERTEBRATE ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date:	Dec. 14, 1979	March 6, 1980	June 23, 1980	Sept. 16, 1980
Time:	1045	1030	1730	1515
Total Count	404	1,854	8,422	95
Diversity Phylum				
.Class				
..Order	2.1	0.0	0.0	0.0
...Family	0.0	1.9	1.0	3
Organism				
Annelida				
.Oligochaeta				
..Plesiopora				
...Enchytraeidae	-	38	16	3
...Naididae	-	-	48	1
...Tubificidae	-	19	-	-
Arthropoda				
.Crustacea				
..Podocopa				
...Cypridae	-	-	4	-
.Arachnoidea				
..Hydracarina	2	-	-	-
.Insecta				
..Coleoptera	-	-	1	-
...Dryopidae				
...Dytiscidae	2	5	17	-
...Elmidae	-	1	-	-
...Hydrophilidae	-	-	16	1
..Diptera				
...Canaceidae	-	-	12	-
...Ceratopogonidae	-	1	4	-
...Chironomidae	88	1,068	1,640	19
...Empididae	16	20	32	-
...Muscidae	4	15	12	-
...Psychodidae	-	2	-	-
...Simuliidae	166	340	6,572	-
...Tipulidae	16	15	14	1
..Ephemeroptera	102	-	-	-
...Baetidae	-	300	20	-
..Trichoptera	8	-	-	-
...Brachycentridae	-	-	-	1
...Hydropsychidae	-	21	12	68
...Limnephilidae	-	8	2	1
...Rhyacophilidae	-	-	-	1

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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
DEC							
14...	1045	.25	4.0	106	.07	--	--
MAR							
06...	1030	.24	7.5	34	.02	--	--
MAY							
01...	1745	.26	14.0	109	.08	--	--
21...	1845	.27	16.0	591	.43	23	25
JUN							
11...	1815	.27	16.0	62	.05	--	--
23...	1730	.27	19.5	180	.13	--	--
SEP							
16...	1515	.40	19.0	12	.01	--	--

09313040 SPRING CANYON BELOW SOWBELLY GULCH, AT HELPER, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	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	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM
DEC						
14...	--	--	--	--	--	--
MAR						
06...	--	--	--	--	--	--
MAY						
01...	--	--	--	--	--	--
21...	39	49	56	82	98	100
JUN						
11...	--	--	--	--	--	--
23...	--	--	--	--	--	--
SEP						
16...	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
DEC							
14...	1045	.25	4.0	1	1	4	8
MAR							
06...	1030	.24	7.5	4	7	17	32

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
DEC						
14...	17	26	40	55	75	100
MAR						
06...	46	57	68	75	79	93

09313965 COAL CREEK NEAR HELPER, UTAH

LOCATION.--Lat 39°42'09", long 110°40'38", in NW1/4NE1/4NW1/4 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 (seasonal record).

GAGE.--Water-stage recorder. Altitude of gage is 6,370 ft (1,940 m) from topographic map.

REMARKS.--Records good except for May through September, which are poor.

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.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 80 ft^3/s (2.27 m^3/s) May 23; minimum daily recorded, 0.41 ft^3/s (0.012 m^3/s) Nov. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.77	1.0	.43					38	20	7.2	2.2	1.6
2	.77	1.0	.43					43	18	7.7	2.0	1.6
3	.77	1.0	.43					47	18	6.5	1.9	1.5
4	.77	1.1	---					52	18	6.0	1.8	1.3
5	.81	.70	---					58	17	5.3	1.8	1.3
6	.79	.41	---					64	16	5.1	1.8	1.3
7	.82	.43	---					56	15	5.4	1.9	2.5
8	.83	.46	---					46	15	5.2	1.8	2.8
9	.85	.46	---					41	15	5.0	1.7	27
10	.86	.44	---					39	15	5.0	1.6	120
11	.82	.43	---					37	14	4.2	1.6	1.9
12	.82	.43	---					35	13	4.1	1.7	8.7
13	.82	.42	---					34	12	4.8	1.8	3.1
14	.87	.43	---					34	11	4.3	1.7	1.8
15	.87	.44	---					35	11	4.0	23	1.7
16	.86	.45	---					37	10	3.8	1.9	1.6
17	.97	.47	---					37	9.8	3.4	1.6	1.6
18	.97	.48	---					35	9.6	3.3	1.6	1.6
19	.97	.46	---					40	9.6	3.2	1.6	1.5
20	1.7	.45	---					45	9.0	3.0	1.7	1.5
21	1.2	.45	---					52	8.2	2.9	1.6	1.5
22	1.1	.45	---					62	7.8	2.8	1.6	1.5
23	.97	.45	---					80	7.7	2.8	1.6	1.5
24	.93	.45	---					52	7.7	2.7	1.6	1.6
25	.97	.45	---					40	7.0	2.6	30	1.6
26	.97	.44	---					33	6.9	2.5	2.0	1.3
27	.86	.44	---					27	6.6	2.4	1.6	1.3
28	.97	.44	---					25	6.4	2.4	1.5	1.6
29	.97	.44	---					24	6.5	2.4	1.6	1.6
30	1.1	.44	---					23	6.7	2.4	1.4	1.6
31	1.0	---	---					21	---	2.2	1.6	---
TOTAL	28.75	15.91	---					1292	347.5	124.6	102.8	201.0
MEAN	.93	.53	---					41.7	11.6	4.02	3.32	6.70
MAX	1.7	1.1	---					80	20	7.7	30	120
MIN	.77	.41	---					21	6.4	2.2	1.4	1.3
AC-FT	57	32	---					2560	689	247	204	399

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 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)
SEP 25...	1330	.56	920	8.7	22.0	15.0	8.0	350

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)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
SEP 25...	10	53	54	87	34	2.0	4.8	380	20

DATE	ALKA-LINITY (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)	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)
SEP 25...	350	1.3	160	20	8.7	595	.81	.90

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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 11...	1140	.89	940	8.7	22.5	9.0	10.3	--	--	--
NOV 06...	1015	.41	1120	8.4	7.5	.0	11.6	.63	100	43
MAY 26...	1130	33	760	8.5	11.0	4.0	10.4	.52	K1	K10
JUN 25...	1800	7.0	880	8.8	27.0	18.5	7.5	--	--	--
JUL 11...	1800	4.2	880	8.6	30.0	22.0	6.8	--	--	--
13...	1530	4.9	900	8.7	26.5	19.5	7.3	--	--	--
AUG 14...	1430	2.2	810	8.7	28.0	22.5	6.9	.32	K11	800
SEP 18...	1315	1.6	910	8.6	21.0	14.0	8.3	--	--	--

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)
OCT 11...	380	41	57	58	86	33	1.9	91	4.5	360
NOV 06...	500	99	71	78	99	30	1.9	100	4.5	460
MAY 26...	350	40	67	43	39	20	.9	--	2.4	350
JUN 25...	380	110	53	59	55	24	1.2	--	3.6	330
JUL 11...	360	58	47	60	62	27	1.4	--	3.8	340
13...	370	110	51	58	59	26	1.3	--	3.4	--
AUG 14...	400	100	78	49	22	11	.5	--	2.9	320
SEP 18...	330	49	46	52	73	32	1.8	--	3.1	370

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

09313965 COAL CREEK NEAR HELPER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CARBONATE (MG/L AS CO3)	ALKALINITY (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										
11...	26	340	1.3	190	19	--	7.6	625	.85	1.50
NOV										
06...	14	400	3.1	270	23	.5	9.3	798	1.09	.88
MAY										
26...	14	310	1.9	110	11	.4	8.3	469	.64	41.8
JUN										
25...	20	300	.9	160	16	--	8.5	517	.70	9.77
JUL										
11...	14	300	1.5	180	15	--	8.8	558	.76	6.33
13...	--	260	--	170	17	--	8.9	524	.71	6.89
AUG										
14...	22	300	1.2	150	15	.3	8.7	507	.69	3.01
SEP										
18...	14	320	1.4	160	19	--	8.4	530	.72	2.29

DATE	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	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, NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT										
11...	--	--	--	--	--	--	--	--	--	--
NOV										
06...	.22	.97	.009	.03	.23	.000	.00	.40	.84	.44
MAY										
26...	.18	.80	.000	.00	.18	.040	.05	.30	.43	.09
JUN										
25...	--	--	--	--	--	--	--	--	--	--
JUL										
11...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
AUG										
14...	.07	.31	.000	.00	.07	.060	.08	.19	.31	.06
SEP										
18...	--	--	--	--	--	--	--	--	--	--

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)
NOV					
06...	.40	.020	.06	.010	.03
MAY					
26...	.34	.160	.49	.040	.12
AUG					
14...	.25	.000	.00	.000	.00

DATE	TIME	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
NOV										
06...	1015	2	170	10	0	50	40	3	710	5
MAY										
26...	1130	1	70	20	1	20	2	3	470	70
AUG										
14...	1430	1	110	<10	1	20	4	1	510	20

09313965 COAL CREEK NEAR HELPER, UT--Continued

BENTHIC INVERTEBRATE ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date:	Nov. 6, 1979	Aug. 14, 1980
Time:	1015	1430
Total Count	756	1,474
Diversity Phylum		
.Class		
..Order	1.4	0.0
...Family	0.0	1.1
Organism		
Arthropoda		
.Arachnoidea		
..Hydracarina		
...Sperchonidae	-	4
.Insecta		
..Coleoptera		
...Dytiscidae	-	20
..Diptera		
...Ceratopogonidae	-	8
...Chironomidae	56	56
...Empididae	-	4
...Simuliidae	196	72
..Ephemeroptera	462	-
...Baetidae	-	1,188
..Plecoptera		
...Capniidae	-	16
..Trichoptera	42	-
...Hydropsychidae	-	116

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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
NOV							
06...	1015	.41	.0	150	.17	--	--
MAY							
01...	1430	49	9.5	2280	302	22	26
26...	1130	33	4.0	269	24	45	53
AUG							
14...	1430	2.2	22.5	6	.04	--	--

DATE	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	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM
NOV						
06...	--	--	--	--	--	--
MAY						
01...	41	64	78	94	99	100
26...	68	95	98	100	--	--
AUG						
14...	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL 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	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
NOV												
06...	1015	.41	.0	2	4	13	20	31	47	73	95	100

09313975 SOLDIER CREEK BELOW MINE, NEAR WELLINGTON, UTAH

LOCATION.--Lat 39°41'43", long 110°36'52", in NW1/4NW1/4SE1/4 sec.18, T.13 S., R.12 E., Carbon County, Hydrologic Unit 14060007, on right bank, 16 mi (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 records).

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 recorded discharge, 789 ft^3/s (22.3 m^3/s) Aug. 25, Sept. 10,1980, gage height, 3.27 ft (0.997 m); minimum recorded, 0.18 ft^3/s (0.005 m^3/s) Aug. 23.

EXTREMES FOR CURRENT YEAR.--Maximum recorded discharge, 789 ft^3/s (22.3 m^3/s) Aug. 25, Sept. 10, gage height, 3.27 ft (0.997 m); minimum recorded, 0.31 ft^3/s (0.009 m^3/s) Nov. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	.58	.48					34	18	6.1	1.9	1.2
2	.50	.57	.48					36	17	6.7	1.7	1.2
3	.50	.57	.48					39	16	5.6	1.6	1.2
4	.50	.57	---					43	16	5.0	1.6	1.0
5	.50	.58	---					48	15	4.7	1.5	.99
6	.50	.53	---					58	14	4.4	1.5	.99
7	.53	.57	---					50	13	4.7	1.6	1.9
8	.53	.59	---					45	13	4.7	1.6	2.2
9	.53	.58	---					40	13	4.4	1.5	20
10	.53	.56	---					36	12	4.4	1.3	90
11	.56	.57	---					33	12	3.9	1.3	1.4
12	.56	.56	---					31	11	3.6	1.3	6.7
13	.54	.56	---					30	10	3.9	1.5	2.8
14	.55	.56	---					30	10	3.6	1.4	1.4
15	.56	.56	---					32	9.5	3.6	3.4	1.3
16	.57	.56	---					33	9.0	3.4	1.4	1.2
17	.57	.56	---					34	8.7	3.0	1.2	1.2
18	.64	.64	---					31	8.6	3.0	1.0	1.2
19	.62	.57	---					35	8.6	2.9	1.2	1.2
20	1.0	.55	---					38	8.0	2.7	1.3	1.1
21	.67	.54	---					46	7.4	2.7	1.0	1.1
22	.60	.52	---					54	7.0	2.5	.99	1.1
23	.64	.51	---					72	7.1	2.5	1.0	1.1
24	.59	.50	---					56	7.0	2.4	1.0	1.2
25	.59	.49	---					40	6.7	2.4	23	1.2
26	.59	.49	---					31	6.3	2.2	1.6	1.0
27	.60	.49	---					28	6.0	2.1	1.2	1.0
28	.58	.48	---					25	5.8	2.1	1.1	1.2
29	.59	.48	---					22	5.7	2.1	1.2	1.2
30	.59	.48	---					20	6.0	2.1	1.1	1.2
31	.62	---	---					19	---	1.9	1.2	---
TOTAL	17.95	16.37	---					1169	307.4	109.3	65.19	151.48
MEAN	.58	.55	---					37.7	10.2	3.53	2.10	5.05
MAX	1.0	.64	---					72	18	6.7	23	90
MIN	.50	.48	---					19	5.7	1.9	.99	.99
AC-FT	36	32	---					2320	610	217	129	300

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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)
SEP								
25...	1800	1.9	560	8.7	27.5	15.0	7.9	150

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)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
SEP									
25...	0	31	18	63	47	2.2	4.5	240	14

DATE	ALKA-LINITY (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)	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)
SEP								
25...	210	2.1	88	9.2	7.5	538	.73	2.79

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT												
11...	1030	.53	900	8.5	12.0	5.0	10.2	--	--	--	390	53
NOV												
07...	1015	.68	1020	8.3	7.0	.0	11.5	.30	280	320	390	0
MAY												
08...	0950	45	500	--	--	--	--	1.0	--	--	210	5
20...	1430	39	590	8.5	23.0	13.0	8.3	.45	K1	K9	290	14
JUN												
25...	1445	6.6	740	8.8	27.0	20.5	7.4	--	--	--	310	6
JUL												
11...	1415	4.0	700	8.6	23.5	21.0	6.8	--	--	--	280	0
AUG												
14...	1415	1.7	1080	8.8	22.0	22.0	7.2	.31	51	280	370	28
SEP												
04...	0930	1.4	1050	--	--	9.0	--	--	--	--	380	46
22...	1445	1.3	910	8.6	17.0	14.0	8.2	--	--	--	330	12

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT												
11...	61	57	82	31	1.8	85	3.2	390	10	340	2.1	170
NOV												
07...	65	56	86	53	1.9	89	2.8	480	0	390	3.8	200
MAY												
08...	48	23	21	17	.6	--	2.2	--	--	210	--	44
20...	62	32	25	16	.6	--	1.6	320	8	280	1.7	58
JUN												
25...	53	44	48	25	1.2	--	2.6	330	20	300	.9	110
JUL												
11...	43	43	46	26	1.2	--	2.1	320	12	280	1.4	62
AUG												
14...	53	58	110	39	2.5	--	8.0	380	18	340	1.1	230
SEP												
04...	55	58	110	38	2.5	--	6.6	--	--	330	--	230
22...	49	51	78	34	1.9	--	2.3	420	12	360	1.6	130

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

09313975 SOLDIER CREEK BELOW MINE, NEAR WELLINGTON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)
OCT											
11...	15	--	8.2	599	.81	.86	--	--	--	--	--
NOV											
07...	16	.4	8.8	672	.91	1.23	--	.02	.09	--	.010
MAY											
08...	5.2	.2	6.9	277	.38	33.7	.10	.14	.62	.010	.010
20...	6.3	.4	7.6	359	.49	37.8	--	.07	<.31	--	.000
JUN											
25...	11	--	8.2	459	.62	8.18	--	--	--	--	--
JUL											
11...	11	--	8.2	385	.52	4.16	--	--	--	--	--
AUG											
14...	22	.5	8.2	696	.95	3.19	--	.00	.00	--	.000
SEP											
04...	25	.6	8.2	692	.94	2.54	--	--	--	--	--
22...	17	--	8.3	528	.72	1.85	--	--	--	--	--

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA 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)
OCT											
11...	--	--	--	--	--	--	--	--	--	--	--
NOV											
07...	.03	--	.03	--	.000	--	.00	--	.27	.67	.40
MAY											
08...	.03	.11	.15	.010	.040	.01	.05	.95	.85	.96	.07
20...	.00	--	.07	--	.010	--	.01	--	.37	2.9	2.5
JUN											
25...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG											
14...	.00	--	.00	--	.130	--	.17	--	.18	.39	.08
SEP											
04...	--	--	.00	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE TOTAL (MG/L AS PO4)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE TOTAL (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)
NOV										
07...	.27	--	--	.030	--	.09	--	--	.010	.03
MAY										
08...	.89	1.1	4.7	.340	.34	1.0	.080	.110	.040	.12
20...	.38	--	--	.250	--	.77	--	--	.040	.12
AUG										
14...	.31	--	--	.010	--	.03	--	--	.000	.00

DATE	TIME	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV							
07...	1015	3	110	--	--	20	0
MAY							
08...	0950	0	40	<1	2	20	1
20...	1430	1	50	--	--	<10	0
AUG							
14...	1415	2	280	--	--	20	2

09313975 SOLDIER CREEK BELOW MINE, NEAR WELLINGTON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV						
07...	30	70	--	1	630	4
MAY						
08...	--	--	.0	1	--	<3
20...	20	8	--	2	340	<3
AUG						
14...	60	30	--	1	580	<3

BENTHIC INVERTEBRATE ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date:	Nov. 7, 1979	Aug. 14, 1980
Time:	1215	1415
Total Count	434	2,920
Diversity Phylum		
.Class		
..Order	1.3	0.0
...Family	0.0	1.7
Organism		
Arthropoda		
.Arachnoidea		
..Hydracarina		
...Sperchonidae	-	16
.Insecta		
..Coleoptera		
...Dytiscidae	-	28
..Diptera		
...Ceratopogonidae	2	-
...Chironomidae	52	124
...Empididae	-	20
...Simuliidae	8	792
...Stratiomyidae	-	4
..Ephemeroptera	318	-
...Baetidae	-	1,672
...Heptageniidae	-	8
..Plecoptera	10	-
...Capniidae	-	32
...Perlodidae	-	4
..Trichoptera	44	-
...Hydropsychidae	-	220
...Hydroptilidae	-	8

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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
NOV							
07...	1015	.68	.0	144	.26	--	--
APR							
30...	1100	30	4.0	405	33	44	50
MAY							
20...	1430	39	13.0	368	39	28	35
AUG							
14...	1415	1.7	22.0	11	.05	--	--

DATE	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	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM
NOV						
07...	--	--	--	--	--	--
APR						
30...	61	79	87	98	99	100
MAY						
20...	64	86	95	99	100	--
AUG						
14...	--	--	--	--	--	--

09313975 SOLDIER CREEK BELOW MINE, NEAR WELLINGTON, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
NOV 07...	1015	.68	.0	9	13	21	30

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
NOV 07...	39	47	59	76	96	100

09313985 DUGOUT CREEK NEAR SUNNYSIDE, UTAH

LOCATION.--Lat 39°40'47", long 110°32'52", in NW1/4NW1/4SW1/4, 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 1980 (seasonal).

GAGE.--Water-stage recorder. Altitude of gage is 6,960 ft (2,121 m) from topographic map.

REMARKS.--Records good except those for Oct., Nov., and May, which are fair.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 37 ft^3/s (1.05 m^3/s) May 23; minimum daily, 0.07 ft^3/s (0.002 m^3/s) Nov. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.17	.11						16	9.6	2.7	.82	.29
2	.17	.10						18	9.0	2.8	.74	.23
3	.17	.08						19	8.3	2.6	.74	.23
4	.17	.17						21	8.3	2.4	.74	.23
5	.17	.13						24	8.3	2.4	.74	.17
6	.17	.08						29	8.0	2.2	.66	.17
7	.17	.13						24	8.0	2.2	.66	.66
8	.17	.17						21	7.6	2.0	.58	.43
9	.17	.08						19	6.7	1.9	.58	.91
10	.17	.08						18	6.2	1.8	.58	35
11	.17	.09						17	5.8	1.7	.58	.57
12	.17	.08						16	5.1	1.7	.50	1.5
13	.17	.09						16	4.7	1.6	.50	.54
14	.17	.09						16	4.4	1.6	.58	.32
15	.17	.09						16	4.3	1.4	.74	.30
16	.21	.09						17	4.1	1.4	.66	.28
17	.26	.07						18	4.0	1.3	.58	.28
18	.26	.08						16	3.7	1.3	.50	.29
19	.26	.09						17	3.6	1.2	.43	.36
20	.38	.10						19	3.4	1.2	.50	.36
21	.26	.10						22	3.3	1.2	.43	.36
22	.26	.10						27	3.2	1.1	.43	.36
23	.30	.10						37	3.1	1.1	.58	.36
24	.26	.10						27	3.1	1.0	.58	.29
25	.21	.10						22	2.9	1.0	2.0	.11
26	.26	.10						19	2.8	1.0	.66	.11
27	.26	.10						16	2.7	.91	.50	.11
28	.21	.10						13	2.7	.91	.43	.23
29	.26	.10						12	2.6	.91	.36	.36
30	.21	.10						11	2.6	1.0	.36	.36
31	.12	---						10	---	.82	.36	---
TOTAL	6.53	3.00						593	152.1	48.35	19.10	45.77
MEAN	.21	.10						19.1	5.07	1.56	.62	1.53
MAX	.38	.17						37	9.6	2.8	2.0	35
MIN	.12	.07						10	2.6	.82	.36	.11
AC-FT	13	6.0						1180	302	96	38	91

09313985 DUGOUT CREEK NEAR SUNNYSIDE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1979 to September 1980.
SEDIMENT DATA: November 1979 to September 1980, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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										
11...	1600	.15	640	8.4	20.0	10.0	8.9	--	--	--
NOV										
08...	0915	.16	680	8.1	7.0	4.0	9.4	.35	K16	29
MAY										
20...	1045	19	590	8.3	15.0	5.0	10.0	.65	K2	K2
JUN										
25...	1200	2.9	600	8.5	16.0	11.5	8.6	--	--	--
JUL										
11...	1015	1.6	620	8.4	17.0	9.5	9.0	--	--	--
13...	1030	1.7	630	8.5	19.5	12.0	8.1	--	--	--
AUG										
14...	1015	.57	640	8.6	19.5	13.0	7.9	.36	47	1200
SEP										
18...	1815	.28	660	8.4	19.0	12.0	8.2	--	--	--

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)
OCT										
11...	340	63	56	48	24	13	.6	27	2.9	330
NOV										
08...	340	20	55	48	26	29	.6	29	3.1	390
MAY										
20...	300	21	62	36	15	10	.4	--	1.7	340
JUN										
25...	300	24	53	41	18	11	.5	--	1.8	320
JUL										
11...	300	19	50	42	20	13	.5	--	2.1	330
13...	300	64	51	43	20	12	.5	--	2.0	--
AUG										
14...	320	44	54	46	23	13	.6	--	2.8	320
SEP										
18...	310	44	55	43	22	13	.5	--	2.4	340

DATE	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (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										
11...	4	280	2.2	78	5.5	--	9.0	390	.53	.16
NOV										
08...	0	320	5.0	80	5.7	.2	8.9	419	.57	.18
MAY										
20...	0	280	2.7	51	4.9	.3	7.7	348	.47	17.9
JUN										
25...	8	280	1.7	65	6.6	--	7.9	359	.49	2.85
JUL										
11...	6	280	2.2	83	5.3	--	8.0	379	.52	1.67
13...	--	240	--	74	5.6	--	8.3	348	.47	1.59
AUG										
14...	8	280	1.4	82	6.4	.4	8.7	389	.53	.60
SEP										
18...	2	280	2.1	87	6.1	--	8.6	386	.53	.29

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

09313985 DUGOUT CREEK NEAR SUNNYSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	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, NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT										
11...	--	--	--	--	--	--	--	--	--	--
NOV										
08...	.00	.00	.000	.00	.00	.000	.00	.35	1.1	.75
MAY										
20...	.21	<.93	.000	.00	.21	.010	.01	.43	.63	.19
JUN										
25...	--	--	--	--	--	--	--	--	--	--
JUL										
11...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
AUG										
14...	.00	<.00	.000	.00	.00	.040	.05	.32	.37	.01
SEP										
18...	--	--	--	--	--	--	--	--	--	--

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)
NOV					
08...	.35	.010	.03	.010	.03
MAY					
20...	.44	.090	.28	.060	.18
AUG					
14...	.36	.010	.03	.000	.00

DATE	TIME	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
NOV										
08...	0915	2	70	<10	0	30	<1	0	350	<3
MAY										
20...	1045	1	7	<10	1	10	2	1	320	<3
AUG										
14...	1015	1	100	<10	4	10	2	1	380	<3

09313985 DUGOUT CREEK NEAR SUNNYSIDE, UT--Continued

BENTHIC INVERTEBRATE ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTMEBER 1980

Date:	Nov. 8, 1979	Aug. 14, 1980
Time:	1115	1015
Total Count	810	1,505
Diversity Phylum		
.Class		
..Order	1.8	0.0
...Family	0.0	1.7
Organism		
Annelida		
..Plesiopora		
...Enchytraeidae	-	1
Arthropoda		
.Insecta		
..Coleoptera		
...Dytiscidae	-	1
..Collembola	6	-
..Diptera		
...Chironomidae	22	94
...Empididae	4	16
...Psychodidae	82	-
...Simuliidae	-	47
...Tipulidae	12	5
..Ephemeroptera	486	-
...Baetidae	-	1,031
...Heptageniidae	-	27
..Plecoptera	58	-
...Capniidae	-	68
...Nemouridae	-	5
...Perlodidae	-	13
..Trichoptera	140	-
...Hydropsychidae	-	181
...Limnephilidae	-	15
Nematoda		
.Aphasmidia		
..Enoplida		
...Dorycaimidae	-	1

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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												
08...	0915	.16	4.0	146	.06	--	--	--	--	--	--	--
APR												
30...	1530	14	14.5	1000	38	24	27	35	60	77	96	100
MAY												
20...	1045	19	5.0	255	13	28	30	36	58	70	91	100
AUG												
14...	1015	.57	13.0	8	.01	--	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
NOV							
08...	0915	.16	4.0	5	7	16	25

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
NOV						
08...	31	36	47	64	77	100

09314250 PRICE RIVER BELOW MILLER CREEK,NEAR WELLINGTON, UTAH

LOCATION.--Lat 39°26'59", long 110°37'38", in SE1/4NE1/4 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, 5,250 ft (1,600 m) from topographic map.

REMARKS.--Records good except those for period of no gage-height record, Nov. 23 to Mar. 9, which are poor. Diversions for irrigation above station. Flow affected by storage in Scofield Reservoir.

AVERAGE DISCHARGE.--8 years, 89.4 ft^3/s (2.53 m^3/s), 64,770 acre-ft/yr (79.9 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)
May 10	0130	1,200	34.0	7.25	2.210
May 30	1630	1,150	32.6	7.06	2.152
Aug. 25	2000	1,370	38.8	7.85	2.393
Sept. 10	0900	*2,110	59.8	10.00	3.048

Minimum, 10 ft^3/s (0.283 m^3/s) Nov. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	39	16	26	14	107	126	750	997	80	44	55
2	17	38	14	25	15	100	126	706	1060	176	41	53
3	18	32	16	21	16	90	129	663	1020	212	40	47
4	13	36	18	21	17	98	134	657	963	118	34	43
5	15	31	19	24	15	88	145	786	951	98	32	39
6	15	29	20	27	15	94	153	936	936	94	31	38
7	14	28	19	23	16	105	149	1040	986	90	29	46
8	18	27	21	22	15	195	133	1030	957	85	27	95
9	17	29	20	24	14	115	268	1010	938	97	30	271
10	17	31	20	26	16	84	313	1100	908	88	31	1350
11	16	33	19	23	19	82	315	967	899	75	31	1900
12	18	31	21	27	22	94	311	999	856	71	30	360
13	21	27	21	29	25	72	312	882	821	66	36	260
14	23	23	20	39	38	77	323	743	764	60	45	230
15	24	19	22	43	50	86	346	709	715	55	50	190
16	25	17	23	53	86	79	259	683	685	49	70	170
17	26	20	21	49	130	78	251	680	621	54	57	140
18	23	22	22	40	570	105	294	652	513	55	48	120
19	22	24	22	35	500	116	318	639	429	53	43	110
20	23	23	24	32	260	120	375	644	366	45	43	102
21	27	22	22	28	210	127	459	694	295	44	47	100
22	29	21	20	25	170	93	466	769	243	43	40	97
23	30	18	19	22	140	89	619	831	215	39	62	94
24	31	23	18	24	120	85	557	832	166	43	55	90
25	30	25	23	22	110	81	690	751	140	52	330	88
26	31	22	22	23	100	74	648	737	114	47	365	80
27	30	20	24	18	96	107	622	699	88	48	96	74
28	29	19	22	16	98	200	656	681	74	47	76	70
29	27	18	20	14	100	198	789	895	65	45	65	74
30	27	17	21	13	---	179	808	986	77	48	59	78
31	26	---	24	14	---	129	---	999	---	40	51	---
TOTAL	704	764	633	828	2997	3347	11094	25150	17862	2217	2038	6464
MEAN	22.7	25.5	20.4	26.7	103	108	370	811	595	71.5	65.7	215
MAX	31	39	24	53	570	200	808	1100	1060	212	365	1900
MIN	13	17	14	13	14	72	126	639	65	39	27	38
AC-FT	1400	1520	1260	1640	5940	6640	22000	49890	35430	4400	4040	12820

CAL YR 1979 TOTAL 39298 MEAN 108 MAX 1180 MIN 13 AC-FT 77950
WTR YR 1980 TOTAL 74098 MEAN 202 MAX 1900 MIN 13 AC-FT 147000

09314280 DESERT SEEP WASH NEAR WELLINGTON, UTAH

LOCATION.--Lat 39°25'16", long 110°38'44", in SW1/4NW1/4 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.

GAGE.--Water-stage recorder. Altitude of gage is 5,235 ft (1,595 m) from topographic map.

REMARKS.--Records good except for period of no gage-height record, Sept. 10-30 and winter period, which are poor. Diversions above station for irrigation.

AVERAGE DISCHARGE.--8 years, 22.2 ft^3/s (0.629 m^3/s), 16,080 acre-ft/yr (19.8 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)
Feb. 18	2000	570	16.1	6.20	1.890
Mar. 7	1630	154	4.36	3.88	1.183
Aug. 26	1100	173	4.90	4.04	1.231
Sept. 11	0900	*904	25.6	7.36	2.243

Minimum discharge, 7.2 ft^3/s (0.204 m^3/s) Dec. 23.

REVISIONS.--The maximum discharges for same water years have been revised, as shown in the following table. They supersede figures published in reports for 1978 and 1979.

Revised daily discharges, in cubic feet per second, for the period Mar. 7-23, 28-31, 1979 are given below. These supersede figures published in the report for 1979.

Mar.	7	78	Mar.	14	282	Mar. 21	103
	8	133		15	182	22	98
	9	172		16	186	23	84
	10	181		17	185	28	84
	11	190		18	148	29	266
	12	206		19	118	30	129
	13	249		20	103	31	106

MONTH	TOTAL	MEAN	MAX	MIN	ACRE-FT
MARCH	3554	115	282	11	7050
WTR YR 1979	9298.7	25.5	282	5.2	18440

Water year	Date	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
1978	July 18, 1978	456	12.9	5.71	1.740
1979	Mar. 13, 1979	429	12.1	5.58	1.701

NOTE: Daily discharge tables on next page.

09314280 DESERT SEEP WASH NEAR WELLINGTON, UT--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	36	11	13	9.0	34	28	28	42	47	26	31
2	13	31	10	13	9.0	32	27	27	47	51	32	31
3	13	23	11	12	10	34	23	36	49	53	35	27
4	11	26	12	12	11	39	22	51	44	56	36	33
5	12	23	13	13	10	32	23	61	34	51	36	24
6	11	22	13	14	10	31	23	63	33	48	33	26
7	12	21	12	12	11	67	22	190	34	47	26	27
8	13	19	14	12	10	79	20	220	37	43	13	40
9	13	22	14	13	9.0	64	19	200	40	42	10	78
10	13	25	14	14	10	50	18	210	39	40	8.6	110
11	11	27	14	12	11	44	19	250	36	38	8.0	390
12	13	26	13	13	12	44	16	240	31	37	7.8	200
13	14	20	13	14	13	33	13	230	30	32	7.7	190
14	15	18	14	19	20	31	15	210	27	33	17	170
15	16	14	14	20	105	32	15	150	30	28	26	70
16	17	13	15	22	125	28	12	120	34	33	25	60
17	19	16	14	24	134	25	11	76	40	27	33	50
18	16	16	15	23	261	25	12	70	49	30	34	45
19	15	17	15	21	212	16	14	62	48	31	29	42
20	16	16	16	16	201	14	34	66	49	32	26	41
21	25	15	14	13	125	14	26	70	46	29	28	39
22	27	14	13	12	90	12	32	72	45	24	24	38
23	28	12	12	11	78	14	34	78	49	25	26	37
24	28	16	11	12	65	11	31	96	48	26	34	36
25	26	17	14	12	59	16	28	80	52	26	34	34
26	27	16	13	13	50	16	36	62	39	27	40	33
27	27	15	14	12	45	14	36	45	39	28	31	32
28	20	14	12	11	32	24	44	37	38	28	34	31
29	21	13	11	10	34	21	36	29	38	28	32	33
30	21	12	11	9.0	---	21	38	32	35	25	36	35
31	20	---	12	8.8	---	28	---	40	---	25	32	---
TOTAL	544	575	404	435.8	1771.0	945	727	3201	1202	1090	820.1	2033
MEAN	17.5	19.2	13.0	14.1	61.1	30.5	24.2	103	40.1	35.2	26.5	67.8
MAX	28	36	16	24	261	79	44	250	52	56	40	390
MIN	11	12	10	8.8	9.0	11	11	27	27	24	7.7	24
AC-FT	1080	1140	801	864	3510	1870	1440	6350	2380	2160	1630	4030

CAL YR 1979 TOTAL 9243.6 MEAN 25.3 MAX 282 MIN 5.2 AC-FT 18330
WTR YR 1980 TOTAL 13747.9 MEAN 37.6 MAX 390 MIN 7.7 AC-FT 27270

09314340 GRASSY TRAIL CREEK AT SUNNYSIDE, UTAH

LOCATION.--Lat 39°33'20", long 110°22'46", in NE1/4NW1/4NW1/4 sec.5, T.15 S., R.14 E., Carbon County, Hydrologic Unit 14060007, on left bank 13 mi (21 km) upstream from the 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); minimum daily, 0.14 ft^3/s (0.004 m^3/s) Jan. 2 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 138 ft^3/s (3.91 m^3/s) May 23, gage height, 3.13 ft (0.954 m); minimum daily 0.27 ft^3/s (0.011 m^3/s) Dec. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.43	1.1	1.6	1.8	.89	2.5	.68	16	77	18	5.0	2.8
2	2.1	1.1	2.4	1.1	.78	.95	1.6	19	76	24	5.2	1.6
3	.43	1.1	1.0	.89	.55	.95	2.3	34	74	15	4.9	.84
4	.43	1.1	.40	.89	1.2	1.2	2.3	39	77	13	2.9	1.8
5	.46	1.1	.84	1.9	1.0	2.2	2.4	50	80	12	2.7	1.8
6	.46	1.1	.89	2.0	1.1	2.2	2.4	56	78	11	2.7	2.1
7	.46	1.1	.89	.84	.95	2.3	1.0	69	72	11	2.3	4.1
8	.68	1.0	.55	.84	1.2	2.3	1.8	69	71	12	2.7	1.5
9	2.8	1.1	.51	.84	2.4	.64	2.4	68	63	11	2.3	4.1
10	2.2	.68	.95	.73	2.5	1.6	1.7	66	67	10	2.8	6.5
11	.68	.59	.95	.78	1.1	1.1	1.6	57	62	10	2.4	2.7
12	2.9	.55	.27	.84	1.6	1.4	2.2	51	58	10	2.4	2.1
13	.64	.84	.68	.59	2.1	1.4	.68	42	51	11	2.4	2.5
14	.40	2.7	.68	1.4	1.3	2.5	1.4	41	43	10	2.4	1.8
15	.84	1.7	1.8	.95	1.8	2.5	2.2	44	39	10	2.4	1.8
16	.84	1.7	2.2	1.1	.89	.73	2.0	45	35	7.3	2.8	2.7
17	.84	2.4	1.6	1.0	.64	1.3	3.5	47	32	4.2	2.8	2.3
18	.84	2.4	1.2	1.0	3.4	1.8	4.7	46	30	2.7	2.4	2.5
19	.84	1.6	.84	.48	2.9	2.2	6.7	51	30	2.5	1.7	2.4
20	.84	.95	.68	.55	1.4	1.6	10	69	28	2.9	2.1	2.5
21	.84	.78	.73	.73	1.4	2.1	11	91	27	3.8	1.9	2.5
22	.86	2.2	2.0	1.8	2.3	.55	12	119	24	4.5	1.2	2.4
23	.89	2.3	1.9	1.0	.64	.43	15	134	21	4.9	3.4	2.3
24	.89	2.2	1.8	.84	.59	1.4	13	113	19	4.4	1.5	2.3
25	.89	.59	1.8	.78	1.7	.95	14	91	19	5.4	1.5	2.2
26	.89	.59	1.8	2.0	2.3	1.5	17	76	17	6.1	1.3	2.3
27	1.1	1.1	1.8	1.9	1.2	2.3	17	67	16	6.1	1.2	2.7
28	1.1	1.4	1.8	1.6	1.2	2.3	17	67	15	5.4	1.0	2.8
29	1.1	1.0	1.7	2.4	1.2	1.6	17	73	14	5.7	1.1	2.5
30	1.1	.64	1.7	1.1	---	.59	17	72	15	5.7	2.7	2.3
31	1.1	---	1.6	1.1	---	.55	---	77	---	5.0	2.7	---
TOTAL	30.87	38.71	39.56	35.77	42.23	47.64	203.56	1959	1330	264.6	76.8	74.74
MEAN	1.00	1.29	1.28	1.15	1.46	1.54	6.79	63.2	44.3	8.54	2.48	2.49
MAX	2.9	2.7	2.4	2.4	3.4	2.5	17	134	80	24	5.2	6.5
MIN	.40	.55	.27	.48	.55	.43	.68	16	14	2.5	1.0	.84
AC-FT	61	77	78	71	84	94	404	3890	2640	525	152	148

CAL YR 1979 TOTAL 2573.37 MEAN 7.05 MAX 80 MIN .14 AC-FT 5100
WTR YR 1980 TOTAL 4143.48 MEAN 11.3 MAX 134 MIN .27 AC-FT 8220

NOTE: No gage-height record Apr. 25 to June 9, June 12 to July 29.

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 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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										
11...	1245	.48	1060	8.7	22.5	10.0	9.5	--	--	--
NOV										
06...	1615	1.1	2030	8.4	5.0	9.0	9.3	--	--	--
DEC										
11...	1515	.40	2300	8.6	-2.0	10.0	8.9	.60	K17	K13
JAN										
14...	1515	.74	1080	8.1	4.0	5.0	10.2	--	--	--
FEB										
04...	1530	1.8	1840	8.7	7.0	4.0	10.4	--	--	--
MAR										
03...	1100	1.3	1870	8.6	.5	4.0	10.3	.80	K11	260
APR										
07...	1320	.49	1770	8.7	2.5	11.0	9.4	--	--	--
MAY										
22...	1030	117	550	8.4	27.0	7.0	9.8	--	--	--
JUN										
24...	1715	19	560	8.7	28.0	17.0	7.4	.54	K15	700
JUL										
12...	1500	12	780	8.7	28.0	17.0	7.6	--	--	--
AUG										
13...	1715	2.3	1360	9.0	30.0	22.0	6.8	--	--	--
SEP										
16...	0930	2.6	1440	8.6	11.0	10.0	9.5	.45	380	480

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)
OCT										
11...	340	53	43	56	140	47	3.3	--	3.4	330
NOV										
06...	380	0	59	56	340	83	7.6	350	6.7	570
DEC										
11...	420	0	62	64	400	84	8.5	410	7.5	620
JAN										
14...	340	86	76	37	120	43	2.8	120	4.7	310
FEB										
04...	340	0	52	50	350	69	8.3	360	5.4	520
MAR										
03...	310	0	45	47	300	68	7.5	310	5.7	530
APR										
07...	260	0	34	43	340	73	9.1	--	5.3	530
MAY										
22...	260	4	49	33	25	17	.7	--	1.4	300
JUN										
24...	250	8	45	33	26	18	.7	--	1.4	270
JUL										
12...	260	0	42	38	81	40	2.2	--	2.1	300
AUG										
13...	240	0	26	43	220	66	6.2	--	4.1	400
SEP										
16...	300	0	36	50	220	61	5.6	--	4.6	450

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

09314340 GRASSY TRAIL CREEK AT SUNNYSIDE, UT--Continued

DATE	CARBONATE (MG/L AS CO3)	ALKALINITY (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										
11...	10	290	1.1	270	12	--	--	--	--	--
NOV										
06...	8	480	3.7	610	27	--	9.3	1400	1.90	4.16
DEC										
11...	18	540	2.6	690	37	.9	10	1600	2.18	1.73
JAN										
14...	0	260	3.9	310	34	--	6.7	741	1.01	1.47
FEB										
04...	24	470	1.8	490	41	--	9.5	1280	1.74	6.36
MAR										
03...	12	450	2.2	500	28	.7	8.7	1210	1.65	4.25
APR										
07...	35	490	1.9	480	28	--	5.9	1230	1.67	1.63
MAY										
22...	6	250	2.0	69	2.6	--	15	349	.47	110
JUN										
24...	12	240	.9	72	3.2	.2	4.2	331	.45	17.0
JUL										
12...	12	260	1.0	160	6.5	--	15	504	.69	16.1
AUG										
13...	33	380	.7	330	22	--	9.3	884	1.20	5.54
SEP										
16...	14	390	1.8	370	20	.6	13	932	1.27	6.54

DATE	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	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, NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT										
11...	--	--	--	--	--	--	--	--	--	--
NOV										
06...	--	--	--	--	--	--	--	--	--	--
DEC										
11...	.17	.75	.040	.13	.21	.080	.10	.31	.49	.10
JAN										
14...	--	--	--	--	--	--	--	--	--	--
FEB										
04...	--	--	--	--	--	--	--	--	--	--
MAR										
03...	.15	.66	.020	.07	.17	.000	.00	.63	.18	.00
APR										
07...	--	--	--	--	--	--	--	--	--	--
MAY										
22...	--	--	--	--	--	--	--	--	--	--
JUN										
24...	.12	<.53	.000	.00	.12	.000	.00	.42	.56	.14
JUL										
12...	--	--	--	--	--	--	--	--	--	--
AUG										
13...	--	--	--	--	--	--	--	--	--	--
SEP										
16...	.06	.27	.020	.07	.08	.040	.05	.33	.35	.00

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)
DEC					
11...	.39	.010	.03	.000	.00
MAR					
03...	.63	.020	.06	.040	.12
JUN					
24...	.42	.010	.03	.000	.00
SEP					
16...	.37	.050	.15	.000	.00

09314340 GRASSY TRAIL CREEK AT SUNNYSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)
DEC										
11...	1515	1	310	40	0	60	30	0	500	0
MAR										
03...	1100	1	220	<10	0	40	7	1	460	20
JUN										
24...	1715	3	50	<10	0	<4	4	1	260	<3
SEP										
16...	0930	2	180	<10	0	30	<1	1	390	<3

BENTHIC INVERTEBRATE ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date:	Dec. 11, 1979	Mar. 3, 1980	June 24, 1980	Sept. 16, 1980
Time:	1515	1100	1715	0930
Total Count	260	202	29	770
Diversity Phylum				
.Class				
..Order	1.4	0.0	0.0	0.0
...Family	0.0	1.4	1.7	1.7
Organism				
Annelida				
.Oligochaeta	16	-	-	-
..Plesiopora				
...Enchytraeidae	-	17	1	6
...Lumbricidae	-	1	-	3
...Naididae	-	1	-	433
...Tubificidae	-	17	-	14
Arthropoda				
.Insecta				
..Coleoptera				
...Dryopidae	-	-	-	1
..Diptera				
...Ceratopogonidae	-	1	-	-
...Chironomidae	128	149	16	100
...Empididae	-	1	-	-
...Tipulidae	4	-	-	-
..Ephemeroptera				
...Baetidae	-	4	8	200
...Heptageniidae	-	-	-	4
..Plecoptera				
...Perlodidae	-	-	-	1
..Trichoptera	112	-	-	-
...Hydropsychidae	-	11	3	8
Nematoda				
.Aphasmidia				
..Enoplida				
...Dorycaimidae	-	-	1	-

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE, WATER (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
DEC							
11...	1515	.40	10.0	28	.03	--	--
MAR							
03...	1100	1.3	4.0	18	.06	--	--
APR							
30...	1815	17	7.5	210	9.6	35	38
MAY							
22...	1030	117	7.0	1640	518	20	23
JUN							
09...	1845	61	11.0	58	9.6	--	--
24...	1715	19	17.0	69	3.5	--	--
SEP							
16...	0930	2.6	10.0	68	.48	--	--

09314340 GRASSY TRAIL CREEK AT SUNNYSIDE, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	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	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM
DEC						
11...	--	--	--	--	--	--
MAR						
03...	--	--	--	--	--	--
APR						
30...	52	82	88	94	99	100
MAY						
22...	31	52	70	89	97	100
JUN						
09...	--	--	--	--	--	--
24...	--	--	--	--	--	--
SEP						
16...	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
DEC							
11...	1515	.40	10.0	1	3	6	11
MAR							
03...	1100	1.3	4.0	2	3	5	8

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
DEC						
11...	15	19	27	39	48	84
MAR						
03...	10	15	25	39	61	100

09314374 HORSE CANYON NEAR SUNNYSIDE, UTAH

LOCATION.--Lat 39°27'26", long 110°21'33", in NE1/4SE1/4 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 current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,180 ft (1,884 m), from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26 ft^3/s (0.736 m^3/s) Nov. 11, 1978, gage height, 0.87 ft (0.265 m); minimum, no flow on many days in 1979-80.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2.4 ft^3/s (0.068 m^3/s) May 13-15; minimum, no flow many days during Oct., Aug., and Sept.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.33	.17	.36	.22	.19	.35	.50	1.0	.80	.80	.16	.64
2	.33	.25	.36	.22	.25	.34	.50	.94	.80	.71	.39	.71
3	.33	.50	.35	.19	.25	.33	.37	.60	.90	.56	.40	.66
4	.15	.44	.35	.19	.38	.29	.50	.55	.50	.50	.35	.62
5	.15	.35	.37	.19	.38	.33	.64	.84	.22	.22	.33	.56
6	.00	.48	.44	.19	.38	.29	.64	.56	.20	.05	.48	.64
7	.25	.52	.45	.19	.38	.38	.52	.80	.64	.22	.36	.21
8	.50	.59	.48	.19	.33	.29	.50	.73	.80	.65	.01	.07
9	.44	.50	.50	.19	.33	.28	.50	.88	.77	.59	.11	.03
10	.38	.46	.52	.19	.33	.21	.26	1.3	.90	.64	.51	.00
11	.41	.41	.54	.19	.33	.12	.29	1.6	.88	.56	.48	.00
12	.28	.58	.51	.19	.33	.56	.10	1.6	.78	.25	.56	.00
13	.33	.44	.43	.19	.37	.56	.22	2.4	.37	.10	.53	.00
14	.50	.44	.50	.22	.52	.56	.39	1.4	.19	.11	.00	.00
15	.44	.43	.43	.22	.29	.28	.23	2.4	.35	.11	.21	.00
16	.08	.43	.29	.22	.29	.50	.24	1.8	.80	.25	.49	.00
17	.08	.42	.40	.25	.38	.56	.30	1.4	1.0	.26	.47	.00
18	.02	.42	.37	.25	.69	.56	.24	1.1	1.0	.16	.59	.00
19	.01	.41	.30	.25	.50	.56	.27	.79	1.0	.22	.54	.00
20	.01	.40	.30	.25	.48	.27	.29	.60	1.1	.38	.06	.00
21	.01	.40	.22	.25	.47	.03	.49	.45	1.0	.44	.27	.00
22	.07	.40	.22	.29	.45	.08	.80	.35	.92	.44	.71	.00
23	.38	.39	.22	.29	.44	.07	.81	1.1	.19	.44	.65	.00
24	.44	.39	.22	.29	.42	.07	.90	1.0	.11	.44	.63	.00
25	.38	.38	.22	.29	.40	.05	.80	.90	.17	.44	.44	.00
26	.29	.38	.22	.29	.39	.13	.80	.70	.90	.44	.80	.00
27	.38	.38	.22	.17	.38	.46	.90	.62	.80	.44	.71	.00
28	.38	.37	.22	.04	.37	.50	.80	.65	.90	.50	.51	.00
29	.25	.37	.22	.29	.36	.50	.90	.56	.90	.50	.09	.00
30	.25	.36	.22	.29	---	.50	.90	.71	.90	.34	.20	.00
31	.38	---	.22	.29	---	.44	---	.90	---	.07	.64	---
TOTAL	8.23	12.46	10.67	6.97	11.06	10.45	15.60	31.23	20.79	11.83	12.68	4.14
MEAN	.27	.42	.34	.22	.38	.34	.52	1.01	.69	.38	.41	.14
MAX	.50	.59	.54	.29	.69	.56	.90	2.4	1.1	.80	.80	.71
MIN	.00	.17	.22	.04	.19	.03	.10	.35	.11	.05	.00	.00
AC-FT	16	25	21	14	22	21	31	62	41	23	25	8.2

CAL YR 1979 TOTAL 130.09 MEAN .36 MAX 1.7 MIN .00 AC-FT 258
WTR YR 1980 TOTAL 156.11 MEAN .43 MAX 2.4 MIN .00 AC-FT 310

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 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
SEP 24...	1530	.36	2500	8.7	26.0	22.0	7.5	670	350

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
SEP 24...	88	110	330	51	5.5	7.6	340	22	279

DATE	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)
SEP 24...	1.2	1000	36	.3	10	1780	2.42	1.73

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)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)
SEP 24...	.48	2.1	.021	.07	.50	.000	.00

DATE	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)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS PO4)
SEP 24...	.46	.54	.08	.46	.000	.000	.00

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
SEP 24...	1530	.36	22.0	27	.03

09314374 HORSE CANYON NEAR SUNNYSIDE, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
SEP 24...	1530	.36	22.0	8	18	33	40

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
SEP 24...	43	48	56	66	78	100

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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 10...	1300	.41	2570	8.4	24.5	22.0	6.9	--	--	--
NOV 05...	1505	.42	2600	8.5	15.0	13.0	8.5	--	--	--
DEC 11...	1115	.48	2690	8.4	-3.0	9.0	9.4	1.6	K0	47
JAN 14...	1220	.24	2500	8.5	7.0	13.0	8.7	--	--	--
FEB 04...	1130	.41	2600	8.6	7.5	12.0	8.7	--	--	--
MAR 03...	1530	.36	2570	8.7	3.5	8.5	9.3	1.1	K1	K19
APR 07...	1120	.48	2520	8.4	4.0	13.0	8.4	--	--	--
MAY 22...	1245	.24	1720	8.6	24.5	22.0	6.6	--	--	--
JUN 24...	1245	.10	1990	8.6	27.5	25.0	6.5	.44	22	580
JUL 09...	1545	.59	2430	8.5	29.0	26.5	6.6	--	--	--
12...	1200	.10	1980	8.6	28.0	22.0	7.1	--	--	--
AUG 13...	1630	.54	2550	8.5	31.0	23.0	6.8	--	--	--

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)
OCT 10...	700	340	97	110	390	55	6.4	400	9.4	430
NOV 05...	680	290	91	110	390	55	6.5	400	8.4	450
DEC 11...	660	180	83	110	380	79	6.4	390	7.6	570
JAN 14...	650	250	97	100	380	77	6.5	390	8.0	450
FEB 04...	690	300	96	110	390	55	6.5	400	7.4	440
MAR 03...	680	290	91	110	370	54	6.2	380	8.1	450
APR 07...	730	350	95	120	380	53	6.1	390	8.4	450
MAY 22...	540	190	52	100	210	46	3.9	--	4.6	460
JUN 24...	580	170	51	110	250	48	4.5	--	6.1	460
JUL 09...	600	210	76	99	370	57	6.6	--	8.1	450
12...	560	210	58	100	260	50	4.8	--	5.7	--
AUG 13...	630	260	87	100	360	55	6.2	--	8.3	420

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

09314374 HORSE CANYON NEAR SUNNYSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CARBONATE (MG/L AS CO3)	ALKALINITY (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										
10...	2	350	2.8	1100	30	--	12	1960	2.67	2.17
NOV										
05...	10	380	2.4	1000	30	--	11	1870	2.54	2.12
DEC										
11...	6	480	3.7	1000	26	.4	12	1910	2.60	2.48
JAN										
14...	18	400	2.5	990	29	--	9.9	1850	2.52	1.20
FEB										
04...	20	400	1.9	1000	35	--	12	1890	2.57	2.10
MAR										
03...	14	390	1.5	1000	29	.4	16	1870	2.54	1.82
APR										
07...	8	400	3.0	1100	30	--	10	1970	2.68	2.55
MAY										
22...	18	410	2.0	570	23	--	16	1190	1.62	.77
JUN										
24...	18	400	2.0	670	28	.3	15	1380	1.88	.37
JUL										
09...	14	390	2.4	920	31	--	7.1	1750	2.38	2.79
12...	--	350	--	690	27	--	14	1370	1.86	.37
AUG										
13...	14	370	2.3	950	33	--	7.4	1770	2.41	2.58

DATE	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	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, NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT										
10...	--	--	--	--	--	--	--	--	--	--
NOV										
05...	--	--	--	--	--	--	--	--	--	--
DEC										
11...	.42	1.9	.050	.16	.47	.610	.79	.49	1.2	.10
JAN										
14...	--	--	--	--	--	--	--	--	--	--
FEB										
04...	--	--	--	--	--	--	--	--	--	--
MAR										
03...	.59	2.6	.010	.03	.60	.480	.62	.05	.61	.08
APR										
07...	--	--	--	--	--	--	--	--	--	--
MAY										
22...	--	--	--	--	--	--	--	--	--	--
JUN										
24...	.13	.58	.000	.00	.13	.000	.00	.31	.37	.06
JUL										
09...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
AUG										
13...	--	--	--	--	--	--	--	--	--	--

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)
DEC					
11...	1.1	.000	.00	.000	.00
MAR					
03...	.53	.000	.00	.010	.03
JUN					
24...	.31	.010	.03	.010	.03

09314374 HORSE CANYON NEAR SUNNYSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
DEC										
11...	1115	1	370	60	0	60	30	0	1200	30
MAR										
03...	1530	2	380	30	0	50	10	1	1400	40
JUN										
24...	1245	1	220	<10	0	7	2	5	720	<3
JUL										
09...	1545	--	--	--	--	--	--	--	--	43

BENTHIC INVERTEBRATE ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date:	Dec. 11, 1979	Mar. 3, 1980	June 24, 1980
Time:	1115	1530	1245
Total Count	36	18	323
Diversity Phylum			
.Class			
..Order	1.5	0.0	0.0
...Family	0.0	1.9	1.3
Organism			
Annelida			
.Oligochaeta	3	-	-
..Plesiopora			
...Enchytraeidae	-	1	-
Arthropoda			
.Arachnoidea			
..Hydracarina			
...Lebertiidae	-	1	-
.Insecta			
..Coleoptera			
...Dytiscidae	2	-	-
...Hydraenidae	-	-	3
..Diptera			
...Canaceidae			
...Ceratopogonidae	1	1	-
...Chironomidae	25	11	19
...Dolichopodidae	-	1	-
...Empididae	-	2	-
...Muscidae	1	-	-
...Simuliidae	-	-	193
...Tipulidae	4	1	-
..Ephemeroptera			
...Baetidae	-	-	108

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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
DEC									
11...	1115	.48	9.0	24	.03	--	--	--	--
MAR									
03...	1530	.36	8.5	8	.01	--	--	--	--
APR									
07...	1120	.48	13.0	74	.10	--	--	--	--
MAY									
22...	1245	.24	22.0	451	.29	48	69	99	100
JUN									
24...	1245	.10	25.0	79	.02	--	--	--	--
JUL									
09...	1545	.59	26.5	49	.08	--	--	--	--

09314374 HORSE CANYON NEAR SUNNYSIDE, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
DEC							
11...	1115	.48	9.0	1	2	7	13
MAR							
03...	1530	.36	8.5	2	4	9	16

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
DEC						
11...	22	31	47	65	84	88
MAR						
03...	23	31	44	56	67	90

09314500 PRICE RIVER AT WOODSIDE, UTAH

LOCATION.--Lat 39°15'50", long 110°20'45", in SW1/4SE1/4SE1/4 sec.9, T.18 S., R.14 E., Emery County, Hydrologic Unit 14060007, on left downstream wingwall of old highway bridge, 200 ft (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 except for period of no gage-height record, Nov. 29 to Jan. 16, and for winter period, which are poor. 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.--34 years, 104 ft^3/s (2.95 m^3/s), 75,350 acre-ft/yr (92.9 hm^3/yr).

EXTREMES FOR PERIOD FOR 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)
Feb. 19	0600	2,210	62.6	6.54	1.993
Sept. 11	0300	*9,720	275	11.16	3.402

Minimum discharge, 5.6 ft^3/s (0.159 m^3/s) Mar. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	64	24	41	28	131	154	819	1080	140	65	79
2	28	62	23	43	29	123	150	756	1100	169	68	79
3	26	54	22	41	29	120	149	749	1140	302	65	75
4	27	52	24	38	34	138	151	741	1050	183	62	67
5	26	49	27	36	35	125	154	832	1020	150	59	61
6	28	48	28	40	33	112	164	1090	995	125	56	58
7	29	45	29	41	34	136	171	1170	1000	116	53	67
8	30	44	28	38	36	283	164	1230	1000	112	49	159
9	31	42	31	37	33	228	178	1210	1000	125	43	560
10	29	44	30	39	32	158	305	1290	955	116	38	3050
11	27	45	29	41	38	129	326	1240	942	103	37	3840
12	25	47	32	49	55	127	328	1230	930	101	40	503
13	27	43	34	58	59	132	321	1170	920	93	48	363
14	29	37	35	67	67	101	325	952	880	92	46	347
15	31	33	37	72	90	107	345	823	820	92	156	250
16	33	28	38	74	167	111	342	784	780	84	86	224
17	34	27	39	70	149	99	247	748	700	82	103	208
18	35	35	38	62	239	103	278	744	640	79	93	188
19	32	36	40	58	1140	125	296	731	580	84	80	161
20	31	38	42	52	854	128	345	718	500	79	70	149
21	31	39	43	48	464	129	422	770	420	75	70	142
22	42	28	39	39	356	131	504	876	340	70	70	138
23	47	23	37	36	231	105	572	942	280	65	150	131
24	47	26	36	34	205	94	663	1000	250	64	133	120
25	48	32	35	36	158	95	674	902	220	67	141	112
26	47	31	39	36	143	91	725	867	198	77	570	109
27	46	30	40	37	134	85	673	797	171	75	219	97
28	45	29	39	33	131	146	699	748	145	75	131	82
29	43	28	42	29	118	202	800	823	136	72	105	90
30	41	26	39	24	---	198	885	1010	129	68	90	92
31	40	---	37	23	---	186	---	1060	---	67	86	---
TOTAL	1065	1165	1056	1372	5121	4178	11510	28822	20321	3202	3082	11601
MEAN	34.4	38.8	34.1	44.3	177	135	384	930	677	103	99.4	387
MAX	48	64	43	74	1140	283	885	1290	1140	302	570	3840
MIN	25	23	22	23	28	85	149	718	129	64	37	58
AC-FT	2110	2310	2090	2720	10160	8290	22830	57170	40310	6350	6110	23010

CAL YR 1979 TOTAL 52099 MEAN 143 MAX 2070 MIN 18 AC-FT 103300
WTR YR 1980 TOTAL 92495 MEAN 253 MAX 3840 MIN 22 AC-FT 183500

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.

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, 8,540 micromhos Dec. 11, 1951; minimum daily, 814 micromhos June 1, 1952.
WATER TEMPERATURES: Maximum, 32.0°C July 10, 11, 1954 and Apr. 7, 1977; minimum, 0.0°C on many days during winter period each year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)
NOV								
16...	1730	38	4780	8.7	--	3.0	--	--
DEC								
18...	1430	40	5510	8.3	5.5	.0	24	13.0
JAN								
21...	1330	48	3550	8.5	5.5	.0	38	10.4
FEB								
20...	1100	854	2430	8.1	12.5	2.5	3200	8.5
MAR								
24...	1200	94	3750	8.3	10.0	6.0	380	9.8
APR								
21...	1130	422	1370	8.0	25.0	11.5	2600	8.7
MAY								
22...	1000	876	1090	8.3	23.0	15.0	110	7.8
JUN								
26...	1000	180	1790	8.2	27.0	18.0	280	8.3
JUL								
31...	1300	66	2330	8.3	34.5	23.0	--	7.5
AUG								
20...	1200	67	2520	8.2	27.0	18.0	240	8.8
SEP								
18...	0930	95	3030	8.2	18.5	16.5	600	8.3

DATE	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
NOV							
16...	310	32	308	1.2	--	--	--
DEC							
18...	510	2	422	4.1	5660	7.70	611
JAN							
21...	400	18	358	2.2	3310	4.50	429
FEB							
20...	520	0	427	6.6	1930	2.62	4450
MAR							
24...	390	0	320	3.1	3260	4.43	827
APR							
21...	480	0	394	7.7	1030	1.40	1170
MAY							
22...	490	0	402	3.9	761	1.04	1800
JUN							
26...	350	0	287	3.5	1440	1.96	700
JUL							
31...	270	0	221	2.2	--	--	--
AUG							
20...	340	0	279	3.4	2080	2.83	376
SEP							
18...	420	0	344	4.2	2560	E3.48	657

09314500 PRICE RIVER AT WOODSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	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, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)
DEC 18...	1.8	.410	.50	1.1	1.5	3.3	15	.230	.71
JAN 21...	1.2	.420	.51	.98	1.4	2.6	12	.300	.92
FEB 20...	1.1	.370	.45	12	12	13	58	.020	.06
MAR 24...	1.1	.340	.41	.96	1.3	2.4	11	.700	2.1
APR 21...	.57	.240	.29	4.6	4.8	5.4	24	6.500	20
MAY 22...	.34	.070	.08	2.5	2.6	2.9	13	2.800	8.6
JUN 26...	.29	.000	.00	.71	.71	1.0	4.4	.850	2.6
AUG 20...	.44	.080	.10	1.8	1.9	2.3	10	.420	1.3
SEP 18...	.60	.060	.07	1.4	1.5	2.1	9.3	.300	.92

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)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
APR 21...	1130	15000	15000	20	19	17	2	0	0	0	2
AUG 20...	1200	--	--	--	--	--	--	--	--	--	--
SEP 18...	0930	--	--	--	--	--	--	--	--	--	--

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)	COBALT, DISSOLVED (UG/L AS CO)	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)
APR 21...	2	0	70	70	589	150	150	3	83000	83000	0
AUG 20...	--	--	--	--	341	--	--	--	--	--	--
SEP 18...	--	--	--	--	424	--	--	--	--	--	--

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	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)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)
APR 21...	150	90	60	70	2600	2600	10	.2	.2	.0	4
AUG 20...	--	--	--	--	--	--	--	--	--	--	--
SEP 18...	--	--	--	--	--	--	--	--	--	--	--

DATE	MOLYBDENUM, SUSPENDED RECOV. (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	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)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
APR 21...	1	3	300	96	1	5	1	4	490	380	110
AUG 20...	--	--	--	--	--	--	--	--	--	--	--
SEP 18...	--	--	--	--	--	--	--	--	--	--	--

09314500 PRICE RIVER AT WOODSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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						
16...	1730	10.1	9.61	1.55	.500	316
APR						
21...	1130	9.21	8.74	.070	.000	6714
JUN						
26...	1000	.866	.866	.000	.000	--
JUL						
31...	1300	3.86	3.78	.190	.000	421
AUG						
20...	1200	3.39	2.91	.480	.020	1000
SEP						
18...	0930	.472	.394	.000	.000	--

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
NOV					
16...	1730	38	3.0	93	9.5
DEC					
18...	1430	40	.0	139	15
FEB					
20...	1100	854	2.5	12200	28100
MAR					
24...	1200	94	6.0	1070	272
APR					
21...	1130	422	11.5	8350	9510
MAY					
22...	1000	876	15.0	4040	9560
JUN					
26...	1000	180	18.0	1610	782
JUL					
31...	1300	66	23.0	276	49
SEP					
18...	0930	95	16.5	1610	413

09315000 GREEN RIVER AT GREEN RIVER, UTAH

LOCATION.--Lat 38°59'10", long 110°09'02", in NW1/4NW1/4SW1/4 sec.15, T.21 S, R.16 E., Emery County, Hydrologic Unit 14060008, on right bank 100 ft (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. UT-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,040.18 ft (1,231.447 m) National Geodetic Vertical Datum 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 except for winter period, which are poor. Diversions for irrigation above station. Flow regulated by Flaming Gorge Reservoir (see station 09234400) since Nov. 1, 1962.

AVERAGE DISCHARGE.--81 years, 6,298 ft^3/s (178.4 m^3/s) 4,563,000 acre-ft/yr (5.63 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.--Peak discharge above base of 17,000 ft^3/s (481 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 15	1615	21,700	615	10.31	3.295
May 27	1015	*24,200	685	11.11	3.386
June 14	1245	23,300	660	10.92	3.328

Minimum discharge, 1,350 ft^3/s (38.4 m^3/s) Dec. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3180	3210	1690	3000	2280	5050	4020	11900	17600	9380	2380	2670
2	2940	4340	1690	3200	2240	4780	3500	12500	17700	9120	2280	2700
3	2600	4670	2700	3200	3580	5560	3040	13500	16700	8690	2310	2690
4	2330	4100	2690	3000	3900	6360	3220	14300	16500	8360	2370	2600
5	2110	3830	2750	2840	4110	5650	3940	13900	15700	8510	2260	2600
6	2000	4120	2720	2840	4140	4660	3520	12900	15500	8600	1930	2380
7	2150	3390	2720	2970	3510	4660	3070	13500	16200	9090	1900	2490
8	2200	2810	2750	3100	3000	5470	2750	14300	17900	7710	1830	2730
9	1850	2650	2740	3150	3350	6040	2860	15000	19000	6670	1730	3130
10	1780	3180	2730	3360	3690	5740	3090	16800	20100	6120	1970	4660
11	1770	3920	2700	3400	3840	5290	3430	18400	20700	5900	2050	6080
12	1780	3570	2690	3550	3810	4870	4750	19700	21700	5360	2040	4300
13	2080	3370	2700	3950	3940	4420	4520	20000	22700	5320	2170	4530
14	2210	3080	2750	4150	3790	4570	4160	20400	23100	5260	2470	3790
15	2520	2790	2800	4000	3490	4540	4620	21300	22800	4840	2530	3440
16	3130	2540	2860	4170	3710	4240	4260	20000	21900	4500	2290	3040
17	3060	2740	2850	4110	3940	3970	3900	15900	19900	4220	2280	2810
18	2570	3030	2840	3540	4520	3400	4340	14000	18000	3830	2340	2750
19	2240	2890	2900	3760	5550	3190	4230	13700	17100	3870	2360	2850
20	1980	2570	2890	3440	6040	3220	4870	15100	16600	3590	2250	2850
21	2090	2830	2840	3400	6120	3360	6180	16800	16000	2980	2220	2730
22	2320	2570	2840	3450	7930	3180	6440	15500	16200	2780	2230	2710
23	2730	2300	2770	3390	11200	3010	7160	15500	15400	2930	2380	2840
24	2650	2340	2800	3400	12600	3360	8120	16700	14600	2610	2370	2890
25	2640	2400	2810	3500	11300	3040	9650	19600	13800	2500	2270	2740
26	2600	2470	2830	3680	9560	3300	11900	21800	12800	2520	2260	2360
27	2890	2410	3200	3990	7280	3520	13000	23300	12400	2510	2620	2540
28	3150	2380	3150	3240	5650	3830	13500	23000	11600	2560	3450	2730
29	2980	2290	3050	2690	5650	4250	12400	20300	10400	2460	2930	2740
30	2770	2280	2300	2230	---	4380	12100	17700	9550	2280	2720	2870
31	2750	---	2360	2340	---	4190	---	17200	---	2110	2710	---
TOTAL	76050	91070	84110	104040	153720	135100	176540	524500	510150	157180	71900	92240
MEAN	2453	3036	2713	3356	5301	4358	5885	16920	17010	5070	2319	3075
MAX	3180	4670	3200	4170	12600	6360	13500	23300	23100	9380	3450	6080
MIN	1770	2280	1690	2230	2240	3010	2750	11900	9550	2110	1730	2360
AC-FT	150800	180600	166800	206400	304900	268000	350200	1040000	1012000	311800	142600	183000

CAL YR 1979 TOTAL 2202830 MEAN 6035 MAX 28800 MIN 1690 AC-FT 4369000
WTR YR 1980 TOTAL 2176600 MEAN 5947 MAX 23300 MIN 1690 AC-FT 4317000

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) upstream from gaging station.

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

PERIOD OF DAILY RECORDS.--
SPECIFIC CONDUCTANCE: October 1941 to current year, once daily.
WATER TEMPERATURES: May 1949 to September 1959, October 1964 to current year, once daily.
SUSPENDED-SEDIMENT DISCHARGE: May 1930 to current year, once daily.

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, 1,310 micromhos Sept. 10; minimum daily, 320 micromhos June 17.
WATER TEMPERATURES: Maximum, 27.0°C July 17, 28; minimium, 0.0°C Nov. 24, 27, Dec. 19, Jan. 22.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 11,600 mg/L Sept. 11; minimum daily mean, 60 mg/L Oct. 20.
SEDIMENT LOADS: Maximum daily, 238,000 tons (216,000 tonnes) May 13; minimum daily, 321 tons (291 tonnes) Oct. 20.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (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)
NOV											
14...	1730	3080	880	8.5	6.0	5.5	47	7.8	.49	K10	39
DEC											
19...	0830	2900	860	8.4	-7.4	.0	17	--	.77	K4	10
JAN											
22...	1030	3400	790	8.3	2.0	.0	140	12.5	.69	K2	6300
FEB											
21...	1000	5760	860	8.1	5.5	1.5	800	13.4	.72	100	37000
MAR											
25...	1130	3350	980	8.0	7.0	6.5	390	9.6	1.7	34	970
APR											
22...	1000	6050	880	8.0	18.5	14.0	1600	8.8	1.7	--	--
MAY											
21...	1330	16700	540	8.2	27.0	15.5	670	10.1	1.2	--	--
JUN											
25...	1400	14100	330	7.6	32.0	20.0	110	8.1	.53	41	170
JUL											
30...	1430	2600	770	8.1	32.5	25.5	23	7.3	.65	32	170
AUG											
21...	1000	2270	760	8.2	16.0	18.0	18	7.4	.33	--	--
SEP											
17...	1400	2820	1130	8.1	23.5	18.5	700	8.3	1.2	K13	520

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
NOV											
14...	310	120	70	33	88	52	2.2	91	3.4	220	4
DEC											
19...	330	130	78	34	84	48	2.0	87	2.8	240	3
JAN											
22...	280	110	66	29	77	37	2.0	80	2.7	210	0
FEB											
21...	310	97	64	37	99	41	2.4	100	2.7	260	0
MAR											
25...	330	130	72	36	110	42	2.6	--	3.0	250	0
APR											
22...	310	150	70	33	94	39	2.3	--	3.2	--	--
MAY											
21...	170	0	40	17	38	32	1.3	--	1.8	240	0
JUN											
25...	120	13	29	12	21	27	.8	--	1.5	130	0
JUL											
30...	260	110	58	27	67	36	1.8	--	3.1	--	--
AUG											
21...	280	130	62	30	80	38	2.1	--	3.3	--	--
SEP											
17...	380	210	85	40	110	38	2.5	--	5.0	--	--

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 1979 TO SEPTEMBER 1980

DATE	ALKALINITY (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)
NOV										
14...	187	1.2	280	28	.3	5.9	632	622	.86	5260
DEC										
19...	202	1.8	280	27	.2	6.8	661	636	.90	5180
JAN										
22...	172	1.7	240	25	.3	6.8	583	552	.79	5350
FEB										
21...	213	3.3	310	25	.4	8.0	629	677	.86	9780
MAR										
25...	205	4.0	320	38	.4	8.7	710	713	.97	6420
APR										
22...	160	--	290	25	.4	6.2	662	620	.90	10800
MAY										
21...	197	2.4	110	10	.3	11	312	348	.42	14100
JUN										
25...	107	5.2	70	7.4	.2	8.7	207	214	.28	7880
JUL										
30...	150	--	220	26	.8	7.0	513	799	.70	3600
AUG										
21...	150	--	250	30	.3	4.7	515	551	.70	3160
SEP										
17...	170	--	410	36	.4	7.7	878	798	1.19	6690

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA 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)
NOV								
14...	.24	.22	.030	.020	.04	.03	.47	.25
DEC								
19...	.30	.34	.000	.010	.00	.01	.44	.42
JAN								
22...	.40	.38	.020	.000	.02	.00	.50	.31
FEB								
21...	.47	.45	.080	.020	.10	.03	1.9	.25
MAR								
25...	.34	.38	.080	.020	.10	.03	1.2	1.3
APR								
22...	.41	.35	.190	.010	.23	.01	3.6	1.3
MAY								
21...	.28	.28	.010	.010	.01	.01	2.2	.87
JUN								
25...	.05	.01	.040	.010	.05	.01	.61	.51
JUL								
30...	.00	.00	.000	.010	.00	.01	.97	.64
AUG								
21...	.00	.00	.040	.000	.05	.00	1.1	.33
SEP								
17...	.27	.29	.030	.020	.04	.03	2.8	.92

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)
NOV								
14...	.50	.23	.27	.74	3.3	.070	.21	.020
DEC								
19...	.44	.01	.43	.74	3.3	.030	.09	.010
JAN								
22...	.52	.21	.31	.92	4.1	.070	.21	.010
FEB								
21...	2.0	1.7	.27	2.5	11	.000	.00	.020
MAR								
25...	1.3	.00	1.3	1.6	7.3	.440	1.4	.040
APR								
22...	3.8	2.5	1.3	4.2	19	2.900	8.9	.020
MAY								
21...	2.2	1.3	.88	2.5	11	1.900	5.8	.020
JUN								
25...	.65	.13	.52	.70	3.1	.530	1.6	.020
JUL								
30...	.97	.32	.65	.97	4.3	.080	.25	.030
AUG								
21...	1.1	.77	.33	1.1	4.9	.100	.31	.070
SEP								
17...	2.8	1.9	.94	3.1	14	.860	2.6	.040

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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											
14...	1730	1	0	3	200	100	90	0	0	<1	8
FEB											
21...	1000	6	3	3	400	300	100	2	2	0	20
MAY											
21...	1330	10	8	2	700	500	200	1	--	<1	30
AUG											
21...	1000	3	2	1	100	0	100	0	--	<1	0

DATE	CHRO-MIUM, SUS-PENDED RECOV. (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										
14...	8	0	0	<3	5	5	0	2000	2000	<10
FEB										
21...	20	8	8	0	35	33	2	16000	16000	40
MAY										
21...	30	18	--	<3	33	24	9	39000	39000	10
AUG										
21...	0	1	--	<3	5	3	2	1300	--	<10

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)
NOV										
14...	5	5	0	50	50	4	.0	.0	.0	5
FEB										
21...	26	18	8	470	460	10	.1	.1	.0	28
MAY										
21...	30	29	1	1100	1100	1	.2	.2	.0	43
AUG										
21...	7	7	0	50	50	3	.0	.0	.0	5

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)	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	2	1	0	1	0	0	30	20	8
FEB										
21...	25	3	3	1	2	0	0	100	0	150
MAY										
21...	38	5	2	1	1	0	0	170	70	100
AUG										
21...	5	0	1	0	1	0	0	30	20	10

DATE	TIME	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)
NOV		
14...	1730	0
DEC		
19...	0830	0
FEB		
21...	1000	0
MAY		
21...	1330	0
JUN		
25...	1400	0
AUG		
21...	1000	0
SEP		
17...	1400	0

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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 DIS-SOLVED, EXTRAC-TION (UG/L)
MAY									
21...	1330	<5.0	89	3.1	58	3.0	55	.14	2.5
AUG									
21...	1000	<9.0	3.1	4.5	2.8	4.3	2.6	.14	4.3

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)
NOV				
14...	1730	--	11	.3
DEC				
19...	0830	4.0	--	--
JAN				
22...	1030	9.2	--	--
FEB				
21...	1000	--	6.0	--
MAR				
25...	1130	10	--	--
APR				
22...	1000	26	--	--
MAY				
21...	1330	--	8.2	.0
JUN				
25...	1400	16	--	--
AUG				
21...	1000	--	5.7	.7
SEP				
17...	1400	15	--	--

DATE	TIME	PCB TOTAL (UG/L)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	CHLOR-DANE, TOTAL (UG/L)	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
NOV											
14...	1730	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB											
21...	1630	ND	--	ND	--	ND	--	ND	--	ND	--

DATE	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-AZINON, TOTAL (UG/L)	DI-AZINON, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-ELDRIN TOTAL (UG/L)	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR, TOTAL (UG/L)
NOV											
14...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB											
21...	ND	--	ND	--	ND	--	ND	--	ND	--	ND

DATE	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	MALA-THION, TOTAL (UG/L)	MALA-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)	METHYL PARA-THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI-THION, TOTAL (UG/L)
NOV											
14...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB											
21...	--	ND	--	ND	--	ND	--	ND	ND	--	ND

ND Material specifically analyzed for but not detected.

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	METHYL TRI-THION, TOT. IN BOTTOM MATL. (UG/KG)	PARA-THION, TOTAL (UG/L)	PARA-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TOX-APHENE, TOTAL (UG/L)	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	TRI-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV										
14...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB										
21...	--	ND	--	ND	--	ND	--	--	--	--

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...	1730	111	104	22.5	.850	311
APR						
22...	1000	6.54	6.22	.090	.000	3556
AUG						
21...	1000	1.34	1.18	.000	.000	--

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	NOV 14,79	MAR 25,80	MAY 21,80	JUN 25,80
TIME	1730	1130	1330	1400
TOTAL CELLS/ML	460	230	1000	1900
DIVERSITY: DIVISION	0.3	0.5	0.8	0.8
.CLASS	0.3	0.5	0.8	0.8
..ORDER	0.5	1.3	0.8	1.6
...FAMILY	2.9	2.2	1.4	2.1
....GENUS	3.3	2.2	1.4	2.3

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...MICRACTINIACEAE								
....GOLENKINIA	--	-	--	-	--	-	57	3
....MICRACTINIUM	--	-	--	-	--	-	57	3
...OOCYSTACEAE								
....ANKISTRODESMUS	10	2	29	13	--	-	29	2
....CHLORELLA	--	-	--	-	--	-	14	1
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-
....TREUBARIA	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	--	-	110	6
....SCENEDESMUS	10	2	--	-	--	-	110	6
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	5	1	--	-	--	-	86	5
..ZYGNEMATALES								
...DESMIDIACEAE								
....COSMARIUM	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...CHAETOCERACEAE								
....CHAETOCEROS	--	-	--	-	--	-	--	-
...COSCINODISCACEAE								
....CYCLOTELLA	10	2	57#	25	--	-	1000#	55
....MELOSIRA	--	-	--	-	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	10	2	--	-	--	-	--	-
....COCCONEIS	10	2	--	-	--	-	--	-
....RHOICOSPHENIA	15	3	--	-	--	-	--	-
...CYMBELLACEAE								
....CYMBELLA	15	3	--	-	--	-	--	-
....EPITHEMIA	15	3	--	-	27	3	--	-
...DIATOMACEAE								
....DIATOMA	30	7	--	-	14	1	--	-
....OPEPHORA	--	-	--	-	14	1	--	-

See footnotes at end of table.

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	NOV 14,79		MAR 25,80		MAY 21,80		JUN 25,80	
TIME	1730		1130		1330		1400	
TOTAL CELLS/ML	460		230		1000		1900	
DIVERSITY: DIVISION	0.3		0.5		0.8		0.8	
.CLASS	0.3		0.5		0.8		0.8	
..ORDER	0.5		1.3		0.8		1.6	
...FAMILY	2.9		2.2		1.4		2.1	
....GENUS	3.3		2.2		1.4		2.3	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	--	-	--	-	72	4
....FRAGILARIA	10	2	--	-	--	-	--	-
....SYNEDRA	15	3	29	13	--	-	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	10	2	--	-	14	1	--	-
...NAVICULACEAE								
....NAVICULA	81#	18	29	13	110	11	--	-
....PLAGIOTROPIS	5	1	--	-	--	-	--	-
....PLEUROSIGMA	10	2	--	-	--	-	--	-
...NITZSCHIACEAE								
....NITZSCHIA	170#	36	86#	38	27	3	300#	16
...SURIRELLACEAE								
....CYMATOPLEURA	--	-	--	-	--	-	14	1
....SURIRELLA	5	1	--	-	55	5	--	-
...TABELLARIACEAE								
....TABELLARIA	25	5	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....AGMENELLUM	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	--	-	--	-	--	-
..HORMOGONALES								
...OSCILLATORIACEAE								
....LYNGBYA	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	--	-	740#	74	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	--	-	--	-

DATE	JUL 30,80		AUG 21,80		SEP 17,80	
TIME	1430		1000		1400	
TOTAL CELLS/ML	3600		10000		4600	
DIVERSITY: DIVISION	1.2		1.5		1.7	
.CLASS	1.2		1.5		1.7	
..ORDER	1.9		2.2		2.0	
...FAMILY	2.1		2.5		2.6	
....GENUS	2.2		3.1		2.7	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...MICRACTINIACEAE						
....GOLENKINIA	50	1	--	-	--	-
....MICRACTINIUM	--	-	--	-	300	7
...OOCYSTACEAE						
....ANKISTRODESMUS	50	1	1900#	19	75	2
....CHLORELLA	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	840	8	--	-
....KIRCHNERIELLA	--	-	350	3	--	-
....OOCYSTIS	700#	19	--	-	--	-
....SELENASTRUM	25	1	--	-	--	-
....TREUBARIA	--	-	--	-	75	2
...SCENEDESMACEAE						
....ACTINASTRUM	--	-	--	-	600	13
....SCENEDESMUS	100	3	420	4	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	100	3	210	2	220	5
..ZYGNEMATALES						
...DESMIDIACEAE						
....COSMARIUM	75	2	--	-	--	-

See footnotes at end of table.

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	JUL 30,80	AUG 21,80	SEP 17,80
TIME	1430	1000	1400
TOTAL CELLS/ML	3600	10000	4600
DIVERSITY: DIVISION	1.2	1.5	1.7
.CLASS	1.2	1.5	1.7
..ORDER	1.9	2.2	2.0
...FAMILY	2.1	2.5	2.6
....GENUS	2.2	3.1	2.7

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...CHAETOCERACEAE						
....CHAETOCEROS	--	-	70	1	--	-
...COSCINODISCACEAE						
....CYCLOTELLA	380	10	2400#	23	220	5
....MELOSIRA	--	-	350	3	--	-
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	--	-
....COCCONEIS	--	-	--	-	--	-
....RHOICOSPHENIA	--	-	--	-	--	-
...CYMBELLACEAE						
....CYMBELLA	--	-	--	-	75	2
....EPITHEMIA	--	-	--	-	--	-
...DIATOMACEAE						
....DIATOMA	--	-	--	-	--	-
....OPEPHORA	--	-	--	-	--	-
...FRAGILARIACEAE						
....ASTERIONELLA	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	--	-
...GOMPHONEMATACEAE						
....GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
....NAVICULA	--	-	--	-	300	7
....PLAGIOTROPIS	--	-	--	-	--	-
....PLEUROSIGMA	--	-	--	-	--	-
...NITZSCHIACEAE						
....NITZSCHIA	1900#	51	1500#	15	750#	16
...SURIRELLACEAE						
....CYMATOPLEURA	--	-	--	-	--	-
....SURIRELLA	--	-	--	-	--	-
...TABELLARIACEAE						
....TABELLARIA	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....AGMENELLUM	--	-	840	8	--	-
....ANACYSTIS	280	8	420	4	--	-
..HORMOGONALES						
...OSCILLATORIACEAE						
....LYNGBYA	--	-	840	8	--	-
....OSCILLATORIA	--	-	--	-	1900#	41
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....EUGLENA	--	-	--	-	75	2

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	930	950	1120	920	960	860	950	510	395	---	790	---
2	930	920	1080	910	990	950	940	510	---	---	810	920
3	890	880	1050	900	880	970	970	---	395	460	830	910
4	---	860	970	900	830	940	980	495	390	550	780	---
5	930	860	---	890	680	970	990	---	395	530	800	890
6	940	890	920	930	860	910	970	490	---	520	820	890
7	900	880	890	920	760	880	990	500	390	510	810	870
8	890	910	870	900	840	930	1020	490	380	485	---	1120
9	900	930	870	890	810	870	1040	480	365	520	840	1100
10	890	940	870	850	870	900	---	---	345	630	830	1310
11	920	920	870	860	840	950	1040	---	345	---	850	---
12	950	---	840	860	840	950	1000	480	350	590	---	1080
13	---	890	---	850	850	1000	990	490	345	610	800	1000
14	980	900	860	810	870	990	920	470	340	620	770	1270
15	910	880	840	800	880	---	930	445	340	---	780	1150
16	910	910	890	830	900	1010	920	445	---	630	---	1170
17	880	930	880	---	880	1040	920	475	320	670	---	1140
18	890	940	870	850	870	1030	940	495	---	660	830	1140
19	890	1010	920	850	930	1090	950	495	340	660	840	1080
20	---	---	940	860	940	1100	---	500	340	---	830	1030
21	930	920	940	840	860	1050	960	490	370	---	840	---
22	940	930	950	830	840	1020	910	510	355	---	890	1030
23	---	920	940	820	800	1030	890	520	---	730	870	1020
24	---	920	920	810	810	1010	---	510	360	720	---	990
25	1110	860	---	840	750	1010	800	455	360	720	920	980
26	1140	860	900	870	740	990	---	410	390	730	1030	970
27	1070	900	880	880	770	1020	---	370	375	760	1180	---
28	1010	910	870	900	830	1000	580	365	390	760	910	970
29	960	940	890	920	870	---	550	360	410	760	920	950
30	970	1030	910	960	---	930	540	---	410	770	1150	950
31	960	---	910	960	---	910	---	400	---	780	1020	---
MEAN	947	914	916	874	847	976	908	468	368	---	875	1040

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	7.5	5.0	6.0	2.0	5.0	7.0	14.0	16.0	---	26.0	---
2	18.0	7.5	5.5	6.5	1.0	4.0	7.5	15.0	---	---	26.0	20.0
3	20.0	6.0	6.5	6.5	2.0	7.0	8.0	---	16.0	24.0	26.0	19.0
4	---	6.0	6.5	6.0	2.0	6.5	9.0	15.0	16.5	23.5	26.0	---
5	18.0	4.5	---	6.0	3.0	6.0	9.0	---	17.0	24.0	26.0	22.0
6	17.0	5.0	6.5	6.0	2.0	5.0	10.5	16.0	---	23.0	25.0	23.0
7	17.0	6.0	6.5	6.5	2.0	5.0	10.0	15.0	18.0	23.0	25.0	21.0
8	17.0	6.5	7.0	6.5	1.0	7.0	11.0	15.0	18.5	23.0	---	20.0
9	17.0	6.0	6.5	6.5	1.0	7.5	12.0	15.0	19.0	23.0	26.0	19.0
10	18.0	6.0	6.5	6.5	2.0	7.0	---	---	20.0	24.0	26.0	18.0
11	15.5	6.0	7.0	6.5	1.0	7.0	10.0	---	19.5	---	26.0	---
12	17.0	---	6.5	6.5	1.0	8.0	9.0	12.0	19.5	25.0	---	19.0
13	---	6.0	---	7.0	3.0	8.0	9.0	13.0	19.5	22.0	25.0	19.0
14	18.0	6.0	6.5	7.0	2.5	8.0	10.5	13.0	19.0	24.0	24.0	19.0
15	16.0	4.0	6.5	6.5	3.5	---	11.0	13.0	18.5	---	25.0	20.0
16	15.0	4.0	6.5	6.5	4.0	7.5	13.0	13.0	---	26.0	---	21.0
17	13.0	3.0	6.5	---	3.0	7.0	13.0	13.0	20.0	27.0	---	20.0
18	---	4.0	6.5	6.5	4.0	8.0	13.5	14.0	---	25.0	21.0	20.0
19	15.0	4.0	.0	6.5	4.0	8.0	15.0	15.0	20.0	25.0	22.0	20.0
20	---	---	6.0	6.5	3.0	9.0	---	16.0	21.0	---	19.0	17.0
21	11.0	1.0	6.0	7.0	1.5	9.0	15.0	17.0	21.0	---	23.0	---
22	11.0	1.0	6.5	.0	3.0	8.5	15.0	17.0	22.0	---	22.0	17.0
23	---	1.0	6.0	7.0	2.0	8.5	15.0	17.0	---	26.0	21.0	18.0
24	---	.0	6.0	6.5	2.0	8.0	---	14.0	21.0	26.0	---	16.0
25	11.0	1.0	---	6.0	2.5	7.0	15.0	14.0	21.0	26.0	21.0	18.0
26	12.0	1.5	6.5	6.5	3.5	9.0	---	14.0	21.0	26.0	22.0	17.0
27	10.0	.0	6.5	6.5	3.5	9.0	---	14.0	22.0	26.0	21.0	---
28	11.5	1.5	6.5	6.5	4.0	7.0	15.0	14.0	22.0	27.0	21.0	19.0
29	8.0	1.0	6.0	6.0	4.0	---	14.0	15.0	22.0	25.0	20.0	17.0
30	7.5	1.0	6.0	6.0	---	6.0	14.0	---	22.0	25.0	19.0	18.0
31	7.0	---	6.0	6.0	---	6.0	---	16.0	---	26.0	19.0	---
MEAN	14.5	4.0	6.5	6.5	2.5	7.0	11.5	14.5	19.5	---	23.0	19.0

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	250	2150	330	2860	210	958	130	1050	130	800	640	8730
2	310	2460	720	8440	210	958	110	950	170	1030	660	8520
3	340	2390	1230	15500	220	1600	130	1120	570	5510	830	12500
4	300	1890	1240	13700	280	2030	140	1130	670	7060	910	15600
5	200	1140	820	8480	310	2300	110	843	700	7770	740	11300
6	140	756	540	6010	310	2280	120	920	720	8050	590	7420
7	130	755	480	4390	330	2420	120	962	610	5780	560	7050
8	100	594	320	2430	290	2150	120	1000	550	4450	750	11100
9	90	450	210	1500	270	2000	130	1110	560	5070	840	13700
10	90	433	210	1800	260	1920	130	1180	570	5680	800	12400
11	70	335	250	2650	240	1750	110	1010	570	5910	690	9860
12	70	336	270	2600	200	1450	110	1050	570	5860	600	7890
13	140	786	200	1820	200	1460	120	1280	570	6060	490	5850
14	160	955	160	1330	180	1340	120	1340	540	5530	500	6170
15	160	1090	160	1210	180	1360	130	1400	470	4430	520	6370
16	180	1520	130	892	180	1390	140	1580	530	5310	480	5500
17	140	1160	130	962	140	1080	160	1780	650	6910	490	5250
18	110	763	150	1230	130	997	130	1240	920	11200	460	4220
19	90	544	170	1330	130	1020	190	1930	1320	19800	470	4050
20	60	321	110	763	120	936	140	1300	1420	23200	500	4350
21	90	508	110	841	120	920	130	1190	1470	24300	490	4450
22	80	501	90	625	130	997	140	1300	1710	36600	480	4120
23	100	737	110	683	130	972	130	1190	2140	64700	460	3740
24	120	859	150	948	140	1060	120	1100	2160	73500	530	4810
25	140	998	170	1100	130	986	120	1130	1710	52200	490	4020
26	130	913	170	1130	130	993	120	1190	1340	34600	640	5700
27	250	1950	170	1110	130	1120	130	1400	1000	19700	540	5130
28	370	3150	170	1090	130	1110	120	1050	780	11900	620	6410
29	430	3460	190	1170	130	1070	140	1020	740	11300	770	8840
30	410	3070	200	1230	140	869	110	662	---	---	940	11100
31	330	2450	---	---	140	892	140	885	---	---	1180	13300
TOTAL	---	39424	---	89824	---	42388	---	36292	---	474210	---	239450

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	1020	11100	2410	77400	3110	148000	530	13400	165	1060	500	3600
2	940	8880	2400	81000	3000	143000	510	12600	189	1160	500	3650
3	820	6730	2520	91900	2550	115000	560	13100	190	1190	500	3630
4	680	5910	2450	94600	2560	114000	1110	25100	161	1030	450	3160
5	670	7130	2400	90100	2290	97100	1040	23900	133	812	300	2110
6	640	6080	2120	73800	2220	92900	1040	24100	122	636	250	1610
7	440	3650	2320	84600	2380	104000	980	24100	138	708	250	1680
8	330	2450	2720	105000	2710	131000	530	11000	146	721	300	2210
9	310	2390	2890	117000	2720	140000	480	8640	135	631	4900	41400
10	350	2920	3350	152000	2300	125000	480	7930	147	782	9350	118000
11	410	3800	3780	188000	2190	122000	490	7810	144	797	11600	190000
12	770	9880	4190	223000	2240	131000	500	7240	118	650	5600	65000
13	1040	12700	4400	238000	2180	134000	460	6610	113	662	2500	30600
14	1010	11300	3980	219000	2100	131000	360	5110	130	867	2000	20500
15	1270	15800	4050	233000	2080	128000	310	4050	127	868	1850	17200
16	1270	14600	3710	200000	2060	122000	274	3330	113	699	1700	14000
17	990	10400	2740	118000	1980	106000	251	2860	120	739	1150	8730
18	1000	11700	2200	83200	1880	91400	220	2280	152	960	850	6310
19	1180	13500	2090	77300	1800	83100	210	2190	168	1070	700	5390
20	1600	21000	2440	99500	1790	80200	190	1840	159	966	550	4230
21	1970	32900	3370	153000	1770	76500	163	1310	154	923	370	2730
22	2080	36200	4070	170000	1770	77400	156	1170	201	1210	300	2200
23	2400	46400	3680	154000	1650	68600	171	1350	189	1210	260	1990
24	3010	66000	3650	165000	1600	63100	150	1060	188	1200	280	2180
25	3700	96400	3990	211000	1650	61500	135	911	178	1090	240	1780
26	4160	134000	4000	235000	1310	45300	138	939	180	1100	230	1470
27	4360	153000	3730	235000	1240	41500	135	915	188	1330	240	1650
28	3940	144000	3190	198000	770	24100	125	864	2100	19600	210	1550
29	3320	111000	2750	151000	540	15200	118	784	1750	13800	220	1630
30	2920	95400	2820	135000	500	12900	110	677	550	4040	220	1700
31	---	---	3000	139000	---	---	110	627	450	3290	---	---
TOTAL	---	1097220	---	4592400	---	2824800	---	217797	---	65801	---	561890

TOTAL LOAD FOR YEAR: 10281496 TONS.

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
NOV						
14...	1730	3080	5.5	96	160	1330
DEC						
19...	0830	2900	.0	92	51	399
JAN						
22...	1030	3400	.0	94	364	3340
MAR						
25...	1130	3350	6.5	100	659	5960
APR						
22...	1000	6050	14.0	93	4400	71900
MAY						
21...	1330	16700	15.5	74	3100	140000
JUN						
25...	1400	14100	20.0	32	1810	68900
JUL						
30...	1430	2600	25.5	90	56	393
AUG						
21...	1000	2270	18.0	98	73	447
SEP						
17...	1400	2820	18.5	99	1240	9440

09317919 CRANDALL CANYON AT MOUTH, NEAR HUNTINGTON, UTAH

LOCATION.--Lat 39°27'48", long 111°08'54", in SW1/4NW1/4 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 except those above 6 ft^3/s (0.170 m^3/s) and winter period, which are poor.

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 daily discharge, 28 ft^3/s (0.793 m^3/s) May 31; minimum daily discharge, 0.38 ft^3/s (0.011 m^3/s) on many days in November and December (may have been lower during period of non-operation).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.49	.41	.38				---	4.5	24	7.7	1.5	.80
2	.49	.41	.38				---	4.4	23	7.4	1.4	.78
3	.44	.42	.38				---	4.8	24	6.7	1.4	.73
4	.44	.42	---				---	6.2	24	6.0	1.4	.70
5	.44	.42	---				---	7.6	24	5.5	1.3	.68
6	.42	.42	---				---	11	24	5.2	1.2	.68
7	.42	.42	---				---	12	27	4.9	1.2	.83
8	.44	.41	---				---	13	27	5.0	1.2	.92
9	.46	.41	---				---	13	27	4.8	1.1	.89
10	.49	.40	---				---	13	25	4.5	1.1	1.3
11	.47	.39	---				---	12	24	4.4	1.0	1.0
12	.44	.38	---				---	11	23	3.2	1.1	.90
13	.44	.38	---				---	10	21	3.9	1.1	.85
14	.42	.38	---				---	10	20	3.7	1.4	.78
15	.41	.38	---				---	9.3	19	3.5	1.2	.75
16	.41	.38	---				---	9.9	18	3.3	1.1	.72
17	.44	.38	---				---	9.9	17	3.1	1.1	.71
18	.48	.40	---				---	11	16	2.9	1.0	.70
19	.46	.39	---				---	12	15	2.8	1.0	.68
20	.54	.38	---				---	16	14	2.7	1.0	.70
21	.46	.38	---				---	21	13	2.4	.96	.73
22	.46	.38	---				---	24	12	2.4	.93	.76
23	.46	.38	---				---	25	11	2.4	1.0	.76
24	.45	.38	---				---	23	10	2.3	1.1	.70
25	.45	.38	---				---	24	9.8	2.1	1.0	.73
26	.46	.38	---				---	25	9.7	1.9	1.0	.73
27	.46	.38	---				---	24	9.0	1.9	.94	.70
28	.45	.38	---				---	24	8.2	1.8	.87	.70
29	.44	.38	---				---	25	7.6	1.7	.83	.68
30	.44	.38	---				4.6	26	7.2	1.6	.81	.68
31	.43	---	---				---	28	---	1.6	.80	---
TOTAL	14.00	11.78	---				---	469.6	533.5	113.3	34.04	23.27
MEAN	.45	.39	---				---	15.1	17.8	3.65	1.10	.78
MAX	.54	.42	---				---	28	27	7.7	1.5	1.3
MIN	.41	.38	---				---	4.4	7.2	1.6	.80	.68
AC-FT	28	23	---				---	931	1060	225	68	46

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 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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										
13...	1545	.45	490	8.6	17.5	7.0	9.2	--	--	--
NOV										
12...	1045	.38	550	8.3	4.5	.0	11.2	1.1	K1	88
APR										
29...	1545	5.0	495	8.7	5.0	5.0	9.5	.37	K1	K1
JUL										
13...	1245	4.1	450	8.5	15.5	11.0	8.5	--	--	--
AUG										
17...	1230	1.2	480	8.6	21.0	11.0	8.3	.19	K9	780
SEP										
20...	1800	.69	465	8.5	11.0	11.0	8.4	--	--	--

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)
OCT										
13...	300	62	61	35	5.6	4	.1	7.2	1.6	250
NOV										
12...	300	37	63	34	6.7	8	.2	8.3	1.6	320
APR										
29...	270	35	57	30	6.0	5	.2	--	1.2	270
JUL										
13...	240	17	54	25	4.8	4	.1	--	1.3	260
AUG										
17...	250	20	54	29	5.3	4	.1	--	1.4	260
SEP										
20...	240	32	49	29	4.9	4	.1	--	1.2	270

DATE	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (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										
13...	20	240	1.2	43	5.1	--	6.7	301	.41	.37
NOV										
12...	0	260	2.6	42	5.1	.1	6.6	317	.43	.33
APR										
29...	8	230	.9	42	6.3	.2	5.2	289	.39	3.90
JUL										
13...	6	220	1.4	25	4.1	--	5.1	253	.34	2.80
AUG										
17...	10	230	1.1	32	5.3	.2	6.0	272	.37	.88
SEP										
20...	6	230	1.3	34	5.2	--	5.7	255	.35	.48

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

09317919 CRANDALL CANYON AT MOUTH, NEAR HUNTINGTON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	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, NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT										
13...	--	--	--	--	--	--	--	--	--	--
NOV										
12...	.00	.00	.000	.00	.00	.000	.00	1.1	.28	.00
APR										
29...	.05	<.22	.000	.00	.05	.000	.00	.32	.47	.15
JUL										
13...	--	--	--	--	--	--	--	--	--	--
AUG										
17...	.00	<.00	.000	.00	.00	.050	.06	.14	1.1	.91
SEP										
20...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
NOV										
12...	1045	2	20	10	0	30	2	0	220	5
APR										
29...	1545	1	10	10	0	10	4	1	190	<3
AUG										
17...	1230	1	60	<10	1	9	3	0	190	6

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)
NOV					
12...	1.1	.000	.00	.000	.00
APR					
29...	.32	.020	.06	.000	.00
AUG					
17...	.19	.010	.03	.000	.00

09317919 CRANDALL CANYON AT MOUTH, NEAR HUNTINGTON, UT--Continued

BENTHIC INVERTEBRATE ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date:	Nov. 12, 1979	Aug. 17, 1980
Time:	1210	1320
Total Count	87	817
Diversity Phylum		
.Class		
..Order		2.5
...Family	2.5	
Organism		
Annelida		
.Oligochaeta		
..Plesiopora	1	-
...Enchytraeidae	-	4
Arthropoda		
.Arachnoidea		
..Hydracarina		
...Sperchonidae	-	1
.Insecta.		
..Coleoptera		
...Dytiscidae	1	-
...Elmidae	2	16
..Collembola	1	-
..Diptera		
...Ceratopogonidae	-	3
...Chironomidae	14	132
...Empididae	-	2
...Muscidae	2	-
...Simuliidae	2	240
...Tipulidae	6	9
..Ephemeroptera	33	-
...Baetidae		311
...Empereridae	-	2
...Heptageniidae	-	6
..Plecoptera		
...Capniidae	-	3
...Nemouridae	-	21
...Perlodidae	-	12
...Pteronarcyidae	-	15
..Trichoptera	23	-
...Brachycentridae		1
...Hydropsychidae	-	28
...Hydroptilidae	-	2
...Limnephilidae	-	3
...Rhyacophilidae	-	5
Mollusca		
.Pelecypoda		
..Heterodonta		
...Sphaeriidae	-	1
Nematoda		
.Aphasmidia		
..Enoplida	2	-
Platyhelminthes		
.Turbellaria		
..Tricladida		
...Planariidae	-	2

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
NOV					
12...	1045	.38	.0	121	.12
APR					
29...	1545	5.0	5.0	68	.92
AUG					
17...	1230	1.2	11.0	24	.05

09317919 CRANDALL CANYON AT MOUTH, NEAR HUNTINGTON, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
NOV							
12...	1045	.38	.0	13	21	34	42

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
NOV						
12...	44	47	55	69	83	100

09317920 TIE FORK CANYON NEAR HUNTINGTON, UTAH

LOCATION.--Lat 39°27'31", long 111°08'11", in NE1/4SE1/4 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 current year (seasonal record).

GAGE.--Water-stage recorder. Altitude of gage is 7,400 ft (2,260 m) from topographic map.

REMARKS.--Records good except those above 6 ft^3/s (0.170 m^3/s), and November, which are poor.

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 daily discharge, 29 ft^3/s (0.821 m^3/s) May 30, 31, June 7-9; minimum daily, 0.40 ft^3/s (0.011 m^3/s) Nov. 23, 24, 29, 30 (may have been lower during period of non-operation).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.54	.51	.61				---	5.1	26	8.0	1.9	1.1
2	.52	.52	.57				---	5.0	25	7.4	1.9	1.0
3	.52	.52	.56				---	5.5	26	6.6	1.8	1.0
4	.54	.52	---				---	6.5	26	6.0	1.7	.98
5	.57	.51	---				---	8.3	26	5.5	1.7	.95
6	.57	.51	---				---	12	26	5.1	1.6	.96
7	.57	.49	---				---	13	29	5.0	1.5	1.4
8	.57	.49	---				---	14	29	5.1	1.4	1.5
9	.54	.49	---				---	14	29	4.6	1.4	1.5
10	.54	.50	---				---	14	27	4.2	1.4	2.0
11	.52	.54	---				---	13	26	4.0	1.4	1.5
12	.52	.58	---				---	12	24	3.8	1.3	1.2
13	.52	.54	---				---	11	22	3.6	1.5	1.2
14	.52	.52	---				---	11	21	3.4	1.9	1.1
15	.54	.50	---				---	10	20	3.3	1.9	1.1
16	.57	.49	---				---	11	19	3.1	1.5	.99
17	.54	.49	---				---	11	18	3.0	1.4	.95
18	.60	.49	---				---	12	17	2.9	1.3	.93
19	.54	.46	---				---	14	16	2.8	1.3	.91
20	.60	.46	---				---	18	14	2.7	1.3	.91
21	.60	.42	---				---	24	13	2.6	1.3	.90
22	.54	.41	---				---	28	12	2.6	1.2	.91
23	.54	.40	---				---	27	12	2.6	1.3	.89
24	.52	.40	---				---	26	11	2.6	1.4	.88
25	.52	.41	---				---	26	10	2.4	1.6	.86
26	.52	.42	---				---	27	10	2.2	1.4	.86
27	.52	.41	---				---	26	8.8	2.2	1.3	.89
28	.52	.41	---				---	26	8.3	2.1	1.2	.88
29	.54	.40	---				7.1	28	7.6	2.1	1.1	.87
30	.54	.40	---				5.5	29	7.6	2.0	1.1	.84
31	.53	---	---				---	29	---	2.0	1.1	---
TOTAL	16.84	14.21	---				---	516.4	566.3	115.5	45.1	31.96
MEAN	.54	.47	---				---	16.7	18.9	3.73	1.45	1.07
MAX	.60	.58	---				---	29	29	8.0	1.9	2.0
MIN	.52	.40	---				---	5.0	7.6	2.0	1.1	.84
AC-FT	33	28	---				---	1020	1120	229	89	63

09317920 TIE FORK CANYON 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 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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...	1015	.53	520	8.5	11.5	6.0	9.8	--	--	--
NOV										
12...	1415	.97	580	8.2	3.0	.0	11.1	.60	K2	K44
MAY										
25...	1500	26	455	8.5	9.5	4.0	10.0	2.0	K5	K14
JUN										
28...	1200	8.7	440	8.5	23.5	10.5	8.7	--	--	--
JUL										
13...	1515	3.5	425	8.7	15.0	12.0	8.4	--	--	--
AUG										
17...	1645	1.5	455	8.6	19.5	12.5	7.9	.68	68	140
SEP										
20...	1445	.96	475	8.5	15.0	11.0	8.5	--	--	--

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)
OCT										
14...	290	31	61	33	5.3	4	.1	7.3	2.0	300
NOV										
12...	310	39	65	36	4.9	6	.1	6.7	1.8	330
MAY										
25...	250	17	70	18	3.0	3	.1	--	1.2	280
JUN										
28...	240	5	59	22	3.4	3	.1	--	1.0	270
JUL										
13...	220	10	49	24	3.5	3	.1	--	1.2	240
AUG										
17...	240	25	51	27	3.8	3	.1	--	1.4	230
SEP										
20...	250	35	52	28	3.7	3	.1	--	1.3	270

DATE	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (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										
14...	8	260	1.6	41	5.0	--	6.7	310	.42	.45
NOV										
12...	0	270	3.3	40	7.7	.1	7.0	326	.44	.85
MAY										
25...	2	230	1.4	26	3.6	.2	5.7	274	.37	19.2
JUN										
28...	8	230	1.4	19	3.7	--	5.6	255	.35	5.99
JUL										
13...	8	210	.8	18	3.8	--	5.8	232	.32	2.19
AUG										
17...	16	220	1.1	25	4.3	.2	6.0	250	.34	1.01
SEP										
20...	6	230	1.3	31	4.6	--	5.6	252	.34	.65

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

09317920 TIE FORK CANYON NEAR HUNTINGTON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	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, NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT										
14...	--	--	--	--	--	--	--	--	--	--
NOV										
12...	.15	.66	.000	.00	.15	.000	.00	.45	.55	.10
MAY										
25...	1.4	<6.2	.000	.00	1.4	.040	.05	.52	1.0	.44
JUN										
28...	--	--	--	--	--	--	--	--	--	--
JUL										
13...	--	--	--	--	--	--	--	--	--	--
AUG										
17...	.26	<1.2	.000	.00	.26	.060	.08	.36	.43	.01
SEP										
20...	--	--	--	--	--	--	--	--	--	--

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)
NOV					
12...	.45	.010	.03	.000	.00
MAY					
25...	.56	.160	.49	.040	.12
AUG					
17...	.42	.020	.06	.000	.00

DATE	TIME	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
NOV										
12...	1415	2	20	10	0	30	3	0	260	<3
MAY										
25...	1500	0	30	20	0	10	0	1	200	10
AUG										
17...	1645	1	60	<10	2	9	2	0	220	4

09317920 TIE FORK CANYON NEAR HUNTINGTON, UT--Continued

BENTHIC INVERTEBRATE ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date:	Nov. 12, 1979	Aug. 17, 1980
Time:	1530	1645
Total Count	556	180
Diversity Phylum		
.Class		
..Order	1.4	0.0
...Family	0.0	3.3
Organism		
Annelida		
.Oligochaeta		
..Plesiopora		
...Enchytraeidae	-	2
Arthropoda		
.Arachnoidea		
..Hydracarina		
...Lebertiidae	-	1
...Sperchonidae	-	1
.Insecta		
..Coleoptera		
...Elmidae	-	1
..Diptera		
...Chironomidae	12	26
...Culicidae	4	-
...Psychodidae	4	-
...Simuliidae	-	5
...Tipulidae	12	7
..Ephemeroptera	384	-
...Baetidae	-	56
...Ephemeridae	-	1
...Heptageniidae	-	11
...Leptophlebiidae	-	2
..Plecoptera	44	-
...Capniidae	-	16
...Nemouridae	-	8
...Perlodidae	-	7
...Pteronarcyidae	-	14
..Trichoptera	96	
...Hydropsychidae	-	19
...Rhyacophilidae	-	1
Mollusca		
.Pelecypoda		
..Heterondonta		
...Sphaeriidae	-	1
Platyhelminthes		
.Turbellaria		
..Tricladida		
...Planariidae	-	1

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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
NOV							
12...	1415	.97	.0	143	.37	--	--
APR							
29...	1720	4.6	3.5	227	2.8	56	58
MAY							
25...	1500	26	4.0	648	45	14	16
AUG							
17...	1645	1.5	12.5	7	.03	--	--

DATE	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	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM
NOV						
12...	--	--	--	--	--	--
APR						
29...	70	92	96	98	100	--
MAY						
25...	27	44	63	87	98	100
AUG						
17...	--	--	--	--	--	--

09317920 TIE FORK CANYON NEAR HUNTINGTON, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
NOV 12...	1415	.97	.0	1	1	6	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
NOV 12...	33	42	54	72	93	100

09317997 HUNTINGTON CREEK NEAR HUNTINGTON, UTAH

LOCATION.--Lat 39°23'07", long 111°05'15", in SE1/4NE1/4SW1/4 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 September 1980.

GAGE.--Water-stage recorder. Altitude of gage is 6,450 ft (1,966 m) from topographic map.

REMARKS.-Records good except those for winter period, which are poor. 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 CURRENT YEAR.--Maximum discharge, 1,020 ft^3/s (28.9 m^3/s) June 11, gage height, 4.43 ft (1.350 m); minimum, 3.2 ft^3/s (0.091 m^3/s) Apr. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	34	33	12	21	26	35	139	344	283	94	54
2	64	35	36	12	22	25	39	139	390	279	92	55
3	62	36	37	11	22	25	38	153	599	233	92	54
4	60	36	34	12	23	25	37	174	643	194	88	56
5	57	36	33	12	23	24	39	196	666	164	84	60
6	54	36	32	12	23	24	39	269	581	142	80	58
7	51	36	31	13	24	24	34	240	654	130	104	63
8	48	36	31	13	24	23	36	227	729	126	122	72
9	46	36	30	13	24	23	34	228	795	112	121	71
10	43	36	29	14	25	23	31	195	834	103	118	77
11	47	34	28	14	25	22	31	160	864	106	120	87
12	56	31	28	15	25	22	31	131	784	114	131	70
13	54	33	27	15	26	22	32	112	714	132	146	69
14	54	34	26	15	26	21	38	107	678	125	152	64
15	53	34	25	16	26	21	41	113	695	118	156	63
16	53	24	25	16	27	21	40	132	666	112	152	62
17	53	34	24	16	27	20	47	149	631	108	152	61
18	55	33	23	17	27	20	53	138	610	107	149	60
19	54	32	22	17	28	19	62	204	610	112	148	58
20	60	32	21	17	28	19	69	301	593	107	144	57
21	55	20	21	18	28	19	65	379	546	105	96	58
22	55	17	20	18	28	18	81	442	503	129	94	58
23	65	23	19	18	28	18	86	453	507	110	95	58
24	70	31	18	19	28	18	85	391	494	94	103	58
25	71	32	18	19	27	17	112	315	450	69	98	58
26	69	30	17	19	27	17	119	262	434	70	106	58
27	67	20	16	20	27	17	127	277	412	77	66	59
28	66	11	15	20	26	16	149	305	377	75	56	59
29	65	10	15	20	26	16	179	318	368	69	54	59
30	65	20	14	21	---	16	157	315	324	65	54	59
31	47	---	13	21	---	15	---	317	---	76	55	---
TOTAL	1787	892	761	495	741	636	1966	7281	17495	3846	3322	1855
MEAN	57.6	29.7	24.5	16.0	25.6	20.5	65.5	235	583	124	107	61.8
MAX	71	36	37	21	28	26	179	453	864	283	156	87
MIN	43	10	13	11	21	15	31	107	324	65	54	54
AC-FT	3540	1770	1510	982	1470	1260	3900	14440	34700	7630	6590	3680

WTR YR 1980 TOTAL 41077 MEAN 112 MAX 864 MIN 10 AC-FT 81480

09317997 HUNTINGTON CREEK NEAR HUNTINGTON, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1979 to September 1980.

SEDIMENT DATA: October 1979 to September 1980, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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...	1030	54	315	8.5	15.5	8.0	9.5	.38	K3	K18
NOV										
11...	0930	32	435	8.3	4.5	.0	11.6	.66	K0	K5
DEC										
14...	1515	26	460	8.4	2.5	1.0	11.6	.60	K2	K5
JAN										
17...	1200	16	430	8.1	5.0	2.0	11.1	1.0	K0	K4
FEB										
07...	1415	24	430	8.4	2.0	1.0	11.3	--	<1	<1
MAR										
06...	1415	24	440	8.5	5.0	3.5	10.4	.57	<1	K1
APR										
10...	1500	32	445	8.2	5.0	6.0	9.6	--	K1	K1
MAY										
24...	1600	374	370	8.4	8.5	6.0	9.8	--	K8	24
JUN										
29...	1645	353	310	8.7	25.5	16.5	7.8	.62	K5	27
JUL										
13...	1630	125	335	8.6	20.0	13.5	8.5	--	K11	62
AUG										
18...	1030	142	310	8.6	18.0	10.0	9.2	--	K11	49
SEP										
20...	1015	61	355	8.4	10.5	9.5	9.5	.44	K6	47

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)
OCT										
14...	170	3	44	15	3.1	4	.1	4.0	.9	200
NOV										
11...	230	25	59	21	5.8	8	.2	7.2	1.4	250
DEC										
14...	250	25	59	24	6.3	5	.2	7.8	1.5	270
JAN										
17...	220	23	54	20	4.9	5	.1	6.3	1.4	240
FEB										
07...	230	30	59	21	5.3	5	.2	6.6	1.3	240
MAR										
06...	220	25	53	21	6.9	6	.2	8.3	1.4	230
APR										
10...	230	17	55	23	7.3	6	.2	--	1.3	260
MAY										
24...	200	30	52	17	3.8	4	.1	--	1.0	220
JUN										
29...	160	11	46	12	2.8	4	.1	--	.8	170
JUL										
13...	170	4	46	14	3.1	4	.1	--	.9	190
AUG										
18...	160	6	45	11	2.5	3	.1	--	.8	180
SEP										
20...	190	16	48	16	3.5	4	.1	--	.9	210

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

09317997 HUNTINGTON CREEK NEAR HUNTINGTON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CARBONATE (MG/L AS CO3)	ALKALINITY (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										
14...	2	170	1.2	20	2.5	.2	2.5	189	.26	27.6
NOV										
11...	0	210	2.0	33	4.4	.1	4.7	254	.35	21.9
DEC										
14...	2	220	1.7	30	4.5	.1	6.0	268	.36	18.8
JAN										
17...	0	200	3.1	27	4.7	.1	4.8	236	.32	10.2
FEB										
07...	2	200	1.6	33	5.0	--	4.8	250	.34	16.2
MAR										
06...	4	200	1.2	39	6.6	.1	4.5	251	.34	16.3
APR										
10...	0	210	2.6	38	8.2	--	4.6	265	.36	22.9
MAY										
24...	2	190	1.4	19	4.0	--	5.0	204	.28	206
JUN										
29...	6	150	.6	14	1.7	.1	3.4	171	.23	163
JUL										
13...	6	170	.8	21	3.0	--	3.7	191	.26	64.5
AUG										
18...	4	160	.8	24	5.0	--	2.5	183	.25	70.2
SEP										
20...	2	190	1.3	20	3.1	.1	3.1	197	.27	32.4

DATE	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)
OCT								
14...	.08	.35	.000	.00	.08	.010	.01	.29
NOV								
11...	.25	1.1	.000	.00	.25	.010	.01	.40
DEC								
14...	.30	1.3	.000	.00	.30	.030	.04	.27
JAN								
17...	.25	1.1	.009	.03	.26	.020	.03	.76
MAR								
06...	.18	.80	.000	.00	.18	.000	.00	.39
JUN								
29...	.15	.66	.010	.03	.16	.030	.04	.43
SEP								
20...	.00	.00	.000	.00	.00	.030	.04	.41

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)
OCT							
14...	.50	.20	.30	.010	.03	.000	.00
NOV							
11...	.43	.02	.41	.000	.00	.000	.00
DEC							
14...	.53	.23	.30	.030	.09	.010	.03
JAN							
17...	.83	.05	.78	.030	.09	.010	.03
MAR							
06...	.50	.11	.39	.020	.06	.010	.03
JUN							
29...	.86	.40	.46	.180	.55	.010	.03
SEP							
20...	1.1	.66	.44	.020	.06	.000	.00

09317997 HUNTINGTON CREEK NEAR HUNTINGTON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT										
14...	1030	2	20	10	0	9	4	0	110	<3
NOV										
11...	0930	2	20	10	0	30	7	0	150	5
DEC										
14...	1515	1	20	20	0	10	5	0	170	7
JAN										
17...	1200	2	20	<10	0	<4	4	1	140	<3
MAR										
06...	1415	1	30	<10	0	9	4	0	140	<3
JUN										
29...	1645	1	0	<10	0	<4	8	0	110	<3
SEP										
20...	1015	1	20	10	1	8	5	0	120	7

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

Date:	Oct. 14, 1979	Nov. 11, 1979	Dec. 14, 1979	Jan. 17, 1980	Mar. 6, 1980	Sept. 20, 1980
Time:	1030	1140	1515	1200	1415	1015
Total Count	360	298	1,534	1,814	2,137	755
Diversity Phylum						
.Class						
..Order	2.6	1.8	1.5			
... Family	0.0	0.0	0.0	1.8	2.6	3.0
Organism						
Annelida						
.Oligochaeta	20	-	12	-	-	-
..Plesiopora						
...Enchytraeidae	-	-	-	9	3	-
...Naididae	-	-	-	48	14	18
...Tubificidae	-	-	-	4	2	1
Arthropoda						
.Arachnoidea						
..Hydracarina	16	-	8	-	-	-
...Hygrobatidae	-	-	-	-	-	1
...Lebertiidae	-	-	-	-	1	-
...Limnesiidae	-	-	-	-	1	-
...Sperchonidae	-	-	-	8	31	11
.Insecta						
..Coleoptera						
...Elmidae	84	18	76	60	144	83
..Diptera						
...Chironomidae	20	26	210	437	752	141
...Empididae	28	12	18	10	57	6
...Rhagionidae	-	-	-	3	7	3
...Simuliidae	-	-	-	-	-	4
...Tipulidae	4	-	8	11	12	8
..Ephemeroptera	144	182	1,108	-	-	-
...Baetidae	-	-	-	1,124	729	276
...Ephemeridae	-	-	-	22	88	66
...Heptageniidae	-	-	-	19	101	39
...Leptophlebiidae	-	-	-	-	-	2
...Tricorythidae	-	-	-	2	1	-
..Plecoptera	12	12	28	-	-	-
...Capniidae	-	-	-	4	-	11
...Chloroperlidae	-	-	-	-	9	4
...Nemouridae	-	-	-	3	8	-
...Perlodidae	-	-	-	5	40	5
...Pteronarcyidae	-	-	-	2	14	2
...Taeniopterygidae	-	-	-	2	2	8
..Trichoptera	20	48	66	-	-	-
...Brachycentridae	-	-	-	2	28	6
...Hydropsychidae	-	-	-	38	86	45
...Lepidostomatidae	-	-	-	1	-	1
...Limnephilidae	-	-	-	-	-	4
...Rhyacophilidae	-	-	-	-	2	3
Mollusca						
.Gastropoda						
..Aspidobranchia						
...Lymnaidae	-	-	-	-	-	1
Nematoda						
.Aphasmidia	12	-	-	-	-	-
..Enoplida						
...Dorycaimidae	-	-	-	-	2	6
Platyhelminthes						
.Turbellaria						
..Tricladida						
...Planariidae	-	-	-	-	3	-

09317997 HUNTINGTON CREEK NEAR HUNTINGTON, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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
NOV							
11...	0930	32	.0	91	7.9	--	--
DEC							
14...	1515	26	1.0	64	4.5	--	--
JAN							
17...	1200	16	2.0	51	2.2	--	--
MAR							
06...	1415	24	3.5	42	2.7	--	--
APR							
29...	1750	148	6.0	1690	675	41	55
MAY							
24...	1600	374	6.0	266	269	--	--
JUN							
12...	1300	820	10.0	827	1830	12	16
29...	1645	353	16.5	121	115	--	--
JUL							
13...	1630	125	13.5	84	28	--	--
AUG							
17...	1030	142	10.0	41	16	--	--
SEP							
20...	1015	61	9.5	23	3.8	--	--

DATE	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	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM
NOV						
11...	--	--	--	--	--	--
DEC						
14...	--	--	--	--	--	--
JAN						
17...	--	--	--	--	--	--
MAR						
06...	--	--	--	--	--	--
APR						
29...	74	93	97	100	--	--
MAY						
24...	--	--	--	--	--	--
JUN						
12...	19	70	76	85	97	100
29...	--	--	--	--	--	--
JUL						
13...	--	--	--	--	--	--
AUG						
17...	--	--	--	--	--	--
SEP						
20...	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
NOV							
11...	0930	32	.0	2	6	20	38
DEC							
14...	1515	26	1.0	1	2	4	7
JAN							
17...	1200	16	2.0	5	12	28	43

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
NOV						
11...	52	62	77	89	100	--
DEC						
14...	12	17	25	34	44	64
JAN						
17...	58	70	84	94	98	100

09319000 EPHRAIM TUNNEL NEAR EPHRAIM, UTAH
(Transmountain diversion)

LOCATION.--Lat 39°19'47", long 111°25'51", in SE1/4SE1/4SE1/4 sec.14, T.17 S., R.4 E., Sanpete County, Hydrologic Unit 14060009, at east tunnel portal, 9.0 mi (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) National Geodetic Vertical Datum of 1929. (Levels by U.S. Geological Survey, Topographic Division.)

REMARKS.--Records fair. Flow is seasonal. Tunnel diverts from Cottonwood Creek drainage in Colorado River basin to San Pitch River in the Great Basin. Due to location of the gage, reported flow may not be actual flow through tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 142 ft^3/s (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, 89 ft^3/s (2.52 m^3/s) June 10; no flow some days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	40	55	3.1	.23
2								---	40	56	3.4	.16
3								---	50	44	2.8	.16
4								---	64	36	2.6	.30
5								---	72	30	2.4	.23
6								5.2	73	27	2.1	.23
7								11	69	24	1.9	.68
8								14	79	21	1.7	2.4
9								17	84	21	1.6	2.6
10								18	89	20	1.4	2.4
11								19	87	18	1.1	.80
12								19	81	17	1.1	.47
13								17	78	17	1.2	.38
14								15	74	15	1.1	.38
15								13	72	13	1.1	.30
16								12	72	12	.93	.23
17								12	75	12	.93	.16
18								12	62	11	.80	.16
19								15	58	9.8	.68	.16
20								23	45	9.2	.68	.23
21								32	21	8.2	.57	.38
22								45	19	8.5	.47	.23
23								56	18	8.2	.47	.23
24								52	16	8.2	.80	.23
25								42	15	6.4	.68	.23
26								32	39	5.8	.47	.16
27								25	58	5.2	.38	.10
28								26	52	4.7	.30	.10
29								29	54	4.4	.23	.05
30								33	53	4.1	.23	.00
31								35	---	3.6	.23	---
TOTAL								---	1709	535.3	37.45	14.37
MEAN								---	57.0	17.3	1.21	.48
MAX								---	89	56	3.4	2.6
MIN								---	15	3.6	.23	.00
AC-FT								---	3390	1060	74	29

09323000 SPRING CITY TUNNEL NEAR SPRING CITY, UTAH
(Transmountain diversion)

LOCATION.--Lat 39°25'34", long 111°21'51", in NW1/4SW1/4SE1/4 sec.16, T.16 S., R.5 E., Sanpete County, Hydrologic Unit 14060009, at west portal of tunnel, 11 mi (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 in 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) National Geodetic Vertical Datum 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 poor. 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 m^3/s) July 23, 1965; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 103 ft^3/s (2.92 m^3/s) June 10, gage height, 2.72 ft (0.829 m); no flow at times.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	2.1	17	44	3.5	2.0
2							---	1.8	17	47	3.4	2.0
3							---	1.9	22	36	3.2	2.0
4							---	3.1	31	30	3.1	2.0
5							---	3.7	44	21	3.1	2.0
6							---	4.0	46	23	3.0	2.0
7							---	4.2	46	20	2.8	2.0
8							---	3.7	55	18	2.7	2.0
9							---	5.0	54	16	2.6	2.2
10							---	4.0	72	15	2.6	2.6
11							---	3.5	45	14	2.4	2.1
12							---	3.0	1.6	13	2.3	2.0
13							---	2.8	8.8	12	2.3	1.7
14							---	2.6	8.3	10	2.4	1.7
15							1.0	2.4	8.0	9.2	2.3	1.7
16							1.0	2.4	7.7	8.3	2.2	1.7
17							1.2	2.6	7.5	7.8	2.2	1.4
18							1.4	3.2	7.3	7.3	2.1	1.3
19							1.5	5.7	7.2	6.6	2.0	1.3
20							1.9	9.6	6.9	6.2	2.0	1.3
21							2.1	15	6.5	5.7	2.0	1.3
22							1.9	22	5.9	5.5	1.9	1.3
23							2.0	24	5.7	5.3	2.0	1.3
24							1.6	18	5.7	5.3	2.2	1.3
25							1.7	12	5.7	4.8	2.0	1.3
26							1.8	9.9	5.5	4.4	2.0	1.3
27							1.9	11	5.3	4.2	2.0	1.3
28							2.6	14	5.1	4.0	2.0	1.3
29							3.7	15	38	3.8	2.0	1.3
30							2.3	14	44	3.8	2.0	1.2
31							---	15	---	3.7	2.0	---
TOTAL							---	241.2	639.7	414.9	74.3	49.9
MEAN							---	7.78	21.3	13.4	2.40	1.66
MAX							---	24	72	47	3.5	2.6
MIN							---	1.8	1.6	3.7	1.9	1.2
AC-FT							---	478	1270	823	147	99

09323900 JOES VALLEY RESERVOIR NEAR ORANGEVILLE, UTAH

LOCATION.--Lat 39°17'20", long 111°16'10", in NW1/4NE1/4 sec.5, T.18 S., R.6 E., Emery County, Hydrologic Unit 14060009, on Seeley Creek 5.2 mi (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 National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service).

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 Water and Power Resources Service.

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, 65,070 acre-ft (80.2 hm^3) June 12, 13, elevation, 6,991.9 ft (2,131.13 m); minimum observed, 38,970 acre-ft (48.1 hm^3). Oct. 31-Nov. 2, elevation, 6,966.5 ft (2,123.39 m).

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

6,965	37,710	6,985	57,090
6,970	42,010	6,990	62,810
6,975	46,660	6,992	65,190
6,980	51,700		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 1200

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	39050	---	---	---	---	---	45510	---	---	58550	---
2	---	38970	---	---	---	---	---	45610	---	---	---	52320
3	---	---	39990	---	---	---	43640	---	58330	63990	---	52110
4	---	---	---	40770	---	---	---	---	---	---	57770	52010
5	---	39050	---	---	---	42910	---	46180	59920	---	57430	51700
6	---	---	40080	---	---	---	---	---	60840	---	---	---
7	---	39140	40160	40860	---	---	43820	---	---	63640	---	---
8	---	---	---	---	41830	---	---	---	---	63520	56980	51280
9	---	39220	---	---	---	---	---	47740	63640	---	---	51070
10	---	---	40160	---	---	---	---	---	64230	---	---	---
11	---	---	---	---	41920	---	43820	---	64710	63400	56320	50970
12	---	---	40160	---	---	---	---	48830	65070	---	56210	50970
13	---	39220	---	41300	---	43090	---	---	65070	---	---	---
14	---	---	40160	---	---	---	43730	49130	---	63280	---	---
15	---	---	---	41300	---	---	43730	---	---	63170	55660	50660
16	41830	39560	---	---	---	---	---	49540	64830	63050	---	50660
17	---	---	40340	41300	---	---	---	---	---	62930	---	50560
18	---	---	---	---	42280	---	43820	---	64830	62700	55000	---
19	41390	39730	40340	---	---	43270	---	---	64950	62460	54890	50560
20	---	39730	---	---	42460	---	---	50450	64950	---	54570	---
21	---	---	40420	41390	---	---	44100	---	---	61880	---	---
22	40770	---	---	41390	---	---	---	---	---	61650	54140	50560
23	40600	39730	---	---	---	---	---	52320	64830	61300	---	50560
24	---	---	40510	---	---	---	---	---	---	---	---	---
25	---	---	---	41480	42460	---	44660	---	---	60720	53380	50450
26	40080	39910	---	41480	42550	---	---	---	---	---	---	50450
27	---	---	---	---	---	43460	---	54780	64470	---	53060	---
28	---	---	40600	41560	---	43460	45510	55220	---	59690	---	---
29	39480	39910	---	---	42640	---	---	55660	---	59350	52850	50350
30	---	39910	---	---	---	---	a45510	55990	64110	---	---	50250
31	38970	---	40690	41650	---	43550	---	a56580	---	a58820	a52580	---
(†)	6966.5	6967.6	6968.5	6969.6	6970.7	6971.7	---	---	6991.1	---	---	6978.6
(‡)	-5790	+940	+780	+960	+990	+910	+1960	+11070	+7530	-5290	-6240	-2330

CAL YR 1979 . . . . . (‡) -2220
WTR YR 1980 . . . . . (‡) +5490

(†) Elevation, in feet, at end of month
(‡) Change in contents, 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 SE1/4NE1/4 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-Castledale 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 current year (seasonal records).

GAGE.--Water-stage recorder. Altitude of gage is 6,940 ft (2,120 m) from topographic map.

REMARKS.--Records good except those above 6.0 ft^3/s (0.170 m^3/s) and winter period, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 22 ft^3/s (0.623 m^3/s) June 5, 1980; minimum recorded, 0.09 ft^3/s (0.003 m^3/s) Oct. 5, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 22 ft^3/s (0.623 m^3/s); minimum recorded, 0.09 ft^3/s (0.003 m^3/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	.38	.27				---	1.3	13	5.8	2.1	1.9
2	.40	.37	.27				---	1.3	14	5.9	2.1	1.8
3	.33	.36	.26				---	1.3	18	5.5	2.1	1.8
4	.40	.35	---				---	1.9	18	5.2	1.9	1.7
5	.33	.34	---				---	2.2	22	5.0	1.9	1.8
6	.42	.33	---				---	2.5	16	4.8	1.8	1.6
7	.42	.33	---				---	2.5	12	4.7	1.8	1.9
8	.40	.33	---				---	2.2	18	4.7	1.8	2.1
9	.42	.31	---				---	2.3	15	4.5	1.9	2.4
10	.42	.30	---				---	2.1	11	4.0	1.8	3.4
11	.35	.30	---				---	2.1	8.0	3.9	1.8	2.0
12	.40	.29	---				---	2.2	8.3	3.9	1.8	2.0
13	.45	.28	---				---	2.2	11	3.7	1.8	1.8
14	.45	.28	---				---	2.2	12	3.5	2.1	1.6
15	.49	.28	---				---	2.2	11	3.3	2.3	1.6
16	.49	.28	---				---	2.3	9.7	3.3	2.0	1.6
17	.47	.27	---				---	2.5	9.4	3.1	1.9	1.6
18	.49	.27	---				---	2.6	9.2	3.0	1.9	1.6
19	.49	.27	---				---	2.5	8.7	3.0	2.1	1.5
20	.50	.28	---				---	2.6	8.1	2.8	2.2	1.5
21	.49	.27	---				---	3.1	7.8	2.7	2.1	1.4
22	.45	.27	---				---	5.5	7.6	2.6	2.0	1.4
23	.45	.27	---				---	9.0	7.4	2.6	2.2	1.4
24	.43	.27	---				---	10	7.0	2.8	2.3	1.4
25	.45	.27	---				---	10	6.9	2.5	2.1	1.3
26	.45	.27	---				---	10	6.4	2.4	2.0	1.4
27	.42	.27	---				---	10	6.3	2.4	1.9	1.4
28	.42	.27	---				---	10	6.3	2.3	1.8	1.3
29	.42	.27	---				---	10	6.0	2.2	1.8	1.3
30	.39	.27	---				1.4	11	5.8	2.2	1.8	1.3
31	.43	---	---				---	12	---	2.2	1.9	---
TOTAL	13.32	8.90	---				---	143.6	319.9	110.5	61.0	50.8
MEAN	.43	.30	---				---	4.63	10.7	3.56	1.97	1.69
MAX	.50	.38	---				---	12	22	5.9	2.3	3.4
MIN	.33	.27	---				---	1.3	5.8	2.2	1.8	1.3
AC-FT	26	18	---				---	285	635	219	121	101

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 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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										
15...	1330	.50	580	8.5	18.0	11.0	9.1	--	--	--
NOV										
10...	1315	.33	600	8.4	4.0	2.0	11.6	.73	260	410
MAY										
25...	1030	11	580	8.3	10.0	1.0	11.1	1.1	K14	K36
JUN										
28...	1630	6.0	570	8.8	26.5	18.0	7.6	--	--	--
JUL										
14...	1715	3.3	600	8.8	24.0	16.0	7.7	--	--	--
AUG										
19...	0730	2.3	630	8.6	13.0	8.0	9.2	.52	93	86
SEP										
22...	1000	1.4	650	8.4	7.0	4.0	10.4	--	--	--

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)
OCT										
15...	320	62	51	47	15	9	.4	17	2.4	290
NOV										
10...	310	0	58	41	15	18	.4	18	3.0	520
MAY										
25...	300	5	67	31	15	10	.4	--	2.1	360
JUN										
28...	270	5	49	37	18	12	.5	--	1.6	290
JUL										
14...	290	34	46	42	21	14	.5	--	1.8	280
AUG										
19...	310	31	54	43	21	13	.5	--	1.7	320
SEP										
22...	310	55	53	42	19	12	.5	--	1.5	330

DATE	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (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										
15...	12	260	1.6	55	9.6	--	7.2	342	.47	.46
NOV										
10...	6	440	3.4	59	10	.1	6.8	457	.62	.41
MAY										
25...	0	300	2.9	50	10	.2	6.4	361	.49	10.7
JUN										
28...	16	270	.8	52	12	--	6.5	335	.46	5.43
JUL										
14...	16	260	.8	80	19	--	6.9	371	.50	3.35
AUG										
19...	10	280	1.4	61	12	.2	6.9	369	.50	2.29
SEP										
22...	8	280	1.9	64	13	--	6.5	349	.47	1.32

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

09324200 COTTONWOOD CREEK ABOVE STRAIGHT CANYON, NEAR ORANGEVILLE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	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, NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT										
15...	--	--	--	--	--	--	--	--	--	--
NOV										
10...	.29	1.3	.010	.03	.30	.000	.00	.43	3.5	3.1
MAY										
25...	.34	<1.5	.000	.00	.34	.030	.04	.68	1.8	1.1
JUN										
28...	--	--	--	--	--	--	--	--	--	--
JUL										
14...	--	--	--	--	--	--	--	--	--	--
AUG										
19...	.27	<1.2	.000	.00	.27	.060	.08	.19	.54	.29
SEP										
22...	--	--	--	--	--	--	--	--	--	--

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)
NOV					
10...	.43	.660	2.0	.010	.03
MAY					
25...	.71	.480	1.5	.040	.12
AUG					
19...	.25	.010	.03	.000	.00

DATE	TIME	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
NOV										
10...	1315	2	40	20	1	40	10	1	350	4
MAY										
25...	1030	0	30	30	1	10	10	1	300	10
AUG										
19...	0730	1	70	<10	1	20	2	1	390	<3

09324200 COTTONWOOD CREEK ABOVE STRAIGHT CANYON, NEAR ORANGEVILLE, UT--Continued

BENTHIC INVERTEBRATE ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date:	Nov. 10, 1979	Aug. 19, 1980
Time:	1315	0730
Total Count	423	404
Diversity Phylum		
.Class		
..Order	1.5	0.0
...Family	0.0	1.5
Organism		
Annelida		
.Oligochaeta		
..Plesiopora		
...Enchytraeidae	-	1
...Lumbricidae	-	1
Arthropoda		
.Arachnoidea		
..Hydracarina		
...Hygrobatidae	-	1
.Insecta		
..Coleoptera		
...Dytiscidae	1	-
...Elmidae	-	2
..Diptera		
...Ceratopogonidae	1	-
...Chironomidae	15	5
...Empididae	2	-
...Simuliidae	56	9
...Tipulidae	6	5
..Ephemeroptera	302	-
...Baetidae	-	302
...Heptageniidae	-	23
..Plecoptera	11	-
...Capniidae	-	13
...Perlodidae	-	5
..Trichoptera	29	-
...Hydropsychidae	-	36
...Rhyacophilidae	-	1

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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
NOV 10...	1315	.33	2.0	1270	1.1	--	--
MAY 25...	1030	11	1.0	1080	32	29	38
JUN 13...	1630	12	15.0	408	13	27	30
AUG 19...	0730	2.3	8.0	34	.21	--	--

DATE	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	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM
NOV 10...	--	--	--	--	--	--
MAY 25...	53	76	84	93	98	100
JUN 13...	39	58	69	83	98	100
AUG 19...	--	--	--	--	--	--

09324200 COTTONWOOD CREEK ABOVE STRAIGHT CANYON, NEAR ORANGEVILLE, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
NOV 10...	1315	.33	2.0	4	10	24	36

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
NOV 10...	43	49	60	76	96	100

09324500 COTTONWOOD CREEK NEAR ORANGEVILLE, UTAH

LOCATION.--Lat 39°16'00", long 111°07'45", in NE1/4SW1/4SW1/4 sec.10, T.18 S., R.7 E., Emery County, Hydrologic Unit 14060009, on left bank 2 mi (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 poor. Flow regulated by Joes Valley Reservoir, 09323900, (see preceding page) 8 mi (12 km) upstream, constructed by Bureau of Reclamation in fall in 1965. Small diversions for irrigation above station. Ephraim and Spring City tunnels (see stations 09319000, 09323000) constructed by Bureau of Reclamation of 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.--60 years (1909-20, 1921-27, 1932-70, 1975-80), 95.4 ft^3/s (2.70 m^3/s), 69,100 acre-ft/yr (85.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,220 ft^3/s (204 m^3/s) Aug. 1, 1964, gage height, 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, 1,260 ft^3/s (35.7 m^3/s) June 12, gage height, 5.34 ft (1.628 m); minimum, 6.0 ft^3/s (0.170 m^3/s) Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	111	12	6.9	8.0	9.3	11	19	100	162	412	175	121
2	111	13	7.3	8.0	9.5	8.0	22	120	162	404	175	125
3	113	14	7.3	8.5	9.5	6.8	19	130	178	383	175	132
4	111	12	8.0	8.5	9.5	6.8	9.6	150	199	360	175	137
5	115	11	8.5	8.0	9.8	7.1	9.8	160	209	310	175	141
6	113	11	8.9	8.0	9.0	7.0	10	220	225	275	174	141
7	113	11	9.5	9.0	9.3	7.6	14	200	229	250	170	142
8	113	10	9.0	10	7.6	8.0	27	210	283	235	164	143
9	115	9.6	9.0	11	7.8	8.8	30	190	470	210	159	142
10	118	9.5	9.0	11	7.8	8.6	32	150	556	200	158	138
11	120	10	8.5	11	7.8	8.6	32	140	605	190	156	123
12	120	11	8.0	10	7.9	10	32	130	820	180	154	109
13	120	12	7.2	11	8.0	16	32	130	773	175	153	110
14	120	12	8.8	12	9.0	18	32	120	765	160	150	109
15	117	13	8.8	13	9.0	11	33	130	778	165	145	109
16	115	14	9.3	13	9.5	11	34	120	786	164	145	95
17	113	14	9.7	11	11	15	36	130	778	164	145	85
18	112	11	10	11	11	22	40	130	760	164	145	75
19	111	11	9.5	11	17	20	43	140	736	164	145	65
20	114	9.0	9.0	10	16	9.5	50	160	743	164	147	60
21	114	8.0	9.0	10	14	8.6	52	200	745	164	150	55
22	108	8.5	8.0	10	13	8.6	49	220	808	164	151	50
23	104	8.5	8.5	9.5	13	8.6	53	160	787	156	152	45
24	101	8.3	8.5	9.0	17	8.6	53	150	769	160	152	42
25	98	8.5	8.0	9.2	19	10	57	140	747	160	153	47
26	96	8.9	8.3	9.8	16	14	58	140	666	160	145	57
27	90	8.1	8.5	9.8	11	17	63	140	442	160	129	57
28	60	7.6	9.0	11	10	14	94	150	408	162	123	57
29	40	7.0	9.0	9.0	8.8	11	138	160	382	174	122	56
30	20	6.5	8.5	9.3	---	11	144	162	392	175	122	78
31	11	---	8.5	9.0	---	14	---	162	---	175	121	---
TOTAL	3137	310.0	266.0	308.6	317.1	346.2	1317.4	4744	16363	6539	4705	2846
MEAN	101	10.3	8.58	9.95	10.9	11.2	43.9	153	545	211	152	94.9
MAX	120	14	10	13	19	22	144	220	820	412	175	143
MIN	11	6.5	6.9	8.0	7.6	6.8	9.6	100	162	156	121	42
AC-FT	6220	615	528	612	629	687	2610	9410	32460	12970	9330	5650

CAL YR 1979 TOTAL 34871.5 MEAN 95.5 MAX 550 MIN 3.0 AC-FT 69170
WTR YR 1980 TOTAL 41199.3 MEAN 113 MAX 820 MIN 6.5 AC-FT 81720

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 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
OCT												
18...	1200	110	390	8.3	13.5	10.0	190	10	43	20	8.2	9
NOV												
20...	1130	9.0	460	7.9	-1.0	.0	240	35	48	28	16	22
DEC												
13...	1200	7.1	520	7.4	-1.0	.0	270	37	54	32	18	22
JAN												
15...	1630	13	400	8.3	3.5	.0	220	15	45	25	14	12
FEB												
13...	1030	8.0	520	8.3	-2.0	.0	260	43	54	31	21	15
MAR												
11...	1130	8.6	630	8.1	3.5	2.0	290	66	52	38	40	23
APR												
17...	1100	35	445	8.5	14.5	4.5	230	28	45	28	23	18
MAY												
29...	1100	158	415	8.6	12.5	7.0	220	0	47	26	17	14
JUN												
19...	1730	760	360	8.5	24.0	13.0	190	17	42	20	8.6	9
JUL												
15...	1200	165	345	8.5	25.5	17.5	190	22	44	20	9.8	10
AUG												
14...	1100	144	375	8.4	24.5	10.5	200	5	42	22	11	11
SEP												
23...	1630	45	395	8.3	26.5	14.0	210	7	45	23	13	12

DATE	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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...	.3	9.1	.9	180	25	4.1	.1	4.3	215	.29	63.9
NOV											
20...	.5	17	1.2	200	51	7.1	.2	3.9	276	.38	6.73
DEC											
13...	.5	19	1.3	230	56	8.1	.2	4.5	313	.43	6.03
JAN											
15...	.4	15	.9	200	48	7.1	.2	4.0	265	.36	9.30
FEB											
13...	.6	22	1.4	220	64	14	.1	4.7	323	.44	6.93
MAR											
11...	1.0	42	1.7	220	130	14	.2	4.6	413	.56	9.57
APR											
17...	.7	--	1.2	200	55	7.1	.1	4.6	285	.39	26.6
MAY											
29...	.5	--	1.0	230	30	6.8	.2	4.5	271	.37	116
JUN											
19...	.3	--	.6	170	18	3.9	.2	3.8	200	.27	410
JUL											
15...	.3	--	.8	170	21	4.0	.2	3.6	206	.28	91.8
AUG											
14...	.3	--	.9	190	24	5.2	.1	4.0	224	.30	87.1
SEP											
23...	.4	--	.9	200	35	6.2	.1	4.5	249	.34	30.3

09324500 COTTONWOOD CREEK NEAR ORANGEVILLE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)
OCT		
18...	.22	.010
NOV		
20...	.15	.000
DEC		
13...	.14	.010
JAN		
15...	.11	.010
FEB		
13...	.16	.000
MAR		
11...	.13	.000
APR		
17...	.13	.080
MAY		
29...	.08	.010
JUN		
19...	.17	.010
JUL		
15...	.07	.010
AUG		
14...	.11	.000
SEP		
23...	.15	.010

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE, WATER (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT					
18...	1200	110	10.0	40	12
NOV					
20...	1130	9.0	.0	61	1.5
APR					
17...	1100	35	4.5	122	11
MAY					
29...	1100	158	7.0	352	150

09326500 FERRON CREEK (UPPER STATION) NEAR FERRON, UTAH

LOCATION.--Lat 39°06'15", long 111°12'47", in SW1/4SE1/4 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.--45 years, 66.6 ft^3/s (1.89 m^3/s), 48,250 acre-ft/yr (59.5 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.--Peak discharge above base of 600 ft^3/s (17.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage Height (ft)	Gage Height (m)
May 22	1930	624	17.7	4.51	1.466
June 18	2130	*858	24.3	5.44	1.658

Minimum discharge, 4.4 ft^3/s (0.125 m^3/s) Nov. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	14	10	9.0	13	14	14	121	381	383	70	26
2	14	17	12	9.0	11	13	12	131	390	377	70	26
3	14	17	12	10	9.8	13	12	188	425	339	60	27
4	14	15	13	9.5	9.6	12	12	236	486	308	56	24
5	14	15	14	9.5	9.3	12	16	291	542	281	53	23
6	14	14	15	9.5	9.9	12	17	365	563	259	51	23
7	14	14	15	11	9.3	13	14	337	554	245	49	28
8	14	14	14	13	8.3	13	14	321	563	235	48	46
9	14	13	14	15	11	14	18	284	610	219	45	72
10	14	12	14	14	12	13	21	227	676	210	43	85
11	13	13	13	14	10	13	16	185	693	197	41	46
12	13	15	10	13	8.8	12	14	168	698	184	38	38
13	13	16	9.6	15	8.9	16	17	146	675	174	38	32
14	13	14	11	17	8.9	15	25	149	665	162	43	27
15	13	13	11	18	8.2	16	32	170	641	150	42	26
16	13	12	11	14	8.3	13	37	209	633	142	39	24
17	13	14	12	12	9.1	16	44	208	628	135	37	23
18	14	18	12	11	16	18	59	205	613	126	36	23
19	15	15	12	10	51	14	79	262	622	120	34	23
20	19	16	11	10	17	15	101	340	590	114	34	23
21	16	9.4	11	13	12	15	87	410	560	108	32	23
22	14	13	10	12	11	13	107	471	542	104	31	22
23	16	13	11	11	12	12	94	400	516	101	32	22
24	16	14	10	11	16	12	85	370	488	99	41	22
25	15	15	9.5	10	36	13	106	340	463	93	41	22
26	14	16	9.9	12	17	13	122	290	443	89	34	22
27	14	13	10	11	18	12	146	290	422	84	32	22
28	12	13	11	11	15	12	195	310	396	81	29	22
29	15	12	10	10	13	12	186	320	387	79	27	20
30	12	10	9.0	9.1	---	12	130	337	378	78	26	20
31	11	---	9.0	11	---	12	---	339	---	74	26	---
TOTAL	435	419.4	356.0	364.6	399.4	415	1832	8420	16243	5350	1278	882
MEAN	14.0	14.0	11.5	11.8	13.8	13.4	61.1	272	541	173	41.2	29.4
MAX	19	18	15	18	51	18	195	471	698	383	70	85
MIN	11	9.4	9.0	9.0	8.2	12	12	121	378	74	26	20
AC-FT	863	832	706	723	792	823	3630	16700	32220	10610	2530	1750

CAL YR 1979 TOTAL 28556.4 MEAN 78.2 MAX 677 MIN 4.0 AC-FT 56640
WTR YR 1980 TOTAL 36394.4 MEAN 99.4 MAX 698 MIN 8.2 AC-FT 72190

09327550 FERRON CREEK BELOW PARADISE RANCH, NEAR CLAWSON, UTAH

LOCATION.--Lat 39°07'09", long 110°59'20", in SW1/4SE1/4 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.--5 years, 45.4 ft^3/s (1.286 m^3/s), 32,890 acre-ft/yr (40.6 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.--Maximum discharge, 1,980 ft^3/s (56.1 m^3/s) June 20, gage height, 5.59 ft (1.704 m); minimum daily, 5.0 ft^3/s (0.142 m^3/s) several days during Nov., Dec., Jan., and March.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	11	7.0	6.0	7.0	20	8.0	18	233	376	24	21
2	10	11	8.0	5.0	10	19	10	17	288	374	22	20
3	8.0	10	9.0	5.0	9.0	18	6.8	16	350	356	20	20
4	6.0	9.0	10	5.0	8.0	16	6.8	14	449	258	21	20
5	7.0	8.0	11	6.0	9.0	14	7.0	15	646	230	18	20
6	7.0	9.2	11	5.0	9.0	12	7.1	18	900	206	17	19
7	8.0	8.8	12	6.0	10	21	7.0	61	904	189	15	27
8	9.0	9.3	12	7.0	9.0	33	6.9	30	963	161	17	48
9	9.0	9.0	11	7.0	8.0	40	7.3	26	1130	142	18	46
10	10	8.0	11	6.0	12	26	6.6	25	1430	121	19	183
11	10	7.0	10	5.0	15	22	6.6	23	1610	108	17	47
12	9.0	6.0	8.0	6.0	20	20	5.9	33	1700	98	18	34
13	9.0	5.0	7.0	8.0	15	16	5.9	33	1630	82	17	31
14	10	6.0	7.0	9.0	12	10	6.6	35	1540	67	16	30
15	11	7.0	7.0	14	13	9.0	6.9	42	1380	58	23	29
16	12	9.0	7.0	13	17	8.0	6.9	38	1360	51	18	28
17	11	10	7.0	10	34	7.0	7.2	35	1400	52	17	26
18	10	13	8.0	9.0	39	6.0	8.0	37	1460	53	20	25
19	9.7	8.8	9.0	9.0	72	7.0	7.7	37	1390	54	18	24
20	9.5	9.2	10	8.0	59	6.0	7.8	35	1540	49	16	24
21	8.6	8.0	11	7.0	45	7.0	8.1	32	1310	45	17	24
22	9.0	7.0	12	8.0	32	8.0	10	49	1120	39	16	23
23	9.8	7.0	11	7.0	26	9.0	12	88	963	37	18	23
24	10	8.0	10	8.0	21	10	12	150	779	33	25	21
25	8.9	12	9.0	9.0	20	8.0	13	170	654	26	20	21
26	9.7	15	8.0	10	21	6.0	13	170	565	27	21	19
27	9.6	13	7.0	11	22	5.0	13	150	481	29	20	19
28	9.0	9.0	7.0	9.0	21	6.0	13	150	407	25	20	18
29	8.8	7.0	6.0	8.0	20	6.0	16	175	379	24	19	19
30	8.4	7.0	6.0	7.0	---	5.0	16	211	369	27	20	18
31	10	---	5.0	7.0	---	6.0	---	196	---	25	21	---
TOTAL	287.0	267.3	274.0	240.0	615.0	406.0	269.1	2129	29330	3422	588	927
MEAN	9.26	8.91	8.84	7.74	21.2	13.1	8.97	68.7	978	110	19.0	30.9
MAX	12	15	12	14	72	40	16	211	1700	376	25	183
MIN	6.0	5.0	5.0	5.0	7.0	5.0	5.9	14	233	24	15	18
AC-FT	569	530	543	476	1220	805	534	4220	58180	6790	1170	1840

CAL YR 1979 TOTAL 15176.9 MEAN 41.6 MAX 722 MIN 4.3 AC-FT 30100
WTR YR 1980 TOTAL 38754.4 MEAN 106 MAX 1700 MIN 5.0 AC-FT 76870

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 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
OCT												
18...	1430	9.8	3200	8.3	21.0	13.0	1300	1000	230	180	360	37
NOV												
20...	1400	10.0	3770	8.2	1.5	.0	1400	1100	250	190	450	41
DEC												
13...	1530	8.5	3370	7.1	5.0	.0	1500	1100	280	190	320	32
JAN												
16...	1040	13	3620	8.1	1.0	.0	1200	790	170	180	390	42
APR												
03...	1200	6.6	3750	8.2	--	4.5	1400	1100	230	200	450	41
17...	1400	7.4	3310	8.4	23.5	14.0	1300	1000	210	180	340	37
MAY												
29...	1430	173	870	8.2	22.0	13.0	320	110	64	40	63	29
JUN												
19...	1030	1390	600	8.4	27.0	13.5	270	77	56	31	35	22
JUL												
15...	1500	61	1570	8.4	--	19.5	590	310	110	77	140	34
AUG												
14...	1330	17	2520	8.2	--	22.5	920	640	170	120	260	38
SEP												
23...	1215	25	2220	8.2	--	12.5	970	700	190	120	200	31

DATE	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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...	4.3	370	9.1	290	1600	44	.4	8.0	2610	3.55	69.1
NOV											
20...	5.2	460	10	330	2000	52	.4	9.5	3170	4.31	85.4
DEC											
13...	3.6	330	7.8	370	1600	48	.4	12	2690	3.66	61.6
JAN											
16...	5.0	400	12	380	1500	56	.5	11	2550	3.47	90.9
APR											
03...	5.2	--	7.3	310	1900	25	.4	6.4	3010	4.09	53.6
17...	4.2	--	7.0	270	1600	45	.2	4.3	2550	3.47	51.2
MAY											
29...	1.5	--	2.8	210	220	12	.3	6.4	536	.73	250
JUN											
19...	.9	--	1.6	190	140	7.1	.4	5.1	391	.53	1470
JUL											
15...	2.5	--	4.5	280	570	18	.4	6.6	1100	1.50	181
AUG											
14...	3.7	--	6.6	280	1100	24	.4	4.4	1850	2.52	84.9
SEP											
23...	2.8	--	6.2	270	1000	39	.5	5.0	1720	2.34	116

09327550 FERRON CREEK BELOW PARADISE RANCH, NEAR CLAWSON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)
OCT		
18...	.80	.050
NOV		
20...	1.4	.010
DEC		
13...	1.2	.010
JAN		
16...	1.2	.020
APR		
03...	.32	.010
17...	.08	.010
MAY		
29...	.17	.020
JUN		
19...	.18	.020
JUL		
15...	.03	.020
AUG		
14...	.00	.010
SEP		
23...	.36	.010

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE, WATER (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												
18...	1430	9.8	13.0	28	.74	--	--	--	--	--	--	--
NOV												
20...	1400	10.0	.0	148	4.0	--	--	--	--	--	--	--
APR												
03...	1200	6.6	4.5	32	.57	--	--	--	--	--	--	--
17...	1400	7.4	14.0	19	.38	--	--	--	--	--	--	--
MAY												
29...	1430	173	13.0	704	329	21	30	43	75	93	99	100
AUG												
14...	1330	17	22.5	2520	116	--	--	--	--	--	--	--

09328000 SAN RAFAEL RIVER NEAR CASTLE DALE, UTAH

LOCATION.--Lat 39°08'37", long 111°53'50", in SE1/4NW1/4 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.--25 years (1947-64, 1972-80) 106 ft^3/s (3.00 m^3/s), 76,800 acre-ft/yr (94.7 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.--Peak discharge above base of 1,000 ft^3/s (28.3 m^3/s), and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage Height (ft)	Gage Height (m)
June 12	1600	*2,090	59.2	7.32	2.231
Sept 10	1600	1,650	46.7	6.70	2.042

Minimum daily discharge,23 ft^3/s (0.651 m^3/s) Dec. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	62	34	26	28	91	32	129	298	735	100	49
2	34	55	37	24	37	84	37	144	330	700	95	49
3	34	50	39	24	33	80	32	116	403	676	95	44
4	40	46	41	25	30	82	33	115	664	572	85	43
5	40	46	41	24	30	75	32	128	778	471	80	42
6	39	44	40	26	33	68	32	202	911	413	75	49
7	41	43	39	27	31	145	29	325	784	368	65	85
8	41	45	40	27	29	188	28	280	901	323	50	210
9	39	47	38	24	40	145	40	210	1220	290	45	228
10	39	44	35	27	50	111	50	206	1510	221	45	883
11	40	41	32	25	60	96	47	187	1630	196	50	364
12	42	37	30	26	80	89	47	191	1900	164	45	166
13	40	30	30	27	60	60	47	186	1880	147	40	241
14	41	34	31	29	46	58	46	175	1750	143	42	127
15	44	37	34	30	47	58	48	194	1570	124	93	113
16	47	37	35	32	70	51	56	181	1600	108	56	106
17	50	36	35	40	151	41	55	164	1540	108	51	100
18	50	34	37	60	265	43	53	156	1520	106	52	90
19	50	34	35	40	480	46	54	148	1510	104	47	82
20	50	33	36	33	368	43	57	137	1550	101	45	74
21	54	32	33	31	226	43	82	169	1470	110	45	70
22	56	30	34	33	141	44	80	253	1390	100	42	70
23	58	31	31	34	133	47	120	344	1290	95	44	72
24	58	33	29	32	103	43	117	313	1240	90	82	71
25	55	47	29	34	87	43	95	346	1170	88	66	63
26	56	46	27	37	87	36	77	344	1090	86	71	63
27	57	40	30	41	96	39	62	263	992	90	69	64
28	57	31	28	35	103	39	54	269	886	90	56	62
29	59	28	26	31	96	37	87	279	809	92	46	62
30	59	30	23	27	---	37	144	307	774	110	45	59
31	60	---	25	27	---	32	---	292	---	105	47	---
TOTAL	1466	1183	1034	958	3040	2094	1773	6753	35360	7126	1869	3801
MEAN	47.3	39.4	33.4	30.9	105	67.5	59.1	218	1179	230	60.3	127
MAX	60	62	41	60	480	188	144	346	1900	735	100	883
MIN	34	28	23	24	28	32	28	115	298	86	40	42
AC-FT	2910	2350	2050	1900	6030	4150	3520	13390	70140	14130	3710	7540

CAL YR 1979 TOTAL 35133 MEAN 96.3 MAX 806 MIN 20 AC-FT 69690
WTR YR 1980 TOTAL 66457 MEAN 182 MAX 1900 MIN 23 AC-FT 131800

09328100 SAN RAFAEL RIVER AT SAN RAFAEL BRIDGE CAMPGROUND, NEAR CASTLE DALE, UTAH

LOCATION.--Lat 39°04'51", long 110°39'56", in NE1/4SE1/4 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 for winter period, and period of no gage-height record Oct. 18 to Nov. 19 and Sept. 8-22, which are poor.

AVERAGE DISCHARGE.--5 years, 81.8 ft^3/s (2.32 m^3/s), 59,260 acre-ft/yr (73.1 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 the 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)
Feb. 19	0030	1,320	37.4	6.73	2.051
May 7	2030	1,810	28.6	6.14	1.871
June 12	-	2,540	71.9	6.32	2.536
Aug. 24	2000	547	15.5	5.16	1.573
Sept. 10	1600	*4,630	131.0	11.08	3.377

Minimum discharge,18 ft^3/s (0.510 m^3/s) Nov. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	68	38	33	42	94	36	134	320	735	99	54
2	29	60	42	30	62	85	38	161	340	703	95	60
3	30	54	44	30	54	80	36	127	440	679	92	55
4	29	50	45	31	52	83	35	122	740	597	83	49
5	36	50	46	30	52	77	35	134	820	506	78	48
6	32	48	44	32	62	68	35	233	940	440	70	53
7	35	46	43	34	54	116	33	376	900	395	61	77
8	37	49	44	34	47	258	32	376	1100	349	51	310
9	37	52	43	30	60	221	35	225	1400	324	46	669
10	34	49	40	35	70	150	44	210	1600	251	45	2080
11	34	45	35	31	82	120	43	195	1800	230	48	400
12	35	42	34	33	98	105	44	189	1950	194	45	180
13	38	42	34	34	56	68	44	190	1950	175	47	250
14	40	44	39	36	47	62	45	178	1850	169	39	140
15	44	45	41	37	48	62	45	194	1700	155	142	120
16	46	45	43	42	76	54	53	198	1640	137	70	110
17	55	44	43	50	157	43	50	176	1600	128	52	100
18	54	43	44	71	299	45	48	169	1600	127	49	92
19	53	41	42	52	717	47	50	164	1550	124	47	84
20	54	44	43	42	613	44	45	149	1570	115	43	76
21	58	37	39	40	301	44	69	157	1530	125	43	74
22	60	33	41	43	188	45	76	233	1440	120	42	73
23	61	36	35	44	150	47	97	309	1340	105	48	73
24	61	37	33	43	118	43	122	314	1260	92	104	70
25	59	56	33	44	96	43	100	313	1190	88	96	68
26	60	55	31	46	91	42	83	346	1090	87	89	60
27	61	45	35	52	93	40	71	267	990	90	89	63
28	60	38	34	47	102	41	54	248	873	93	77	61
29	63	31	31	42	98	40	65	290	801	93	60	59
30	63	37	30	41	---	38	137	320	749	112	51	58
31	64	---	31	40	---	38	---	300	---	105	52	---
TOTAL	1456	1366	1200	1229	3985	2343	1700	6997	37073	7643	2053	5666
MEAN	47.0	45.5	38.7	39.6	137	75.6	56.7	226	1236	247	66.2	189
MAX	64	68	46	71	717	258	137	376	1950	735	142	2080
MIN	29	31	30	30	42	38	32	122	320	87	39	48
AC-FT	2890	2710	2380	2440	7900	4650	3370	13880	73530	15160	4070	11240

CAL YR 1979 TOTAL 34216 MEAN 93.7 MAX 660 MIN 24 AC-FT 67870
WTR YR 1980 TOTAL 72711 MEAN 199 MAX 2080 MIN 29 AC-FT 144200

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 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
OCT												
17...	1400	56	3320	8.2	21.0	13.5	1300	1000	220	170	410	41
NOV												
19...	1400	41	4000	8.0	1.5	1.0	1600	1300	280	210	480	40
DEC												
12...	1230	34	3950	8.4	.0	.0	1500	1100	290	190	440	39
FEB												
06...	1600	62	3690	8.0	6.0	1.5	1300	930	220	170	470	65
MAR												
10...	1245	152	4010	8.2	10.5	6.5	1200	990	200	180	600	51
APR												
16...	1300	49	3360	8.2	20.5	13.0	1200	940	200	160	400	43
MAY												
28...	1300	220	1580	8.5	20.5	14.5	570	350	110	72	160	38
JUN												
18...	1300	1520	660	8.2	30.5	15.5	290	89	63	32	44	25
JUL												
14...	1200	160	2190	8.4	27.0	20.0	790	530	150	100	230	39
AUG												
13...	1230	61	3120	8.3	34.0	24.0	1000	800	180	140	370	44
SEP												
22...	1015	76	3140	8.1	18.0	12.0	1200	930	230	150	370	40

DATE	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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...	5.0	420	10	240	1700	42	.3	5.0	2700	3.67	405
NOV											
19...	5.3	490	8.6	290	2100	48	.3	9.2	3310	4.50	369
DEC											
12...	4.9	450	9.0	370	2000	51	.3	10	3220	4.38	296
FEB											
06...	5.8	480	7.9	320	1900	57	.3	11	3030	4.12	509
MAR											
10...	7.4	610	9.9	250	2000	54	.6	7.9	3210	4.37	1320
APR											
16...	5.1	--	7.0	220	1600	43	.1	4.8	2550	3.47	337
MAY											
28...	2.9	--	4.4	220	610	18	.3	6.6	1110	1.51	659
JUN											
18...	1.1	--	2.1	200	180	6.0	.2	4.8	453	.62	1860
JUL											
14...	3.6	--	6.0	260	920	26	.4	5.0	1600	2.18	691
AUG											
13...	5.0	--	8.4	230	1500	37	.4	4.8	2380	3.24	392
SEP											
22...	4.7	--	8.9	260	1700	39	.5	7.4	2660	3.62	546

09328100 SAN RAFAEL RIVER AT SAN RAFAEL BRIDGE CAMPGROUND, NEAR CASTLE DALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)
OCT		
17...	.15	.000
NOV		
19...	.75	.000
DEC		
12...	1.0	.010
FEB		
06...	1.1	.030
MAR		
10...	.90	.020
APR		
16...	.11	.040
MAY		
28...	.22	.010
JUN		
18...	.18	.000
JUL		
14...	.28	.010
AUG		
13...	.00	.010
SEP		
22...	.36	.020

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE, WATER (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												
17...	1400	56	13.5	132	20	--	--	--	--	--	--	--
NOV												
19...	1400	41	1.0	133	15	--	--	--	--	--	--	--
APR												
16...	1300	49	13.0	39	5.1	--	--	--	--	--	--	--
MAY												
28...	1300	220	14.5	1240	737	26	29	41	65	86	99	100
JUN												
18...	1300	1520	15.5	2610	10700	20	21	29	51	70	94	100
JUL												
14...	1200	160	20.0	122	53	--	--	--	--	--	--	--

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UTAH

LOCATION.--Lat 38°51'30", long 110°22'10", in SE1/4SE1/4NW1/4 sec.34, T.22 S., R.14 E., Emery County, Hydrologic Unit 14060009, on left bank 300 ft (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 for winter period and period of no gage-height record June 16 to July 25 and Aug. 29 to Sept. 12, 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.--44 years (1909-18, 1945-80), 147 ft^3/s (4.16 m^3/s), 106,500 acre-ft/yr (131 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) by logarithmic plotting; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,300 ft^3/s (36.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage Height (ft)	Gage Height (m)
Feb. 19	2000	1,560	44.2	10.65	3.246
June 14	2030	2,110	59.8	11.82	3.603
Sept. 11	1100	*3,740	106.0	13.60	4.145

Minimum discharge, 14 ft^3/s (0.396 m^3/s) Dec. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	57	24	31	45	110	46	164	281	760	105	60
2	25	62	28	33	45	110	40	175	287	740	100	62
3	23	63	31	32	50	100	37	225	310	700	97	64
4	22	57	34	30	40	95	41	245	425	680	97	54
5	23	52	35	32	40	104	35	245	588	600	84	48
6	23	47	35	31	40	97	36	206	676	500	80	45
7	27	45	33	33	44	118	35	235	772	420	70	54
8	28	43	32	36	42	188	35	483	660	400	62	80
9	31	41	33	34	33	283	34	298	832	340	50	300
10	31	40	31	32	39	217	32	216	1140	300	45	660
11	28	41	29	35	44	153	41	207	1340	240	45	2500
12	28	37	28	34	64	118	49	190	1640	230	50	400
13	30	36	28	35	64	120	48	188	1890	195	45	221
14	32	33	28	37	74	97	48	179	2040	175	47	265
15	32	29	28	39	65	74	40	171	2030	168	80	159
16	34	30	29	40	48	62	38	193	1840	155	55	141
17	36	32	29	45	75	54	40	177	1700	135	85	142
18	46	35	30	50	220	52	48	163	1670	125	59	150
19	45	34	32	162	628	56	50	161	1600	125	46	126
20	46	46	30	136	848	60	47	157	1620	122	48	102
21	46	48	31	107	520	56	46	150	1650	115	61	82
22	45	41	29	82	277	54	63	173	1570	125	60	70
23	51	34	30	55	182	58	81	242	1440	120	59	62
24	56	26	27	61	173	60	110	320	1350	105	59	59
25	59	30	26	60	141	56	142	298	1260	96	148	56
26	58	34	25	57	114	55	112	342	1200	97	195	53
27	53	54	27	58	117	56	93	332	1180	97	132	43
28	55	43	26	63	114	49	78	265	1000	102	133	43
29	54	43	30	75	112	51	61	270	900	102	86	42
30	53	34	29	62	---	49	65	276	810	105	60	39
31	54	---	27	42	---	47	---	295	---	121	56	---
TOTAL	1200	1247	914	1659	4298	2859	1671	7241	35701	8295	2399	6182
MEAN	38.7	41.6	29.5	53.5	148	92.2	55.7	234	1190	268	77.4	206
MAX	59	63	35	162	848	283	142	483	2040	760	195	2500
MIN	22	26	24	30	33	47	32	150	281	96	45	39
AC-FT	2380	2470	1810	3290	8530	5670	3310	14360	70810	16450	4760	12260

CAL YR 1979 TOTAL 33983 MEAN 93.1 MAX 1060 MIN 12 AC-FT 67410
WTR YR 1980 TOTAL 73666 MEAN 201 MAX 2500 MIN 22 AC-FT 146100

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.

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.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily (water years 1949, 1951-70, 1974-76), 7,230 micromhos July 15, 1954, and June 29, 1977; minimum daily (water years 1949, 1951-76), 689 micromhos June 29, 1957.

WATER TEMPERATURES: Maximum (water years 1949, 1951-61, 1966-76), 35.0°C July 11, 1954; minimum, 0.0°C on many days during winter period each year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN, DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)
NOV										
15...	1600	29	3910	8.5	8.5	4.0	50	12.2	1.2	1600
DEC										
18...	1630	25	4100	7.9	3.5	.0	29	--	--	1400
JAN										
21...	1630	107	3080	8.4	5.0	1.5	2.8	12.2	--	1000
FEB										
20...	1400	848	2240	8.0	12.6	4.5	2100	12.0	--	650
MAR										
24...	1530	60	4190	8.1	12.0	10.5	54	9.2	--	1500
APR										
21...	1500	46	2890	8.1	23.5	15.5	62	8.2	--	1000
MAY										
22...	1300	173	2200	8.1	29.0	20.5	220	7.6	--	760
JUN										
26...	1400	1340	755	8.0	--	19.0	--	8.0	--	320
JUL										
31...	1030	35	2600	8.1	--	22.0	--	7.2	--	960
AUG										
20...	1500	49	3500	8.0	27.0	22.0	400	7.3	--	1200
SEP										
18...	1230	200	3100	8.0	23.0	17.0	300	8.7	--	1200

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)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
NOV										
15...	1300	270	220	460	59	5.0	470	13	360	17
DEC										
18...	1000	250	200	570	66	6.5	580	12	470	0
JAN										
21...	760	190	130	420	47	5.8	430	7.8	390	8
FEB										
20...	180	140	73	270	47	4.6	10	7.0	570	0
MAR										
24...	1200	250	220	530	43	5.9	540	10	370	0
APR										
21...	830	180	140	360	43	4.9	--	7.7	--	0
MAY										
22...	470	140	100	260	42	4.1	--	6.6	350	0
JUN										
26...	120	70	36	50	25	1.2	--	2.4	320	0
JUL										
31...	780	170	130	300	40	4.2	--	8.2	--	--
AUG										
20...	1000	220	160	440	44	5.5	--	11	--	--
SEP										
18...	950	240	140	350	39	4.4	--	11	--	--

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	ALKALINITY (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)
NOV										
15...	324	2.0	2200	64	.3	6.7	3840	3430	5.22	301
DEC										
18...	385	9.5	2300	74	.2	11	4220	3650	5.74	285
JAN										
21...	250	2.6	1500	58	.4	8.6	2800	2470	3.81	809
FEB										
20...	468	9.1	950	33	.5	7.9	1810	1760	2.46	4140
MAR										
24...	303	4.7	2300	74	.4	6.6	3860	3570	5.25	625
APR										
21...	200	--	1500	20	.3	5.2	2510	2330	3.41	312
MAY										
22...	287	4.4	1000	51	.4	6.6	1750	1740	2.38	817
JUN										
26...	260	3.7	200	9.0	.2	4.9	515	487	.70	1860
JUL										
31...	180	--	1300	38	.6	8.8	2220	2060	30.2	3.02
AUG										
20...	180	--	1800	64	.4	5.9	3080	2810	4.19	407
SEP										
18...	230	--	1600	47	.4	6.5	2730	2530	3.71	1470

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA 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)
NOV										
15...	22	--	.43	--	.090	--	.12	--	.69	--
DEC										
18...	56	.96	--	.120	--	.15	--	.54	--	.66
JAN										
21...	34	.98	--	.090	--	.11	--	1.1	--	1.2
FEB										
20...	11000	1.1	--	.260	--	.31	--	8.8	--	9.1
MAR										
24...	96	.42	--	.100	--	.12	--	.50	--	.60
APR										
21...	2	.09	--	.130	--	.16	--	.97	--	1.1
MAY										
22...	482	.08	--	.030	--	.04	--	.97	--	1.0
JUN										
26...	898	.00	--	--	--	.00	--	.75	--	.75
JUL										
31...	1	.00	--	--	--	.00	--	1.1	--	1.1
AUG										
20...	345	.00	--	.000	--	.00	--	1.6	--	1.6
SEP										
18...	410	.08	--	.040	--	.05	--	1.1	--	1.1

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)	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)
APR 21...	1500	740	730	10	3	1	2	0	0	0	220	1

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)	COBALT, DISSOLVED (UG/L AS CO)	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)
APR 21...	1	0	0	0	282	5	2	3	1500	1500	10

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)	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)
APR											
21...	12	8	4	210	70	60	10	.1	.1	.0	2

DATE	MOLYB-DENUM, SUS-PENDED RECOV. (UG/L AS MO)	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)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
APR											
21...	0	2	5	5	0	3	1	2	70	60	10

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)
NOV			
15...	1600	450	30
DEC			
18...	1630	330	70
JAN			
21...	1630	220	40
FEB			
20...	1400	170	70
MAR			
24...	1530	720	10
APR			
21...	1500	220	10
MAY			
22...	1300	220	120
JUN			
26...	1400	120	--
JUL			
31...	1030	300	--
AUG			
20...	1500	380	30
SEP			
18...	1230	310	50

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
NOV			
15...	1600	19	18
DEC			
18...	1630	8.1	100
JAN			
21...	1630	18	7.9
FEB			
20...	1400	51	12
MAR			
24...	1530	7.5	6.3
APR			
21...	1500	7.4	6.2
MAY			
22...	1300	14	5.2
JUN			
26...	1400	22	8.2
JUL			
31...	1030	15	17
AUG			
20...	1500	14	13
SEP			
18...	1230	8.4	5.9

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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...	1600	91.0	88.5	19.7	.000	127
APR						
21...	1500	26.6	26.6	1.46	.080	.00

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
NOV					
15...	1600	29	4.0	572	45
FEB					
20...	1400	848	4.5	16100	36900
MAR					
24...	1530	60	10.5	791	128
APR					
21...	1500	46	15.5	562	70
MAY					
22...	1300	173	20.5	958	447
JUL					
31...	1030	35	22.0	320	30
AUG					
20...	1500	49	22.0	786	104
SEP					
18...	1230	200	17.0	889	480

09329050 SEVEN MILE CREEK NEAR FISH LAKE, UTAH

LOCATION.--Lat 38°37'40", long 111°38'50", in SW1/4 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.--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 period of no gage-height record, which are poor.

AVERAGE DISCHARGE.--16 years, 14.2 ft^3/s (0.402 m^3/s), 10,290 acre-ft/yr (12.7 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.--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)
May 22	2100	138	3.91	2.72	0.829
June 5	2100	*214	6.06	3.23	0.985

Minimum discharge, 3.70 ft^3/s (0.105 m^3/s) Oct. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	8.3	8.1	7.7	7.4	7.9	8.0	15	79	22	12	9.6
2	8.1	8.3	8.1	7.6	7.4	7.6	8.0	15	91	31	12	9.3
3	8.0	8.4	8.1	7.6	7.5	7.5	8.0	16	108	20	12	9.3
4	8.0	8.6	8.1	7.8	7.8	7.8	8.2	18	125	19	12	9.2
5	8.0	9.0	7.7	7.7	8.2	7.8	8.0	19	128	17	11	9.1
6	7.8	8.4	7.9	7.6	8.0	7.6	8.0	20	121	16	11	12
7	8.0	8.5	8.2	7.5	7.6	7.3	8.1	21	107	17	11	20
8	8.0	8.5	8.1	7.5	7.3	7.0	8.3	24	87	19	11	18
9	7.9	8.0	8.0	7.5	7.1	7.1	8.4	27	110	17	11	23
10	8.0	9.6	8.0	7.1	7.0	7.3	8.5	30	93	16	11	14
11	8.0	8.1	7.7	7.8	7.4	7.4	8.4	31	77	15	11	15
12	8.0	8.3	7.5	8.0	7.8	7.5	8.3	28	68	15	11	13
13	8.0	7.9	7.7	8.1	8.0	7.3	8.2	23	61	14	11	12
14	8.0	7.9	7.7	8.1	8.1	7.1	8.6	20	57	14	12	12
15	8.1	8.7	7.7	8.0	8.3	7.0	9.2	18	54	14	11	12
16	8.1	9.2	7.7	8.0	8.6	6.9	9.5	19	50	13	11	12
17	8.2	8.9	7.6	8.0	8.4	7.2	9.7	31	47	13	11	12
18	8.4	8.5	7.7	8.1	8.4	7.4	10	33	43	13	11	12
19	8.2	7.8	7.7	7.5	8.2	7.6	10	42	38	13	11	12
20	9.4	6.9	7.6	7.9	8.0	7.7	11	67	34	12	11	12
21	9.5	8.3	7.7	7.9	7.8	7.8	11	96	31	12	11	12
22	10	8.1	7.7	7.7	7.6	7.9	11	109	29	12	9.7	12
23	9.2	8.1	7.8	7.7	7.4	8.0	11	108	28	12	11	12
24	8.7	8.1	7.8	7.8	7.4	8.1	11	82	27	12	12	11
25	8.5	8.3	7.8	7.8	7.8	8.2	11	51	26	12	11	11
26	8.4	8.3	7.8	7.8	7.9	7.9	12	44	26	12	11	11
27	8.2	8.1	7.9	7.8	8.0	7.7	12	45	24	12	9.9	11
28	8.8	8.0	7.7	7.8	8.1	7.8	12	55	22	12	9.6	11
29	5.3	7.9	7.6	7.7	8.1	7.9	13	63	21	12	9.7	11
30	9.0	7.9	7.6	7.6	---	7.8	14	74	20	14	9.8	11
31	8.6	---	7.6	7.4	---	7.9	---	76	---	12	9.7	---
TOTAL	256.5	248.9	241.9	240.1	226.6	235.0	292.4	1320	1832	464	339.4	370.5
MEAN	8.27	8.30	7.80	7.75	7.81	7.58	9.75	42.6	61.1	15.0	10.9	12.4
MAX	10	9.6	8.2	8.1	8.6	8.2	14	109	128	31	12	23
MIN	5.3	6.9	7.5	7.1	7.0	6.9	8.0	15	20	12	9.6	9.1
AC-FT	509	494	480	476	449	466	580	2620	3630	920	673	735

CAL YR 1979 TOTAL 4911.1 MEAN 13.5 MAX 110 MIN 4.0 AC-FT 9740
WTR YR 1980 TOTAL 6067.3 MEAN 16.6 MAX 128 MIN 5.3 AC-FT 12030

NOTE: No gage-height record Jan. 30 to May 9.

09329900 PINE CREEK NEAR BICKNELL, UTAH

LOCATION.--Lat 38°16'10", long 111°35'00", in SE¼ se.21, T.29 S., R.3 E., Wayne County, Hydrologic Unit 14070003, about 3.5 mi (5.6 km) upstream from mouth and 5.5 mi (8.9 km) southwest of Bicknell.

DRAINAGE AREA.--104 mi^2 (269 km^2).

PERIOD OF RECORD.--October 1964 to September 1980 (discontinued).

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

GAGE.--Water-stage recorder. Altitude of gage is 7,100 ft (2,164 m) from topographic map.

REMARKS.--Records good except those for periods of ice effect, which are fair.

AVERAGE DISCHARGE.--16 years, 3.98 ft^3/s (0.113 m^3/s), 2,880 acre-ft/yr (3.55 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 707 ft^3/s (20.0 m^3/s) Aug. 2, 1968, gage height, 4.85 ft (1.478 m), from estimate based on field survey of peak flow; no flow Feb. 5, 1972, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 60 ft^3/s (1.70 m^3/s) none; maximum discharge, 19.2 ft^3/s (0.54 m^3/s) May 23, gage height, 1.77 ft (0.54 m); minimum discharge, 2.05 ft^3/s (0.058 m^3/s) May 17, result of freezeup.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	5.0	4.4	4.2	4.2	3.6	3.5	3.7	3.3	3.6	5.6	5.9
2	4.4	4.9	4.3	4.2	4.1	3.6	3.5	3.6	3.3	3.4	5.5	6.3
3	4.4	4.9	4.3	4.2	4.1	3.6	3.4	3.4	3.1	3.4	5.1	5.9
4	4.8	4.9	4.2	4.2	4.0	3.6	3.3	3.4	3.1	3.3	5.2	6.3
5	4.4	4.9	4.2	4.1	4.0	3.6	3.1	3.4	3.1	3.3	4.9	6.3
6	4.3	4.8	4.1	4.2	3.9	3.6	3.3	3.4	3.1	3.4	4.9	6.7
7	4.3	4.8	4.0	4.1	4.0	3.7	3.1	3.4	3.1	3.4	4.9	7.1
8	4.4	4.9	4.0	4.1	4.0	3.7	3.4	3.6	3.1	3.7	4.9	7.4
9	4.3	4.8	4.1	4.1	3.9	3.6	3.2	3.4	3.1	3.6	4.8	6.7
10	4.4	4.7	4.3	4.0	3.9	3.6	3.3	3.4	3.1	3.6	5.1	7.8
11	4.4	4.7	4.3	4.3	3.7	3.4	3.2	3.6	3.0	3.7	5.1	6.3
12	4.4	4.7	4.3	4.1	3.7	3.7	4.3	3.6	3.0	3.6	5.2	5.9
13	4.4	4.7	4.2	4.3	3.6	3.6	3.6	3.6	3.0	3.7	5.2	5.5
14	4.4	4.6	4.1	4.3	3.6	3.5	3.5	3.4	3.0	3.7	6.3	5.5
15	4.4	4.6	4.2	4.4	3.5	3.4	3.5	3.4	3.1	3.6	5.9	5.5
16	4.4	4.5	4.4	4.1	3.6	3.5	3.4	3.4	3.0	3.5	5.5	5.1
17	4.8	4.5	4.4	4.1	3.6	3.5	3.4	3.6	3.1	3.8	5.5	5.1
18	4.8	4.5	5.2	4.1	3.7	3.5	3.3	3.4	3.1	3.8	5.5	5.2
19	4.8	4.6	5.2	4.3	3.7	3.5	3.4	3.3	3.1	3.6	5.5	5.2
20	4.8	4.6	4.8	4.4	3.6	3.6	3.4	3.3	3.1	3.8	6.3	5.5
21	4.8	4.5	4.4	4.4	3.5	3.3	3.4	3.3	3.1	3.9	5.5	5.5
22	5.2	4.5	4.4	4.5	3.6	3.4	3.5	3.3	3.1	4.1	5.5	5.5
23	5.2	4.5	4.5	4.5	3.7	3.7	3.6	7.8	3.1	4.1	5.9	5.5
24	4.8	4.5	4.5	4.5	3.7	3.6	3.3	4.1	3.1	4.3	7.1	5.5
25	4.8	4.5	4.5	4.4	3.7	3.5	3.3	3.4	3.1	4.4	6.7	5.5
26	4.8	4.5	4.4	4.4	3.7	3.6	3.3	3.4	3.1	4.4	6.3	5.2
27	4.8	4.5	4.4	4.4	3.8	3.6	3.2	3.3	3.1	4.4	5.5	5.3
28	4.8	4.4	4.3	4.4	3.9	3.7	3.2	3.3	3.2	4.4	5.9	5.4
29	5.2	4.5	4.3	4.3	3.6	3.7	3.6	3.3	3.3	4.9	5.9	5.5
30	5.9	4.5	4.3	4.3	---	3.7	3.5	3.3	3.5	4.7	5.9	5.6
31	5.6	---	4.3	4.2	---	3.6	---	3.3	---	4.9	5.9	---
TOTAL	145.6	139.5	135.3	132.1	109.6	110.8	102.0	111.1	93.6	120.0	173.0	175.7
MEAN	4.70	4.65	4.36	4.26	3.78	3.57	3.40	3.58	3.12	3.87	5.58	5.86
MAX	5.9	5.0	5.2	4.5	4.2	3.7	4.3	7.8	3.5	4.9	7.1	7.8
MIN	4.3	4.4	4.0	4.0	3.5	3.3	3.1	3.3	3.0	3.3	4.8	5.1
AC-FT	289	277	268	262	217	220	202	220	186	238	343	349

CAL YR 1979 TOTAL 1271.2 MEAN 3.48 MAX 13 MIN 2.1 AC-FT 2520
WTR YR 1980 TOTAL 1548.3 MEAN 4.23 MAX 7.8 MIN 3.0 AC-FT 3070

09330000 FREMONT RIVER NEAR BICKNELL, UTAH

LOCATION.--Lat 38°18'25", long 111°31'03", in SW1/4NW1/4NW1/4 sec.7, T.29 S., R.4 E., Wayne County, Hydrologic Unit 14070003, on left bank at upstream side of county road bridge, 2.9 mi (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 September 1979.

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 for periods of no gage-height record, which are fair, and days of flash flooding in Sept., which are poor. Diversions for irrigation of about 10,600 acres above station. Flow regulated by Fish Lake and Johnson and Forsythe Reservoirs.

AVERAGE DISCHARGE.--25 years (1909-12, 1937-43, 1946-58, 1976-80), 86.8 ft^3/s (2.46 m^3/s), 62,890 acre-ft/yr (77.5 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 daily discharge, 245 ft^3/s (6.94 m^3/s) Sept. 8; minimum, 41 ft^3/s (1.16 m^3/s) Aug. 29, 31, and Sept. 1-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	51	59	59	68	62	69	63	49	52	48	41
2	56	49	64	60	68	65	69	68	47	54	48	41
3	55	51	64	59	69	65	67	61	47	54	48	41
4	55	53	68	58	69	64	69	62	47	53	47	41
5	55	58	69	59	66	64	68	74	48	53	47	42
6	55	61	70	61	65	65	68	74	47	52	47	55
7	55	62	72	61	66	70	66	72	46	51	48	160
8	57	65	74	62	60	68	66	68	45	52	49	245
9	56	63	75	63	56	67	70	64	46	52	50	100
10	56	61	77	67	57	66	69	61	48	51	50	90
11	56	60	69	57	61	70	67	62	47	51	52	85
12	55	60	61	74	63	67	67	62	45	51	54	78
13	55	62	62	84	63	68	67	64	46	51	50	68
14	55	61	67	86	66	70	69	63	47	51	46	67
15	54	59	68	68	75	66	66	68	46	51	50	66
16	56	61	70	68	76	64	64	60	45	51	50	66
17	55	59	71	69	91	62	62	63	46	51	46	67
18	54	67	71	70	109	66	58	58	47	50	43	66
19	54	63	70	69	99	67	57	54	46	50	43	66
20	53	63	73	67	86	65	56	53	45	51	43	66
21	55	57	72	62	71	66	54	54	44	50	42	65
22	55	59	70	60	69	69	58	54	45	50	42	65
23	56	58	64	57	66	77	62	54	45	50	42	65
24	55	61	68	61	63	73	61	61	44	49	44	65
25	55	67	68	68	64	70	58	57	44	49	47	64
26	54	70	68	69	65	65	55	51	44	49	47	63
27	49	60	69	68	67	66	57	49	44	49	45	64
28	48	59	61	71	68	63	55	47	45	49	43	65
29	48	55	61	73	65	64	60	54	48	48	41	65
30	49	56	59	73	---	66	64	51	51	48	42	65
31	49	---	59	65	---	58	---	47	---	48	41	---
TOTAL	1677	1791	2093	2048	2031	2058	1898	1853	1384	1571	1435	2197
MEAN	54.1	59.7	67.5	66.1	70.0	66.4	63.3	59.8	46.1	50.7	46.3	73.2
MAX	57	70	77	86	109	77	70	74	51	54	54	245
MIN	48	49	59	57	56	58	54	47	44	48	41	41
AC-FT	3330	3550	4150	4060	4030	4080	3760	3680	2750	3120	2850	4360

CAL YR 1979 TOTAL 23092 MEAN 63.3 MAX 130 MIN 48 AC-FT 45800
WTR YR 1980 TOTAL 22036 MEAN 60.2 MAX 245 MIN 41 AC-FT 43710

NOTE: No gage-height record Sept. 5 - 30.

09330230 FREMONT RIVER NEAR CAINEVILLE, UTAH

LOCATION.--Lat 38°16'40", long 111°104'00", in NE1/4NE1/4 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 except for winter period and period of no gage-height record, which are fair.

AVERAGE DISCHARGE.--13 years, 67.7 ft^3/s (1.917 m^3/s), 49,050 acre-ft/yr (60.5 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,310 ft^3/s (65.4 m^3/s) Aug. 27, 1971, gage height, 5.36 ft (1.634 m), from high water mark; minimum, 11 ft^3/s (0.31 m^3/s) Aug. 13-15, 1972, June 26, 27, 1980.

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)
Aug. 23	2030	705	20.0	2.93	0.89
Sept. 9	0300	*1,850	52.4	4.81	1.47

Minimum discharge, 11 ft^3/s (0.31 m^3/s) June 26, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	60	65	88	90	109	94	53	22	21	29	61
2	31	66	67	88	91	112	92	56	23	21	36	61
3	30	66	69	86	92	113	90	47	23	18	30	60
4	30	71	72	85	93	113	89	40	23	15	21	61
5	30	71	74	86	94	108	88	53	22	16	16	64
6	30	86	76	88	95	109	85	93	23	15	18	79
7	30	89	79	92	97	117	84	72	25	18	18	275
8	29	94	80	97	94	125	82	67	29	21	18	472
9	29	84	81	96	93	119	81	60	36	22	17	675
10	29	73	83	90	94	116	84	53	47	24	18	156
11	30	72	80	91	95	123	82	43	58	25	17	123
12	29	71	82	89	96	126	80	46	60	25	20	88
13	36	68	83	89	97	121	80	44	53	25	24	77
14	36	60	84	89	104	122	84	49	45	23	31	74
15	39	59	86	90	104	120	82	63	37	21	28	66
16	36	58	87	92	113	118	77	46	35	22	33	69
17	40	59	90	93	115	117	78	44	30	24	34	65
18	43	57	92	92	149	115	79	40	26	25	35	60
19	43	61	91	90	175	112	77	31	24	32	33	54
20	44	58	90	89	159	110	83	22	21	33	32	52
21	43	66	92	88	133	110	63	22	15	26	32	54
22	46	68	93	86	129	110	64	19	15	26	32	55
23	45	70	90	87	128	108	65	20	19	27	90	55
24	47	72	90	88	120	106	59	25	20	33	78	53
25	43	74	89	89	119	105	48	31	18	36	65	49
26	46	73	92	89	123	103	42	32	13	36	60	45
27	45	72	98	87	123	102	40	27	12	37	59	42
28	38	68	90	87	125	100	43	23	13	31	55	42
29	49	66	87	88	115	99	45	23	15	29	59	41
30	51	66	88	89	---	98	57	24	19	30	60	47
31	49	---	89	89	---	97	---	22	---	27	64	---
TOTAL	1177	2078	2609	2767	3255	3463	2197	1290	821	784	1162	3175
MEAN	38.0	69.3	84.2	89.3	112	112	73.2	41.6	27.4	25.3	37.5	106
MAX	51	94	98	97	175	126	94	93	60	37	90	675
MIN	29	57	65	85	90	97	40	19	12	15	16	41
AC-FT	2330	4120	5170	5490	6460	6870	4360	2560	1630	1560	2300	6300

CAL YR 1979 TOTAL 21987 MEAN 60.2 MAX 143 MIN 17 AC-FT 43610
WTR YR 1980 TOTAL 24778 MEAN 67.7 MAX 675 MIN 12 AC-FT 49150

09330230 FREMONT RIVER NEAR CAINEVILLE, UTAH--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°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, 86,000 mg/L Sept. 10; minimium daily mean, 2 mg/L June 28.
SEDIMENT LOADS: Maximum, 239,000 tons (216,800 tonnes) Sept. 9; minimum daily, 0.07 ton (0.06 tonne) June 28.

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	58	4.9	200	32	105	18	135	32	115	28	82	24
2	57	4.8	250	45	100	18	150	36	120	29	83	25
3	57	4.6	175	31	95	18	161	37	160	40	84	26
4	58	4.7	165	32	95	18	162	37	180	45	85	26
5	58	4.7	190	36	85	17	230	53	170	43	86	25
6	59	4.8	235	55	100	21	185	44	135	35	87	26
7	60	4.9	220	53	90	19	195	48	130	34	100	32
8	64	5.0	175	44	110	24	195	51	120	30	140	47
9	70	5.5	154	35	120	26	190	49	120	30	320	103
10	70	5.5	156	31	120	27	195	47	120	30	340	106
11	65	5.3	155	30	115	25	220	54	110	28	340	113
12	100	7.8	155	30	120	27	230	55	120	31	340	116
13	85	8.3	155	28	128	29	222	53	130	34	340	111
14	60	5.8	155	25	160	36	225	54	110	31	340	112
15	59	6.2	155	25	185	43	225	55	124	35	360	117
16	57	5.5	147	23	220	52	225	56	150	46	365	116
17	54	5.8	145	23	280	68	230	58	140	43	365	115
18	60	7.0	150	23	265	66	230	57	150	60	370	115
19	60	7.0	150	25	260	64	230	56	220	104	370	112
20	60	7.1	155	24	205	50	480	115	160	69	370	110
21	60	7.0	155	28	120	30	380	90	110	40	360	107
22	59	7.3	110	20	115	29	370	86	73	25	350	104
23	65	7.9	110	21	110	27	360	85	75	26	345	101
24	68	8.6	150	29	110	27	341	81	75	24	340	97
25	78	9.1	160	32	117	28	330	79	76	24	320	91
26	95	12	250	49	125	31	270	65	76	25	330	92
27	90	11	230	45	122	32	200	47	77	26	340	94
28	55	5.6	180	33	112	27	115	27	78	26	330	89
29	55	7.3	180	32	115	27	110	26	79	25	330	88
30	55	7.6	170	30	118	28	100	24	---	---	300	79
31	56	7.4	---	---	122	29	100	24	---	---	300	79
TOTAL	---	206.0	---	969	---	981	---	1681	---	1066	---	2598

09330230 FREMONT RIVER NEAR CAINEVILLE, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	250	63	160	23	60	3.6	65	3.7	81	6.3	3500	576
2	250	62	150	23	70	4.3	67	3.8	180	17	2500	412
3	270	66	140	18	80	5.0	65	3.2	150	12	900	146
4	260	62	140	15	120	7.5	55	2.2	85	4.8	200	33
5	260	62	240	34	140	8.3	45	1.9	80	3.5	150	26
6	190	44	630	158	140	8.7	70	2.8	75	3.6	500	107
7	190	43	600	117	123	8.3	80	3.9	66	3.2	23000	17100
8	150	33	615	111	110	8.6	60	3.4	63	3.1	20000	25500
9	120	26	617	100	80	7.8	55	3.3	80	3.7	70000	128000
10	170	39	600	86	65	8.2	60	3.9	66	3.2	86000	36200
11	130	29	570	66	140	22	85	5.7	45	2.1	82000	27200
12	130	28	290	36	160	26	75	5.1	60	3.2	35000	8320
13	150	32	39	4.6	120	17	90	6.1	750	49	5000	1040
14	150	34	40	5.3	110	13	140	8.7	2000	167	2000	400
15	130	29	70	12	126	13	165	9.4	1500	113	11000	1960
16	140	29	35	4.3	132	12	180	11	1000	89	15000	2790
17	160	34	25	3.0	145	12	175	11	300	28	20000	3510
18	150	32	30	3.2	143	10	170	11	35	3.3	25000	4050
19	130	27	38	3.2	143	9.3	174	15	40	3.6	27000	3940
20	170	38	35	2.1	130	7.4	155	14	45	3.9	15000	2110
21	150	26	30	1.8	65	2.6	140	9.8	45	3.9	200	29
22	170	29	30	1.5	10	.41	130	9.1	60	5.2	185	27
23	150	26	25	1.4	10	.51	165	12	1600	389	180	27
24	140	22	30	2.0	10	.54	167	15	2900	611	190	27
25	90	12	30	2.5	35	1.7	145	14	2100	369	180	24
26	90	10	60	5.2	4	.14	160	16	1000	162	175	21
27	91	9.8	55	4.0	3	.10	100	10	300	48	175	20
28	140	16	40	2.5	2	.07	79	6.6	185	27	175	20
29	165	20	40	2.5	5	.20	80	6.3	185	29	175	19
30	165	25	50	3.2	10	.51	80	6.5	185	30	175	22
31	---	---	140	8.3	---	---	81	5.9	800	138	---	---
TOTAL	---	1007.8	---	859.6	---	218.78	---	240.3	---	2334.6	---	263656

TOTAL LOAD FOR YEAR: 275818.08 TONS.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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
DEC												
17...	1405	97	5.0	302	79	22	27	47	69	88	99	100
JAN												
20...	1200	93	.0	764	192	78	82	89	99	100	--	--
FEB												
04...	1600	93	2.0	192	48	27	31	45	67	83	96	100
APR												
09...	1200	79	5.0	88	19	44	49	64	77	90	98	100
AUG												
15...	1330	26	15.0	2360	166	50	72	91	97	99	100	--
24...	1700	79	15.0	2070	442	54	74	95	99	100	--	--
SEP												
09...	1600	1840	13.0	48200	239000	35	46	76	98	100	--	--

09330230 FREMONT RIVER NEAR CAINEVILLE, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
DEC							
17...	1405	97	5.0	0	0	9	30
FEB							
04...	1600	93	2.0	1	4	18	37
APR							
09...	1130	79	5.0	0	1	8	24

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
DEC						
17...	38	46	60	75	91	100
FEB						
04...	44	47	53	64	83	100
APR						
09...	32	41	55	70	88	98

09330500 MUDDY CREEK NEAR EMERY, UTAH

LOCATION.--Lat 38°58'55", long 111°14'55", in NE1/4 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.--34 years (1910-13, 1949-80), 37.6 ft^3/s (1.06 m^3/s), 27,240 acre-ft/yr (33.6 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.--Peak discharge above base of 400 ft^3/s (11.3 m^3/s), and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage Height (ft)	Gage Height (m)
May 21	2100	*443	12.5	4.34	1.323
Sept. 9	1130	409	11.6	4.32	1.317

Minimum discharge, 3.3 ft^3/s (0.093 m^3/s) Mar. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	11	12	10	14	18	13	114	174	173	63	33
2	26	15	13	9.0	13	11	11	128	170	170	58	31
3	25	15	13	11	11	11	9.3	160	177	161	56	32
4	25	15	14	10	10	11	9.4	190	189	156	54	30
5	24	14	15	10	10	11	11	244	196	149	52	30
6	24	13	16	10	10	10	11	277	201	145	51	30
7	24	13	16	12	10	10	9.4	259	201	143	50	36
8	20	12	15	15	9.0	10	9.8	269	204	141	50	44
9	17	11	15	16	11	11	12	246	206	130	47	83
10	17	8.9	15	15	13	11	15	205	218	124	45	80
11	17	11	14	15	11	10	11	170	234	120	44	44
12	17	15	13	17	9.0	9.8	10	160	243	117	44	40
13	17	15	11	19	9.0	9.9	11	149	247	111	45	34
14	16	16	12	21	9.0	13	16	146	239	110	50	32
15	15	14	12	19	9.0	11	22	160	231	106	47	31
16	15	18	12	17	10	10	26	156	227	106	43	30
17	16	18	13	15	11	8.3	31	161	229	101	42	30
18	16	17	13	12	17	15	41	156	222	97	41	30
19	17	17	13	11	22	13	55	187	216	94	40	30
20	15	16	12	11	17	11	72	234	212	92	40	30
21	13	16	12	14	15	11	67	283	207	90	39	30
22	12	17	11	13	15	9.4	77	316	201	87	38	33
23	13	17	12	12	15	11	68	263	196	88	53	33
24	13	16	11	12	19	9.2	65	201	191	84	41	31
25	13	17	10	11	23	11	90	182	189	79	39	29
26	13	18	11	13	21	11	117	148	183	78	37	29
27	12	15	11	12	19	9.8	130	153	178	76	36	29
28	12	15	12	11	18	11	165	162	176	74	34	30
29	13	13	11	11	17	10	161	167	178	70	34	30
30	12	12	10	10	---	8.8	117	166	175	70	34	30
31	8.1	---	10	11	---	12	---	163	---	66	33	---
TOTAL	524.1	440.9	390	405.0	397.0	339.2	1462.9	5977	6110	3408	1380	1064
MEAN	16.9	14.7	12.6	13.1	13.7	10.9	48.8	193	204	110	44.5	35.5
MAX	27	18	16	21	23	18	165	316	247	173	63	83
MIN	8.1	8.9	10	9.0	9.0	8.3	9.3	114	170	66	33	29
AC-FT	1040	875	774	803	787	673	2900	11860	12120	6760	2740	2110

CAL YR 1979 TOTAL 17422.3 MEAN 47.7 MAX 241 MIN 4.0 AC-FT 34560
WTR YR 1980 TOTAL 21898.1 MEAN 59.8 MAX 316 MIN 8.1 AC-FT 43430

09331900 QUITCHUPAH CREEK NEAR EMERY, UTAH

LOCATION.--Lat 38°51'33", long 111°15'41", in SE1/4SE1/4NE1/4 sec.32, T.22 S., R.6 E., Emery County, Hydrologic Unit 14070002, on left bank 4.2 mi (6.8 km) upstream from the mouth, at the Consol coal mine, 4 mi (6.4 km) south of Emery.

DRAINAGE AREA.--104 mi^2 (269 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,900 ft (1,798 m) from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,380 ft^3/s (39.1 m^3/s) Sept. 9, 1980, gage height, 6.11 ft (1.862 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)
April 28	2000	150	4.25	4.09	1.247
May 8	0445	105	2.97	3.67	1.119
Sept. 9	1530	*1380	39.1	6.11	1.862

Minimum discharge, 0.86 ft^3/s (0.024 m^3/s) Oct. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.3	2.4	5.2	6.2	9.4	9.4	23	20	20	3.4	4.1
2	1.9	1.2	2.6	5.2	6.2	10	9.8	24	20	19	3.2	4.8
3	2.4	1.2	2.8	5.2	6.2	11	9.8	25	19	18	2.8	3.1
4	1.7	1.1	3.0	5.2	6.3	10	8.5	23	18	19	3.9	3.7
5	1.3	1.1	3.2	5.2	6.4	9.8	9.5	22	19	19	3.8	3.3
6	1.1	1.1	3.5	5.3	6.5	11	11	27	21	15	4.4	3.8
7	1.1	1.1	3.7	5.4	6.6	13	11	33	19	17	3.3	10
8	1.1	1.1	4.0	5.4	6.6	10	8.1	37	20	21	3.6	41
9	1.1	1.1	4.1	5.6	6.8	9.5	11	23	18	18	4.2	263
10	1.4	1.1	4.2	5.7	7.3	9.0	12	18	16	19	3.2	164
11	1.2	1.1	4.2	5.8	7.4	11	11	17	16	21	3.2	8.2
12	1.0	1.1	4.1	6.1	7.4	10	8.2	15	15	19	3.7	7.9
13	1.1	1.1	4.3	6.5	7.4	7.5	7.0	17	15	13	4.3	11
14	1.0	1.1	4.6	7.5	7.8	12	8.2	26	19	9.3	3.5	9.9
15	.97	1.1	4.8	7.4	7.8	12	7.3	30	16	6.5	4.8	12
16	1.5	1.1	4.8	7.3	8.9	10	10	27	18	6.9	3.3	8.9
17	1.1	1.1	4.9	7.6	9.9	8.3	9.9	39	12	9.3	3.2	8.0
18	1.0	1.2	4.9	7.3	14	8.6	9.8	34	12	10	3.5	8.9
19	1.3	1.2	4.9	7.0	14	11	9.6	36	12	8.0	2.9	7.8
20	1.1	1.2	5.0	6.3	12	10	11	46	12	7.7	3.2	7.0
21	1.2	1.3	5.0	6.2	9.8	13	16	46	15	7.5	2.7	7.1
22	1.2	1.4	5.0	6.2	9.6	11	19	40	19	7.4	3.2	7.3
23	1.2	1.5	5.0	6.2	8.1	9.9	21	33	21	6.6	20	8.4
24	1.7	1.5	5.0	6.2	7.2	11	19	34	23	5.7	5.9	6.2
25	1.4	1.6	5.0	6.2	8.1	9.3	32	27	21	5.2	4.0	6.9
26	1.4	1.7	5.1	6.2	9.1	8.0	28	23	22	5.0	4.2	6.0
27	1.3	1.8	5.1	6.2	11	9.7	28	24	17	4.1	3.3	5.6
28	1.1	1.9	5.1	6.2	10	9.6	50	27	13	4.3	2.4	4.3
29	1.4	2.1	5.1	6.1	11	9.1	38	24	14	4.5	2.7	3.8
30	1.3	2.2	5.1	6.4	---	8.5	21	22	18	4.3	3.3	4.1
31	1.7	---	5.2	6.2	---	7.7	---	21	---	3.6	3.8	---
TOTAL	40.67	39.7	135.7	190.5	245.6	309.9	464.1	863	520	353.9	126.9	650.1
MEAN	1.31	1.32	4.38	6.15	8.47	10.0	15.5	27.8	17.3	11.4	4.09	21.7
MAX	2.4	2.2	5.2	7.6	14	13	50	46	23	21	20	263
MIN	.97	1.1	2.4	5.2	6.2	7.5	7.0	15	12	3.6	2.4	3.1
AC-FT	81	79	269	378	487	615	921	1710	1030	702	252	1290

CAL YR 1979 TOTAL 2375.17 MEAN 6.51 MAX 27 MIN .97 AC-FT 4710
WTR YR 1980 TOTAL 3940.07 MEAN 10.8 MAX 263 MIN .97 AC-FT 7820

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 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)
AUG										
13...	1530	1.7	2140	8.8	30.0	24.0	8.2	--	--	570
SEP										
26...	1530	1.8	2300	8.5	27.5	7.0	8.4	120	160	680

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)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
AUG									
13...	340	100	77	290	52	5.3	5.3	260	9
SEP									
26...	370	130	85	310	50	5.2	4.8	370	5

DATE	ALKA-LINITY (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)
AUG									
13...	230	.7	840	50	--	7.3	1510	2.05	6.85
SEP									
26...	303	1.9	920	60	.5	10	1720	2.34	8.27

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)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)
SEP							
26...	1.1	4.8	.020	.07	1.1	.020	.03

DATE	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)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS PO4)
SEP							
26...	.36	.86	.48	.38	.430	.010	.03

DATE	TIME	ARSENIC DIS-SOLVED (UG/L AS AS)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
SEP										
26...	1530	0	10	10	38	140	20	5	2100	0

09331900 QUITCHUPAH CREEK NEAR EMERY, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
AUG					
02...	1530	1.7	--	266	1.2
24...	1700	.59	24.0	111	.18
29...	0900	.80	--	895	1.9
SEP					
26...	1530	1.8	7.0	291	1.4

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
SEP									
26...	1530	1.8	7.0	9	50	84	97	99	100

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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										
15...	1430	.97	3000	8.4	22.5	15.5	8.6	--	--	--
NOV										
13...	0945	1.1	4150	8.2	2.0	.0	11.3	--	--	--
DEC										
15...	1145	4.0	2060	8.2	1.5	1.0	11.7	1.3	80	290
JAN										
18...	1015	7.1	1420	8.1	7.0	1.0	11.2	--	--	--
FEB										
08...	1430	8.7	1200	8.4	-2.5	.0	11.5	--	--	--
MAR										
07...	1200	8.8	3220	8.3	6.0	5.0	10.2	2.7	100	1600
APR										
10...	1230	13	1270	8.3	13.0	8.5	9.3	--	--	--
MAY										
24...	1100	25	910	8.4	11.0	6.0	10.1	--	--	--
JUN										
29...	1000	15	890	8.4	32.5	18.0	7.4	1.0	930	1400
JUL										
14...	1045	11	1280	8.5	23.0	14.0	8.4	--	--	--
AUG										
18...	1215	4.1	3750	8.6	25.0	17.5	8.5	--	--	--
SEP										
21...	1600	6.6	1740	8.4	20.5	20.0	7.6	1.8	340	4000

09331900 QUITCHUPAH CREEK NEAR EMERY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	SODIUM+POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)
OCT										
15...	1100	710	200	140	520	51	6.9	530	8.5	470
NOV										
13...	1100	620	200	140	630	56	8.4	640	9.0	580
DEC										
15...	580	230	110	74	260	67	4.7	260	4.1	430
JAN										
18...	460	170	89	58	160	43	3.2	160	3.3	360
FEB										
08...	430	140	87	51	110	36	2.3	110	2.7	350
MAR										
07...	770	450	110	120	500	58	7.8	510	5.5	390
APR										
10...	370	50	72	45	160	49	3.6	--	2.9	390
MAY										
24...	330	31	71	37	80	34	1.9	--	2.7	360
JUN										
29...	330	81	69	39	71	32	1.7	--	2.1	300
JUL										
14...	410	140	78	53	140	42	3.0	--	2.8	310
AUG										
18...	930	550	140	140	600	58	8.6	--	7.0	440
SEP										
21...	540	250	100	71	180	42	3.4	--	4.7	380

DATE	CARBONATE (MG/L AS CO3)	ALKALINITY (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										
15...	4	390	3.0	1700	79	--	11	2890	3.93	7.53
NOV										
13...	0	480	5.9	1800	83	--	14	3160	4.30	9.64
DEC										
15...	0	360	4.3	670	44	.5	12	1390	1.89	15.0
JAN										
18...	0	300	4.6	440	29	--	8.9	966	1.31	18.5
FEB										
08...	2	290	2.3	370	19	--	7.8	822	1.12	19.3
MAR										
07...	0	320	3.1	1300	90	.4	12	2340	3.18	55.6
APR										
10...	0	330	3.1	420	30	--	6.8	929	1.26	32.6
MAY										
24...	2	300	2.3	220	20	--	7.3	617	.84	41.6
JUN										
29...	2	250	1.9	220	15	.3	6.5	576	.78	23.3
JUL										
14...	8	270	1.7	380	24	--	7.1	846	1.15	25.4
AUG										
18...	14	380	1.9	1600	110	--	7.1	2840	3.86	31.4
SEP										
21...	2	320	2.3	600	39	.4	9.8	1190	1.62	21.2

09331900 QUITCHUPAH CREEK NEAR EMERY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	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, NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT										
15...	--	--	--	--	--	--	--	--	--	--
NOV										
13...	--	--	--	--	--	--	--	--	--	--
DEC										
15...	1.1	4.8	.010	.03	1.1	.060	.08	.14	.55	.35
JAN										
18...	--	--	--	--	--	--	--	--	--	--
FEB										
08...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
MAR										
07...	2.1	<9.1	.050	.16	2.1	.040	.05	.55	1.8	1.2
APR										
10...	--	--	--	--	--	--	--	--	--	--
MAY										
24...	--	--	--	--	--	--	--	--	--	--
JUN										
29...	.42	1.9	.010	.03	.43	.000	.00	.57	1.0	.43
JUL										
14...	--	--	--	--	--	--	--	--	--	--
AUG										
18...	--	--	--	--	--	--	--	--	--	--
SEP										
21...	.92	4.1	.010	.03	.93	.050	.06	.78	1.1	.27

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)
DEC					
15...	.20	.070	.21	.100	.31
MAR					
07...	.59	1.100	3.4	.010	.03
JUN					
29...	.57	.080	.25	.030	.09
SEP					
21...	.83	.750	2.3	.100	.31

DATE	TIME	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
DEC										
15...	1145	1	260	10	0	110	20	4	2200	5
MAR										
07...	1200	2	240	30	0	160	30	7	2400	10
JUN										
29...	1000	1	120	<10	0	40	4	2	780	<3
SEP										
21...	1600	2	250	<10	2	100	10	3	1300	8

09331900 QUITCHUPAH CREEK NEAR EMERY, UT--Continued

BENTHIC INVERTEBRATE ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date:	Mar. 7, 1980	Sept. 21, 1980
Time:	1200	1600
Total Count	30	227
Diversity Phylum		
.Class		
..Order		1.6
...Family	1.8	
Organism		
Annelida		
.Oligochaeta		
..Plesiopora		
...Enchytraeidae	3	2
...Lumbricidae		
...Naididae	-	10
...Tubificidae	5	-
Arthropoda		
.Crustacea		
..Copepoda		
...Cylclopidae	-	3
..Podocopa		
...Cypridae	-	1
.Insecta		
...Ceratopogonidae	-	1
...Chironomidae	4	167
...Culicidae	-	1
..Ephemeroptera		
...Baetidae	-	13
...Ephemeridae	-	7
..Odonata		
...Coenagrionidae	1	-
...Gomphidae	-	2
..Trichoptera		
...Hydropsychidae	17	18
...Hydroptilidae	-	1
Mollusca		
.Gastropoda		
..Aspidobranchia		
...Lymnaidae	-	2

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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
DEC												
15...	1145	4.0	1.0	504	5.4	--	--	--	--	--	--	--
MAR												
07...	1200	8.8	5.0	1860	44	35	45	62	86	95	100	--
APR												
10...	1230	13	8.5	2660	93	--	--	--	--	--	--	--
30...	1645	16	14.0	5190	224	13	15	19	47	89	99	100
MAY												
24...	1100	25	6.0	4770	322	--	--	--	--	--	--	--
JUN												
29...	1000	15	18.0	1060	43	--	--	--	--	--	--	--
SEP												
21...	1600	6.6	20.0	1280	23	--	--	--	--	--	--	--

09331900 QUITCHUPAH CREEK NEAR EMERY, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL 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
DEC										
15...	1145	4.0	1.0	6	16	60	92	97	99	100

09331950 CHRISTIANSEN WASH NEAR EMERY, UTAH

LOCATION.--Lat 38°51'41", long 111°15'07", in NE1/4SE1/4NW1/4 sec.33, T.22 S., R.6 E., Emery County, Hydrologic Unit 14070002, on right bank, 0.3 mi (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, 226 ft^3/s (6.40 m^3/s) Sept. 10, 1980, gage height, 2.85 ft (0.869 m); minimum, 0.35 ft^3/s (0.010 m^3/s) Mar. 18, 1980.

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)
May 13	0245	77	2.18	2.09	0.637
July 8	1645	106	3.00	2.41	0.735
Sept. 10	0745	*226	6.40	2.85	0.869

Minimum, 0.35 ft^3/s (0.010 m^3/s) Mar. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	.95	.60	.51	.77	1.4	1.3	4.2	5.6	8.4	2.9	.83
2	.73	.91	.62	.50	.72	1.5	1.3	2.5	6.6	8.8	2.4	1.6
3	.70	.88	.64	.49	.70	1.7	1.2	1.9	13	6.5	3.0	1.5
4	.67	.86	.65	.48	.69	1.5	1.2	1.8	8.4	8.9	3.2	1.9
5	.64	.84	.68	.45	.68	1.0	1.2	.88	5.7	13	3.2	1.4
6	.64	.88	.71	.47	.68	1.2	1.4	.62	7.8	14	2.4	1.8
7	.67	1.1	.74	.50	.67	2.0	1.2	.75	8.5	10	1.6	3.4
8	.67	1.1	.76	.53	.67	1.5	.93	.70	4.1	16	1.8	6.1
9	.67	1.1	.78	.56	.59	1.4	1.2	.79	3.7	11	1.6	28
10	.64	.97	.80	.59	.55	1.2	1.5	.64	4.4	12	1.4	93
11	.67	.82	.82	.57	.54	1.4	1.1	8.2	5.5	12	1.4	11
12	.70	.64	.84	.53	.55	1.2	.82	26	4.3	12	1.6	5.7
13	.67	.52	.88	.54	.56	.80	1.1	54	4.1	18	1.3	5.5
14	.70	.51	.90	.64	.58	1.1	1.2	31	3.8	16	2.0	5.4
15	.75	.50	.96	.80	.78	1.1	1.6	50	4.8	12	3.1	5.0
16	.81	.50	.98	.88	1.0	.83	1.5	60	7.8	8.6	2.7	5.0
17	.90	.50	1.0	.94	1.2	.76	1.5	6.0	10	5.1	1.9	4.0
18	.89	.50	1.0	.96	1.4	.80	1.5	6.4	13	5.2	1.4	4.8
19	.81	.50	.96	.96	1.5	.72	1.5	7.3	12	4.6	1.6	3.4
20	.94	.51	.92	.96	1.9	.67	1.6	9.9	9.0	5.5	1.3	3.2
21	.88	.52	.90	.96	1.5	.58	1.9	6.0	8.4	6.8	1.6	3.7
22	.91	.54	.85	.93	1.3	.71	18	4.9	9.1	6.4	2.2	3.6
23	.98	.55	.78	.92	1.2	.78	27	4.9	9.1	6.1	3.3	3.9
24	.78	.56	.71	.88	1.2	.79	11	2.3	2.9	6.6	1.6	3.5
25	.82	.57	.64	.85	1.2	.82	13	1.8	2.1	6.7	1.5	3.4
26	.82	.59	.63	.82	1.2	1.0	16	1.4	2.0	6.7	1.5	3.4
27	.89	.59	.63	.80	1.3	1.1	18	1.3	2.1	7.8	1.6	3.6
28	1.1	.59	.61	.79	1.4	1.3	18	3.5	3.3	6.7	1.2	3.7
29	1.1	.59	.57	.79	1.4	1.2	3.8	18	3.0	3.0	.99	2.7
30	1.2	.59	.54	.79	---	1.2	3.2	2.7	4.2	3.2	1.2	2.8
31	1.0	---	.52	.78	---	1.4	---	4.8	---	3.7	1.0	---
TOTAL	25.55	20.78	23.62	22.17	28.43	34.66	155.75	325.18	188.3	271.3	59.49	226.83
MEAN	.82	.69	.76	.72	.98	1.12	5.19	10.5	6.28	8.75	1.92	7.56
MAX	1.2	1.1	1.0	.96	1.9	2.0	27	60	13	18	3.3	93
MIN	.64	.50	.52	.45	.54	.58	.82	.62	2.0	3.0	.99	.83
AC-FT	51	41	47	44	56	69	309	645	373	538	118	450

CAL YR 1979 TOTAL 964.62 MEAN 2.64 MAX 20 MIN .43 AC-FT 1910
WTR YR 1980 TOTAL 1382.06 MEAN 3.78 MAX 93 MIN .45 AC-FT 2740

093319500 CHRISTIANSEN WASH NEAR EMERY, UT--Continued

PERIOD OF RECORD.--October 1978 to current year.

SEDIMENT DATA: December 1978 to current year, monthly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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										
15...	1130	.74	4600	8.4	18.5	6.0	10.3	--	--	--
NOV										
13...	1225	.93	4620	8.1	12.0	.0	12.2	--	--	--
DEC										
15...	1500	1.5	2900	8.2	6.0	.5	12.2	8.6	K5	280
JAN										
18...	1300	.92	3800	8.1	4.0	2.0	11.0	--	--	--
FEB										
08...	1245	1.2	4500	8.4	-3.5	.0	11.8	--	--	--
MAR										
07...	1615	3.4	4800	8.4	6.5	4.0	10.5	11	260	7700
APR										
10...	1030	1.6	2560	8.3	14.0	5.5	10.1	--	--	--
MAY										
24...	1330	2.5	3500	8.4	12.0	10.0	8.9	--	--	--
JUN										
29...	1345	3.8	1870	8.6	34.0	24.0	6.8	4.5	290	3900
JUL										
14...	1400	15	910	8.5	23.0	18.0	7.7	--	--	--
AUG										
18...	1015	1.4	3050	8.5	13.5	12.5	8.7	--	--	--
SEP										
21...	1100	3.9	2320	8.3	13.0	9.5	9.2	4.5	150	1900

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)
OCT										
15...	1500	1100	220	240	640	47	7.1	650	9.1	480
NOV										
13...	1700	1300	220	270	560	68	6.0	570	9.1	520
DEC										
15...	1100	730	160	170	300	37	3.9	310	5.4	450
JAN										
18...	1300	940	170	220	450	42	5.4	460	7.9	440
FEB										
08...	1500	1100	160	260	580	46	6.6	590	6.6	470
MAR										
07...	1900	1400	250	300	560	39	5.7	570	9.8	640
APR										
10...	990	650	150	150	310	40	4.3	310	4.6	410
MAY										
24...	1400	1000	220	200	380	37	4.5	--	8.1	470
JUN										
29...	610	300	98	89	190	40	3.3	--	7.1	350
JUL										
14...	370	110	68	48	66	28	1.5	--	2.7	300
AUG										
18...	1200	850	170	180	330	38	4.2	--	6.3	400
SEP										
21...	860	520	130	130	230	37	3.4	--	5.2	410

09331950 CHRISTIANSEN WASH NEAR EMERY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CARBONATE (MG/L AS CO3)	ALKALINITY (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										
15...	4	400	3.1	2300	77	--	15	3740	5.09	7.47
NOV										
13...	0	430	6.6	2200	63	--	16	3590	4.88	9.01
DEC										
15...	0	370	4.5	1200	43	.6	14	2150	2.92	8.71
JAN										
18...	0	360	5.6	1700	71	--	11	2850	3.88	7.08
FEB										
08...	6	400	3.1	2300	87	--	15	3650	4.96	11.8
MAR										
07...	2	530	4.1	2500	100	.5	15	4100	5.58	37.6
APR										
10...	0	340	3.3	1200	42	--	8.3	2070	2.82	8.94
MAY										
24...	8	400	3.1	1700	60	--	11	2780	3.78	18.8
JUN										
29...	12	310	1.5	710	29	.4	11	1330	1.81	13.6
JUL										
14...	6	250	1.6	240	14	--	6.7	599	.81	24.6
AUG										
18...	12	350	2.1	1400	51	--	6.8	2350	3.20	8.95
SEP										
21...	0	340	3.3	940	36	.4	7.8	1700	2.31	17.9

DATE	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	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, NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT										
15...	--	--	--	--	--	--	--	--	--	--
NOV										
13...	--	--	--	--	--	--	--	--	--	--
DEC										
15...	7.6	33	.040	.13	7.6	.040	.05	.95	1.4	.41
JAN										
18...	--	--	--	--	--	--	--	--	--	--
FEB										
08...	--	--	--	--	--	--	--	--	--	--
MAR										
07...	8.7	39	.080	.26	8.8	.140	.18	2.5	10	7.4
APR										
10...	--	--	--	--	--	--	--	--	--	--
MAY										
24...	--	--	--	--	--	--	--	--	--	--
JUN										
29...	3.0	13	.040	.13	3.0	.010	.01	1.5	1.6	.10
JUL										
14...	--	--	--	--	--	--	--	--	--	--
AUG										
18...	--	--	--	--	--	--	--	--	--	--
SEP										
21...	3.7	16	.030	.10	3.7	.060	.08	.76	1.1	.28

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)
DEC					
15...	.99	.070	.21	.010	.03
MAR					
07...	2.6	0.300	19	.010	.03
JUN					
29...	1.5	.520	1.6	.030	.09
SEP					
21...	.82	.060	.18	.000	.00

09331950 CHRISTIANSEN WASH NEAR EMERY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCOTBER 1979 TO SEPTEMBER 1980

DATE	TIME	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)
DEC										
15...	1500	1	290	60	0	190	110	16	920	10
MAR										
07...	1615	1	420	30	0	280	250	17	3400	30
JUN										
29...	1345	2	320	20	0	110	20	6	1100	3
SEP										
21...	1100	1	240	50	1	150	60	7	1500	10

BENTHIC INVERTEBRATE ANALYSES OCTOBER 1979 TO SEPTEMBER 1980

Date:	Mar. 7, 1980	June 29, 1980	Sept. 21, 1980
Time:	1615	1345	1100
Total Count	136	419	1,198
Diversity Phylum .Class ..Order ...Family	2.4	1.5	1.4
Organism			
Annelida			
.Oligochaeta			
..Plesiopora			
...Enchytraeidae	26	5	22
...Lumbricidae			
...Naididae	-	-	1
...Tubificidae	4	24	28
Arthropoda			
.Crustacea			
..Copepoda			
...Cylclopidae	1	-	-
..Podocopa			
...Cypridae	1	-	-
.Arachnoidea			
..Hydracarina			
...Lebertiidae	-	-	1
.Insecta			
..Diptera			
...Ceratopogonidae	5	4	2
...Chironomidae	55	314	376
...Empididae	-	4	5
...Simuliidae	1	25	1
...Stratiomyidae	1	1	-
...Tabanidae	1	-	-
...Tipulidae	3	-	-
..Ephemeroptera			
...Baetidae	-	6	-
...Heptageniidae	-	-	2
..Odonata			
...Coenagrionidae	2	1	1
..Trichoptera			
...Hydropsychidae	32	29	734
...Hydroptilidae	-	6	6
...Limnephilidae	1	-	-
Nematoda			
.Asphasmidia			
..Enoplida			
...Dorycaimidae	3	-	19

09331950 CHRISTIANSEN WASH NEAR EMERY, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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
DEC											
15...	1500	1.5	.5	502	2.0	--	--	--	--	--	--
MAR											
07...	1615	3.4	4.0	7600	70	32	44	70	99	100	--
APR											
10...	1030	1.6	5.5	1710	7.4	42	56	73	97	100	--
30...	1430	3.4	10.0	824	7.6	67	75	86	98	99	100
MAY											
24...	1330	2.5	10.0	750	5.1	--	--	--	--	--	--
JUN											
29...	1345	3.8	24.0	511	5.2	--	--	--	--	--	--
SEP											
21...	1100	3.9	9.5	79	.83	--	--	--	--	--	--

09332100 MUDDY CREEK BELOW INTERSTATE HIGHWAY I-70, NEAR EMERY, UTAH

LOCATION.--Lat 38°48'44", long 111°11'53", in SW1/4NE1/4SW1/4 sec.13, T.23 S., R.6 E., Emery County, Hydrologic Unit 14070002, on left bank 0.1 mi (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.--18 years, 16.7 ft^3/s (0.473 m^3/s), 12,100 acre-ft/yr (14.9 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, 2,070 ft^3/s (58.6 m^3/s) July 17, 1974, gage height, 7.80 ft (2.377 m) from floodmark; from rating curve extended above 587 ft^3/s (16.6 m^3/s); no flow several days in 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 814 ft^3/s (23.1 m^3/s) Sept. 9, gage height, 4.58 ft (1.396 m); minimum discharge, 1.0 ft^3/s (0.028 m^3/s) Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.5	3.1	2.7	24	15	14	86	104	107	6.4	4.3
2	1.5	2.2	3.3	2.9	27	16	12	91	103	106	6.3	4.8
3	2.2	2.4	3.5	2.7	21	17	12	124	110	92	6.3	4.1
4	1.8	2.5	3.7	2.5	18	17	13	139	120	89	6.3	3.7
5	1.3	2.4	3.9	2.1	22	17	13	208	145	84	6.3	4.1
6	1.0	2.6	3.3	2.0	18	17	15	250	159	61	6.0	4.1
7	1.1	2.5	4.6	2.6	13	21	14	200	157	59	3.4	10
8	1.1	3.1	4.5	2.8	16	18	12	220	155	89	2.8	49
9	1.2	2.9	4.2	3.3	17	18	15	190	169	67	3.6	183
10	1.4	2.8	3.9	3.0	23	18	15	180	174	45	2.3	293
11	1.7	2.5	4.0	3.1	20	19	14	160	182	40	1.9	52
12	1.4	2.3	3.3	2.9	24	17	13	170	220	33	2.7	21
13	1.3	2.1	3.5	4.5	18	13	13	180	229	30	3.5	18
14	1.5	2.9	3.5	14	14	18	15	190	225	25	3.2	17
15	1.4	2.8	4.1	12	14	18	18	160	216	21	9.2	15
16	2.0	3.0	4.5	13	17	15	25	140	255	20	5.1	14
17	1.8	3.2	4.7	12	21	12	29	150	285	17	3.7	13
18	1.8	4.0	4.9	17	26	13	34	160	324	18	3.7	11
19	2.0	3.4	4.6	14	56	16	40	160	322	16	2.9	10
20	1.9	3.6	4.5	15	39	16	57	180	130	16	2.5	10
21	1.8	4.9	3.8	20	18	16	77	220	114	14	2.7	10
22	2.2	3.9	3.8	25	17	16	52	200	123	13	3.5	9.0
23	2.1	3.3	2.6	39	17	15	96	180	121	14	10	9.0
24	2.7	3.5	2.5	37	14	16	54	170	117	13	46	10
25	2.2	4.4	2.4	34	14	14	98	180	106	13	25	11
26	2.4	4.7	2.5	30	15	13	118	190	104	13	5.8	10
27	2.2	3.1	2.7	24	16	15	128	150	93	13	5.3	11
28	2.1	2.9	2.4	16	17	13	130	130	88	12	2.9	10
29	2.4	2.8	2.3	13	16	15	161	120	85	6.4	2.2	10
30	2.4	3.0	2.2	20	---	14	101	110	96	6.4	3.3	10
31	2.7	---	2.6	24	---	12	---	88	---	6.4	3.9	---
TOTAL	56.2	92.2	109.4	416.1	592	490	1408	5076	4831	1159.2	198.7	841.1
MEAN	1.81	3.07	3.53	13.4	20.4	15.8	46.9	164	161	37.4	6.41	28.0
MAX	2.7	4.9	4.9	39	56	21	161	250	324	107	46	293
MIN	1.0	2.1	2.2	2.0	13	12	12	86	85	6.4	1.9	3.7
AC-FT	111	183	217	825	1170	972	2790	10070	9580	2300	394	1670

CAL YR 1979 TOTAL 8496.0 MEAN 23.3 MAX 298 MIN 1.0 AC-FT 16850
WTR YR 1980 TOTAL 15269.9 MEAN 41.7 MAX 324 MIN 1.0 AC-FT 30290

09332700 MUDDY CREEK AT DELTA MINE,NEAR HANKSVILLE, UTAH

LOCATION.--Lat 38°33'47", long 110°57'13", in SE1/4NE1/4 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 poor.

AVERAGE DISCHARGE.--5 years, 23.2 ft^3/s (0.658 m^3/s), 16,820 acre-ft/yr (20.7 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.--Maximum discharge, 6,840 ft^3/s (193.7 m^3/s) Sept. 10, gage height, 9.60 ft (2.93 m) from rating curve extended on basis of slope-area measurement of peak flow; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	18	21	18	234	110	120	5.4	4.1
2	.00	.00	.00	.00	20	19	17	166	110	120	5.0	4.3
3	.00	.00	.00	.00	25	20	17	170	120	110	4.9	3.7
4	.00	.00	.00	.00	25	19	17	210	140	100	4.0	3.4
5	.00	.00	.00	.00	32	20	17	250	150	94	3.1	3.6
6	.00	.00	.00	.00	33	29	20	280	160	80	2.4	4.0
7	.00	.00	.00	.00	13	31	18	300	160	70	2.2	9.0
8	.00	.00	.00	.00	17	24	16	230	160	96	2.0	70
9	.00	.00	.00	.00	19	23	14	220	150	80	2.3	300
10	.00	.00	.00	.00	29	23	17	200	170	58	1.6	2800
11	.00	.20	.00	.00	30	24	20	190	190	47	1.2	230
12	.00	.10	.00	.00	27	22	18	200	230	40	2.1	40
13	.00	.10	.00	7.0	48	19	14	220	240	33	2.9	37
14	.00	.00	.00	15	70	22	13	230	250	28	2.6	34
15	.00	.00	.00	14	120	23	15	200	240	20	5.6	31
16	.00	.01	.00	16	254	21	18	180	270	13	4.0	29
17	.00	.00	.00	18	328	19	24	170	310	12	3.4	23
18	.00	.00	.00	19	288	20	27	180	340	11	2.8	19
19	.00	.00	.00	18	213	21	36	190	350	11	2.0	19
20	.00	.00	.00	23	124	21	53	200	180	11	1.9	16
21	.00	.00	.00	29	84	21	76	240	130	11	2.1	14
22	.00	.00	.00	35	82	21	100	257	140	10	3.3	11
23	.00	.00	.00	44	78	19	160	259	130	10	9.0	11
24	.00	.00	.00	43	74	20	215	209	120	10	54	13
25	.00	.00	.00	40	70	18	156	200	110	10	30	15
26	.00	.00	.00	38	72	17	290	220	110	10	6.0	13
27	.00	.00	.00	33	74	18	306	180	100	10	4.5	14
28	.00	.00	.00	23	78	17	229	140	94	9.0	2.5	13
29	.00	.00	.00	22	29	18	322	120	92	7.0	2.1	12
30	.00	.00	.00	17	---	17	290	110	110	6.0	2.5	11
31	.00	---	.00	18	---	16	---	110	---	5.6	3.7	---
TOTAL	.00	.41	.00	472.00	2374	643	2553	6265	5166	1252.6	181.1	3807.1
MEAN	.000	.014	.000	15.2	81.9	20.7	85.1	202	172	40.4	5.84	127
MAX	.00	.20	.00	44	328	31	322	300	350	120	54	2800
MIN	.00	.00	.00	.00	13	16	13	110	92	5.6	1.2	3.4
AC-FT	.00	.8	.00	936	4710	1280	5060	12430	10250	2480	359	7550

CAL YR 1979 TOTAL 9096.41 MEAN 24.9 MAX 388 MIN .00 AC-FT 18040
WTR YR 1980 TOTAL 22714.21 MEAN 62.1 MAX 2800 MIN .00 AC-FT 45050

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 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
JAN												
28...	1420	22	3120	8.4	4.5	1.0	780	560	130	110	310	46
MAR												
05...	1200	20	2770	8.1	11.0	5.0	830	620	150	110	360	48
APR												
09...	1200	13	2450	8.2	14.0	9.0	740	560	140	96	280	45
MAY												
08...	1130	203	1730	8.3	18.5	10.5	470	320	140	28	190	47
JUL												
11...	1130	47	1530	8.5	25.0	19.5	480	270	95	60	170	43
AUG												
06...	1600	2.3	3970	8.3	--	30.5	1100	950	210	130	550	53
SEP												
24...	1115	10	4220	8.0	25.0	15.0	1400	1300	370	120	500	43

DATE	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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)
JAN											
28...	4.8	310	3.9	220	1100	310	.4	11	2110	2.87	122
MAR											
05...	5.4	370	5.3	210	1000	220	.3	9.0	1990	2.71	106
APR											
09...	4.5	--	4.9	180	830	180	.5	9.0	1650	2.24	59.3
MAY											
08...	3.8	--	5.9	150	530	150	.4	7.2	1140	1.55	625
JUL											
11...	3.4	--	5.0	210	530	72	.5	8.4	1070	1.46	135
AUG											
06...	7.4	--	11	110	1400	430	.5	7.2	2810	3.82	17.5
SEP											
24...	5.8	--	11	150	1700	420	.4	11	3230	4.39	90.7

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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
JAN							
28...	1420	22	1.0	1890	110	42	48
MAR							
05...	1200	20	5.0	572	31	62	82
APR							
09...	1200	13	9.0	547	20	70	86
MAY							
08...	1130	203	10.5	14400	7890	30	41

DATE	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	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM
JAN						
28...	61	68	71	74	78	81
MAR						
05...	92	94	95	100	--	--
APR						
09...	95	96	96	99	100	--
MAY						
08...	59	84	96	99	100	--

09332800 MUDDY CREEK AT MOUTH, NEAR HANKSVILLE, UTAH

LOCATION.--Lat 38°24'10", long 110°42'00", in NW1/4NW1/4SE1/4 sec.3, T.28 S., R.11 E., Wayne County, Hydrologic Unit 14070002, on left bank upstream from bridge, 0.4 mi (0.6 km) upstream from mouth and 2.2 mi (3.5 km) north of Hanksville.

DRAINAGE AREA.--1,552 mi^2 (4,020 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to September 1980 (discontinued).

REVISED RECORDS.--WDR UT-77-1: 1976.

GAGE.--Water-stage recorder. Altitude of gage is 4,250 ft (1,295 m) from topographic map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--5 years, 28.99 ft^3/s (0.821 m^3/s), 21,000 acre-ft/yr (25.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,000 ft^3/s (141.6 m^3/s) Sept. 10, 1980, gage height, 7.70 ft (2.347 m) from floodmarks; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,000 ft^3/s (141.6 m^3/s) Sept. 10, gage height, 7.70 ft (2.347 m) from floodmarks; no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	26	25	21	290	120	130	.00	20
2	.00	.00	.00	.00	28	24	19	190	120	130	.00	24
3	.00	.00	.00	.00	29	23	19	200	130	120	.00	18
4	.00	.00	.00	.00	31	25	19	240	150	110	.00	16
5	.00	.00	.00	.00	24	26	20	280	160	100	.00	19
6	.00	.00	.00	.00	25	34	21	290	170	88	.00	25
7	.00	.00	.00	.00	17	35	19	270	170	80	.00	60
8	.00	.00	.00	.00	23	34	16	342	160	100	.00	400
9	.00	.00	.00	.00	30	28	18	316	150	90	.00	1200
10	.00	.00	.00	.00	32	26	21	260	190	72	.00	5000
11	.00	.00	.00	.00	33	28	20	206	210	52	.00	700
12	.00	.00	.00	3.5	31	27	22	230	240	43	1.5	90
13	.00	.00	.00	9.0	60	26	19	260	250	37	3.0	80
14	.00	.00	.00	18	80	28	18	280	260	30	2.8	75
15	.00	.00	.00	17	150	30	18	240	270	23	7.0	65
16	.00	.00	.00	19	290	29	16	220	290	16	5.0	60
17	.00	.00	.00	20	360	26	29	190	330	13	4.0	50
18	.00	.00	.00	21	330	27	35	210	350	10	3.0	40
19	.00	.00	.00	20	260	27	50	200	370	9.0	.00	40
20	.00	.00	.00	26	180	27	64	270	200	7.8	.00	35
21	.00	.00	.00	32	88	27	88	310	140	6.6	.00	30
22	.00	.00	.00	40	84	26	120	280	150	5.8	.00	25
23	.00	.00	.00	48	80	25	180	240	140	4.0	9.0	25
24	.00	.00	.00	45	76	26	240	210	130	3.4	60	28
25	.00	.00	.00	44	78	23	230	220	120	3.0	100	30
26	.00	.00	.00	43	80	21	320	260	120	2.6	50	28
27	.00	.00	.00	40	82	22	340	210	110	2.1	20	28
28	.00	.00	.00	33	40	21	300	170	110	1.2	15	26
29	.00	.00	.00	24	36	22	370	140	120	.40	13	24
30	.00	.00	.00	22	---	20	340	150	130	.20	15	22
31	.00	---	.00	25	---	19	---	130	---	.00	18	---
TOTAL	.00	.00	.00	549.50	2683	807	3012	7304	5560	1290.10	326.30	8283
MEAN	.000	.000	.000	17.7	92.5	26.0	100	236	185	41.6	10.5	276
MAX	.00	.00	.00	48	360	35	370	342	370	130	100	5000
MIN	.00	.00	.00	.00	17	19	16	130	110	.00	.00	16
AC-FT	.00	.00	.00	1090	5320	1600	5970	14490	11030	2560	647	16430

CAL YR 1979 TOTAL 8497.70 MEAN 23.3 MAX 460 MIN .00 AC-FT 16860
WTR YR 1980 TOTAL 29814.90 MEAN 81.5 MAX 5000 MIN .00 AC-FT 59140

09332800 MUDDY CREEK AT MOUTH, 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 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
FEB												
01...	1500	13	4990	8.0	7.0	5.5	1100	940	260	100	730	60
MAR												
04...	1700	25	4240	8.0	17.0	12.5	1100	880	240	110	590	55
APR												
08...	1630	16	4180	8.2	15.5	20.0	1000	890	230	110	590	55
MAY												
07...	1700	228	1880	8.0	--	17.5	630	470	180	44	180	38
JUN												
09...	1330	119	1430	8.4	29.5	21.5	410	210	96	42	150	44
JUL												
10...	1700	72	2780	8.1	--	29.5	970	820	230	95	260	37
SEP												
09...	1230	800	5390	7.4	19.0	15.5	1700	1700	570	76	650	45

DATE	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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)
FEB											
01...	9.8	740	8.0	120	1200	940	.3	10	3330	4.53	117
MAR											
04...	7.9	600	7.8	170	1400	570	.3	9.6	3030	4.12	206
APR											
08...	8.0	--	8.1	140	1300	600	.4	11	2940	4.00	129
MAY											
07...	3.1	--	7.7	160	660	150	.4	9.7	1330	1.81	819
JUN											
09...	3.2	--	3.9	200	380	120	.3	8.0	922	1.25	296
JUL											
10...	3.6	--	7.6	150	1100	130	.6	5.7	1930	2.62	376
SEP											
09...	6.8	--	18	72	2000	820	.0	7.2	4190	5.70	9050

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
FEB		
01...	.95	.010
MAR		
04...	.77	.000
APR		
08...	.78	.000
MAY		
07...	.37	.010
JUN		
09...	.41	.290
JUL		
10...	2.2	.020
SEP		
09...	1.3	.010

09332800 MUDDY CREEK AT MOUTH, NEAR HANKSVILLE, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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
APR												
08...	1630	16	20.0	1490	66	58	62	72	87	95	100	--
MAY												
07...	1700	228	17.5	34500	21200	45	54	78	93	99	100	--
JUN												
09...	1330	119	21.5	4860	1560	17	19	26	73	95	98	100
JUL												
10...	1700	72	29.5	15600	3030	58	74	90	93	99	100	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL 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	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
JUL												
10...	1700	72	29.5	1	8	40	77	89	93	96	99	100

09333500 DIRTY DEVIL RIVER ABOVE POISON SPRING WASH, NEAR HANKSVILLE, UTAH

LOCATION.--Lat 38°05'50", long 110°24'27" (unsurveyed), Garfield County, Hydrologic Unit 14070004, on right bank 1.0 mi (1.6 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.

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, 800 ft (240 m) upstream at datum 0.55 ft (0.168 m) higher.

REMARKS.--Records fair except for winter periods of no gage-height record, Aug. 30 to Sept. 30, which are poor. Many diversions for irrigation above station.

AVERAGE DISCHARGE.--32 years, 96.6 ft^3/s (2.74 m^3/s), 69,990 acre-ft/yr (86.3 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.--Peak discharge above base of 2,700 ft^3/s (76.5 m^3/s), and maximum discharge, 25,700 ft^3/s (728 m^3/s) Sept. 10, gage height 16.2 ft (4.94 m) from floodmarks, from slope-area measurement of peak flow; no flow for many days.

REVISIONS.--Revised daily discharges, in cubic feet per second, for period Nov. 3, 11-13, 1978 are given below. These figures supersede those published in the report for 1979.

Nov. 3, 1978	1,400	Nov. 12, 1978	2,540
Nov.11, 1978	1,030	Nov. 13, 1978	1,000

Revised peaks for water years 1977-79 are given below. These figures supersede those published in reports for 1977-79.

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage Height (ft)	Gage Height (m)
July 25, 1977	-	5,690	161	8.63	2.630
July 4, 1978	-	1,710	48.4	5.18	1.579
Nov. 3, 1978	1330	8,040	228	9.95	3.033
Nov. 12, 1978	1830	7,730	219	9.79	2.984
May 25, 1979	0900	2,320	65.7	5.93	1.807

MONTH	TOTAL	MEAN	MAX	MIN	ACRE-FEET
November 1978	10,385	346	2,540	57	20,600
Wtr. Yr 1979	34,198.08	93.7	2,540	.00	67,830
Cal. Yr 1978	41,253.70	113	2,540	.00	81,830

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	138	28	86	66	115	108	356	102	88	.00	130
2	.00	140	44	108	59	108	98	192	108	98	.00	130
3	.00	150	80	104	69	105	108	182	108	98	.00	130
4	.00	160	76	100	69	120	108	172	90	90	.00	130
5	.00	170	104	96	67	125	98	182	85	78	.00	140
6	.00	180	96	106	71	128	100	226	90	65	.00	160
7	.00	190	116	108	88	160	105	310	102	58	.00	300
8	.00	200	131	96	82	145	98	494	115	59	.00	1000
9	.00	180	112	108	73	218	98	285	118	52	.00	3000
10	.00	150	108	134	57	162	90	255	120	52	.00	10000
11	.00	130	106	178	52	142	85	210	130	70	.00	1000
12	.00	110	88	141	56	140	85	178	135	49	3.0	300
13	.00	95	46	106	63	140	85	168	160	51	4.0	250
14	.00	85	38	147	67	132	88	135	168	52	3.5	220
15	15	80	57	167	84	120	85	142	160	30	10	200
16	25	79	43	136	108	115	85	172	152	20	8.0	180
17	59	79	71	114	110	110	82	175	140	15	5.0	160
18	57	80	80	121	130	105	82	140	148	12	3.5	140
19	84	84	84	341	272	102	88	155	138	10	.00	120
20	43	106	92	271	385	100	102	145	145	9.0	.00	100
21	69	104	82	110	320	98	112	168	140	8.0	.00	90
22	88	86	94	82	192	130	152	222	125	7.0	.00	85
23	112	57	102	73	152	222	158	246	118	6.0	8.0	85
24	112	73	100	59	130	305	150	268	122	5.0	81	80
25	130	65	90	59	118	212	242	232	105	4.5	332	80
26	158	112	84	63	102	165	120	202	110	4.0	215	80
27	193	100	73	63	108	132	132	165	92	3.0	120	75
28	141	98	90	69	112	135	298	132	90	2.5	110	75
29	136	46	100	80	118	125	456	110	92	2.0	110	75
30	147	28	98	82	---	112	565	98	82	1.5	120	70
31	130	---	76	79	---	112	---	98	---	1.0	130	---
TOTAL	1699.00	3355	2589	3587	3380	4340	4263	6219	3590	1100.5	1263.00	18585
MEAN	54.8	112	83.5	116	117	140	142	201	120	35.5	40.7	620
MAX	193	200	131	341	385	305	565	494	168	98	332	10000
MIN	.00	28	28	59	52	98	82	98	82	1.0	.00	70
AC-FT	3370	6650	5140	7110	6700	8610	8460	12340	7120	2180	2510	36860

CAL YR 1979 TOTAL 29416.38 MEAN 80.6 MAX 975 MIN .00 AC-FT 58350
WTR YR 1980 TOTAL 53970.50 MEAN 147 MAX 10000 MIN .00 AC-FT 107100

09337000 PINE CREEK NEAR ESCALANTE, UTAH

LOCATION.--Lat 37°51'45", long 111°38'07", in SW1/4 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 for periods of no gage-height record, which are poor. No diversion above station. Some regulation from small reservoirs at headwaters.

AVERAGE DISCHARGE.--28 years, 4.36 ft^3/s (0.123 m^3/s), 3,160 acre-ft/yr (3.90 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.--Maximum discharge and peak above base of 100 ft^3/s (2.83 m^3/s), 131 ft^3/s (3.71 m^3/s) Sept. 10, gage height, 3.71 ft (1.13 m), minimum recorded discharge, 1.8 ft^3/s (0.051 m^3/s) Apr. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	2.5	2.4	2.7	2.7	2.7	2.8	9.7	17	9.4	6.8	5.2
2	2.8	2.5	2.4	2.7	2.7	2.7	2.8	9.4	15	11	8.4	4.8
3	2.7	2.5	2.4	2.7	2.7	2.7	2.9	8.9	19	9.7	7.0	4.8
4	2.8	2.4	2.4	2.7	2.7	2.7	2.9	9.4	23	9.1	6.5	4.8
5	2.8	2.5	2.4	2.7	2.7	2.7	3.0	11	25	8.1	6.5	4.6
6	2.7	2.6	2.4	2.7	2.7	2.7	3.0	11	22	6.1	6.5	4.7
7	2.7	3.3	2.4	2.7	2.7	2.7	3.2	12	20	5.6	6.3	7.8
8	2.7	3.9	2.4	2.7	2.7	2.8	3.5	12	18	6.6	6.1	24
9	2.7	2.8	2.4	2.7	2.7	2.8	3.6	12	17	7.1	5.8	20
10	2.7	2.7	2.5	2.7	2.7	2.8	4.2	11	15	6.1	6.1	56
11	2.7	2.4	2.5	2.7	2.7	2.8	3.8	12	13	5.6	6.1	13
12	2.7	2.4	2.5	2.7	2.7	2.8	3.5	11	11	5.4	6.3	11
13	2.7	2.4	2.5	2.7	2.7	2.8	3.8	10	9.7	5.8	8.1	9.4
14	2.7	2.4	2.5	2.7	2.7	2.8	4.5	11	8.9	8.9	9.1	6.3
15	2.7	2.4	2.5	2.7	2.7	2.7	5.2	11	8.3	8.9	8.1	5.1
16	2.7	2.4	2.5	2.8	2.7	2.7	5.4	11	7.6	8.9	7.8	4.5
17	2.7	2.4	2.5	2.8	2.7	2.7	5.8	12	7.6	8.3	7.6	4.2
18	2.7	2.4	2.6	2.8	2.7	2.7	6.8	13	7.1	8.1	7.3	4.0
19	2.7	2.4	2.6	2.8	2.7	2.7	7.1	13	6.6	7.6	6.1	3.8
20	2.7	2.4	2.6	2.8	2.7	2.7	8.1	16	6.1	7.3	6.3	3.8
21	2.6	2.4	2.6	2.8	2.7	2.7	8.6	23	5.8	5.9	6.1	4.0
22	2.6	2.4	2.6	2.8	2.7	2.7	8.3	25	5.8	5.9	5.9	4.0
23	2.6	2.4	2.6	2.8	2.7	2.7	7.6	22	5.8	6.0	6.1	4.0
24	2.6	2.4	2.7	2.8	2.7	2.7	6.6	14	5.6	6.1	6.1	3.8
25	2.5	2.4	2.7	2.8	2.7	2.7	7.6	16	5.6	6.2	6.3	3.8
26	2.5	2.4	2.7	2.8	2.7	2.7	8.6	16	5.6	6.2	6.1	3.6
27	2.5	2.4	2.7	2.8	2.7	2.7	9.1	15	5.5	6.1	5.9	3.6
28	2.5	2.4	2.7	2.8	2.7	2.7	9.4	17	5.5	6.1	5.6	3.6
29	2.5	2.4	2.7	2.8	2.7	2.8	12	16	5.8	6.1	5.4	3.6
30	2.5	2.4	2.7	2.8	---	2.8	11	17	6.1	6.3	5.4	3.6
31	2.5	---	2.7	2.8	---	2.8	---	18	---	6.3	5.4	---
TOTAL	82.3	75.7	78.8	85.3	78.3	84.7	174.7	425.4	334.0	220.8	203.1	239.4
MEAN	2.65	2.52	2.54	2.75	2.70	2.73	5.82	13.7	11.1	7.12	6.55	7.98
MAX	2.8	3.9	2.7	2.8	2.7	2.8	12	25	25	11	9.1	56
MIN	2.5	2.4	2.4	2.7	2.7	2.7	2.8	8.9	5.5	5.4	5.4	3.6
AC-FT	163	150	156	169	155	168	347	844	662	438	403	475

CAL YR 1979 TOTAL 3078.90 MEAN 8.44 MAX 79 MIN .80 AC-FT 6110
WTR YR 1980 TOTAL 2082.50 MEAN 5.69 MAX 56 MIN 2.4 AC-FT 4130

NOTE: No gage-height record Oct. 19 to Apr. 7.

09337500 ESCALANTE RIVER NEAR ESCALANTE, UTAH

LOCATION.--Lat 37°46'41", long 111°34'26", in NE1/4NW1/4SE1/4 sec.9, T.35 S., R.3 E., Garfield County, Hydrologic Unit 14070005, on left bank 150 ft (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) WRD Utah 1973.

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 good except for periods of no gage-height record, which are fair. Diversions above station for irrigation of about 2,300 acres (930 ha) of crop and pastureland.

AVERAGE DISCHARGE.--24 years (1909-12, 1942-55, 1972-80), 15.2 ft^3/s (0.43 m^3/s), 11,010 acre-ft/yr (13.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,450 ft^3/s (97.7 m^3/s) August 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, that of Dec. 24, 1978, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,400 ft^3/s (39.6 m^3/s) Sept. 10, gage height, 6.50 ft (1.98 m) from outside highwater mark; minimum discharge, 0.45 ft^3/s (0.013 m^3/s) July 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	5.2	3.9	4.1	6.6	7.2	7.7	35	22	12	11	2.2
2	3.5	6.1	3.9	4.1	7.0	12	7.7	34	25	14	22	1.7
3	4.3	5.6	3.9	4.1	7.3	16	4.7	20	27	10	22	1.6
4	3.5	5.6	3.9	4.1	7.4	15	5.6	19	32	5.6	6.1	1.7
5	3.2	7.7	3.9	4.1	7.3	11	14	15	34	7.2	6.1	1.6
6	3.9	6.6	3.9	4.2	7.2	18	22	7.7	30	6.1	7.4	2.2
7	3.5	8.3	3.9	4.2	8.3	14	25	14	27	5.2	8.6	7.7
8	3.9	11	3.9	4.3	5.2	6.1	17	21	24	31	5.6	122
9	3.5	10	3.9	4.4	7.2	5.2	18	25	23	11	3.5	234
10	3.9	7.7	3.9	4.4	10	6.6	32	21	21	12	1.8	270
11	3.9	5.2	4.0	4.6	12	15	25	12	20	10	1.8	34
12	3.9	5.2	4.0	4.7	13	11	25	10	19	11	2.0	26
13	4.0	5.4	4.0	4.8	15	5.6	26	8.9	18	17	5.6	23
14	3.5	5.6	4.0	4.9	23	7.7	27	8.9	18	15	4.7	24
15	3.5	5.5	4.0	4.9	26	8.9	28	9.5	17	9.5	2.4	15
16	3.9	5.4	4.0	4.9	18	8.9	54	9.5	17	8.9	1.8	13
17	3.9	5.2	4.0	4.9	30	4.3	60	12	16	4.3	1.7	10
18	4.3	5.2	4.0	4.8	36	8.3	62	14	16	5.2	1.7	9.0
19	4.7	4.7	4.0	4.7	48	13	60	12	16	4.3	1.7	8.6
20	4.3	4.3	4.0	4.3	39	11	61	17	16	3.5	1.7	8.5
21	4.7	3.9	4.0	4.2	28	8.3	62	27	16	4.3	1.8	8.5
22	5.2	3.9	4.0	4.3	22	14	59	25	17	5.6	1.8	8.4
23	5.6	3.9	4.1	4.6	12	14	59	21	17	8.9	2.4	8.4
24	5.6	3.9	4.1	4.8	10	8.8	59	19	17	8.3	3.2	8.0
25	6.1	3.9	4.2	5.0	10	8.8	47	19	18	11	2.2	7.9
26	6.1	3.8	4.1	5.1	12	3.5	52	19	15	20	2.0	7.8
27	6.2	3.8	4.1	5.3	12	4.7	46	19	11	40	1.8	7.8
28	6.6	3.8	4.1	6.0	12	7.7	41	19	9.5	6.1	1.7	7.8
29	7.2	3.9	4.1	6.5	14	8.3	31	19	8.3	8.3	1.8	7.8
30	6.6	3.9	4.1	6.7	---	3.9	31	20	6.1	9.5	2.0	7.8
31	5.2	---	4.1	6.7	---	5.2	---	20	---	8.3	2.4	---
TOTAL	142.1	164.2	124.0	148.7	465.5	292.0	1068.7	552.5	572.9	333.1	142.3	896.0
MEAN	4.58	5.47	4.00	4.80	16.1	9.42	35.6	17.8	19.1	10.7	4.59	29.9
MAX	7.2	11	4.2	6.7	48	18	62	35	34	40	22	270
MIN	3.2	3.8	3.9	4.1	5.2	3.5	4.7	7.7	6.1	3.5	1.7	1.6
AC-FT	282	326	246	295	923	579	2120	1100	1140	661	282	1780

CAL YR 1979 TOTAL 6225.1 MEAN 17.1 MAX 120 MIN 1.3 AC-FT 12350
WTR YR 1980 TOTAL 4902.0 MEAN 13.4 MAX 270 MIN 1.6 AC-FT 9720

NOTE: No gage-height record Nov. 21 to Feb. 4, and May 22 to June 23.

09368000 SAN JUAN RIVER AT SHIPROCK, NM

(National stream-quality accounting network, surveillance network, and radiochemical network station)

LOCATION.--Lat 36°47'32", long 108°43'54", in NW1/4 sec.27, T.30 N., R.18 W., San Juan County, Hydrologic Unit 14080105, on left bank 3 mi (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) National Geodetic Vertical Datum 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.--Water-discharge records good. 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.--54 years (water years 1927-80), 2,193 ft^3/s (62.11 m^3/s), 1,589,000 acre-ft/yr (1.96 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.--Peak discharges above base of 6,000 ft^3/s (170 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 23	2330	7,270	206	6.79	2.070
May 24	2245	7,060	200	6.78	2.067
June 13	0745	*11,000	312	7.86	2.396
Sept. 11	0815	6,020	170	6.48	1.975

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1100	1010	1900	2040	2180	2720	1640	5970	5610	3730	1170	1380
2	1110	930	2100	2050	2120	2660	1340	5520	5650	3680	1140	1300
3	1070	905	2120	2070	2070	2660	1150	5110	5160	3430	1140	1250
4	1070	896	2020	2050	2070	2650	952	5080	5350	3160	1230	1170
5	1060	902	2030	2030	2010	2610	1150	5400	5790	2980	1150	1200
6	1160	917	2050	2000	1960	2560	1330	5770	6550	2750	1130	1340
7	1130	970	2010	1990	1990	2540	1840	5890	7140	2530	1100	1370
8	954	1090	2030	2010	2030	2670	1660	6240	6910	2340	1070	1270
9	721	1220	2070	2020	2040	2680	1600	6170	6810	2490	1120	1400
10	507	1040	2090	2100	2040	2700	1760	5430	8190	2320	1230	2600
11	443	853	2100	2100	2070	3330	2140	4770	9440	2130	1170	4800
12	438	665	2110	2090	2040	3650	2090	4560	10200	1940	1080	3930
13	560	521	2080	2020	2030	3510	1830	4170	10400	1890	1040	2790
14	569	490	2150	2040	2030	3370	1760	3880	9740	1920	1030	2380
15	750	484	2090	2160	2160	3350	1900	3590	8980	1860	1140	2130
16	885	469	2070	2350	2690	3440	2370	3680	7780	1730	1140	1890
17	842	438	2090	2250	2800	3480	2960	3380	6960	1670	1200	1690
18	781	420	2090	2170	2570	3440	3510	3460	6500	1470	1220	1560
19	717	396	2090	2200	2670	3490	4260	3720	6470	1390	1200	1500
20	785	396	2110	2320	3790	3490	5060	3820	6540	1270	1200	1360
21	1510	373	2100	2400	3530	3550	5650	4490	6150	1170	1180	1260
22	1650	380	2150	2230	3260	3740	6150	5190	5860	1090	1130	1220
23	1370	538	2120	2190	2740	3790	6910	6280	5410	975	1190	1200
24	1260	547	2060	2150	2610	3760	6520	6710	5320	990	1370	1190
25	1100	552	2030	2110	2370	3450	5780	6310	5260	984	1720	1160
26	1190	588	2030	2070	2520	3090	5260	4970	4950	1060	2320	1170
27	1120	756	2190	2110	2620	2800	5190	4420	4820	1130	2210	1210
28	944	942	2140	2080	2610	2720	5380	4340	4600	1160	2030	1150
29	863	1150	2130	2080	2670	2330	5600	4650	4320	1090	1740	1110
30	881	1560	2080	2200	---	1870	5980	5160	3890	1080	1590	1090
31	964	---	2050	2280	---	1890	---	5410	---	1120	1470	---
TOTAL	29504	22398	64480	65960	70290	93990	100722	153540	196750	58529	40850	50070
MEAN	952	747	2080	2128	2424	3032	3357	4953	6558	1888	1318	1669
MAX	1650	1560	2190	2400	3790	3790	6910	6710	10400	3730	2320	4800
MIN	438	373	1900	1990	1960	1870	952	3380	3890	975	1030	1090
AC-FT	58520	44430	127900	130800	139400	186400	199800	304500	390300	116100	81030	99310

CAL YR 1979 TOTAL 1383633 MEAN 3791 MAX 13700 MIN 276 AC-FT 2744000
WTR YR 1980 TOTAL 947083 MEAN 2588 MAX 10400 MIN 373 AC-FT 1879000

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for New Mexico, 1980."

09378100 NORTH CREEK ABOVE RANGER STATION NEAR MONTICELLO, UTAH

LOCATION.--Lat 37°52'23", long 109°21'57", in SE1/4SW1/4 sec.26, T.33 S., R.23 E., San Juan County, Hydrologic Unit 14080203, on left bank 0.50 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 fair except for period of no gage-height record, which are poor. Diversions above the gage.

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)
May 11	1700	*69	1.95	5.99	1.826
May 23	1700	46	1.30	5.71	1.740
June 6	1000	37	1.05	5.58	1.701

No flow during many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.20	9.4	20	21	.00	.00
2	.00	.00	.00	.00	.00	.00	.30	9.1	18	12	.00	.00
3	.00	.00	.00	.00	.00	.00	.30	8.3	17	9.5	.00	.00
4	.00	.00	.00	.00	.00	.00	.30	8.3	15	7.9	.00	.00
5	.00	.00	.00	.00	.00	.00	.30	10	17	6.0	.00	.00
6	.00	.00	.00	.00	.00	.00	.40	20	22	4.9	.00	.00
7	.00	.00	.00	.00	.00	.00	.60	19	21	4.4	.00	.00
8	.00	.00	.00	.00	.00	.00	7.0	17	21	3.8	.00	.00
9	.00	.00	.00	.00	.00	.00	.80	15	25	1.9	.00	.00
10	.00	.00	.00	.00	.00	.00	1.0	15	29	.53	.00	.00
11	.00	.00	.00	.00	.00	.00	2.1	38	40	1.2	.00	.00
12	.00	.00	.00	.00	.00	.00	2.0	20	30	1.8	.00	.00
13	.00	.00	.00	.00	.00	.00	1.8	13	29	.28	.00	.00
14	.00	.00	.00	.00	.00	.00	1.2	11	21	.07	.00	.00
15	.00	.00	.00	.00	.00	.00	2.0	12	16	.03	.00	.00
16	.00	.00	.00	.00	.00	.00	3.0	10	14	.02	.00	.00
17	.00	.00	.00	.00	.00	.20	3.5	11	15	.02	.00	.00
18	.00	.00	.00	.00	.00	.30	4.0	10	19	.01	.00	.00
19	.00	.00	.00	.00	.00	.30	5.0	13	20	.00	.00	.00
20	.00	.00	.00	.00	.00	.30	6.0	17	19	.00	.00	.00
21	.00	.00	.00	.00	.00	.80	7.0	22	16	.00	.00	.00
22	.00	.00	.00	.00	.00	.40	20	38	16	.00	.00	.00
23	.00	.00	.00	.00	.00	.20	18	44	14	.00	.00	.00
24	.00	.00	.00	.00	.00	.20	11	41	12	.00	.00	.00
25	.00	.00	.00	.00	.00	.30	13	26	9.2	.00	.00	.00
26	.00	.00	.00	.00	.00	.30	15	18	8.6	.00	.00	.00
27	.00	.00	.00	.00	.00	.40	13	13	10	.00	.00	.00
28	.00	.00	.00	.00	.00	.60	12	9.3	10	.00	.00	.00
29	.00	.00	.00	.00	.00	.50	11	12	12	.00	.00	.00
30	.00	.00	.00	.00	---	.40	10	16	14	.00	.00	.00
31	.00	---	.00	.00	---	.30	---	18	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	5.50	171.80	543.4	549.8	75.36	.00	.00
MEAN	.000	.000	.000	.000	.000	.18	5.73	17.5	18.3	2.43	.000	.000
MAX	.00	.00	.00	.00	.00	.80	20	44	40	21	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.20	8.3	8.6	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	11	341	1080	1090	149	.00	.00

WTR YR 1980 TOTAL 1345.86 MEAN 3.68 MAX 44 MIN .00 AC-FT 2670

NOTE: No gage-height record Oct. 1 to Apr. 30.

09378200 MONTEZUMA CREEK AT GOLF COURSE, AT MONTICELLO, UTAH

LOCATION.--Lat 37°51'38", long 109°20'30" in SW1/4SE1/4 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 fair except those for period of no gage-height record, which are poor. There is a diversion 3/4 mile above gage.

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)
Apr. 22	unknown	220	6.23	unknown	-
May 6	1600	246	6.97	7.27	2.216
May 11	1800	*259	7.33	7.31	2.228
May 23	0200	124	3.51	6.65	2.027

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	1.4	54	56	25	.60	.00
2	.00	.00	.00	.00	.00	.00	1.5	51	52	12	.20	.00
3	.00	.00	.00	.00	.00	.00	1.6	51	48	11	.10	.00
4	.00	.00	.00	.00	.00	.00	1.6	45	44	9.5	.00	.00
5	.00	.00	.00	.00	.00	.00	1.8	55	48	7.8	.00	.00
6	.00	.00	.00	.00	.00	.00	2.0	109	60	7.4	.00	.00
7	.00	.00	.00	.00	.00	.00	2.1	132	54	7.1	.00	.00
8	.00	.00	.00	.00	.00	.00	2.1	100	54	6.5	.00	.00
9	.00	.00	.00	.00	.00	.00	7.1	96	70	6.6	.00	.00
10	.00	.00	.00	.00	.00	.00	10	75	80	6.5	.00	.00
11	.00	.00	.00	.00	.00	.00	12	139	90	6.4	.00	.00
12	.00	.00	.00	.00	.00	.00	11	92	66	7.1	.00	.00
13	.00	.00	.00	.00	.00	.00	9.0	41	49	7.3	.00	.00
14	.00	.00	.00	.00	.00	.50	7.0	34	39	7.1	.00	.00
15	.00	.00	.00	.00	.00	.60	10	36	34	6.0	.00	.00
16	.00	.00	.00	.00	.00	.70	15	35	28	5.3	.00	.00
17	.00	.00	.00	.00	.00	.70	35	33	25	3.9	.00	.00
18	.00	.00	.00	.00	.00	.90	70	32	28	2.7	.00	.00
19	.00	.00	.00	.00	.00	1.6	80	37	37	1.0	.00	.00
20	.00	.00	.00	.00	.00	2.3	90	45	33	.80	.00	.00
21	.00	.00	.00	.00	.00	3.1	150	64	26	.60	.00	.00
22	.00	.00	.00	.00	.00	3.1	220	86	23	.40	.00	.00
23	.00	.00	.00	.00	.00	2.5	110	98	18	.20	.00	.00
24	.00	.00	.00	.00	.00	2.3	70	90	16	5.2	.00	.00
25	.00	.00	.00	.00	.00	2.0	80	80	13	8.5	.00	.00
26	.00	.00	.00	.00	.00	2.1	90	58	13	6.5	.00	.00
27	.00	.00	.00	.00	.00	2.3	70	45	17	6.0	.00	.00
28	.00	.00	.00	.00	.00	2.4	60	31	16	5.7	.00	.00
29	.00	.00	.00	.00	.00	2.0	54	36	13	5.4	.00	.00
30	.00	.00	.00	.00	---	1.6	52	44	16	3.2	.00	.00
31	.00	---	.00	.00	---	1.2	---	52	---	1.8	.00	---
TOTAL	.00	.00	.00	.00	.00	31.90	1326.2	1980	1166	190.50	.90	.00
MEAN	.000	.000	.000	.000	.000	1.03	44.2	63.9	38.9	6.15	.029	.000
MAX	.00	.00	.00	.00	.00	3.1	220	139	90	25	.60	.00
MIN	.00	.00	.00	.00	.00	.00	1.4	31	13	.20	.00	.00
AC-FT	.00	.00	.00	.00	.00	63	2630	3930	2310	378	1.8	.00

WTR YR 1980 TOTAL 4695.50 MEAN 12.8 MAX 220 MIN .00 AC-FT 9310

Note: No gage-height record Oct. 1 to Apr. 20.

09378630 RECAPTURE CREEK NEAR BLANDING, UTAH

LOCATION.--Lat 37°45'20", long 109°28'33", in NW1/4NE1/4NW1/4 sec.11, T.35 S., R.22 E., San Juan County, Hydrologic Unit 14080201, on right bank 100 ft (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 good except those for winter period and period of no gage-height record Nov. 12 to May 16, which are poor. No diversion above station.

AVERAGE DISCHARGE.--15 years, 1.41 ft^3/s (0.040 m^3/s), 1,020 acre-ft/yr (1.26 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 discharge, 76 ft^3/s (2.15 m^3/s) May 8, gage height 1.74 ft (0.530 m) from floodmarks; minimum, no flow many days during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.06	.12	1.8	35	14	2.3	.02	.00
2	.00	.00	.00	.00	.08	.10	1.8	30	12	2.0	.02	.00
3	.00	.00	.00	.00	.10	.10	1.6	26	12	1.6	.02	.00
4	.00	.00	.00	.00	.10	.08	1.2	25	13	1.3	.02	.00
5	.00	.00	.00	.00	.10	.08	2.2	25	15	1.1	.02	.00
6	.00	.00	.00	.00	.08	.06	3.3	30	16	.81	.02	.00
7	.00	.00	.00	.00	.06	.06	4.0	39	14	.98	.02	.00
8	.00	.00	.00	.00	.06	.06	4.5	46	12	1.0	.01	.00
9	.00	.00	.00	.00	.04	.04	3.3	34	11	.67	.01	.00
10	.00	.00	.00	.00	.02	.12	2.8	26	14	.57	.01	.00
11	.00	.00	.00	.00	.02	.40	3.1	20	14	.49	.01	.00
12	.00	.00	.00	.00	.04	.60	2.2	17	12	.36	.01	.00
13	.00	.00	.00	.00	.04	.60	2.4	13	10	.35	.01	.00
14	.00	.00	.00	.00	.06	.80	3.0	12	8.7	.28	.13	.00
15	.00	.00	.00	.00	.08	.80	4.5	10	7.3	.13	.04	.00
16	.00	.00	.01	.00	.10	.60	5.2	9.4	6.9	.05	.01	.00
17	.00	.00	.01	.00	.40	.40	6.4	11	6.0	.03	.01	.00
18	.00	.00	.01	.00	1.6	.20	8.0	14	6.1	.03	.00	.00
19	.00	.00	.02	.00	2.6	.40	10	18	6.3	.02	.00	.00
20	.00	.00	.03	1.4	3.5	1.2	13	24	5.6	.02	.00	.00
21	.00	.00	.04	.40	3.2	1.4	19	30	4.9	.02	.00	.00
22	.00	.00	.04	.08	3.3	1.2	30	34	4.8	.03	.00	.00
23	.00	.00	.02	.06	1.4	.60	50	38	4.5	.03	.00	.00
24	.00	.00	.01	.06	1.0	.80	43	27	4.0	.04	.00	.00
25	.00	.00	.01	.08	.60	.80	35	16	3.4	.05	.00	.00
26	.00	.00	.01	.10	.40	.60	29	10	3.0	.03	.00	.00
27	.00	.00	.01	.08	.20	1.0	18	8.2	2.9	.02	.00	.00
28	.00	.00	.01	.08	.20	.80	32	8.7	2.8	.02	.00	.00
29	.00	.00	.00	.08	.20	.60	38	10	2.7	.02	.00	.00
30	.00	.00	.00	.06	---	.40	42	12	2.5	.02	.00	.00
31	.00	---	.00	.08	---	1.2	---	14	---	.02	.00	---
TOTAL	.00	.00	.23	2.56	19.64	16.22	420.3	672.3	251.4	14.39	.39	.00
MEAN	.000	.000	.007	.083	.68	.52	14.0	21.7	8.38	.46	.013	.000
MAX	.00	.00	.04	1.4	3.5	1.4	50	46	16	2.3	.13	.00
MIN	.00	.00	.00	.00	.02	.04	1.2	8.2	2.5	.02	.00	.00
AC-FT	.00	.00	.5	5.1	39	32	834	1330	499	29	.8	.00

CAL YR 1979 TOTAL 1354.32 MEAN 3.71 MAX 40 MIN .00 AC-FT 2690
WTR YR 1980 TOTAL 1397.43 MEAN 3.82 MAX 50 MIN .00 AC-FT 2770

09378650 RECAPTURE CREEK BELOW JOHNSON CREEK, NEAR BLANDING, UTAH

LOCATION.--Lat 37°40'51", long 109°27'43", in NW1/4NE1/4 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 good except those for winter period, which are poor.

AVERAGE DISCHARGE.--5 years, 11.3 ft^3/s (0.320 m^3/s), 8,190 acre-ft/yr (10.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 459 f^3/s (13.0 m^3/s) Apr. 28, 1979, gage height, 5.20 ft (1.585 m); no flow many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 255 ft^3/s (7.22 m^3/s) Apr. 23, gage height, 4.10 ft (1.250 m) from floodmarks; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	1.4	14	20	140	58	19	1.0	.00
2	.00	.00	.00	.00	1.4	13	19	120	55	18	.80	.00
3	.00	.00	.00	.00	1.4	12	17	110	54	18	.60	.00
4	.00	.00	.00	.00	1.8	11	16	96	54	18	.40	.00
5	.00	.00	.00	.00	1.8	10	24	96	54	18	.20	.00
6	.00	.00	.00	.00	1.4	10	40	110	54	17	.20	.00
7	.00	.00	.00	.00	1.2	10	52	120	52	16	.20	.00
8	.00	.00	.00	.00	1.0	9.0	70	140	51	16	.10	.00
9	.00	.00	.00	.00	1.2	10	52	130	51	17	.05	.00
10	.00	.00	.00	.00	1.2	10	54	110	51	16	.04	.00
11	.00	.00	.00	.00	1.4	11	53	100	50	16	.02	.00
12	.00	.00	.00	.00	1.4	12	41	90	47	15	.02	.00
13	.00	.00	.00	.00	1.4	12	47	70	43	16	.02	.00
14	.00	.00	.00	.00	2.0	13	69	50	36	15	.03	.00
15	.00	.00	.00	.00	2.9	13	76	40	29	15	.10	.00
16	.00	.00	.00	.00	2.2	12	80	45	24	17	.05	.00
17	.00	.00	.00	.05	3.0	11	80	44	22	13	.02	.00
18	.00	.00	.00	.10	4.0	12	100	47	21	12	.01	.00
19	.00	.00	.00	.20	7.0	13	110	57	21	7.0	.01	.00
20	.00	.00	.00	2.9	16	17	120	74	19	6.1	.01	.00
21	.00	.00	.00	1.2	15	18	130	105	19	5.0	.01	.00
22	.00	.00	.00	.96	16	17	150	126	18	4.0	.01	.00
23	.00	.00	.00	.60	15	13	180	139	17	3.0	.01	.00
24	.00	.00	.00	.80	14	14	160	94	16	2.5	.03	.00
25	.00	.00	.00	1.0	14	14	140	69	16	2.5	.02	.00
26	.00	.00	.00	1.4	14	13	130	57	17	2.2	.01	.00
27	.00	.00	.00	1.6	15	15	100	52	18	2.0	.01	.00
28	.00	.00	.00	1.6	14	12	120	53	17	1.8	.00	.00
29	.00	.00	.00	2.0	14	11	140	56	17	1.6	.00	.00
30	.00	.00	.00	1.8	---	15	160	58	17	1.4	.00	.00
31	.00	---	.00	1.4	---	20	---	60	---	1.4	.00	---
TOTAL	.00	.00	.00	17.61	186.1	397.0	2550	2658	1018	332.5	3.98	.00
MEAN	.000	.000	.000	.57	6.42	12.8	85.0	85.7	33.9	10.7	.13	.000
MAX	.00	.00	.00	2.9	16	20	180	140	58	19	1.0	.00
MIN	.00	.00	.00	.00	1.0	9.0	16	40	16	1.4	.00	.00
AC-FT	.00	.00	.00	35	369	787	5060	5270	2020	660	7.9	.00

CAL YR 1979 TOTAL 8763.71 MEAN 24.0 MAX 200 MIN .00 AC-FT 17380
WTR YR 1980 TOTAL 7163.19 MEAN 19.6 MAX 180 MIN .00 AC-FT 14210

09378700 COTTONWOOD WASH NEAR BLANDING, UTAH

LOCATION.--Lat 37°33'38", long 109°34'41", in SW1/4NE1/4NW1/4 sec.23, T.37 S., R.21 E., San Juan County, Hydrologic Unit 14080201, on downstream end of center pier of highway bridge on State Highway 95, about 2.1 mi (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) National Geodetic Vertical Datum 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 poor. No regulation or diversions above station.

AVERAGE DISCHARGE.--16 years, 8.96 ft^3/s (0.254 m^3/s), 6,490 acre-ft/yr (8.00 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, 952 ft^3/s (27.0 m^3/s) Feb. 20, gage height, 4.31 ft (1.31 m) from floodmarks; no flow for several days during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	3.7	2.6	5.8	40	40	130	20	3.9	.60	.00
2	.00	.00	3.7	2.9	5.8	37	36	120	20	4.3	.40	.00
3	.00	.10	4.0	2.6	5.8	36	34	110	20	3.4	.17	.00
4	.00	1.2	3.8	2.7	7.4	34	33	100	20	2.0	.10	.00
5	.00	5.4	3.8	2.6	7.4	27	39	100	20	.87	.10	.20
6	.00	1.4	3.8	3.0	7.0	27	50	120	18	.87	.07	.00
7	.00	1.1	3.8	3.2	6.8	27	64	150	18	.89	.06	.00
8	.00	4.4	4.0	3.1	6.2	24	66	170	11	1.2	.05	.00
9	.00	7.7	4.0	3.1	6.8	27	49	150	10	1.2	.04	.00
10	.00	4.2	3.6	3.4	6.8	27	52	130	10	.87	.03	19
11	.00	2.7	3.0	3.0	7.0	30	36	110	10	.87	.00	7.4
12	.00	2.4	2.9	3.1	7.0	28	31	100	10	.87	.00	1.0
13	.00	13	3.0	3.3	7.0	28	28	90	10	.87	.00	.50
14	.00	13	3.0	3.6	9.0	32	32	70	10	.86	2.4	.20
15	.00	14	3.2	3.5	25	33	44	52	10	.86	8.7	.10
16	.00	18	3.5	3.9	14	30	48	55	10	.86	.85	.05
17	.00	7.3	3.5	4.0	18	28	48	49	10	.60	.40	.00
18	.00	4.3	3.2	4.4	20	31	54	43	10	.40	.20	.00
19	.00	4.4	3.4	4.5	23	37	62	43	10	.30	.10	.00
20	.00	3.8	3.3	7.4	438	41	72	43	10	.30	.05	.00
21	.00	3.9	3.0	6.4	120	43	84	45	10	.20	.04	.00
22	.00	4.0	3.2	6.3	310	34	120	46	9.5	.10	.02	.00
23	.00	4.0	3.0	5.4	90	30	150	47	9.0	.10	.00	.00
24	.00	4.2	2.9	5.4	50	30	130	42	7.6	.10	.00	.00
25	.00	4.4	3.2	5.7	42	30	110	31	7.2	.10	.00	.00
26	.00	4.5	3.0	6.6	41	28	90	30	6.6	.40	.00	.00
27	.00	3.9	2.9	6.6	43	35	84	30	5.2	11	.00	.00
28	.00	3.8	3.1	6.6	41	31	100	30	4.9	1.0	.00	.00
29	.00	3.8	2.8	7.9	40	28	120	27	4.4	.86	.00	.00
30	.00	3.9	2.8	7.4	---	33	140	26	3.8	.86	.00	.00
31	.00	---	2.6	5.8	---	40	---	25	---	.86	.05	---
TOTAL	.00	148.80	102.7	140.0	1410.8	986	2046	2314	335.2	41.87	14.43	28.45
MEAN	.000	4.96	3.31	4.52	48.6	31.8	68.2	74.6	11.2	1.35	.47	.95
MAX	.00	18	4.0	7.9	438	43	150	170	20	11	8.7	19
MIN	.00	.00	2.6	2.6	5.8	24	28	25	3.8	.10	.00	.00
AC-FT	.00	295	204	278	2800	1960	4060	4590	665	83	29	56

CAL YR 1979 TOTAL 6895.16 MEAN 18.9 MAX 104 MIN .00 AC-FT 13680
WTR YR 1980 TOTAL 7568.25 MEAN 20.7 MAX 438 MIN .00 AC-FT 15010

09379500 SAN JUAN RIVER NEAR BLUFF, UTAH

LOCATION.--Lat 37°08'49", long 109°51'51", in SE1/4NE1/4NW1/4 sec.7, T.42 S., R.19 E., San Juan County, Hydrologic Unit 14080205, on left bank 1,600 ft (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.--66 years, 2,556 ft^3/s (72.39 m^3/s), 1,852,000 acre-ft/yr (2.28 km^3/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--1914-17, 1927-80; 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.--Peak discharge above base of 8,000 ft^3/s (227 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 20	1230	*13,000	368	12.01	3.661
Apr. 24	1000	9,650	273	10.26	3.127
May 9	1645	8,460	240	9.56	2.914
June 13	1045	9,480	268	10.16	3.097

Minimum discharge, 481 ft^3/s (13.6 m^3/s) Oct. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1110	895	1580	2110	2420	3120	2520	7890	5860	3660	1090	1420
2	1080	950	1820	2080	2280	3140	2400	7280	6020	3550	1120	1370
3	1070	948	1980	2110	2190	3040	2180	6650	5860	3570	1120	1310
4	1080	899	1990	2110	2170	3170	2080	6300	5640	3270	1070	1250
5	1070	904	2020	2110	2170	3240	2150	6400	5930	3020	1130	1200
6	1030	934	2020	2070	2160	3260	2760	6870	6460	2870	1100	1190
7	1140	919	2040	2060	2150	3240	3500	7340	7080	2600	1050	1290
8	1150	985	2010	2050	2170	3250	3540	7820	7410	2480	1020	1540
9	1090	1310	2010	2090	2190	3260	3090	8270	6950	2300	1000	1430
10	860	1470	2030	2770	2160	3180	3250	7800	7030	2390	1010	1830
11	785	1210	2030	2520	2140	3250	3770	6600	8020	2300	1090	3460
12	624	1050	2020	2590	2150	4020	3790	6320	8680	2120	1150	4670
13	550	863	2010	2520	2100	4010	3310	5990	9180	2050	1060	3360
14	563	740	1990	2410	2290	3740	2960	5210	8890	2010	1010	2590
15	608	684	2000	2770	4060	3640	3090	4670	8340	2050	1050	2240
16	616	669	1990	2710	3140	3810	3420	4420	7680	1990	1090	2060
17	776	672	1950	2780	3400	3990	3890	4650	6800	1910	1170	2000
18	853	667	1990	2870	3640	3770	4320	4160	6190	1890	1180	1750
19	836	657	2020	2970	4370	3700	4810	4230	6040	1610	1160	1600
20	810	697	2050	3130	8580	3970	5560	4370	6020	1440	1140	1570
21	1430	667	2050	2630	7150	4170	6520	4540	6060	1370	1130	1550
22	2440	677	2110	2600	8300	4500	7840	5210	5740	1330	1080	1540
23	1860	639	2130	2320	4990	4640	9150	6350	5470	1240	1090	1600
24	1300	701	2110	2220	3790	4270	9400	7260	5230	1150	1100	1510
25	1130	867	2060	2200	3300	4200	8500	7470	5100	1080	1540	1440
26	1020	918	2070	2160	2910	4010	7560	6540	5000	1090	1630	1440
27	1040	911	2330	2140	3000	3610	6820	5380	4710	1100	2040	1430
28	1020	1020	2350	2160	3030	3420	6730	4880	4600	1170	1900	1420
29	934	1140	2280	2290	3090	3380	7010	4760	4410	1240	1760	1230
30	1000	1270	2190	3010	---	2910	7550	5120	4050	1160	1590	1230
31	862	---	2140	2470	---	2540	---	5590	---	1100	1500	---
TOTAL	31737	26933	63370	75030	97490	111450	143470	186340	190450	62110	38190	53520
MEAN	1024	898	2044	2420	3362	3595	4782	6011	6348	2004	1232	1784
MAX	2440	1470	2350	3130	8580	4640	9400	8270	9180	3660	2040	4670
MIN	550	639	1580	2050	2100	2540	2080	4160	4050	1080	1000	1190
AC-FT	62950	53420	125700	148800	193400	221100	284600	369600	377800	123200	75750	106200

CAL YR 1979 TOTAL 1569042 MEAN 4299 MAX 15200 MIN 394 AC-FT 3112000
WTR YR 1980 TOTAL 1080090 MEAN 2951 MAX 9400 MIN 550 AC-FT 2142000

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 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 (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.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 36,000 mg/L Feb. 20; minimum daily mean, 380 mg/L Oct. 13, July 25.
SEDIMENT LOADS: Maximum daily, 834,000 tons (756,600 tonnes) Feb. 20; minimum daily, 564 tons (512 tonnes) Oct. 13.

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (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)
NOV											
16...	1100	670	1100	8.5	6.0	5.0	610	11.5	1.6	K70	770
DEC											
17...	1315	1800	470	8.3	1.0	1.5	46	12.6	.98	K10	K17
JAN											
24...	1245	2200	640	8.2	4.5	2.0	720	12.6	1.0	K11	710
FEB											
26...	1230	3060	1000	8.2	8.0	5.5	3300	12.9	1.2	260	510
MAR											
19...	1400	3660	740	8.0	12.5	6.5	370	9.4	1.1	K12	60
APR											
23...	1330	9040	520	7.7	16.0	11.5	2400	9.0	1.2	--	--
MAY											
20...	1430	4390	620	8.2	26.5	16.5	1000	7.7	.73	--	--
JUN											
24...	1400	5610	340	7.8	35.0	18.0	93	7.9	.75	87	93
JUL											
21...	1500	1380	590	8.2	35.5	25.5	--	7.3	--	60	710
AUG											
19...	1400	1170	680	8.3	29.5	20.0	250	7.6	.61	--	--
SEP											
16...	1300	2030	600	8.0	28.0	20.0	450	7.4	1.0	1100	1200

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
NOV											
16...	410	230	110	33	95	33	2.0	100	4.7	210	6
DEC											
17...	190	92	54	14	36	36	1.1	38	2.3	120	0
JAN											
24...	250	130	68	19	64	36	1.8	66	1.7	150	0
FEB											
26...	380	170	90	37	92	34	2.1	95	3.4	260	0
MAR											
19...	290	150	70	29	51	27	1.3	--	2.6	170	0
APR											
23...	200	110	54	17	34	26	1.0	--	2.8	--	--
MAY											
20...	240	84	60	21	38	26	1.1	--	2.2	190	0
JUN											
24...	130	7	38	8.6	16	21	.6	--	1.4	150	0
JUL											
21...	--	--	--	--	--	--	--	--	--	--	--
AUG											
19...	260	140	70	21	53	30	1.4	--	2.9	--	--
SEP											
16...	250	140	71	18	41	26	1.1	--	3.1	--	--

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

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	ALKA-LINITY (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)
NOV										
16...	182	1.1	400	26	.5	8.0	830	791	1.13	1500
DEC										
17...	98	1.0	160	12	.2	11	360	351	.49	1750
JAN										
24...	123	1.5	230	15	.4	11	504	486	.69	2990
FEB										
26...	213	2.6	350	32	.5	13	719	751	.98	5940
MAR										
19...	139	2.7	260	27	.3	10	540	537	.73	5340
APR										
23...	99	--	160	11	.3	9.2	355	350	.48	8660
MAY										
20...	156	1.9	180	16	.3	8.0	419	421	.57	4970
JUN										
24...	123	3.8	84	5.8	.2	6.4	210	235	.29	3180
JUL										
21...	--	--	--	--	--	--	--	--	--	--
AUG										
19...	120	--	240	16	.4	8.4	510	485	.69	1610
SEP										
16...	110	--	210	12	.4	9.6	427	433	.58	2340

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA 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)
NOV								
16...	1.1	1.0	.050	.040	.06	.05	2.2	.53
DEC								
17...	.46	.47	.000	.000	.00	.00	.57	.51
JAN								
24...	.73	.73	.030	.030	.04	.04	.67	.28
FEB								
26...	1.0	1.0	.080	.020	.10	.03	3.2	.16
MAR								
19...	.70	.71	.020	.040	.02	.05	1.3	.36
APR								
23...	.49	.47	.310	.030	.38	.04	4.4	.73
MAY								
20...	.42	.32	.010	.040	.01	.05	1.2	.37
JUN								
24...	.18	.18	.000	.020	.00	.03	.53	.55
AUG								
19...	.23	.22	.000	.000	.00	.00	1.3	.39
SEP								
16...	.38	.35	.000	.000	.00	.00	1.4	.69

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
NOV								
16...	2.2	1.6	.57	3.3	15	.280	.86	.020
DEC								
17...	.57	.06	.51	1.0	4.6	.100	.31	.020
JAN								
24...	.70	.39	.31	1.4	6.3	.150	.46	.030
FEB								
26...	3.3	3.1	.18	4.3	19	.020	.06	.050
MAR								
19...	1.3	.90	.40	2.0	8.9	.470	1.4	.040
APR								
23...	4.7	3.9	.76	5.2	23	3.300	10	.020
MAY								
20...	1.2	.79	.41	1.6	7.2	.690	2.1	.020
JUN								
24...	.53	.00	.57	.71	3.1	.260	.80	.030
AUG								
19...	1.3	.91	.39	1.5	6.8	.220	.67	.030
SEP								
16...	1.4	.71	.69	1.8	7.9	.530	1.6	.040

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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											
16...	1100	4	2	2	400	100	300	0	0	0	16
FEB											
26...	1230	7	5	2	1100	900	200	0	0	0	50
MAY											
20...	1430	6	4	2	600	500	100	0	--	<1	0
AUG											
19...	1400	3	1	2	300	100	200	0	--	<1	10

DATE	CHRO-MIUM, SUS-PENDED RECOV. (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										
16...	16	8	8	0	26	22	4	20000	20000	30
FEB										
26...	50	27	27	0	90	85	5	57000	57000	40
MAY										
20...	0	10	--	<3	15	8	7	18000	--	<10
AUG										
19...	0	3	--	<3	15	12	3	6300	--	<10

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)
NOV										
16...	22	20	2	420	410	10	.1	.1	.0	9
FEB										
26...	72	62	10	1800	1800	0	.2	.2	.0	43
MAY										
20...	19	17	2	750	--	<1	.1	.1	.0	21
AUG										
19...	19	19	0	260	--	<1	.1	.1	.0	8

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)	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										
16...	6	3	3	0	3	0	0	60	50	10
FEB										
26...	42	1	5	1	4	0	0	250	190	60
MAY										
20...	16	5	4	2	2	0	0	120	70	50
AUG										
19...	8	0	3	0	3	0	0	50	10	40

DATE	TIME	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)
NOV		
16...	1100	0
DEC		
17...	1315	0
FEB		
26...	1230	0
MAY		
20...	1430	0
JUN		
24...	1400	0
AUG		
19...	1400	0
SEP		
16...	1300	0

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)
NOV				
16...	1100	--	9.1	--
DEC				
17...	1315	6.8	--	--
JAN				
24...	1245	12	--	--
FEB				
26...	1230	--	20	1.8
MAR				
19...	1400	12	--	--
APR				
23...	1330	58	--	--
MAY				
20...	1430	--	4.6	4.3
JUN				
24...	1400	13	--	--
AUG				
19...	1400	--	4.5	1.6
SEP				
16...	1300	18	--	--

DATE	TIME	PCB TOTAL (UG/L)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	CHLOR-DANE, TOTAL (UG/L)	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
NOV											
16...	1100	--	ND	--	ND	--	ND	--	ND	--	ND
26...	1100	ND	--	ND	--	ND	--	ND	--	ND	--
FEB											
26...	1510	ND	--	ND	--	ND	--	ND	--	ND	--

DATE	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-AZINON, TOTAL (UG/L)	DI-AZINON, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-ELDRIN TOTAL (UG/L)	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR, TOTAL (UG/L)
NOV											
16...	--	ND	--	ND	--	ND	--	ND	--	ND	--
26...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
FEB											
26...	ND	--	ND	--	ND	--	ND	--	ND	--	ND

DATE	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	MALA-THION, TOTAL (UG/L)	MALA-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)	METHYL PARA-THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI-THION, TOTAL (UG/L)
NOV											
16...	ND	--	ND	--	ND	--	ND	--	--	ND	--
26...	--	ND	--	ND	--	ND	--	ND	ND	--	ND
FEB											
26...	--	ND	--	ND	--	ND	--	ND	ND	--	ND

DATE	METHYL TRI-THION, TOT. IN BOTTOM MATL. (UG/KG)	PARA-THION, TOTAL (UG/L)	PARA-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TOX-APHENE, TOTAL (UG/L)	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	TRI-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV										
16...	ND	--	ND	--	ND	--	ND	--	--	--
26...	--	ND	--	ND	--	ND	--	ND	ND	ND
FEB										
26...	--	ND	--	ND	--	ND	--	--	--	--

ND Material specifically analyzed for but not detected.

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
JUN						
24...	1400	.236	.157	.050	.000	1580
AUG						
19...	1400	4.49	2.76	1.01	.170	1713

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	NOV 16,79	MAR 19,80	MAY 20,80	JUN 24,80
TIME	1100	1400	1430	1400
TOTAL CELLS/ML	1000	1100	590	51
DIVERSITY: DIVISION	0.0	1.0	1.3	0.8
.CLASS	0.0	1.0	1.3	0.8
..ORDER	0.0	1.4	1.9	0.8
...FAMILY	1.1	3.1	3.2	1.5
....GENUS	1.1	3.3	3.2	1.5

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	--	-
...COELASTRACEAE								
....COELASTRUM	--	-	--	-	--	-	--	-
...MICRACTINIACEAE								
....GOLENKINIA	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	--	-	--	-	--	-
....CHODATELLA	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....SCENEDESMUS	--	-	--	-	69	12	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CARTERIA	--	-	--	-	14	2	--	-
....CHLAMYDOMONAS	--	-	14	1	--	-	13#	25
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...BIDDULPHIACEAE								
....BIDDULPHIA	--	-	--	-	69	12	--	-
...COSCINODISCACEAE								
....CYCLOTELLA	--	-	27	3	27	5	--	-
....MELOSIRA	--	-	69	6	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	14	2	--	-
....COCCONEIS	--	-	--	-	--	-	--	-
....RHOICOSPHENIA	--	-	--	-	--	-	--	-
...CYMBELLACEAE								
....AMPHORA	--	-	14	1	14	2	--	-
....CYMBELLA	100	10	82	8	--	-	--	-
....EPITHEMIA	--	-	--	-	--	-	--	-
...DIATOMACEAE								
....DIATOMA	--	-	82	8	96#	16	--	-
...FRAGILARIACEAE								
....SYNEDRA	--	-	--	-	41	7	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	41	4	--	-	--	-
...MERIDIONACEAE								
....MERIDION	--	-	27	3	--	-	--	-
...NAVICULACEAE								
....DIPLONEIS	--	-	--	-	--	-	--	-
....NAVICULA	760#	75	180#	17	55	9	13#	25
....PINNULARIA	--	-	--	-	14	2	--	-
...NITZSCHIACEAE								
....NITZSCHIA	150	15	190#	18	55	9	26#	50
...SURIRELLACEAE								
....SURIRELLA	--	-	27	3	--	-	--	-

See footnotes at end of table.

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	NOV 16,79	MAR 19,80	MAY 20,80	JUN 24,80
TIME	1100	1400	1430	1400
TOTAL CELLS/ML	1000	1100	590	51
DIVERSITY: DIVISION	0.0	1.0	1.3	0.8
.CLASS	0.0	1.0	1.3	0.8
..ORDER	0.0	1.4	1.9	0.8
...FAMILY	1.1	3.1	3.2	1.5
....GENUS	1.1	3.3	3.2	1.5

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	--	-	--	-
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	--	-	--	-
..HORMOGONALES								
...OSCILLATORIACEAE								
....LYNGBYA	--	-	--	-	120#	21	--	-
....OSCILLATORIA	--	-	--	-	--	-	--	-
....PHORMIDIUM	--	-	140	13	--	-	--	-
...RIVULARIACEAE								
....RAPHIDIOPSIS	--	-	180#	17	--	-	--	-

DATE	JUL 21,80	AUG 19,80	SEP 16,80
TIME	1500	1400	1300
TOTAL CELLS/ML	3500	4300	1200
DIVERSITY: DIVISION	0.9	1.3	1.2
.CLASS	0.9	1.3	1.2
..ORDER	1.1	1.9	1.4
...FAMILY	2.4	2.6	2.3
....GENUS	2.7	2.8	2.4

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...CHARACIACEAE						
....SCHROEDERIA	120	3	--	-	--	-
...COELASTRACEAE						
....COELASTRUM	600#	17	--	-	--	-
...MICRACTINIACEAE						
....GOLENKINIA	40	1	--	-	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	1500#	42	69	2	14	1
....CHODATELLA	20	1	23	1	--	-
....OOCYSTIS	140	4	140	3	--	-
...SCENEDESMACEAE						
....SCENEDESMUS	360	10	91	2	29	2
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CARTERIA	--	-	--	-	--	-
....CHLAMYDOMONAS	60	2	230	5	14	1
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...BIDDULPHIACEAE						
....BIDDULPHIA	--	-	--	-	--	-
...COSCINODISCACEAE						
....CYCLOTELLA	20	1	500	12	29	2
....MELOSIRA	--	-	110	3	--	-
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	--	-
....COCCONEIS	--	-	46	1	--	-
....RHOICOSPHENIA	--	-	23	1	--	-
...CYMBELLACEAE						
....AMPHORA	--	-	--	-	--	-
....CYMBELLA	--	-	69	2	14	1
....EPITHEMIA	--	-	--	-	14	1
...DIATOMACEAE						
....DIATOMA	--	-	23	1	29	2
...FRAGILARIACEAE						
....SYNEDRA	20	1	23	1	14	1
...GOMPHONEMATACEAE						
....GOMPHONEMA	--	-	--	-	43	4

See footnotes at end of table.

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

PHYTOPLANKTON ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	JUL 21,80	AUG 19,80	SEP 16,80
TIME	1500	1400	1300
TOTAL CELLS/ML	3500	4300	1200
DIVERSITY: DIVISION	0.9	1.3	1.2
.CLASS	0.9	1.3	1.2
..ORDER	1.1	1.9	1.4
...FAMILY	2.4	2.6	2.3
....GENUS	2.7	2.8	2.4

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
...MERIDIONACEAE						
....MERIDION	--	-	--	-	--	-
...NAVICULACEAE						
....DIPLONEIS	--	-	--	-	14	1
....NAVICULA	20	1	390	9	120	10
....PINNULARIA	--	-	--	-	--	-
...NITZSCHIACEAE						
....NITZSCHIA	380	11	1500#	35	260#	22
...SURIRELLACEAE						
....SURIRELLA	--	-	46	1	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
.CRYPTOPHYCEAE						
..CRYPTOMONADALES						
...CRYPTOCHRYSIDACEAE						
....CHROOMONAS	20	1	--	-	--	-
...CRYPTOMONADACEAE						
....CRYPTOMONAS	20	1	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	160	5	--	-	--	-
..HORMOGONALES						
...OSCILLATORIACEAE						
....LYNGBYA	--	-	--	-	580#	49
....OSCILLATORIA	--	-	1000#	23	--	-
....PHORMIDIUM	--	-	--	-	--	-
...RIVULARIACEAE						
....RAPHIDIOPSIS	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	440	1320	1700	4110	840	3580	620	3530	12700	83000	5000	42100
2	440	1280	1400	3590	930	4570	640	3590	13200	81300	4550	38600
3	450	1300	1500	3840	780	4170	650	3700	11800	69800	4150	34100
4	450	1310	1500	3640	750	4030	650	3700	10700	62700	3900	33400
5	450	1300	1400	3420	740	4040	660	3760	10400	60900	3800	33200
6	460	1280	1300	3280	710	3870	670	3740	10700	62400	2790	24600
7	500	1540	900	2230	710	3910	640	3560	12400	72000	2200	19200
8	500	1550	860	2290	740	4020	600	3320	12700	74400	2150	18900
9	500	1470	970	3430	700	3800	640	3610	12800	75700	2050	18000
10	460	1070	900	3570	730	4000	3300	24700	12600	73500	1800	15500
11	440	933	710	2320	690	3780	3540	24100	12500	72200	1800	15800
12	390	657	590	1670	690	3760	2700	18900	12500	72600	3100	33600
13	380	564	510	1190	700	3800	2540	17300	12000	68000	3300	35700
14	430	654	470	939	670	3600	2500	16300	12400	76700	2050	20700
15	450	739	480	886	680	3670	2820	21100	21000	230000	1950	19200
16	450	748	480	867	690	3710	2140	15700	12600	107000	2200	22600
17	510	1070	500	907	680	3580	1870	14000	15200	140000	2600	28000
18	550	1270	500	900	670	3600	1960	15200	15900	156000	2250	22900
19	540	1220	510	905	670	3650	2830	22700	18400	217000	2000	20000
20	590	1290	530	997	680	3760	5030	42500	36000	834000	2900	31100
21	2200	8490	480	864	690	3820	4620	32800	25800	498000	3600	40500
22	14600	96200	500	914	680	3870	4600	32300	28700	643000	4300	52200
23	13200	66300	490	845	700	4030	4410	27600	10000	135000	4200	52600
24	6600	23200	550	1040	670	3820	4210	25200	5500	56300	2200	25400
25	3400	10400	640	1500	650	3620	4180	24800	5800	51700	1450	16400
26	3800	10500	650	1610	620	3470	3900	22700	5600	44000	1350	14600
27	3400	9550	650	1600	730	4590	3880	22400	6400	51800	1100	10700
28	3200	8810	680	1870	750	4760	3890	22700	5800	47400	1550	14300
29	3200	8070	750	2310	680	4190	4800	29700	5300	44200	2100	19200
30	3300	8910	820	2810	670	3960	14900	121000	---	---	1950	15300
31	3000	6980	---	---	650	3760	---	---	---	---	1600	11000
TOTAL	---	279975	---	60344	---	120790	---	626210	---	4260600	---	799400

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	1350	9190	4700	100000	1350	21400	540	5340	430	1270	860	3300
2	1100	7130	3900	76700	1370	22300	530	5080	430	1300	850	3140
3	1050	6180	3400	61000	1410	22300	590	5690	430	1300	830	2940
4	1150	6460	2400	40800	1370	20900	560	4940	410	1180	820	2770
5	2200	12800	2700	46700	1460	23400	510	4160	420	1280	790	2560
6	5400	40200	3100	57500	1610	28100	530	4110	400	1190	790	2540
7	9900	93600	2000	39600	1800	34400	520	3650	390	1110	810	2820
8	10600	101000	2800	59100	1910	38200	530	3550	410	1130	960	3990
9	9000	75100	4100	91500	1770	33200	520	3230	410	1110	960	3710
10	10800	94800	3900	82100	1810	34400	530	3420	440	1200	4300	21200
11	12700	129000	2300	41000	1990	43100	530	3290	470	1380	14700	137000
12	11300	116000	2500	42700	2220	52000	470	2690	560	1740	14700	185000
13	8400	75100	1700	27500	2360	58500	470	2600	550	1570	9700	88000
14	6200	49600	1200	16900	2270	54500	480	2600	560	1530	5300	37100
15	5800	48400	1700	21400	2060	46400	490	2710	610	1730	3300	20000
16	6500	60000	1800	21500	1770	36700	470	2530	600	1770	2200	12200
17	8800	92400	1700	21300	1530	28100	480	2480	730	2310	1400	7560
18	7500	87500	2100	23600	1340	22400	540	2760	740	2360	820	3870
19	7700	100000	2700	30800	1290	21000	480	2090	740	2360	730	3150
20	7000	105000	2500	29500	1240	20200	480	1870	740	2280	740	3140
21	5900	104000	1400	17200	1160	19000	440	1630	760	2320	720	3010
22	6500	138000	2600	36600	1040	16100	430	1540	790	2300	660	2740
23	10500	259000	3700	63400	970	14300	430	1440	740	2180	690	2980
24	9100	231000	5400	106000	990	14000	400	1240	800	2380	690	2810
25	7000	161000	6300	127000	1000	13800	380	1110	1030	4280	660	2570
26	5500	112000	4900	86500	970	13100	390	1150	1130	4970	670	2600
27	4200	77300	2900	42100	830	10600	400	1190	1260	6940	660	2550
28	3600	65400	1600	21100	860	10700	430	1360	1180	6050	660	2530
29	3500	66200	1170	15000	830	9880	460	1540	1090	5180	590	1960
30	5300	108000	1220	16900	670	7330	410	1280	960	4120	560	1860
31	---	---	1330	20100	---	---	420	1250	880	3560	---	---
TOTAL	---	2631360	---	1483100	---	790310	---	83520	---	75380	---	571600

TOTAL LOAD FOR YEAR: 11782589 TONS.

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
NOV						
16...	1100	670	5.0	98	1210	2190
DEC						
17...	1315	1800	1.5	11	1870	9090
JAN						
24...	1245	2200	2.0	67	2440	14500
FEB						
26...	1230	3060	5.5	86	5760	47600
APR						
23...	1330	9040	11.5	77	9960	243000
MAY						
20...	1430	4390	16.5	62	1980	23500
JUN						
24...	1400	5610	18.0	46	1120	17000
AUG						
19...	1400	1170	20.0	97	478	1510
SEP						
16...	1300	2030	20.0	39	3030	16600

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL 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
JAN								
23...	1230	--	--	43	91	98	99	100

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 National Geodetic Vertical Datum 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 U.S. Water and Power Resources Service (formerly 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, 25,099,000 acre-ft (30,900 hm^3) June 28, elevation, 3,700.61 ft (1,127.946 m); minimum, 20,808,000 acre-ft (25,700 hm^3) Dec. 21, elevation, 3,672.36 ft (1,119.335 m).

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

3,670	20,474,000	3,690	23,424,000
3,675	21,187,000	3,695	24,204,000
3,680	21,916,000	3,700	25,002,000
3,685	22,662,000	3,705	25,818,000

RESERVOIR STORAGE, IN THOUSANDS OF ACRE FEET, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21600	21300	20900	20900	20900	21100	21200	21600	23800	25100	24400	23500
2	21600	21300	20900	20900	20900	21100	21200	21700	23800	25100	24300	23500
3	21600	21300	20900	20900	20900	21100	21200	21800	23900	25100	24300	23400
4	21600	21300	20900	20900	20900	21100	21200	21800	23900	25100	24300	23400
5	21600	21300	20900	20800	20900	21100	21200	21900	24000	25100	24300	23400
6	21600	21200	20900	20900	20900	21100	21200	21900	24000	25000	24200	23400
7	21600	21200	20900	20800	20900	21200	21200	22000	24100	25000	24200	23400
8	21600	21200	20900	20800	20900	21200	21200	22100	24100	25000	24200	23300
9	21600	21200	20900	20800	20900	21200	21700	22200	24200	25000	24100	23300
10	21500	21200	20900	20800	20900	21200	21700	22200	24300	25000	24100	23300
11	21500	21200	20900	20800	20900	21200	21700	22300	24300	25000	24100	23300
12	21500	21200	20800	20800	20900	21200	21700	22400	24400	25000	24000	23300
13	21500	21200	20800	20900	20800	21200	21700	22500	24400	24900	24000	23300
14	21500	21200	20800	20900	20800	21200	21600	22600	24500	24900	23900	23300
15	21500	21100	20800	20900	20800	21200	21700	22600	24600	24900	23900	23300
16	21500	21100	20800	20900	20800	21200	21600	22700	24700	24900	23900	23300
17	21500	21100	20800	20900	20900	21200	21700	22800	24700	24900	23800	23300
18	21500	21100	20800	20900	20900	21200	21600	22800	24800	24800	23800	23300
19	21500	21100	20800	20900	20900	21200	21600	22900	24800	24800	23800	23300
20	21500	21100	20800	20900	20900	21200	21600	22900	24900	24800	23700	23200
21	21500	21100	20800	20900	20900	21200	21600	23000	24900	24800	23700	23200
22	21500	21100	20800	20900	20900	21200	21600	23000	25000	24700	23700	23200
23	21400	21100	20800	20900	21000	21200	21600	23100	25000	24700	23700	23200
24	21400	21000	20800	20900	21000	21200	21600	23200	25100	24700	23600	23200
25	21400	21000	20800	20900	21000	21200	21600	23300	25100	24600	23600	23200
26	21400	21000	20800	20900	21000	21200	21600	23400	25100	24600	23600	23100
27	21400	21000	20800	20900	21000	21200	21600	23400	25100	24600	23600	23100
28	21400	21000	20800	20900	21100	21300	21600	23500	25100	24500	23500	23100
29	21400	21000	20800	20900	21100	21300	21600	23600	25100	24500	23500	23100
30	21400	21000	20800	20900	---	21300	21600	23600	25100	24500	23500	23100
31	21300	---	20900	20900	---	21300	---	23700	---	24400	23500	---
MAX	21600	21300	20900	20900	21100	21300	21700	23700	25100	25100	24400	23500
MIN	21300	21000	20800	20800	20800	21100	21200	21600	23800	24400	23500	23100
(†)	3676.13	3673.50	3672.68	3673.03	3674.26	3675.54	3677.64	3691.72	3700.50	3696.40	3690.48	3687.78
(‡)	-287000	-379000	-117000	+50000	+176000	+185000	+305000	+2120000	+1393000	-657000	-928000	-414000

CAL YR . . . . . (‡) +5168000
WTR YR . . . . . (‡) +1447000

Elevation, in feet, at end of month.
Change in contents, in acre-feet

NOTE.--All figures of contents expressed in thousands.

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 NE1/4SE1/4 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) National Geodetic Vertical Datum of 1929. Prior to Jan. 19, 1923, nonrecording 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); 16 years (water years 1965-80), 12,260 ft^3/s (347.2 m^3/s), 8,882,000 acre-ft/yr (11,000 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, 44,800 ft^3/s (1,270 m^3/s) June 24, gage height, 13.87 ft (4.228 m); minimum daily, 1,130 ft^3/s (32.0 m^3/s) Jan. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9500	17600	15200	2650	13100	7650	15300	14100	12000	34200	24100	15300
2	12800	18000	15500	8560	10400	4460	15200	11500	18900	31400	24500	18400
3	11300	14800	14300	9480	6610	6810	11100	11700	19100	29100	22500	14700
4	9470	13000	13600	10200	8950	9520	12900	8810	18100	27000	22500	20800
5	11100	15500	9520	10700	12300	9810	9680	10700	21600	27700	22600	19900
6	8450	17200	12100	6670	12100	7240	9700	12500	21700	28000	22800	16100
7	5060	17800	12800	12900	8450	6020	14100	11600	20300	28800	22800	17900
8	11500	14300	9770	14400	11300	7660	18200	11200	20900	27900	19400	19300
9	12700	17600	7600	16500	14200	3680	13600	10100	24800	25500	25100	19100
10	14100	15200	17200	7910	13400	11000	15000	8450	26200	26600	22800	18700
11	15600	5900	18300	10500	12700	12600	17400	7230	26400	25800	23600	19200
12	13700	12900	16200	3680	10100	8900	11900	9840	25800	26100	24000	19900
13	9170	13800	16000	1130	11300	8050	20800	10800	28100	24600	23800	15100
14	3910	14100	14300	2150	12300	8610	17800	15700	29600	24400	24000	13800
15	5980	13400	7600	5190	12700	9540	16900	12000	23900	23800	23200	18000
16	5720	11400	6380	6800	10600	9490	18200	12800	26900	26400	21100	16500
17	7040	8400	8220	8130	7780	12700	15200	16800	30700	25100	20800	14000
18	7910	6640	10300	12300	12200	11500	15900	16900	29700	24300	21200	16600
19	7300	11200	9920	14000	8780	14700	9910	19400	25200	23100	20600	18000
20	2980	18500	10100	10600	10800	14300	6750	12800	21700	23300	20900	16700
21	4310	14700	10000	14800	13200	12700	11300	11800	6880	23700	16000	14300
22	10500	9550	5120	10200	13300	8660	13400	11900	13400	23500	20700	15900
23	15200	7910	6560	10300	11000	9380	17600	16800	24400	24500	20800	15600
24	14100	14200	8960	8140	9050	13600	17800	16800	32800	24100	18900	15200
25	9380	12700	2020	5810	11200	16200	18500	11100	25300	22800	19700	14100
26	9700	13200	10400	8880	8510	15700	14300	15800	31100	22500	15200	11600
27	6230	11200	11400	7090	9370	11400	11200	19000	34500	24400	18800	14600
28	7580	12600	12500	14000	7320	7550	16200	19000	34100	25300	16200	14200
29	16100	14500	4790	17100	7170	6130	14000	19600	34200	24800	15400	16800
30	18400	16500	2530	18800	---	5310	15300	20500	33900	25500	15400	14400
31	14700	---	2130	15000	---	14500	---	19000	---	24900	15200	---
TOTAL	311490	404300	321320	304570	310190	305370	435140	426230	742180	799100	644600	494700
MEAN	10050	13480	10370	9825	10700	9851	14500	13750	24740	25780	20790	16490
MAX	18400	18500	18300	18800	14200	16200	20800	20500	34500	34200	25100	20800
MIN	2980	5900	2020	1130	6610	3680	6750	7230	6880	22500	15200	11600
AC-FT	617800	801900	637300	604100	615300	605700	863100	845400	1472000	1585000	1279000	981200

CAL YR 1979 TOTAL 4088220 MEAN 11200 MAX 23600 MIN 878 AC-FT 8109000
WTR YR 1980 TOTAL 5499190 MEAN 15030 MAX 34500 MIN 1130 AC-FT 10910000

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Arizona, 1980."

09382000 PARIA RIVER AT LEES FERRY, AZ

LOCATION.--Lat 36°52'20", long 111°35'38", in NW1/4NE1/4 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 3,123.40 ft (952.012 m) National Geodetic Vertical Datum 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 good. Diversions above station for irrigation of about 3,300 acres (13.4 km^2).

AVERAGE DISCHARGE.--57 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.--Maximum discharge (*) (from slope-area measurement of peak flow) and peak discharges above base of 1,400 ft^3/s (39.6 m^3/s):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 20	0530	5,020	142	13.92	4.243
Feb. 22	0700	1,460	41.3	9.70	2.957
Sept. 9	0500	*8,520	241	16.65	5.075
Sept. 10	1130	7,320	207	15.82	4.822

Minimum daily, 4.0 ft^3/s (0.113 m^3/s) Aug. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	15	18	28	30	122	42	90	10	30	29	5.0
2	5.5	18	20	20	30	104	46	63	10	18	7.6	4.5
3	6.0	18	20	21	30	122	43	56	10	8.2	134	4.5
4	6.0	21	22	22	40	140	43	45	10	5.0	50	4.5
5	6.5	20	28	21	38	90	59	47	7.6	5.0	19	5.5
6	6.0	21	37	24	45	75	86	40	7.6	5.0	9.4	6.0
7	6.5	22	30	24	57	169	108	59	8.2	5.0	7.6	6.5
8	6.5	49	24	25	53	136	69	66	8.8	30	6.5	50
9	6.5	74	23	30	42	80	54	57	8.2	22	5.5	2600
10	6.5	50	21	59	34	72	76	46	9.4	24	5.5	2700
11	6.0	40	24	94	28	70	94	40	10	12	5.0	392
12	6.0	30	17	30	20	144	64	43	9.4	10	4.5	78
13	6.0	30	6.0	53	14	84	43	40	9.4	10	4.0	62
14	6.0	20	6.0	45	25	57	49	40	9.4	10	6.5	26
15	5.5	20	12	129	672	68	60	64	8.2	10	20	20
16	5.5	20	26	52	248	69	77	63	10	5.0	10	22
17	6.2	18	30	52	217	53	75	50	11	5.0	10	22
18	7.0	23	22	138	248	41	70	40	10	5.0	10	21
19	7.6	31	27	130	673	41	76	30	10	5.0	10	19
20	11	30	42	50	1670	45	80	20	10	5.0	10	18
21	16	20	34	20	650	52	82	20	10	5.0	10	18
22	19	17	19	20	794	90	80	20	10	5.0	10	16
23	20	20	24	20	331	136	72	20	10	5.0	10	15
24	21	26	34	20	208	165	56	20	10	5.0	134	19
25	19	21	38	20	175	159	43	10	10	5.0	93	22
26	17	22	32	20	172	90	42	10	10	5.0	56	18
27	16	21	19	20	160	57	41	10	10	15	17	18
28	16	17	16	20	152	56	41	10	10	10	11	18
29	16	19	23	77	148	47	47	10	10	10	7.0	17
30	15	18	24	209	---	47	146	10	7.6	10	5.0	17
31	14	---	25	68	---	54	---	10	---	39	5.0	---
TOTAL	316.8	771	743.0	1561	7004	2735	1964	1149	284.8	343.2	722.1	6244.5
MEAN	10.2	25.7	24.0	50.4	242	88.2	65.5	37.1	9.49	11.1	23.3	208
MAX	21	74	42	209	1670	169	146	90	11	39	134	2700
MIN	5.0	15	6.0	20	14	41	41	10	7.6	5.0	4.0	4.5
AC-FT	628	1530	1470	3100	13890	5420	3900	2280	565	681	1430	12390

CAL YR 1979 TOTAL 15846.0 MEAN 43.4 MAX 693 MIN 1.6 AC-FT 31430
WTR YR 1980 TOTAL 23838.4 MEAN 65.1 MAX 2700 MIN 4.0 AC-FT 47280

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Arizona, 1980."

09403600 KANAB CREEK NEAR KANAB, UTAH

LOCATION.--Lat 37°06'02", long 112°32'50" in NE1/4NE1/4SW1/4 sec.5, T.43 S., R.6 W., Kane County, Hydrologic Unit 15010003, at upstream edge of left bridge pier on U.S. Highway 89, 300 feet (91 m) upstream from Tiny Canyon and 3.5 miles (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 discharges 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)
Feb. 18	2130	332	9.40	1.80	0.549
Apr. 6	2245	*1,060	30.00	2.61	0.796
Sept. 10	0530	716	20.30	*3.77	1.149

Minimum discharge, 3.4 ft^3/s (0.10 m^3/s) Nov. 11, 1979.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	4.9	15	21	9.1	33	138	61	12	9.7	7.7	6.9
2	6.6	6.6	15	20	10	30	135	56	12	9.2	9.2	7.3
3	6.6	6.6	14	19	9.1	32	155	42	12	8.8	9.6	7.3
4	6.6	6.3	14	19	8.8	30	222	42	12	7.3	9.6	6.6
5	7.0	7.1	16	18	8.0	29	249	44	12	9.2	9.6	6.6
6	7.0	6.5	16	16	8.1	33	354	45	12	8.4	9.4	7.6
7	7.0	6.5	17	16	8.7	31	196	40	11	8.4	9.2	8.4
8	7.0	6.7	18	17	8.7	28	145	40	11	8.4	9.0	18
9	7.0	5.7	17	18	10	25	179	34	11	8.4	8.4	23
10	7.0	4.3	17	17	12	26	228	31	11	8.4	12	47
11	7.0	4.7	17	15	11	32	152	36	10	8.4	11	18
12	7.0	6.4	22	14	9.4	30	111	37	10	8.4	7.2	18
13	7.0	7.7	33	15	11	23	113	34	10	8.4	8.0	17
14	7.0	6.1	32	15	98	23	147	31	10	8.4	8.5	16
15	7.0	7.3	30	8.2	93	42	175	35	10	8.4	11	16
16	7.0	7.6	28	9.4	92	39	152	28	10	8.4	6.6	15
17	7.0	9.2	23	10	102	28	124	24	9.6	8.4	8.9	15
18	7.0	8.8	25	12	140	34	103	22	9.6	8.4	6.2	14
19	7.0	8.4	23	10	178	32	96	19	9.6	8.6	6.2	14
20	8.6	6.9	23	9.1	84	49	85	17	9.6	8.6	8.4	14
21	8.0	9.7	21	8.3	55	70	82	15	9.6	8.6	5.2	14
22	7.6	11	21	7.3	49	49	70	12	9.2	8.6	5.2	13
23	7.4	9.2	23	7.7	47	50	76	13	9.2	8.6	4.8	13
24	7.1	10	23	8.7	47	63	69	12	9.2	8.6	4.8	13
25	8.0	11	26	9.8	42	63	70	13	9.2	8.6	7.3	13
26	7.7	10	25	9.0	42	70	73	13	9.2	9.0	8.8	13
27	8.3	12	25	7.8	38	82	63	11	9.2	9.5	8.0	13
28	8.8	12	25	11	40	90	66	11	6.2	9.9	6.6	13
29	6.7	13	26	11	38	94	67	13	6.9	9.5	5.5	13
30	6.4	14	23	8.3	---	122	63	13	8.4	9.5	7.3	13
31	5.8	---	21	8.2	---	124	---	13	---	9.3	7.6	---
TOTAL	221.8	246.2	674	395.8	1308.9	1506	3958	857	300.7	270.3	246.8	426.7
MEAN	7.15	8.21	21.7	12.8	45.1	48.6	132	27.6	10.0	8.72	7.96	14.2
MAX	8.8	14	33	21	178	124	354	61	12	9.9	12	47
MIN	5.8	4.3	14	7.3	8.0	23	63	11	6.2	7.3	4.8	6.6
AC-FT	440	488	1340	785	2600	2990	7850	1700	596	536	490	846

CAL YR 1979 TOTAL 6190.8 MEAN 17.0 MAX 190 MIN 4.1 AC-FT 12280
WTR YR 1980 TOTAL 10412.2 MEAN 28.4 MAX 354 MIN 4.3 AC-FT 20650

09404450 EAST FORK VIRGIN RIVER NEAR GLENDALE, UTAH

LOCATION.--Lat 37°20'19", long 112°36'13", in SE1/4NE1/4NW1/4 sec.14, T.40 S., R.7 W., Kane County, Hydrologic Unit 15010008, on right bank 50 ft (15 m) downstream from Lydia's Creek, and 1.5 mi (2.4 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.--14 years, 21.1 ft^3/s (0.598 m^3/s), 15,290 acre-ft/yr (18.9 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, 19, 1977, gage height, 0.74 ft (0.23 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges 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)
Jan. 14	1300	84	2.38	1.58	0.482
Feb. 19	1900	124	3.51	1.83	.558
Apr. 21	0030	*334	9.46	2.91	.887
July 7	1830	63	1.78	1.51	.460
Sept. 10	0400	205	5.81	2.35	.716

Minimum discharge, 15 ft^3/s (0.425 m^3/s) several days in Oct. and Dec.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	17	16	21	24	41	45	201	63	36	25	22
2	15	17	16	20	24	41	43	201	63	36	47	22
3	15	17	16	20	24	45	43	195	60	31	56	21
4	15	17	16	20	25	42	43	187	58	30	29	21
5	15	17	15	20	25	40	47	191	56	28	27	20
6	15	17	16	21	25	45	63	191	55	28	26	20
7	15	17	16	21	25	42	76	181	52	36	25	25
8	15	21	16	21	24	40	78	174	51	35	25	42
9	15	19	16	22	23	39	91	162	50	37	25	29
10	15	18	16	26	23	40	106	153	48	33	25	56
11	15	18	15	24	23	43	114	170	47	31	24	29
12	15	17	18	28	23	42	99	130	46	30	23	26
13	16	18	18	29	23	40	101	125	44	29	24	25
14	16	18	18	72	30	45	112	129	43	27	25	24
15	16	17	19	39	41	47	130	128	42	27	25	24
16	16	17	19	31	35	45	148	131	41	27	24	24
17	16	17	19	29	36	41	160	127	40	26	23	24
18	16	17	19	29	72	42	184	122	40	25	23	24
19	15	17	19	28	78	43	207	116	39	25	23	23
20	17	17	19	26	66	45	267	110	38	25	23	23
21	18	17	22	24	53	47	285	102	37	24	23	23
22	17	17	21	24	47	45	269	97	36	23	22	22
23	17	17	20	24	43	43	211	99	35	24	22	22
24	17	17	20	24	40	45	190	101	34	24	24	22
25	17	17	20	24	39	43	190	96	33	24	27	22
26	17	17	21	24	39	42	203	90	32	24	25	22
27	17	17	21	24	41	42	205	75	31	26	23	21
28	17	17	20	24	43	42	200	72	31	24	23	21
29	17	16	20	25	43	42	225	70	30	24	22	21
30	17	16	20	25	---	45	215	66	33	24	22	21
31	17	---	20	24	---	45	---	64	---	25	22	---
TOTAL	496	518	567	813	1057	1329	4350	4056	1308	868	802	741
MEAN	16.0	17.3	18.3	26.2	36.4	42.9	145	131	43.6	28.0	25.9	24.7
MAX	18	21	22	72	78	47	285	201	63	37	56	56
MIN	15	16	15	20	23	39	43	64	30	23	22	20
AC-FT	984	1030	1120	1610	2100	2640	8630	8050	2590	1720	1590	1470

CAL YR 1979 TOTAL 13383 MEAN 36.7 MAX 211 MIN 14 AC-FT 26550
WTR YR 1980 TOTAL 16905 MEAN 46.2 MAX 285 MIN 15 AC-FT 33530

09405420 NORTH FORK VIRGIN RIVER BELOW BULLOCK CANYON, NEAR GLENDALE, UTAH

LOCATION.--Lat 37°25'06", long 112°47'59", in SW1/4NW1/4SE1/4 sec.13, T.39 S., R.9 W., Kane County, Hydrologic Unit 15010008, on left bank 200 ft (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).

WATER-DISCHARGE RECORDS

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 poor. Several small diversions for irrigation above station.

AVERAGE DISCHARGE.--6 years, 19.0 ft^3/s (0.538 m^3/s), 13,770 acre-ft/yr (17.0 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 the basis of a slope-area measurement at gage height 7.44 ft (2.27 m) from high-water marks.

EXTREMES FOR CURRENT YEAR.--Peak discharges 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)
Jan. 14	unknown	-	-	-	-
Feb. 14	unknown	-	-	-	-
May 7	0030	*222	6.29	5.77	1.759
June 7	unknown	-	-	-	-
July 2	unknown	-	-	-	-
Aug. 25	0800	44	1.25	4.84	1.475
Sept. 10	0500	100	2.83	5.29	1.612

Minimum recorded, 4.3 ft^3/s (0.12 m^3/s) Oct. 6, 10, 16, 24, Dec. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	17	19	15	33	40	25	136	42	40	20	20
2	15	17	18	15	31	35	25	125	41	43	23	19
3	15	18	19	15	29	58	25	113	40	35	23	19
4	15	17	18	15	28	40	35	123	38	30	21	17
5	15	17	18	15	27	32	45	133	35	28	20	18
6	15	18	17	14	25	56	55	130	31	26	19	19
7	15	18	17	14	24	44	65	131	48	26	20	26
8	15	20	17	14	23	30	60	122	45	25	19	31
9	15	19	17	14	22	28	65	110	43	31	18	28
10	14	19	17	16	21	35	70	114	42	27	17	42
11	15	18	17	15	21	40	60	120	40	25	18	28
12	14	18	16	22	21	50	62	115	39	24	17	27
13	14	18	16	23	50	30	68	112	38	25	17	25
14	15	18	16	55	190	37	74	112	37	24	18	23
15	15	18	16	32	130	35	82	106	34	24	17	23
16	16	18	16	28	95	32	75	95	33	23	17	23
17	16	18	16	26	125	30	64	105	32	21	16	22
18	17	19	16	50	140	31	75	110	31	19	17	21
19	16	19	16	35	115	33	94	120	30	18	17	20
20	19	18	16	24	200	34	108	125	30	18	17	18
21	18	19	16	21	70	33	104	128	30	19	18	17
22	17	21	16	20	60	32	100	130	29	18	18	19
23	18	19	16	19	52	31	75	110	29	20	21	19
24	17	19	16	22	47	30	68	90	28	21	22	18
25	17	19	16	22	44	29	95	85	27	22	32	16
26	18	20	16	22	40	28	109	80	26	24	24	14
27	18	18	16	22	47	28	82	75	24	23	22	14
28	18	18	15	35	46	27	107	70	22	19	22	14
29	18	18	15	50	45	26	121	60	23	20	22	14
30	18	18	15	40	---	25	128	50	25	21	21	14
31	17	---	15	35	---	25	---	45	---	20	20	---
TOTAL	500	551	510	765	1801	1064	2221	3282	1012	759	613	628
MEAN	16.1	18.4	16.5	24.7	62.1	34.3	74.0	106	33.7	24.5	19.8	20.9
MAX	19	21	19	55	200	58	128	136	48	43	32	42
MIN	14	17	15	14	21	25	25	45	22	18	16	14
AC-FT	992	1090	1010	1520	3570	2110	4410	6510	2010	1510	1220	1250

CAL YR 1979 TOTAL 9783.0 MEAN 26.8 MAX 122 MIN 7.6 AC-FT 19400
WTR YR 1980 TOTAL 13706.0 MEAN 37.4 MAX 200 MIN 14 AC-FT 27190

09405450 NORTH FORK VIRGIN RIVER ABOVE ZION NARROWS, NEAR GLENDALE

LOCATION.--Lat 37°23'26", long 112°49'30", in NW1/4NW1/4SW1/4 sec.26, T.39 S., R.9 W., Kane County, Hydrologic Unit 15010008, on left bank 300 ft (91.4 m) below diversion, 10 mi (16.1 km) south of Navajo Lake, 21.5 road mi (34.6 km) from Navajo Lake turnoff at U-14 and 8.5 mi (13.7 km) northeast 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 except for periods of no gage-height record, Jan. 18 to Apr. 15, Apr. 21 to May 27, June 7 to July 9, which are poor. Several small diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, unknown, Feb. 14, 1980; gage height unknown; minimum, 5.4 ft^3/s (0.15 m^3/s) Dec. 31, 1979.

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)
Jan. 14	1430	77	2.18	0.98	0.299
Feb. 14	unknown	* -	-	-	-
May 5	unknown	-	-	-	-
Sept. 10	0130	126	3.57	1.21	.369

Minimum recorded, 7.0 ft^3/s (0.40 m^3/s) Dec. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	16	20	16	33	40	25	100	45	36	23	19
2	16	17	18	15	32	35	25	100	44	40	24	18
3	16	16	18	15	31	55	25	105	44	36	24	18
4	16	16	18	15	30	40	30	120	39	32	22	17
5	16	16	19	15	29	35	35	170	35	28	21	17
6	15	16	19	14	28	60	55	150	33	27	22	18
7	15	15	19	14	27	50	65	135	46	27	22	26
8	15	19	19	14	26	35	60	120	43	35	21	30
9	15	19	19	14	24	30	65	135	42	30	20	25
10	15	18	18	16	23	35	70	120	40	25	19	49
11	15	18	17	15	22	40	65	100	38	23	19	26
12	15	20	17	21	22	50	60	90	37	23	18	24
13	14	19	17	25	23	30	65	85	36	24	19	23
14	15	20	17	60	200	35	72	93	34	23	20	22
15	15	19	17	36	160	38	80	93	33	22	20	22
16	19	18	17	29	100	35	75	100	33	22	19	21
17	19	19	16	26	120	30	73	105	32	22	18	20
18	19	20	16	50	140	31	83	110	31	22	18	19
19	19	20	16	35	120	32	107	115	31	21	19	19
20	22	20	16	25	200	35	112	120	30	21	18	19
21	22	21	17	23	90	33	140	125	30	21	19	19
22	20	20	17	21	75	32	150	130	30	21	19	18
23	20	20	18	20	55	31	130	110	30	22	21	18
24	20	20	18	21	50	30	90	95	29	22	22	16
25	19	20	17	22	45	29	90	80	28	23	32	16
26	20	21	17	22	42	28	100	72	27	24	22	15
27	19	19	17	22	47	27	120	72	25	26	21	15
28	18	20	17	22	46	27	120	57	23	22	20	16
29	18	20	17	50	45	26	120	48	25	21	20	16
30	18	21	17	42	---	26	110	48	25	23	19	15
31	17	---	17	36	---	25	---	48	---	23	19	---
TOTAL	538	563	542	771	1885	1085	2417	3149	1018	787	640	616
MEAN	17.4	18.8	17.5	24.9	65.0	35.0	80.6	102	33.9	25.4	20.6	20.5
MAX	22	21	20	60	200	60	150	170	46	40	32	49
MIN	14	15	16	14	22	25	25	46	23	21	18	15
AC-FT	1070	1120	1080	1530	3740	2150	4790	6250	2020	1560	1270	1220

CAL YR 1979 TOTAL 10905.1 MEAN 29.9 MAX 130 MIN 9.0 AC-FT 21630
WTR YR 1980 TOTAL 14011.0 MEAN 38.3 MAX 200 MIN 14 AC-FT 27790

09405450 NORTH FORK VIRGIN RIVER ABOVE ZION NARROWS, NEAR GLENDALE

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.

PERIOD OF DAILY RECORD.--October 1974 to current year.

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 tonne) Oct. 20, 1975.

REVISION.--The following table was previously published in WDR Utah 1979 under station 09405420.

MONTHLY TOTALS--WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

Month	Water discharge (cfs-days)	Sediment load (tons)
1978		
October	463	125
November	456	565
December	372	95
1979		
January	354.6	90
February	330.5	80
March	1,031	2,480
April	2,570	8,400
May	2,119	2,986
June	1,124	586.2
July	602	93.7
August	675	325.7
September	456	249.5
	10,553.1	16,076.1

09405450 NORTH FORK VIRGIN RIVER ABOVE ZION NARROWS, NEAR GLENDALE

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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	3.8	78	3.4	90	4.9						
2	105	4.5	88	4.0	80	3.9						
3	99	4.3	85	3.7	80	3.9						
4	84	3.6	85	3.7	70	3.4						
5	83	3.6	85	3.7	80	4.1						
6	78	3.2	80	3.5	80	4.1						
7	72	2.9	90	3.6	80	4.1						
8	80	3.2	80	4.1	80	4.1						
9	78	3.2	70	3.6	80	4.1						
10	102	4.1	70	3.4	75	3.6						
11	105	4.3	70	3.4	70	3.2						
12	92	3.7	80	4.3	70	3.2						
13	85	3.2	80	4.1	70	3.2						
14	100	4.1	80	4.3	70	3.2						
15	135	5.5	70	3.6	70	3.2						
16	146	7.5	70	3.4	70	3.2						
17	150	7.7	80	4.1	60	2.6						
18	158	8.1	90	4.9	60	2.6						
19	167	8.6	90	4.9	60	2.6						
20	168	10	90	4.9	70	3.0						
21	182	11	95	5.4	70	3.2						
22	178	9.6	90	4.9	70	3.2						
23	120	6.5	90	4.9	80	3.9						
24	118	6.4	85	4.6	80	3.9						
25	107	5.5	85	4.6	70	3.2						
26	100	5.4	95	5.4	70	3.2						
27	114	5.8	80	4.1	70	3.2						
28	115	5.6	90	4.9	70	3.2						
29	92	4.5	90	4.9	70	3.2						
30	86	4.2	95	5.4	70	3.2						
31	86	3.9	---	---	70	3.2						
TOTAL	---	167.5	---	127.7	---	106.8	---	1040	---	5520	---	2450

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			---	160	280	34	88	8.6	160	9.9	18	.92
2			---	160	240	29	78	8.4	155	10	15	.73
3			---	160	237	28	58	5.6	125	8.1	12	.58
4			---	160	225	24	46	4.0	87	5.2	22	1.0
5			---	160	215	20	46	3.5	71	4.0	14	.64
6			---	160	193	17	46	3.4	60	3.6	13	.63
7			---	160	178	22	51	3.7	75	4.5	1600	112
8			---	160	175	20	48	4.5	85	4.8	4900	397
9			---	160	175	20	45	3.6	78	4.2	7200	486
10			---	160	168	18	40	2.7	70	3.6	6150	814
11			---	160	188	19	41	2.5	66	3.4	195	14
12			---	160	162	16	30	1.9	58	2.8	200	13
13			664	152	140	14	25	1.6	47	2.4	228	14
14			727	183	137	13	12	.75	35	1.9	155	9.2
15			745	187	128	11	8	.48	29	1.6	70	4.2
16			750	202	109	9.7	8	.46	31	1.6	57	3.2
17			740	210	110	9.5	9	.53	31	1.5	58	3.1
18			730	217	108	9.0	7	.42	34	1.7	50	2.6
19			725	225	105	8.8	8	.45	18	.92	44	2.3
20			722	234	115	9.3	15	.85	10	.49	30	1.5
21			718	242	116	9.4	20	1.1	10	.51	27	1.4
22			706	248	108	8.7	17	.96	9	.46	23	1.1
23			682	203	98	7.9	33	2.0	9	.51	22	1.1
24			505	130	95	7.4	205	12	9	.53	20	.86
25			490	106	77	5.8	255	16	150	13	18	.78
26			335	65	78	5.7	274	18	143	8.5	14	.57
27			301	59	75	5.1	280	20	65	3.7	11	.45
28			240	37	73	4.5	140	8.3	42	2.3	9	.39
29			300	39	75	5.1	125	7.1	35	1.9	8	.35
30			270	35	87	5.9	152	9.4	32	1.6	6	.24
31			283	35	---	---	170	11	25	1.3	---	---
TOTAL	---	7820	---	1920	---	416.8	---	163.82	---	110.52	---	1887.84

TOTAL LOAD FOR YEAR: 5789.98 TONS.

09405500 NORTH FORK VIRGIN RIVER NEAR SPRINGDALE, UTAH

LOCATION.--Lat 37°12'35", long 112°58'40", in SW1/4NW1/4 sec.22, T.41 S., R.10 W., Washington County, Hydrologic Unit 15010008, on right bank in Zion National Park, 0.2 mi (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 fair except those for periods of no gage-height record, Jan. 10 to Feb. 20, and Aug. 26 to Sept. 30, which are poor. Figures given herein include Springdale Canal, which diverts water in NW1/4NW1/4 sec.22, T.41 S., R.10 W., for irrigation in vicinity of Springdale. Diversion above station for irrigation of about 1,400 acres (570 ha).

AVERAGE DISCHARGE.--55 years, 103 ft^3/s (2.917 m^3/s), 74,620 acre-ft/yr (92.0 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 the basis of a 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, 3,190 ft^3/s (90.3 m^3/s) Feb. 14, gage height, 7.2 ft (2.194 m) from high water mark; minimum, 29 ft^3/s (0.82 m^3/s) Dec. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	53	54	57	202	129	92	811	672	167	76	66
2	60	51	56	52	182	124	93	760	670	183	86	65
3	48	52	56	49	162	227	96	708	703	124	81	64
4	45	51	56	49	142	150	135	860	703	123	73	58
5	45	52	58	49	152	125	187	1200	710	117	69	52
6	45	53	57	52	132	230	271	1000	662	110	64	60
7	46	53	57	51	122	181	334	800	588	153	63	107
8	45	77	57	53	102	146	283	709	545	170	63	401
9	45	71	55	66	92	127	295	802	503	153	61	376
10	45	60	55	202	92	122	357	702	478	122	58	1500
11	44	55	54	180	92	154	340	682	440	111	59	255
12	45	50	38	350	93	194	280	642	399	105	58	164
13	44	47	43	320	156	123	299	602	360	105	58	112
14	45	50	48	900	3000	132	351	703	326	101	63	102
15	45	52	50	500	2500	148	453	683	297	92	66	91
16	48	49	51	150	700	141	524	859	273	90	59	80
17	50	49	53	100	750	115	595	995	255	87	55	74
18	51	53	52	600	800	120	681	1040	240	87	54	68
19	51	60	52	200	750	119	737	1060	228	83	54	67
20	55	54	54	100	2500	136	804	1130	206	80	54	65
21	66	50	66	90	500	131	754	1160	188	77	54	72
22	55	49	58	70	285	121	703	1150	183	75	55	77
23	55	62	50	65	188	111	504	1000	172	74	125	72
24	54	58	55	65	147	112	407	869	162	87	301	67
25	51	62	55	70	134	112	430	768	154	79	317	67
26	51	61	56	70	129	102	608	690	147	91	151	71
27	51	58	55	74	134	102	508	646	138	92	92	71
28	50	50	47	95	142	102	707	642	131	81	87	71
29	50	50	46	504	141	102	808	603	128	75	79	69
30	51	50	49	653	---	97	759	656	127	77	72	68
31	52	---	52	253	---	92	---	668	---	82	69	---
TOTAL	1547	1642	1645	6089	14521	4127	13395	25600	10788	3253	2676	4532
MEAN	49.9	54.7	53.1	196	501	133	447	826	360	105	86.3	151
MAX	66	77	66	900	3000	230	808	1200	710	183	317	1500
MIN	44	47	38	49	92	92	92	602	127	74	54	52
AC-FT	3070	3260	3260	12080	28800	8190	26570	50780	21400	6450	5310	8990

CAL YR 1979 TOTAL 68434 MEAN 187 MAX 1220 MIN 38 AC-FT 135700
WTR YR 1980 TOTAL 89815 MEAN 245 MAX 3000 MIN 38 AC-FT 178100

09406000 VIRGIN RIVER AT VIRGIN, UTAH

LOCATION.--Lat 37°11'53", long 113°12'22", in NE1/4NW1/4NE1/4 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 of present site at various datums.

REMARKS.--Records fair except for periods of no gage-height record Jan. 15 to Mar. 18, May 5 to June 17, and July 16 to Aug. 24, which are poor. Diversions above station for irrigation.

AVERAGE DISCHARGE.--64 years, 207 ft^3/s (5.862 m^3/s), 150,800 acre-ft/yr (185 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 on the 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)
Jan. 14	2100	2130	60.3	5.41	1.649
Feb. 15	unknown	-	-	-	-
Feb. 20	unknown	-	-	-	-
Apr. 21	0300	1730	49.0	5.06	1.542
Sept. 10	0200	*10830	307.0	9.98	3.042

Minimum discharge, 70 ft^3/s (1.982 m^3/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	110	123	130	300	400	303	1020	700	330	170	112
2	89	104	128	126	290	380	284	994	700	400	300	108
3	82	106	130	118	270	660	274	945	750	340	280	106
4	75	106	130	116	260	680	292	1100	750	280	250	106
5	73	104	133	116	270	450	388	1700	750	250	200	102
6	75	108	133	118	260	600	446	1500	700	240	180	102
7	73	108	133	118	260	900	495	1400	680	270	150	367
8	76	150	130	121	230	600	405	1200	660	400	140	500
9	76	142	128	130	210	600	475	1350	620	350	130	490
10	78	126	128	344	200	500	560	1150	590	270	130	2500
11	78	121	128	340	200	700	600	1100	570	250	130	290
12	80	116	114	450	200	900	446	950	540	240	130	230
13	83	116	110	405	220	460	480	900	500	230	130	195
14	80	118	121	882	2500	400	515	1050	470	200	200	150
15	80	121	121	500	3000	420	644	1000	450	165	185	135
16	82	118	121	200	720	400	721	950	420	150	170	110
17	85	123	123	150	800	300	782	1050	400	140	150	120
18	92	140	126	750	850	300	875	1100	325	130	135	110
19	91	158	126	400	800	295	1010	1100	310	130	130	100
20	96	142	123	170	3000	306	1210	1200	292	120	130	100
21	121	128	148	150	2300	344	1350	1250	274	120	128	102
22	106	126	145	130	1500	325	1260	1300	256	120	128	110
23	106	130	125	120	1300	299	814	1200	223	140	150	108
24	106	133	118	120	1100	321	606	1100	214	130	300	108
25	100	138	126	130	1000	310	673	980	235	120	530	110
26	100	140	126	135	820	281	917	900	230	140	209	108
27	108	138	128	135	410	284	733	800	230	140	152	104
28	108	126	118	150	450	284	882	750	230	140	130	104
29	104	121	112	500	450	281	987	650	220	140	126	104
30	106	123	116	750	---	314	973	700	210	150	118	98
31	110	---	116	375	---	292	---	700	---	180	116	---
TOTAL	2810	3740	3887	8379	24170	13586	20400	33089	13499	6405	5507	7089
MEAN	90.6	125	125	270	833	438	680	1067	450	207	178	236
MAX	121	158	148	882	3000	900	1350	1700	750	400	530	2500
MIN	73	104	110	116	200	281	274	650	210	120	116	98
AC-FT	5570	7420	7710	16620	47940	26950	40460	65630	26780	12700	10920	14060

CAL YR 1979 TOTAL 132479 MEAN 363 MAX 4230 MIN 69 AC-FT 262800
WTR YR 1980 TOTAL 142561 MEAN 390 MAX 3000 MIN 73 AC-FT 282800

09406300 KANARRA CREEK AT KANARRAVILLE, UTAH

LOCATION.--Lat 37°32'13", long 113°10'00", in SE1/4SW1/4NE1/4 sec.35, T.37 S., R.12 W., Iron County, Hydrologic Unit 15010008, on left bank 2,000 ft (610 m) upstream from mouth of canyon and 0.8 mi (1.3 km) east of Kanarraville.

DRAINAGE AREA.--9.85 mi^2 (25.51 km^2).

PERIOD OF RECORD.--August 1959 to current year.

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 for periods of no gage-height record Nov. 27 to Mar. 1, which are fair. 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.--21 years, 4.21 ft^3/s (0.119 m^3/s), 3,050 acre-ft/yr (3.76 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, 100 ft^3/s (2.83 m^3/s) May 21, gage height, 2.78 ft (0.847 m), base discharge 100 ft^3/s (2.83 m^3/s); minimum, 0.58 ft^3/s (0.016 m^3/s) Nov. 19, result of freezeback.

REVISIONS.--Revised daily discharges, in cubic feet per second, for September 1979 are given below. These figures supersede those published in WDR UT-79-1.

Sept.	22	2.3	Sept.	25	2.4	Sept.	28	2.4
	23	2.4		26	2.4		29	2.4
	24	2.4		27	2.4		30	2.4

MONTH	TOTAL	MEAN	MAX	MIN	AC-FT
SEPT 1979	99.4	3.31	5.0	2.2	197.2
WTR YR 1979	2629.6	7.20	50	1.4	5220

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.6	2.4	3.2	3.5	3.6	2.6	29	24	6.3	3.6	2.9
2	2.4	2.6	2.4	3.2	3.5	3.6	2.6	35	25	5.7	3.8	2.9
3	2.4	2.2	2.5	3.2	3.5	4.6	2.6	44	24	5.4	3.8	2.9
4	2.3	2.2	2.6	3.5	3.5	3.6	2.8	40	22	5.1	3.6	2.9
5	2.3	2.2	2.6	3.5	3.5	3.6	3.3	43	21	4.9	3.6	3.1
6	2.3	2.2	2.6	3.7	3.5	4.1	3.5	40	19	4.8	3.5	6.7
7	2.3	2.2	2.6	3.7	4.3	4.6	3.9	46	17	4.8	3.5	19
8	2.3	3.6	2.6	3.9	4.0	3.6	3.6	42	16	4.7	3.5	5.9
9	2.3	2.6	2.6	3.9	3.5	3.6	4.4	46	14	4.5	3.5	5.1
10	2.3	2.6	2.6	3.9	3.5	3.6	5.9	24	13	4.4	3.5	3.2
11	2.3	2.6	2.3	3.6	3.5	3.6	6.1	15	13	4.4	3.5	2.8
12	2.3	2.2	2.3	4.0	3.5	4.1	5.0	13	12	4.3	3.5	2.6
13	2.3	2.2	2.5	4.1	3.8	3.1	5.2	14	12	4.3	3.5	2.5
14	2.3	2.5	2.6	4.1	4.1	3.1	6.2	23	12	4.2	3.6	2.5
15	2.3	2.5	2.6	4.1	4.6	3.1	7.7	16	11	4.2	3.5	2.3
16	2.3	2.5	2.5	4.5	4.2	3.7	10	23	10	4.0	3.5	2.5
17	2.3	2.5	2.4	4.0	4.0	4.3	13	37	11	4.0	3.5	2.5
18	2.3	2.2	2.7	4.0	4.0	3.1	15	43	10	4.0	3.4	2.5
19	2.3	1.5	2.7	4.0	4.0	3.1	18	52	9.0	3.9	3.4	2.5
20	2.6	2.1	2.7	3.8	4.0	3.1	21	56	9.0	3.9	3.5	2.5
21	2.6	2.2	3.0	3.5	4.4	3.1	29	62	9.0	3.8	3.3	2.6
22	2.2	2.3	3.0	3.5	4.4	3.1	26	60	8.0	3.8	3.3	2.6
23	2.2	2.3	3.0	3.5	4.4	3.6	23	47	8.0	3.8	3.3	2.6
24	2.2	2.3	3.0	4.1	4.2	3.6	25	32	7.0	3.9	3.3	2.6
25	2.2	2.3	3.0	4.5	3.7	3.1	27	27	5.8	4.0	3.4	2.6
26	2.2	2.2	3.0	4.0	3.5	2.5	29	25	5.7	3.8	3.2	2.7
27	2.2	2.4	3.0	3.5	3.5	2.8	33	28	5.7	3.6	3.1	2.7
28	2.2	2.4	3.0	3.5	3.5	2.6	27	25	5.4	3.6	3.1	2.7
29	3.1	2.4	3.2	3.5	3.5	2.7	25	25	5.4	3.8	3.1	2.7
30	2.6	2.4	3.2	3.5	---	2.8	25	26	5.4	3.8	3.0	2.7
31	2.6	---	3.2	3.5	---	3.4	---	27	---	3.8	3.0	---
TOTAL	72.9	71.0	84.4	116.5	111.1	106.1	411.4	1065	369.4	133.5	105.9	106.3
MEAN	2.35	2.37	2.72	3.76	3.83	3.42	13.7	34.4	12.3	4.31	3.42	3.54
MAX	3.1	3.6	3.2	4.5	4.6	4.6	33	62	25	6.3	3.8	19
MIN	2.2	1.5	2.3	3.2	3.5	2.5	2.6	13	5.4	3.6	3.0	2.3
AC-FT	145	141	167	231	220	210	816	2110	733	265	210	211

CAL YR 1979 TOTAL 2646.7 MEAN 7.25 MAX 50 MIN 1.5 AC-FT 5250
WTR YR 1980 TOTAL 2753.5 MEAN 7.52 MAX 62 MIN 1.5 AC-FT 5460

09406600 ASH CREEK RESERVOIR NEAR NEW HARMONY, UTAH

LOCATION.--Lat 37°24'38", long 113°14'05", in NE1/4NE1/4SE1/4 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.

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, 76, 77.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 3,310 acre-ft (4.08 hm^3) Feb. 21-23, gage height, 71.4 ft (21.8 m); minimum, 264 acre-ft (0.33 hm^3) Oct. 19, 20, gage height 41.3 ft (12.6 m).

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

40	186	60	1,850
45	485	65	2,432
50	874	70	3,096
55	1,332	75	3,863

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	310	290	360	520	2070	3000	1690	1750	1500	1470	780	440
2	310	300	370	530	2170	2980	1690	1760	1530	1460	810	440
3	310	300	380	540	2230	2910	1690	1780	1550	1440	800	430
4	310	300	390	560	2300	2850	1690	1800	1590	1420	780	420
5	300	310	390	580	2400	2750	1690	1800	1630	1390	770	420
6	290	310	390	590	2480	2690	1690	1820	1660	1370	750	410
7	290	310	380	610	2560	2590	1690	1840	1700	1350	730	420
8	280	320	390	630	2650	2500	1690	1850	1720	1330	710	460
9	270	340	400	650	2700	2400	1690	1850	1730	1310	690	620
10	270	340	400	670	2800	2310	1700	1850	1750	1290	670	1060
11	270	340	400	700	2870	2220	1700	1850	1760	1270	650	1040
12	270	340	400	720	2910	2120	1700	1790	1760	1240	630	1020
13	270	350	400	760	2990	2080	1700	1750	1760	1210	610	1000
14	270	350	400	780	3010	2000	1700	1750	1760	1190	590	990
15	270	350	400	840	3100	1940	1700	1210	1750	1160	570	980
16	270	350	410	840	3120	1910	1700	900	1740	1140	560	960
17	270	360	410	880	3190	1880	1710	840	1720	1120	540	950
18	270	360	410	900	3210	1860	1710	780	1710	1090	530	930
19	270	360	410	940	3270	1830	1710	720	1700	1070	510	920
20	270	360	420	1000	3300	1820	1710	680	1690	1040	500	910
21	270	360	420	1050	3310	1780	1710	660	1670	1020	490	890
22	280	360	430	1120	3310	1760	1710	760	1660	1000	480	880
23	280	370	430	1200	3310	1740	1720	910	1640	970	470	870
24	280	370	440	1270	3300	1720	1720	1080	1620	950	470	850
25	280	370	450	1370	3270	1710	1720	1200	1610	920	470	840
26	280	360	460	1460	3200	1710	1720	1280	1590	900	470	830
27	280	370	460	1540	3140	1710	1720	1330	1560	880	470	820
28	280	370	470	1650	3100	1700	1730	1370	1540	860	470	810
29	290	370	480	1740	3050	1700	1730	1400	1520	840	460	800
30	290	370	490	1860	---	1700	1740	1440	1490	820	460	780
31	290	---	500	1940	---	1700	---	1470	---	800	450	---
MAX	310	370	500	1940	3310	3000	1740	1850	1760	1470	810	1060
MIN	270	290	360	520	2070	1700	1690	660	1490	800	450	410
(†)	41.72	43.08	45.19	60.78	69.75	58.55	58.94	56.33	56.53	49.05	44.41	48.80
(‡)	-20	+80	+130	+1440	+1110	-1350	+40	-270	+20	-690	-350	+330

CAL YR . . . . . -600
WTR YR . . . . . +470

(†) 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 SW1/4SW1/4SE1/4 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. No diversion above station.

AVERAGE DISCHARGE.--14 years, 7.39 ft^3/s (0.209 m^3/s), 5,350 acre-ft/yr (6.60 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.--Peak discharges above base of 100 ft^3/s (2.85 m^3/s); and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 14	1400	181	5.126	3.25	0.991
Feb. 19	1730	*281	7.958	3.62	1.103
Aug. 1	2300	112	3.172	2.87	.875

Minimum discharge, 0.79 ft^3/s (0.022 m^3/s) Dec. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	2.9	2.4	2.3	6.0	12	10	37	22	19	13	4.3
2	2.9	2.9	2.4	2.2	6.0	11	9.9	35	22	17	14	4.2
3	2.9	2.9	2.3	2.2	6.1	17	10	35	21	17	8.9	4.1
4	2.9	2.9	2.3	2.1	7.0	13	13	36	21	17	8.4	4.1
5	2.8	2.9	2.3	2.1	6.1	11	17	38	22	16	8.2	4.0
6	2.7	2.8	2.3	2.2	6.0	18	24	40	22	16	7.9	4.0
7	2.8	2.8	2.3	2.2	6.2	14	17	42	22	17	7.4	4.3
8	2.7	3.2	2.2	2.2	5.9	12	18	40	21	16	7.2	5.3
9	2.8	2.9	2.2	3.0	4.5	17	21	40	21	16	7.0	5.5
10	2.7	2.9	2.2	3.9	4.0	20	25	39	21	15	7.0	4.9
11	2.7	2.8	1.9	3.0	4.0	20	19	37	21	14	6.8	3.9
12	2.7	2.8	1.9	4.2	4.0	20	18	33	21	14	6.5	3.7
13	2.7	2.9	2.4	7.6	4.3	16	19	29	21	14	6.5	3.6
14	2.7	2.8	2.2	25	112	17	23	33	20	13	6.3	3.5
15	2.7	2.8	2.2	7.2	72	16	27	31	21	13	6.2	3.4
16	2.7	2.8	2.2	5.1	24	14	31	30	21	12	6.0	3.3
17	2.7	2.8	2.2	5.6	27	12	33	29	20	12	5.9	3.2
18	2.7	2.8	2.1	6.6	130	11	36	29	20	11	5.7	3.1
19	2.7	2.8	2.2	4.8	92	12	40	30	20	11	5.5	3.1
20	3.1	2.6	2.2	4.5	56	13	45	31	20	11	5.5	3.1
21	2.9	2.5	2.3	4.3	35	13	44	33	20	10	5.3	3.0
22	2.8	2.6	2.2	4.2	25	12	41	35	19	9.9	5.1	3.0
23	2.8	2.7	2.2	3.6	19	11	38	35	18	9.6	5.1	2.9
24	2.8	2.6	2.2	3.6	15	11	34	34	18	9.4	5.1	2.9
25	2.7	2.6	2.2	3.7	14	11	36	32	18	9.4	5.9	2.8
26	2.7	2.6	2.2	3.6	14	11	35	29	19	9.4	5.3	2.8
27	2.7	2.5	2.2	3.6	15	11	36	27	19	8.9	5.0	2.7
28	2.8	2.3	1.9	3.8	15	11	38	25	18	8.6	4.8	2.7
29	2.8	2.3	2.1	4.5	14	11	40	24	18	8.6	4.7	2.6
30	2.8	2.4	2.1	7.2	---	11	39	23	18	8.4	4.5	2.6
31	2.8	---	2.3	5.4	---	10	---	23	---	8.4	4.4	---
TOTAL	86.2	82.1	68.3	145.5	749.1	419	836.9	1014	605	391.6	205.1	106.6
MEAN	2.78	2.74	2.20	4.69	25.8	13.5	27.9	32.7	20.2	12.6	6.62	3.55
MAX	3.1	3.2	2.4	25	130	20	45	42	22	19	14	5.5
MIN	2.7	2.3	1.9	2.1	4.0	10	9.9	23	18	8.4	4.4	2.6
AC-FT	171	163	135	289	1490	831	1660	2010	1200	777	407	211

CAL YR 1979 TOTAL 4972.8 MEAN 13.6 MAX 190 MIN 1.9 AC-FT 9860
WTR YR 1980 TOTAL 4709.4 MEAN 12.9 MAX 130 MIN 1.9 AC-FT 9340

09407200 ASH CREEK BELOW WEST FIELD DITCH, AT TOQUERVILLE, UTAH

LOCATION.--Lat 37°15'57", long 113°16'50", in SE1/4 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.--7 years, 24.8 ft^3/s (0.702 m^3/s) 17,970 acre-ft/yr (22.2 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, 595 ft^3/s (16.9 m^3/s) Feb. 14; minimum daily, 17 ft^3/s (0.481 m^3/s) Jan.23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	22	23	19	20	52	40	59	42	31	26	26
2	22	21	23	19	21	52	37	77	40	31	78	26
3	22	22	23	19	21	51	35	111	40	29	49	25
4	22	22	22	19	21	51	36	112	40	29	41	25
5	22	22	23	19	21	51	41	115	40	29	35	25
6	22	22	21	19	19	56	55	118	39	28	32	25
7	22	22	20	19	19	80	50	132	39	28	28	26
8	22	22	20	19	18	59	47	145	39	28	26	27
9	22	22	20	19	18	54	51	144	39	28	26	37
10	21	22	20	19	18	51	56	144	38	28	26	35
11	21	22	20	20	18	51	56	144	38	28	26	32
12	22	22	20	22	18	73	51	158	37	27	26	31
13	22	22	20	24	18	53	52	175	38	27	26	26
14	22	23	20	32	333	53	54	158	38	28	26	25
15	21	23	20	29	223	53	54	130	37	27	26	23
16	21	23	20	18	100	53	52	123	36	27	26	23
17	21	23	20	23	111	53	66	120	36	27	26	24
18	21	23	20	81	370	53	92	116	36	26	26	24
19	21	23	20	26	271	55	105	113	36	26	26	24
20	21	23	20	19	375	57	110	113	35	26	26	24
21	21	23	20	18	251	59	141	115	34	26	26	24
22	21	23	20	18	165	57	175	91	34	26	26	24
23	21	23	20	17	147	56	175	54	34	26	26	24
24	21	23	20	18	143	55	175	57	33	26	26	24
25	21	23	20	18	138	53	175	56	32	26	26	24
26	21	23	20	18	125	52	175	54	32	26	28	24
27	21	23	20	18	54	52	173	50	32	26	27	23
28	21	23	20	18	52	52	112	49	32	26	27	24
29	21	23	19	69	52	42	60	48	31	26	27	23
30	21	23	19	48	---	42	60	45	31	27	27	23
31	21	---	19	20	---	41	---	42	---	26	26	---
TOTAL	663	676	632	764	3160	1672	2561	3168	1088	845	919	770
MEAN	21.4	22.5	20.4	24.6	109	53.9	85.4	102	36.3	27.3	29.6	25.7
MAX	22	23	23	81	375	80	175	175	42	31	78	37
MIN	21	21	19	17	18	41	35	42	31	26	26	23
AC-FT	1320	1340	1250	1520	6270	3320	5080	6280	2160	1680	1820	1530

CAL YR 1979 TOTAL 17576 MEAN 48.2 MAX 596 MIN 11 AC-FT 34860
WTR YR 1980 TOTAL 16918 MEAN 46.2 MAX 375 MIN 17 AC-FT 33560

09408000 LEEDS CREEK NEAR LEEDS, UTAH

LOCATION.--Lat 37°16'03", long 113°22'12", in SW1/4SE1/4NE1/4 sec.36, T.40 S., R.14 W., Washington County, Hydrologic Unit 15010008, on left bank 1,150 ft (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.--16 years, 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, 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.--Peak discharges 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)
Jan. 14	2030	63	1.78	2.53	0.771
Jan. 18	0230	53	1.50	2.47	.753
Feb. 14	1300	*892	25.3	4.49	1.37
Feb. 19	1900	435	12.3	3.81	1.16
Mar. 12	0100	96	2.72	2.71	.826
Sept. 8	2300	112	3.17	2.52	.768

Minimum discharge, 4.1 ft^3/s (0.12 m^3/s), Jan. 1-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	5.1	4.6	4.3	9.2	17	16	29	21	35	19	10
2	5.8	5.1	4.6	4.1	8.8	16	16	27	20	34	21	9.8
3	5.7	5.1	4.6	4.1	8.3	21	15	26	20	35	19	9.5
4	5.7	5.1	4.6	4.1	8.4	18	15	26	20	35	18	9.5
5	5.7	5.1	4.6	4.1	8.2	16	16	27	19	35	18	9.5
6	5.6	4.9	4.6	4.1	7.7	25	18	28	19	36	17	9.5
7	5.6	4.9	4.6	4.1	7.5	30	17	28	19	36	17	9.8
8	5.6	5.3	4.6	4.1	6.9	24	17	27	19	35	16	13
9	5.6	4.9	4.6	4.9	6.7	29	18	27	20	35	16	14
10	5.3	4.9	4.6	6.0	6.6	32	19	27	20	34	16	10
11	5.4	4.8	4.6	5.8	6.6	40	19	27	20	34	15	9.5
12	5.4	4.8	4.4	6.4	6.6	41	19	25	21	34	15	9.5
13	5.4	4.9	4.2	6.8	6.7	24	19	24	22	33	15	9.2
14	5.3	4.7	4.4	22	380	24	19	26	23	32	15	9.0
15	5.3	4.7	4.4	10	122	23	19	26	23	31	14	8.7
16	5.3	4.7	4.4	6.6	35	20	21	25	24	31	14	8.7
17	5.3	4.7	4.4	8.1	81	18	22	23	24	29	13	8.4
18	5.3	4.8	4.4	21	188	18	24	23	25	28	13	8.4
19	5.2	4.7	4.4	8.5	139	17	26	23	26	28	13	8.2
20	5.6	4.7	4.3	6.6	166	17	29	23	26	26	12	8.2
21	5.4	4.7	4.4	6.2	96	18	30	23	27	25	12	8.2
22	5.4	4.9	4.3	6.0	51	18	32	24	28	25	12	8.2
23	5.2	4.7	4.3	5.9	30	17	32	24	29	24	12	8.0
24	5.2	4.6	4.3	5.8	23	17	29	26	29	23	12	8.0
25	5.2	4.6	4.3	5.8	20	17	28	24	29	23	12	8.0
26	5.2	4.6	4.3	5.8	19	16	27	23	29	22	11	7.7
27	5.2	4.6	4.3	5.8	20	16	27	22	29	21	11	7.7
28	5.2	4.6	4.3	5.9	20	16	28	22	29	21	11	7.7
29	5.1	4.6	4.3	11	19	16	30	21	30	20	11	7.5
30	5.1	4.6	4.3	21	---	16	29	21	31	20	10	7.3
31	5.2	---	4.3	10	---	16	---	21	---	20	10	---
TOTAL	167.4	144.4	137.3	234.9	1507.2	653	676	768	721	900	440	270.7
MEAN	5.40	4.81	4.43	7.58	52.0	21.1	22.5	24.8	24.0	29.0	14.2	9.02
MAX	5.9	5.3	4.6	22	380	41	32	29	31	36	21	14
MIN	5.1	4.6	4.2	4.1	6.6	16	15	21	19	20	10	7.3
AC-FT	332	286	272	466	2990	1300	1340	1520	1430	1790	873	537

CAL YR 1979 TOTAL 5226.2 MEAN 14.3 MAX 251 MIN 4.2 AC-FT 10370
WTR YR 1980 TOTAL 6619.9 MEAN 18.1 MAX 380 MIN 4.1 AC-FT 13130

09408150 VIRGIN RIVER NEAR HURRICANE, UTAH

LOCATION.--Lat 37°09'45", long 113°23'42", in NE1/4NE1/4SW1/4 sec.2, T.42 S., R.14 W., Washington County, Hydrologic Unit 15010008, on left bank at downstream side of bridge on State Highway 17, 1.8 mi (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 fair. Many diversions for irrigation above station.

AVERAGE DISCHARGE.--13 years, 241 ft^3/s (6.825 m^3/s), 174,600 acre-ft/yr (215 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 1,500 ft^3/s (42.5 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage Height (ft)	Gage Height (m)
Jan. 14	2330	3820	108	6.43	1.960
Feb. 14	2100	8520	241	9.76	2.975
Feb. 20	0400	7000	198	8.73	2.661
Mar. 12	0530	1940	54.9	4.72	1.430
Apr. 21	0400	2110	59.8	4.91	1.497
May 5	0500	2600	73.6	5.39	1.643
Sept. 10	0400	*10910	309	11.33	3.453

Minimum discharge, 72 ft^3/s (2.04 m^3/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	134	142	151	373	562	350	1550	900	359	178	102
2	74	127	143	148	360	527	340	1540	884	477	324	100
3	74	129	157	141	340	702	340	1510	907	368	260	98
4	79	129	157	136	331	778	340	1620	919	305	211	100
5	82	131	156	136	354	544	400	2030	914	286	164	100
6	81	127	155	139	316	784	700	1940	894	271	151	102
7	81	128	156	139	318	1170	600	1870	819	310	141	198
8	82	159	157	136	283	727	540	1690	762	453	132	759
9	85	187	154	146	263	720	578	1810	732	400	125	824
10	89	178	149	374	251	642	672	1570	700	298	121	2920
11	90	173	147	632	254	851	758	1530	659	276	121	380
12	92	166	153	548	254	1140	601	1310	609	264	121	227
13	95	153	150	737	255	624	618	1250	562	251	119	186
14	96	137	150	1310	3630	567	654	1470	531	243	192	145
15	88	142	150	952	4300	584	830	1410	493	203	175	131
16	85	137	154	249	955	550	948	1370	472	187	127	120
17	90	135	158	168	1190	446	1060	1550	446	181	117	116
18	98	148	153	885	2250	456	1250	1640	430	176	112	113
19	97	156	153	447	1800	446	1610	1660	409	167	112	109
20	100	180	151	215	4580	435	1580	1700	382	158	110	109
21	139	155	161	174	3000	478	1790	1760	358	158	108	112
22	122	145	180	161	2000	440	1820	1770	345	156	108	115
23	118	148	153	150	1600	415	1460	1540	341	184	108	110
24	115	152	146	150	1400	420	1160	1310	322	153	254	106
25	116	150	153	157	1300	415	1190	1200	314	154	446	109
26	115	156	156	159	1000	378	1570	1090	295	176	304	111
27	115	149	161	158	610	378	1730	961	281	173	141	110
28	120	140	151	158	624	380	1750	933	276	178	116	109
29	120	138	141	607	618	380	1760	842	273	168	108	106
30	131	139	144	861	---	360	1540	880	267	180	104	106
31	134	---	144	487	---	350	---	883	---	207	104	---
TOTAL	3075	4428	4735	11011	34809	17649	30539	45189	16496	7520	5014	8033
MEAN	99.2	148	153	355	1200	569	1018	1458	550	243	162	268
MAX	139	187	180	1310	4580	1170	1820	2030	919	477	446	2920
MIN	72	127	141	136	251	350	340	842	267	153	104	98
AC-FT	6100	8780	9390	21840	69040	35010	60570	89630	32720	14920	9950	15930

CAL YR 1979 TOTAL 137820 MEAN 378 MAX 6020 MIN 70 AC-FT 273400
WTR YR 1980 TOTAL 188498 MEAN 515 MAX 4580 MIN 72 AC-FT 373900

09408400 SANTA CLARA RIVER NEAR PINE VALLEY, UTAH

LOCATION.--Lat 37°23'00", long 113°28'57", in NW1/4SE1/4NE1/4 sec.24, T.39 S., R.15 W., Washington County, Hydrologic Unit 15010008, in Dixie National Forest, on right bank 150 ft (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 fair. Flow slightly regulated by Pine Valley Reservoir. No diversion above station.

AVERAGE DISCHARGE.--21 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, 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.--Peak discharges 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)
Apr. 20	2100	75	2.12	2.55	0.777
Apr. 28	2200	71	2.01	2.51	.765
May 6	2400	93	2.63	2.70	.823
May 21	2200	*139	3.94	3.08	.939
June 5	2100	105	2.97	2.80	.853
July 1	0300	64	1.81	2.45	.747

Minimum discharge, 2.5 ft^3/s (0.071 m^3/s), Dec. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	4.6	3.8	3.3	4.0	9.3	5.9	44	55	61	20	10
2	4.9	4.7	3.8	3.3	4.4	8.2	5.8	41	56	53	26	9.7
3	4.8	4.7	3.7	3.2	4.5	8.5	5.6	43	69	48	20	9.5
4	5.0	4.8	3.7	3.1	4.7	7.4	6.1	46	80	44	19	9.2
5	4.9	4.7	3.7	3.0	4.8	7.1	7.8	65	88	41	18	8.9
6	4.8	4.6	3.7	3.0	4.8	7.1	12	79	87	39	17	8.7
7	4.8	4.6	3.7	3.0	4.6	6.7	14	82	81	38	17	9.7
8	4.8	5.0	3.6	3.0	4.6	6.1	15	71	78	36	16	9.7
9	4.7	4.8	3.6	3.3	4.6	6.0	19	71	80	35	16	11
10	4.7	4.7	3.6	3.6	4.6	6.3	23	64	82	34	16	12
11	4.7	4.6	3.5	3.6	4.6	7.0	22	54	85	32	15	9.5
12	4.7	4.6	3.5	3.8	4.6	7.0	18	46	83	31	15	8.9
13	4.6	4.6	3.5	4.0	5.6	7.0	18	42	76	30	14	8.7
14	4.7	4.6	3.5	4.0	6.5	7.5	21	44	69	29	14	8.4
15	4.7	4.6	3.5	4.1	7.7	8.1	27	44	64	28	14	8.2
16	4.7	4.5	3.5	4.2	6.3	8.1	33	45	62	27	14	8.2
17	4.6	4.5	3.5	4.1	6.0	7.5	38	57	63	27	14	7.9
18	4.7	4.6	3.5	4.1	14	7.2	44	63	65	26	13	7.9
19	4.7	4.7	3.4	4.0	21	6.8	52	67	65	25	13	7.7
20	5.3	4.7	3.4	3.9	17	7.0	60	87	62	25	13	7.7
21	4.9	4.4	3.6	3.9	10	7.6	61	107	60	24	13	7.5
22	4.8	4.1	3.5	3.9	7.8	7.3	51	117	58	23	12	7.5
23	4.7	4.1	3.4	3.9	7.3	6.9	37	102	56	23	12	7.2
24	4.6	4.1	3.4	3.9	7.0	7.0	30	79	55	22	12	7.2
25	4.6	4.0	3.3	3.9	7.3	6.5	34	63	53	22	13	7.0
26	4.6	4.0	3.3	3.9	8.3	6.2	42	53	51	21	12	7.0
27	4.6	4.0	3.3	3.9	10	6.2	50	47	50	21	11	6.8
28	4.6	3.9	3.3	3.9	11	6.2	61	44	50	21	11	6.6
29	4.7	3.8	3.3	3.9	10	6.1	64	42	51	20	11	6.6
30	4.6	3.8	3.3	3.8	---	6.3	51	46	54	21	10	6.6
31	4.6	---	3.3	3.9	---	6.1	---	53	---	21	10	---
TOTAL	147.2	133.4	108.7	114.4	217.6	218.3	928.2	1912	1988	948	451	251.5
MEAN	4.75	4.45	3.51	3.69	7.50	7.04	30.9	61.7	66.3	30.6	14.5	8.38
MAX	5.3	5.0	3.8	4.2	21	9.3	64	117	88	61	26	12
MIN	4.6	3.8	3.3	3.0	4.0	6.0	5.6	41	50	20	10	6.6
AC-FT	292	265	216	227	432	433	1840	3790	3940	1880	895	499

CAL YR 1979 TOTAL 7957.2 MEAN 21.8 MAX 146 MIN 3.3 AC-FT 15780
WTR YR 1980 TOTAL 7418.3 MEAN 20.3 MAX 117 MIN 3.0 AC-FT 14710

09408500 SANTA CLARA-PINTO DIVERSION NEAR PINTO, UTAH
(Transmountain diversion)

LOCATION.--Lat 37°28'04", long 113°28'21", in SW1/4SE1/4NW1/4 sec.19, T.38 S., R.14 W., Washington County, Hydrologic Unit 15010008, on right bank 0.2 mi (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 except for period of no gage-height record, which are poor. 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.--20 years (1953-62, 1969-80) 3.35 ft^3/s (0.095 m^3/s), 2,430 acre-ft/yr (3.00 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, 86 ft^3/s (2.44 m^3/s) Apr. 20, gage height, 2.48 ft (0.756 m); minimum discharge, no flow for extended periods during year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	3.7	1.0	32	27	5.1	.00	.00
2	.00	.00	.00	.00	.00	3.4	1.0	29	26	4.6	.00	.00
3	.00	.00	.00	.00	.00	2.9	1.0	28	28	3.8	.00	.00
4	.00	.00	.00	.00	.00	2.5	1.3	29	30	2.8	.00	.00
5	.00	.00	.00	.00	.00	2.1	2.0	36	32	2.3	.00	.00
6	.00	.00	.00	.00	.00	1.7	3.0	39	34	2.0	.00	.00
7	.00	.00	.00	.00	.00	1.4	5.2	38	30	2.0	.00	.00
8	.00	.00	.00	.00	.00	1.0	7.5	32	28	2.0	.00	.00
9	.00	.00	.00	.00	.00	.98	9.0	29	28	1.5	.00	.00
10	.00	.00	.00	.00	.00	.98	10	26	26	1.0	.00	.00
11	.00	.00	.00	.00	.00	1.0	9.6	22	26	.86	.00	.00
12	.00	.00	.00	.00	.00	1.1	9.3	18	26	.56	.00	.00
13	.00	.00	.00	.00	.00	1.2	9.3	17	24	.25	.00	.00
14	.00	.00	.00	.00	.00	1.3	11	19	21	.16	.00	.00
15	.00	.00	.00	.00	.00	1.4	20	20	21	.00	.00	.00
16	.00	.00	.00	.00	.00	1.4	35	20	19	.00	.00	.00
17	.00	.00	.00	.00	.00	1.4	51	24	18	.00	.00	.00
18	.00	.00	.00	.00	.04	1.4	70	25	17	.00	.00	.00
19	.00	.00	.00	.00	.56	1.3	72	25	16	.00	.00	.00
20	.00	.00	.00	.00	1.6	1.3	80	29	15	.00	.00	.00
21	.00	.00	.00	.00	1.5	1.3	75	35	14	.00	.00	.00
22	.00	.00	.00	.00	1.2	1.3	71	40	12	.00	.00	.00
23	.00	.00	.00	.00	1.2	1.3	37	36	10	.00	.00	.00
24	.00	.00	.00	.00	1.1	1.2	23	32	8.4	.00	.00	.00
25	.00	.00	.00	.00	1.1	1.2	21	29	7.9	.00	.00	.00
26	.00	.00	.00	.00	1.3	1.2	41	29	6.8	.00	.00	.00
27	.00	.00	.00	.00	3.5	1.2	50	28	5.6	.00	.00	.00
28	.00	.00	.00	.00	4.0	1.2	57	26	5.1	.00	.00	.00
29	.00	.00	.00	.00	4.0	1.1	54	25	4.6	.00	.00	.00
30	.00	.00	.00	.00	---	1.1	38	25	4.6	.00	.00	.00
31	.00	---	.00	.00	---	1.1	---	26	---	.00	.00	---
TOTAL	.00	.00	.00	.00	21.10	46.66	875.2	868	571.0	28.93	.00	.00
MEAN	.000	.000	.000	.000	.73	1.51	29.2	28.0	19.0	.93	.000	.000
MAX	.00	.00	.00	.00	4.0	3.7	80	40	34	5.1	.00	.00
MIN	.00	.00	.00	.00	.00	.98	1.0	17	4.6	.00	.00	.00
AC-FT	.00	.00	.00	.00	42	93	1740	1720	1130	57	.00	.00

CAL YR 1979 TOTAL 2224.42 MEAN 6.09 MAX 81 MIN .00 AC-FT 4410
WTR YR 1980 TOTAL 2410.89 MEAN 6.59 MAX 80 MIN .00 AC-FT 4780

NOTE: No gage-height record Feb. 26 to Apr. 17.

09409880 SANTA CLARA RIVER AT GUNLOCK, UTAH

LOCATION.--Lat 37°16'55", long 113°46'00", in SW1/4SW1/4NW1/4 sec.28, T.40 S., R.17 W., Washington County, Hydrologic Unit 15010008, on right bank at downstream side of bridge on county road at Gunlock, 0.5 mi (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 poor. Many diversions for irrigation above station. Flow regulated by several reservoirs and powerplant above station.

AVERAGE DISCHARGE.--11 years, 28.6 ft^3/s (0.810 m^3/s), 20,720 acre-ft/yr (25.5 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, 2,810 ft^3/s (79.6 m^3/s) Feb. 14, gage height, 5.74 ft (1.750 m); minimum, 4.9 ft^3/s (0.139 m^3/s) Oct. 6 and 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	8.0	10	6.0	110	138	77	112	96	68	33	26
2	6.3	8.3	10	6.2	100	134	69	106	89	67	33	28
3	7.0	8.3	10	6.2	100	145	240	105	92	65	30	28
4	7.0	8.0	10	6.2	100	175	500	103	96	58	30	28
5	6.6	8.0	10	6.2	100	160	600	107	101	52	30	29
6	5.9	8.7	10	6.2	74	150	300	115	107	46	31	28
7	5.4	8.7	10	6.0	73	200	260	122	103	45	30	34
8	6.0	8.7	10	5.6	68	180	115	122	100	44	29	41
9	6.4	8.3	10	5.8	65	170	103	121	95	43	28	40
10	6.4	8.3	10	6.2	63	180	95	122	93	42	30	33
11	6.4	8.0	11	6.6	62	180	94	106	92	40	31	22
12	6.6	8.7	15	14	62	220	89	108	92	40	26	22
13	6.4	9.5	6.2	35	63	180	94	110	84	40	27	22
14	6.0	9.5	6.2	90	859	155	93	110	83	37	27	22
15	6.2	9.5	6.2	190	2040	140	95	111	84	33	27	22
16	6.4	9.5	6.4	170	700	130	108	114	84	32	34	22
17	6.8	9.1	6.6	165	800	110	111	112	84	26	39	22
18	7.0	9.1	6.8	180	1250	100	112	111	80	26	34	22
19	7.0	9.5	7.0	190	1000	95	108	109	76	26	32	22
20	7.3	10	6.8	170	900	92	110	108	77	26	26	22
21	8.0	10	6.8	150	160	90	118	115	79	27	30	23
22	8.0	11	6.8	150	170	88	115	124	74	27	31	25
23	8.3	10	6.8	150	510	84	115	127	77	32	25	27
24	8.3	10	6.8	150	420	84	114	130	70	29	28	29
25	8.0	10	6.0	150	260	82	101	125	66	25	60	28
26	7.6	10	6.2	150	220	75	99	120	70	28	30	27
27	7.3	10	6.2	150	165	73	98	105	73	31	33	26
28	8.0	10	6.4	170	157	75	110	95	65	31	26	26
29	8.0	10	6.4	200	144	77	115	89	61	31	22	25
30	8.0	10	6.4	140	---	77	116	94	61	32	27	25
31	8.0	---	6.2	125	---	77	---	89	---	32	27	---
TOTAL	216.4	276.7	249.2	2956.2	10795	3916	4474	3447	2504	1181	946	796
MEAN	6.98	9.22	8.04	95.4	372	126	149	111	83.5	38.1	30.5	26.5
MAX	8.3	11	15	200	2040	220	600	130	107	68	60	41
MIN	5.4	8.0	6.0	5.6	62	73	69	89	61	25	22	22
AC-FT	429	549	494	5860	21410	7770	8870	6840	4970	2340	1880	1580

CAL YR 1979 TOTAL 20374.8 MEAN 55.8 MAX 2000 MIN 2.3 AC-FT 40410
WTR YR 1980 TOTAL 31757.5 MEAN 86.8 MAX 2040 MIN 5.4 AC-FT 62990

09410100 SANTA CLARA RIVER BELOW WINSOR DAM, NEAR SANTA CLARA, UTAH

LOCATION.--Lat 37°11'18", long 113°46'01", in NE1/4NW1/4SW1/4 sec.28, T.41 S., R.17 W., Washington County, Hydrologic Unit 15010008, on right bank, 1,400 ft (427 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.--WRD Utah-1973(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 fair. Many diversions for irrigation above station. Flow regulated by Gunlock Reservoir except for flooding between reservoir and station.

AVERAGE DISCHARGE.--8 years, 31.6 ft^3/s (0.895 m^3/s), 22,890 acre-ft/yr (28.2 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, 1,540 ft^3/s (43.6 m^3/s) Feb. 19, gage height, 6.55 ft (1.996 m); no flow Oct. 14 to Nov. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	.00	2.0	4.6	119	196	59	98	69	58	25	38
2	5.9	.00	2.0	4.2	119	174	58	96	81	60	24	38
3	21	.00	1.8	5.3	113	194	245	95	74	54	25	38
4	27	.00	1.6	4.2	124	235	459	96	83	49	26	38
5	16	.00	1.4	3.9	131	207	552	98	103	45	26	38
6	17	.00	1.2	4.6	125	201	355	100	105	43	36	38
7	8.6	.00	1.6	2.0	119	270	194	103	112	42	28	40
8	7.2	.00	3.2	.31	110	201	105	90	96	42	32	47
9	7.2	.00	3.2	9.6	81	192	103	88	97	38	34	50
10	6.3	18	2.4	13	65	200	98	87	96	35	34	44
11	9.1	6.3	2.2	21	63	206	129	90	92	36	37	37
12	8.2	18	1.6	52	69	292	85	84	88	34	37	31
13	2.8	87	1.2	110	71	211	68	68	82	33	33	25
14	.00	81	1.4	161	588	175	65	68	80	31	34	23
15	.00	45	1.6	467	1070	161	73	75	79	26	34	21
16	.00	13	2.6	233	780	156	88	78	78	25	38	20
17	.00	21	2.6	190	860	128	91	70	77	29	43	19
18	.00	16	1.8	350	1150	120	97	69	75	29	36	20
19	.00	24	2.4	318	970	112	103	74	72	30	36	20
20	.00	22	3.2	217	940	98	100	70	70	31	27	19
21	.00	15	3.9	173	169	101	105	84	70	31	33	18
22	.00	13	3.5	181	350	100	114	114	68	32	34	20
23	.00	16	2.8	186	591	90	97	132	66	31	26	23
24	.00	17	2.8	188	468	88	95	116	64	18	33	25
25	.00	13	3.5	198	361	87	90	123	62	31	66	21
26	.00	4.6	4.2	207	295	81	88	110	64	32	34	22
27	.00	3.2	3.2	213	255	76	88	94	66	17	38	22
28	.00	2.4	3.5	220	222	69	92	81	62	23	37	22
29	.00	2.2	3.5	616	229	68	98	77	59	24	33	25
30	.00	2.2	4.6	408	---	69	100	81	56	25	35	31
31	.00	---	4.2	145	---	64	---	58	---	24	37	---
TOTAL	143.90	439.90	80.7	4905.71	10607	4622	4094	2767	2346	1058	1051	873
MEAN	4.64	14.7	2.60	158	366	149	136	89.3	78.2	34.1	33.9	29.1
MAX	27	87	4.6	616	1150	292	552	132	112	60	66	50
MIN	.00	.00	1.2	.31	63	64	58	58	56	17	24	18
AC-FT	285	873	160	9730	21040	9170	8120	5490	4650	2100	2080	1730

CAL YR 1979 TOTAL 20052.77 MEAN 54.9 MAX 1500 MIN .00 AC-FT 39770
WTR YR 1980 TOTAL 32988.21 MEAN 90.1 MAX 1150 MIN .00 AC-FT 65430

09413200 VIRGIN RIVER NEAR BLOOMINGTON, UTAH

LOCATION.--Lat 37°04'10", long 113°35'00", in SW1/4SW1/4 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 poor. Many diversions for irrigation above station.

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, about 10,000 ft^3/s (283 m^3/s) Feb. 15; minimum daily, 40 ft^3/s (1.13 m^3/s) Oct. 1-3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	135	155	200	803	750	419	2070	854	200	150	64
2	40	130	155	200	769	700	402	1950	815	400	270	61
3	40	130	170	190	727	895	374	1870	815	330	230	64
4	42	130	175	190	691	1020	385	2010	808	270	175	81
5	42	130	175	190	679	745	455	2390	918	220	150	43
6	44	130	175	195	643	980	582	2440	894	190	135	46
7	46	130	180	195	637	1340	685	2540	854	190	115	259
8	50	170	180	195	631	930	615	2260	823	390	108	1310
9	55	230	180	190	613	910	664	2380	815	350	102	854
10	60	225	185	435	571	840	741	2110	830	270	100	3500
11	62	195	185	750	565	1060	878	2090	808	250	100	1500
12	65	195	184	700	559	1440	713	1800	720	240	100	350
13	80	200	188	900	547	830	720	1650	660	230	100	230
14	85	230	205	1500	2370	845	770	1780	600	200	150	130
15	85	200	205	1600	5800	740	886	1980	540	175	130	80
16	80	185	209	650	1800	705	1030	1720	500	165	100	72
17	85	170	209	500	2100	580	1140	1830	460	155	98	68
18	90	170	205	1350	3650	570	1350	1910	430	150	96	66
19	95	200	202	900	2850	570	1700	1910	400	145	94	66
20	100	180	194	700	5640	575	1750	1960	380	145	94	67
21	130	165	202	430	3180	575	1900	2000	350	140	92	78
22	150	160	241	400	2500	575	1950	2040	330	140	90	88
23	120	155	213	380	2020	542	1550	1790	310	160	90	86
24	115	160	217	370	1900	535	1350	1570	295	145	200	84
25	115	160	220	370	1620	548	1540	1470	280	140	400	88
26	115	165	220	380	1210	498	1970	1280	265	150	300	90
27	115	160	220	390	850	485	2190	1050	250	150	200	90
28	118	150	230	380	840	517	2260	974	240	150	120	90
29	120	150	210	1050	840	479	2320	854	230	150	90	90
30	125	150	200	1300	---	449	2060	870	210	150	72	86
31	130	---	200	760	---	437	---	854	---	170	65	---
TOTAL	2639	5040	6089	17940	47605	22665	35349	55402	16684	6310	4316	9781
MEAN	85.1	168	196	579	1642	731	1178	1787	556	204	139	326
MAX	150	230	241	1600	5800	1440	2320	2540	918	400	400	3500
MIN	40	130	155	190	547	437	374	854	210	140	65	43
AC-FT	5230	10000	12080	35580	94420	44960	70110	109900	33090	12520	8560	19400

CAL YR 1979 TOTAL 150232 MEAN 412 MAX 6000 MIN 25 AC-FT 298000
WTR YR 1980 TOTAL 229820 MEAN 628 MAX 5800 MIN 40 AC-FT 455800

VIRGIN RIVER BASIN

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ

LOCATION.--Lat 36°53'30", long 113°55'25", in SW1/4SW1/4 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) National Geodetic Vertical Datum 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) National Geodetic Vertical Datum 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 poor. Diversion above station for irrigation of about 23,200 acres (93.9 km^2).

AVERAGE DISCHARGE.--51 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.--Peak discharges above base of 3,000 ft^3/s (85 m^3/s), and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 30	2000	4,720	134	8.53	2.600
Feb. 15	0200	9,550	270	11.27	3.435
Feb. 20	1000	*10,380	294	11.69	3.563
Sept. 10	1000	7,380	209	10.10	3.078

Minimum daily discharge, 65 ft^3/s (1.84 m^3/s) Oct. 1-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	137	173	195	967	834	453	1710	767	200	98	85
2	65	143	176	207	810	779	447	1640	755	330	90	83
3	65	140	184	203	726	771	429	1590	767	250	180	80
4	65	140	219	187	633	803	418	1620	778	200	132	78
5	77	156	191	187	586	675	459	1850	773	160	98	82
6	73	149	199	199	502	675	580	1990	767	155	80	80
7	75	146	199	199	459	771	704	1990	738	180	78	80
8	75	159	199	187	423	1010	647	1950	698	310	78	601
9	75	203	203	191	342	1030	606	1920	650	240	78	908
10	71	211	203	240	293	1050	668	1780	640	205	78	3750
11	71	207	203	530	244	892	789	1660	630	180	78	937
12	77	207	195	250	227	756	726	1520	570	160	78	360
13	77	184	203	200	219	779	613	1370	520	140	78	250
14	98	175	195	200	1960	741	613	1320	460	125	78	205
15	98	180	190	530	7230	734	690	1610	430	112	95	175
16	95	180	190	440	4030	668	834	1460	390	105	103	145
17	90	175	185	298	4190	661	941	1520	350	98	88	135
18	93	180	185	953	5690	640	992	1580	320	92	80	130
19	88	175	185	1190	5990	633	1130	1590	310	90	78	119
20	88	180	180	515	8780	626	1320	1600	290	88	75	103
21	105	175	185	332	7000	620	1550	1630	275	85	75	123
22	128	170	190	293	3800	613	1700	1620	260	84	75	118
23	111	170	195	266	3000	586	1380	1440	250	84	75	116
24	111	175	200	244	2500	560	1010	1380	240	84	85	114
25	119	175	200	231	2200	573	834	1330	224	85	141	113
26	111	170	205	249	1780	541	1070	1170	209	88	428	120
27	113	170	207	240	1200	535	1400	991	177	98	205	120
28	113	173	207	240	925	522	1800	879	164	101	123	120
29	119	156	187	1810	859	509	1810	796	154	88	95	120
30	122	169	184	2730	---	477	1750	778	147	83	85	120
31	128	---	191	1330	---	471	---	769	---	85	83	---
TOTAL	2861	5130	6008	15066	67565	21535	28363	46053	13703	4385	3291	9570
MEAN	92.3	171	194	486	2330	695	945	1486	457	141	106	319
MAX	128	211	219	2730	8780	1050	1810	1990	778	330	428	3750
MIN	65	137	173	187	219	471	418	769	147	83	75	78
AC-FT	5670	10180	11920	29880	134000	42710	56260	91350	27180	8700	6530	18980

CAL YR 1979 TOTAL 153903 MEAN 422 MAX 2440 MIN 63 AC-FT 305300
WTR YR 1980 TOTAL 223530 MEAN 611 MAX 8780 MIN 65 AC-FT 443400

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Nevada, 1980."

GREAT SALT LAKE BASIN

10010000 GREAT SALT LAKE, UTAH

LOCATION.--Lat 40°44'05", long 112°12'45", in NE1/4SW1/4NW1/4 sec.17, T.1 S., R.3 W., Salt Lake County, Hydrologic Unit 16020204, at 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, WRD Utah 1974: 1967-1973.

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) National Geodetic Vertical Datum 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) National Geodetic Vertical Datum, November 1877 to November 1879 at Farmington Bay at 4,206.9 ft (1,282.26 m) National Geodetic Vertical Datum, November 1879 to April 1881 near Black Rock at 4,203.1 ft (1,281.10 m) National Geodetic Vertical Datum, April 1881 to December 1899 at Garfield Landing at 4,198.5 ft (1,279.70 m) National Geodetic Vertical Datum, and July 1903 to October 1938 at Saltair at 4,196.9 ft (1,279.22 m) National Geodetic Vertical Datum. Staff gage at midlake October 1902 to September 1956 at 4,197.9 ft (1,279.52 m) National Geodetic Vertical Datum 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, 4,200.55 ft (1,280.328 m) June 15; minimum, 4,197.50 ft (1,279.398 m) Oct. 15.

GAGE HEIGHT AND ELEVATION, IN FEET, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Day		Gage height	Elevation
Oct.	1	10.85	4,197.65
	15	10.70	4,197.50
Nov.	1	10.80	4,197.60
	15	10.75	4,197.55
Dec.	1	10.80	4,197.60
	15	10.85	4,197.65
Jan.	1	10.90	4,197.70
	15	11.05	4,197.85
Feb.	1	11.45	4,198.25
	15	11.55	4,198.35
Mar.	1	12.05	4,198.85
	15	12.30	4,199.10
Apr.	1	12.40	4,199.20
	15	12.50	4,199.30
May	1	12.60	4,199.40
	15	13.05	4,199.85
June	1	13.30	4,200.10
	15	13.65	4,200.55
July	1	13.55	4,200.35
	15	13.35	4,200.15
Aug.	1	13.10	4,199.90
	15	12.60	4,199.40
Sept.	1	12.50	4,199.30
	15	12.40	4,199.20
Oct.	1	12.30	4,199.10

10010050 GREAT SALT LAKE AT PROMONTORY POINT, UTAH

LOCATION.--Lat 41°12'55", long 112°29'55", in NE1/4SW1/4SE1/4 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.--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) National Geodetic Vertical Datum 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, 4,200.35 ft (1,280.267 m) June 15; minimum, 4,197.35 ft (1,279.352 m) Oct. 15.

GAGE HEIGHT AND ELEVATION, IN FEET, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Day		Gage height	Elevation
Oct.	1	7.25	4,197.40
	15	7.20	4,197.35
Nov.	1	7.25	4,197.40
	15	7.25	4,197.40
Dec.	1	7.25	4,197.40
	15	7.35	4,197.50
Jan.	1	7.40	4,197.55
	15	7.65	4,197.80
Feb.	1	8.00	4,198.15
	15	8.05	4,198.20
Mar.	1	8.70	4,198.85
	15	8.90	4,199.05
Apr.	1	9.00	4,199.15
	15	9.00	4,199.15
May	1	9.20	4,199.35
	15	9.60	4,199.75
June	1	9.95	4,200.10
	15	10.20	4,200.35
July	1	10.10	4,200.25
	15	9.90	4,200.05
Aug.	1	9.65	4,199.80
	15	9.20	4,199.35
Sept.	1	8.85	4,199.00
	15	8.80	4,198.95
Oct.	1		4,198.80

10010100 GREAT SALT LAKE NEAR SALINE, UTAH

LOCATION.--Lat 41°15'30", long 112°29'58", in NE1/4SW1/4SW1/4 sec.11, T.6 N., R.6 W., Box Elder County, Hydrologic Unit 16020309, 3.4 mi (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.--UT-75-1: 1966-1975.

GAGE.--Water-stage recorder on pier of boat harbor. Datum of gage, 4,189.976 ft (1,277.105 m) National Geodetic Vertical Datum 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, 4,198.50 ft (1,279.703 m) June 15; minimum, 4,196.55 ft (1,279.108 m) Dec. 1.

GAGE HEIGHT AND ELEVATION, IN FEET, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Day		Gage height	Elevation
Oct.	1	6.80	4,196.80
	15	6.65	4,196.65
Nov.	1	6.60	4,196.60
	15	6.60	4,196.60
Dec.	1	6.55	4,196.55
	15	6.60	4,196.60
Jan.	1	6.65	4,196.65
	15	6.55	4,196.85
Feb.	1	7.00	4,197.00
	15	7.15	4,197.15
Mar.	1	7.50	4,197.50
	15	7.75	4,197.75
Apr.	1	7.75	4,197.75
	15	7.75	4,197.75
May	1	7.90	4,197.90
	15	8.10	4,198.10
June	1	8.35	4,198.35
	15	8.50	4,198.50
July	1	8.45	4,198.45
	15	8.40	4,198.40
Aug.	1	8.25	4,198.25
	15	8.05	4,198.05
Sept.	1	7.95	4,197.95
	15	7.85	4,197.85

10010400 EAST FORK BEAR RIVER NEAR EVANSTON, WY

LOCATION.--Lat 40°52'25", long 110°47'00", in SE1/4SW1/4 sec.26, T.2 N., R.10 E., Summit County, Utah, Hydrologic Unit 16010101, Wasatch National Forest, on right bank 4.1 mi (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 Jan. 30 to Apr. 16, which are fair.

AVERAGE DISCHARGE.--7 years, 50.2 ft^3/s (1.42 m^3/s), 36,370 acre-ft/yr (44.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 631 ft^3/s (17.9 m^3/s) July 4, 1975, gage height, 4.15 ft (1.265 m); minimum, 4.5 ft^3/s (0.127 m^3/s) Apr. 17, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 477 ft^3/s (13.5 m^3/s) June 11, gage height, 3.67 ft (1.119 m); minimum, 4.5 ft^3/s (0.127 m^3/s) Apr. 17 (may have been less during periods of ice effect).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	12	10	7.5	7.5	7.0	7.0	60	123	249	42	21
2	11	12	10	7.5	7.5	6.5	7.0	58	124	240	40	19
3	9.8	12	9.5	8.0	7.5	6.5	7.0	68	134	213	37	17
4	10	12	8.8	8.5	7.5	6.5	7.0	80	177	191	35	17
5	10	12	8.4	8.7	7.5	7.0	7.5	95	209	172	34	16
6	9.9	12	8.0	8.5	7.5	7.0	7.5	92	222	159	32	16
7	9.9	12	8.0	8.5	7.5	7.0	7.5	101	204	155	30	18
8	9.9	12	8.0	8.5	7.5	7.0	7.5	104	247	144	29	19
9	9.5	12	7.7	8.5	7.5	7.0	7.5	105	300	135	29	20
10	9.7	12	7.7	8.0	7.5	7.0	8.0	89	357	138	28	35
11	9.7	12	7.0	8.5	7.5	7.0	8.0	74	406	132	27	30
12	9.7	12	6.5	9.0	7.5	7.0	8.0	68	406	124	26	28
13	9.6	12	7.0	9.5	7.5	7.0	9.0	63	362	117	26	28
14	10	11	7.5	10	7.5	7.0	10	65	334	105	27	23
15	11	10	7.5	9.5	7.5	7.0	12	56	286	98	30	23
16	11	9.0	7.5	9.0	7.5	7.0	14	60	256	94	27	22
17	11	8.8	7.5	8.5	7.5	7.0	15	57	293	88	25	21
18	14	8.8	7.5	8.0	8.5	7.0	16	56	308	84	24	20
19	17	8.8	7.5	7.5	10	7.0	20	67	349	80	24	20
20	17	8.8	7.5	7.5	8.5	7.0	27	84	341	76	24	19
21	17	9.2	7.5	7.5	7.5	7.0	26	126	318	71	22	19
22	16	8.8	7.5	7.5	7.5	7.0	40	183	308	66	21	19
23	14	8.8	7.5	7.5	7.5	7.0	43	233	302	67	23	19
24	14	8.8	7.5	7.5	7.5	7.0	40	177	284	62	22	18
25	14	9.5	7.5	7.5	7.5	7.0	42	134	276	57	27	18
26	13	9.5	7.5	7.5	7.5	7.0	50	115	271	53	30	17
27	11	9.9	7.5	7.5	7.5	7.0	50	109	253	54	22	17
28	12	10	7.5	7.5	7.5	7.0	55	114	218	48	21	16
29	15	9.9	7.5	7.5	7.5	7.0	68	123	223	46	19	16
30	13	9.9	7.5	7.5	---	7.0	71	111	247	46	19	15
31	12	---	7.5	7.5	---	7.0	---	117	---	43	22	---
TOTAL	370.7	315.5	241.6	251.7	222.0	215.5	697.5	3044	8138	3407	844	606
MEAN	12.0	10.5	7.79	8.12	7.66	6.95	23.3	98.2	271	110	27.2	20.2
MAX	17	12	10	10	10	7.0	71	233	406	249	42	35
MIN	9.5	8.8	6.5	7.5	7.5	6.5	7.0	56	123	43	19	15
AC-FT	735	626	479	499	440	427	1380	6040	16140	6760	1670	1200

CAL YR 1979 TOTAL 14024.2 MEAN 38.4 MAX 424 MIN 6.1 AC-FT 27820
WTR YR 1980 TOTAL 18353.5 MEAN 50.1 MAX 406 MIN 6.5 AC-FT 36400

10011200 WEST FORK BEAR RIVER AT WHITNEY DAM, NEAR OAKLEY, UT

LOCATION.--Lat 40°50'30", long 110°55'35", in NE1/4 sec.9, T.1 N., R. 9 E., Summit County, Hydrologic Unit 16010101, Wasatch National Forest, on left bank 1,380 ft (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-1973: 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 fair except those for winter months and period of no gage-height record, Nov. 14 to Apr. 14 and Apr. 23 to Aug. 19, which are poor. Flow regulated by Whitney Reservoir, total capacity, 4,700 acre-ft (5.80 hm^3) since July 1966.

AVERAGE DISCHARGE.--14 years (water years 1967-80), 7.86 ft^3/s (0.223 m^3/s), 5,690 acre-ft/yr (7.02 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 daily discharge, 80 ft^3/s (2.27 m^3/s) July 24-29 (occurred during period of no gage-height record); minimum, 0.15 ft^3/s (0.004 m^3/s) several days during October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	.31	.40	.50	.70	.90	1.1	1.2	2.5	46	29	5.1
2	.16	.31	.40	.50	.70	.90	1.1	1.3	2.5	48	28	5.1
3	.16	.28	.40	.50	.70	.90	1.1	1.3	2.5	39	27	5.2
4	.16	.28	.40	.50	.70	.90	1.1	1.4	2.6	41	26	5.2
5	.15	.28	.40	.50	.70	.90	1.1	1.4	2.6	25	20	5.2
6	.16	.28	.40	.50	.70	.90	1.1	1.5	2.6	20	6.0	36
7	.16	.28	.40	.50	.70	.90	1.1	1.5	2.7	19	6.0	51
8	.16	.28	.40	.50	.70	.90	1.1	1.6	2.7	18	6.0	50
9	.16	.28	.40	.50	.70	.90	1.1	1.6	2.7	17	6.0	49
10	.16	.29	.40	.50	.70	.90	1.1	1.7	2.8	16	6.0	48
11	.16	.31	.40	.50	.70	.90	1.2	1.7	2.8	15	5.5	48
12	.16	.31	.40	.50	.70	.90	1.2	1.8	2.9	13	5.5	46
13	.15	.31	.40	.50	.70	.90	1.2	1.8	2.9	12	5.5	45
14	.15	.30	.40	.50	.70	.90	1.2	1.9	2.9	11	5.5	44
15	.16	.30	.40	.50	.70	.90	1.2	1.9	3.0	10	5.5	43
16	.20	.30	.40	.60	.80	1.0	1.2	2.0	3.0	9.0	5.5	42
17	.22	.30	.40	.60	.80	1.0	1.2	2.0	3.1	8.0	5.5	40
18	.22	.30	.40	.60	.80	1.0	1.2	2.1	3.1	7.5	5.5	38
19	.23	.30	.40	.60	.80	1.0	1.2	2.1	3.1	7.0	5.5	37
20	.25	.30	.40	.60	.80	1.0	1.2	2.1	3.2	6.0	5.4	17
21	.20	.30	.40	.60	.80	1.0	1.2	2.1	3.2	5.5	5.3	.66
22	.20	.30	.40	.60	.80	1.0	1.2	2.1	17	5.0	5.3	.63
23	.20	.30	.40	.60	.80	1.0	1.2	2.2	60	35	5.3	.63
24	.22	.30	.40	.60	.80	1.0	1.2	2.2	68	80	5.3	.63
25	.20	.30	.40	.60	.80	1.0	1.2	2.2	65	80	5.3	.60
26	.20	.30	.40	.60	.80	1.0	1.2	2.3	60	80	5.3	.60
27	.29	.30	.40	.60	.80	1.0	1.2	2.3	56	80	5.2	.57
28	.28	.30	.40	.60	.80	1.0	1.2	2.3	52	80	5.1	.54
29	.25	.30	.40	.60	.80	1.0	1.2	2.4	49	80	5.1	.52
30	.36	.30	.40	.60	---	1.0	1.2	2.4	45	60	5.1	.49
31	.36	---	.40	.60	---	1.0	---	2.4	---	31	5.1	---
TOTAL	6.25	8.90	12.40	17.10	21.70	29.50	35.0	58.8	531.4	1004.0	272.3	665.67
MEAN	.20	.30	.40	.55	.75	.95	1.17	1.90	17.7	32.4	8.78	22.2
MAX	.36	.31	.40	.60	.80	1.0	1.2	2.4	68	80	29	51
MIN	.15	.28	.40	.50	.70	.90	1.1	1.2	2.5	5.0	5.1	.49
AC-FT	12	18	25	34	43	59	69	117	1050	1990	540	1320

CAL YR 1979 TOTAL 2010.88 MEAN 5.51 MAX 97 MIN .09 AC-FT 3990
WTR YR 1980 TOTAL 2663.02 MEAN 7.28 MAX 80 MIN .15 AC-FT 5280

10011400 WEST FORK BEAR RIVER BELOW DEER CREEK, NEAR EVANSTON, WY

LOCATION.--Lat 40°56'40", long 110°51'40", in NW1/4SW1/4 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.--7 years, 40.6 ft^3/s (1.15 m^3/s), 29,410 acre-ft/yr (36.3 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, 397 ft^3/s (11.2 m^3/s) May 22, gage height, 3.52 ft (1.073 m); minimum, 4.0 ft^3/s (0.113 m^3/s) Dec. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	8.5	8.0	8.0	8.5	8.0	8.0	81	198	97	34	16
2	4.8	8.5	8.0	8.0	8.5	8.0	8.0	93	189	103	32	14
3	4.8	8.5	8.0	8.0	8.5	7.6	8.0	114	204	89	31	14
4	4.8	8.5	8.5	8.5	8.5	7.8	8.0	136	235	90	30	14
5	4.8	8.5	8.7	9.1	8.5	8.0	8.5	155	255	72	27	14
6	4.8	8.5	8.1	8.5	8.5	8.0	8.5	174	242	62	16	40
7	4.8	8.5	7.7	8.9	8.5	8.0	8.5	194	215	59	16	85
8	4.8	8.5	7.4	8.9	8.5	8.0	8.5	218	230	58	15	83
9	4.8	8.5	7.5	8.8	8.5	8.0	8.5	212	243	54	15	83
10	5.0	8.5	7.1	6.8	8.5	8.0	9.3	163	252	49	15	83
11	5.0	8.5	6.0	8.9	8.5	8.0	9.0	129	254	45	14	82
12	5.0	8.5	6.0	9.3	8.5	8.0	9.0	113	243	41	14	82
13	5.0	8.5	6.0	9.7	8.8	8.0	9.5	101	220	38	14	77
14	5.3	8.5	6.5	11	8.7	8.0	10	107	204	35	14	73
15	5.7	8.5	7.0	10	8.8	8.0	11	115	181	33	14	72
16	6.0	8.0	7.5	9.6	8.6	8.0	12	120	165	31	15	70
17	6.1	8.0	8.0	9.4	8.5	8.0	13	112	165	28	14	69
18	7.0	8.0	8.0	9.1	9.8	8.0	15	125	166	27	14	67
19	14	8.0	8.0	8.5	11	8.0	19	182	167	26	16	64
20	18	8.0	8.0	8.5	8.9	8.0	24	230	161	25	15	52
21	16	8.0	8.0	8.5	8.5	8.0	32	279	147	24	14	13
22	13	8.0	8.0	8.5	8.5	8.0	36	310	138	22	14	12
23	9.3	8.0	8.0	8.5	8.5	8.0	34	337	140	51	14	11
24	10	8.0	8.0	8.5	8.5	8.0	35	276	147	98	14	11
25	11	8.0	8.0	8.5	8.5	8.0	38	195	141	96	20	10
26	11	8.0	8.0	8.5	8.5	8.0	46	165	132	95	18	10
27	9.1	8.0	8.0	8.5	8.5	8.0	52	175	122	93	15	10
28	8.2	8.0	8.0	8.5	8.5	8.0	64	190	110	92	14	9.6
29	8.9	8.0	8.0	8.5	8.5	8.0	78	194	102	91	13	9.3
30	8.5	8.0	8.0	8.5	---	8.0	89	172	99	70	14	8.9
31	8.5	---	8.0	8.5	---	8.0	---	190	---	35	16	---
TOTAL	238.8	247.5	238.0	271.0	251.6	247.4	719.3	5357	5467	1829	541	1258.8
MEAN	7.70	8.25	7.68	8.74	8.68	7.98	24.0	173	182	59.0	17.5	42.0
MAX	18	8.5	8.7	11	11	8.0	89	337	255	103	34	85
MIN	4.8	8.0	6.0	6.8	8.5	7.6	8.0	81	99	22	13	8.9
AC-FT	474	491	472	538	499	491	1430	10630	10840	3630	1070	2500

CAL YR 1979 TOTAL 9977.8 MEAN 27.3 MAX 235 MIN 3.8 AC-FT 19790
WTR YR 1980 TOTAL 16666.4 MEAN 45.5 MAX 337 MIN 4.8 AC-FT 33060

10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE

LOCATION.--Lat 40°57'55", long 110°51'10", in SE1/4 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-1974: 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.--38 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 23	2200	1180	33.4	3.17	0.966
June 12	0100	*1660	47.0	3.71	1.131
June 20	0100	1280	36.2	3.27	.997

Minimum discharge, 12 ft^3/s (0.340 m^3/s) Nov. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	33	26	27	31	31	30	280	565	758	107	64
2	29	33	28	27	30	31	30	276	558	746	100	60
3	27	33	30	29	29	31	30	313	578	663	94	58
4	27	33	30	28	28	31	30	383	710	618	90	58
5	27	33	30	28	28	32	30	451	848	536	94	56
6	27	33	30	28	29	32	30	457	869	479	90	82
7	27	33	30	29	29	32	29	515	777	463	86	128
8	27	33	30	29	27	32	31	563	890	448	82	127
9	26	32	30	29	26	32	31	550	1040	415	78	128
10	26	31	28	30	25	32	34	467	1200	401	76	143
11	25	30	26	28	26	32	30	371	1360	383	72	136
12	25	31	24	32	27	32	31	321	1350	347	69	134
13	25	32	26	33	28	32	34	283	1180	315	67	129
14	26	33	28	37	28	32	35	278	1040	278	68	120
15	27	34	29	35	28	31	40	308	950	245	78	119
16	31	35	29	36	29	29	41	315	876	221	72	115
17	30	36	29	36	29	27	46	300	939	197	68	113
18	34	35	29	36	30	28	55	300	1000	187	65	110
19	51	34	30	35	29	29	70	391	1060	177	63	106
20	71	33	29	34	31	30	93	514	1090	170	74	93
21	47	32	29	34	31	30	123	693	990	158	65	54
22	42	30	30	34	32	31	157	900	976	148	60	53
23	45	32	29	33	32	31	168	1120	946	156	61	51
24	44	35	28	32	31	31	151	905	911	210	60	50
25	46	37	30	31	30	31	166	659	883	191	70	49
26	47	39	28	31	32	30	193	531	855	185	100	48
27	40	36	26	31	34	30	207	515	815	176	71	48
28	37	31	25	30	34	30	223	542	692	173	61	47
29	41	28	25	30	32	30	279	568	692	167	55	46
30	37	25	25	29	---	30	326	509	752	156	54	45
31	34	---	26	30	---	30	---	542	---	113	60	---
TOTAL	1076	985	872	971	855	952	2773	15120	27392	9880	2310	2570
MEAN	34.7	32.8	28.1	31.3	29.5	30.7	92.4	488	913	319	74.5	85.7
MAX	71	39	30	37	34	32	326	1120	1360	758	107	143
MIN	25	25	24	27	25	27	29	276	558	113	54	45
AC-FT	2130	1950	1730	1930	1700	1890	5500	29990	54330	19600	4580	5100

CAL YR 1979 TOTAL 48395 MEAN 133 MAX 1560 MIN 24 AC-FT 95990
WTR YR 1980 TOTAL 65756 MEAN 180 MAX 1360 MIN 24 AC-FT 130400

10015700 SULPHUR CREEK ABOVE RESERVOIR, NEAR EVANSTON, WY

LOCATION.--Lat 41°08'38", long 110°48'19", in SE1/4SW1/4 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-1974: 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.--23 years, 15.9 ft^3/s (0.450 m^3/s), 11,520 acre-ft/yr (14.2 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, 673 ft^3/s (19.1 m^3/s) April 25, gage height, 5.48 ft (1.670 m); maximum gage height, 6.17 ft (1.881 m) April 19 (backwater from ice); no flow Oct. 1-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.88	.60	.60	4.5	5.0	5.2	202	41	6.4	2.0	.31
2	.00	.64	.60	.60	4.5	5.0	5.2	136	45	18	.96	.22
3	.00	.64	.60	.60	4.5	5.0	5.2	128	42	10	.64	.16
4	.00	.72	.60	.60	4.5	5.0	5.2	108	40	16	.56	.10
5	.00	1.0	.60	.60	4.5	5.2	5.2	131	47	10	.64	.09
6	.00	.96	.60	.60	4.5	5.2	5.2	126	43	3.6	.64	.08
7	.00	.80	.60	.60	4.5	5.2	5.2	138	31	2.1	.72	.13
8	.00	.70	.60	.60	4.5	5.2	5.2	129	22	4.0	.64	.22
9	.00	.60	.60	.60	4.5	5.2	5.5	129	30	6.4	.96	.31
10	.00	.50	.60	.60	4.5	5.2	6.0	109	28	6.4	.40	.80
11	.01	.48	.60	.60	4.5	5.2	6.0	78	26	4.5	.28	.80
12	.04	.31	.60	1.0	4.5	5.2	7.0	62	21	2.1	.25	.96
13	.06	.25	.60	4.0	4.5	5.2	8.0	80	14	1.5	.25	.80
14	.08	.22	.60	6.0	5.0	5.2	10	65	13	1.2	.19	.72
15	.10	.22	.60	6.0	5.0	5.2	12	52	14	.88	.25	.37
16	.16	.22	.60	5.5	5.0	5.2	13	59	13	1.2	.25	.34
17	.16	.25	.60	5.0	5.0	5.2	15	96	12	.80	.25	.28
18	.25	.28	.60	5.0	5.0	5.2	25	81	10	.56	.19	.25
19	.34	.34	.60	4.5	5.0	5.2	45	76	10	.56	.19	.19
20	1.1	.56	.60	4.5	5.0	5.2	80	99	13	.48	.34	.22
21	.80	.64	.60	4.5	5.0	5.2	140	129	19	1.2	.40	.25
22	.64	.80	.60	4.5	5.0	5.2	250	142	10	.48	.48	.28
23	.64	.96	.60	4.5	5.0	5.2	230	152	7.5	.64	.40	.34
24	.64	.96	.60	4.5	5.0	5.2	208	136	6.1	.88	.37	.34
25	.64	.96	.60	4.5	5.0	5.2	290	68	5.8	1.2	1.2	.34
26	.56	.80	.60	4.5	5.0	5.2	262	51	3.6	2.7	1.6	.31
27	.48	.70	.60	4.5	5.0	5.2	173	43	2.6	2.4	.88	.31
28	.48	.60	.60	4.5	5.0	5.2	153	36	2.4	1.5	.48	.28
29	.56	.60	.60	4.5	5.0	5.2	146	36	2.2	1.0	.72	.25
30	.72	.60	.60	4.5	---	5.2	219	39	2.9	.88	.56	.22
31	.72	---	.60	4.5	---	5.2	---	41	---	2.4	.34	---
TOTAL	9.18	18.19	18.60	97.60	138.5	160.4	2345.1	2957	577.1	111.96	18.03	10.27
MEAN	.30	.61	.60	3.15	4.78	5.17	78.2	95.4	19.2	3.61	.58	.34
MAX	1.1	1.0	.60	6.0	5.0	5.2	290	202	47	18	2.0	.96
MIN	.00	.22	.60	.60	4.5	5.0	5.2	36	2.2	.48	.19	.08
AC-FT	18	36	37	194	275	318	4650	5870	1140	222	36	20

CAL YR 1979 TOTAL 2576.86 MEAN 7.06 MAX 115 MIN .00 AC-FT 5110
WTR YR 1980 TOTAL 6461.93 MEAN 17.7 MAX 290 MIN .00 AC-FT 12820

10015900 SULPHUR CREEK BELOW RESERVOIR, NEAR EVANSTON, WY

LOCATION.--Lat 41°09'21", long 110°50'05", in SE1/4SE1/4 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-1974: 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.--16 years (water years 1965-80), 23.5 ft^3/s (0.666 m^3/s), 17,030 acre-ft/yr (21.0 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, 271 ft^3/s (7.67 m^3/s) Apr. 28, gage height, 2.89 ft (0.881 m); no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	.00	.00	.00	.00	.00	49	250	62	.00	46	24
2	2.3	.00	.00	.00	.00	.00	49	219	74	.00	41	24
3	2.3	.00	.00	.00	.00	.00	49	195	74	.00	37	24
4	2.4	.00	.00	.00	.00	.00	49	187	74	.39	38	24
5	2.3	.00	.00	.00	.00	.00	49	187	74	2.2	38	23
6	2.3	.00	.00	.00	.00	.00	48	187	40	3.5	38	23
7	2.2	.00	.00	.00	.00	.00	48	187	20	4.1	38	23
8	2.2	.00	.00	.00	.00	.00	48	186	20	6.2	36	23
9	2.2	.00	.00	.00	.00	.00	48	187	20	10	32	23
10	2.2	.00	.00	.00	.00	15	48	186	20	12	32	23
11	2.3	.00	.00	.00	.00	30	47	186	20	11	32	23
12	2.2	.00	.00	.00	.00	30	47	184	20	9.3	30	23
13	2.2	.00	.00	.00	.00	30	47	184	20	6.9	27	19
14	1.9	.00	.00	.00	.00	30	47	66	20	5.9	27	9.6
15	.06	.00	.00	.00	.00	30	47	7.2	20	6.4	27	9.5
16	.00	.00	.00	.00	.00	30	46	7.3	20	7.5	27	9.5
17	.00	.00	.00	.00	.00	30	46	7.3	20	6.2	27	9.5
18	.00	.00	.00	.00	.00	30	46	7.5	20	11	36	9.5
19	.00	.00	.00	.00	.00	30	46	26	20	17	42	9.5
20	.00	.00	.00	.00	.00	30	47	47	20	17	42	9.5
21	.00	.00	.00	.00	.00	30	49	48	20	38	42	7.8
22	.00	.00	.00	.00	.00	30	52	49	20	55	42	.05
23	.00	.00	.00	.00	.00	30	54	53	7.0	63	42	.00
24	.00	.00	.00	.00	.00	30	56	82	.07	51	41	.00
25	.00	.00	.00	.00	.00	40	58	84	.03	50	41	.00
26	.00	.00	.00	.00	.00	50	80	73	.00	47	39	.00
27	.00	.00	.00	.00	.00	50	200	63	.00	40	28	.00
28	.00	.00	.00	.00	.00	50	247	56	.00	40	28	.00
29	.00	.00	.00	.00	.00	50	234	52	.00	41	28	.00
30	.00	.00	.00	.00	---	50	241	51	.00	42	28	.00
31	.00	---	.00	.00	---	50	---	50	---	46	27	---
TOTAL	31.36	.00	.00	.00	.00	775.00	2222	3354.3	725.10	649.59	1079	373.45
MEAN	1.01	.000	.000	.000	.000	25.0	74.1	108	24.2	21.0	34.8	12.4
MAX	2.4	.00	.00	.00	.00	50	247	250	74	63	46	24
MIN	.00	.00	.00	.00	.00	.00	46	7.2	.00	.00	27	.00
AC-FT	62	.00	.00	.00	.00	1540	4410	6650	1440	1290	2140	741

CAL YR 1979 TOTAL 3593.99 MEAN 9.85 MAX 79 MIN .00 AC-FT 7130
WTR YR 1980 TOTAL 9209.80 MEAN 25.2 MAX 250 MIN .00 AC-FT 18270

10019500 CHAPMAN CANAL AT STATE LINE, NEAR EVANSTON, WY

LOCATION.--Lat 41°24'24", long 111°02'26", in SE1/4 sec.36, T.17 N., R.121 W., Uinta County, Hydrologic Unit 16010101, on left bank at highway bridge, 6.5 mi (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 NW1/4 sec.36, T.16 N., R.121 W. Many diversions above station for irrigation in Wyoming. Flow at station is for storage in Neponset Reservoir, Utah, and irrigation in Saleratus basin, Utah.

AVERAGE DISCHARGE.--36 years (water years 1945-80), 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 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	1.6	10	.00	.00	.00	13	42	43	48	11	6.6
2	1.0	1.6	10	.00	.00	.00	15	31	51	57	11	6.9
3	1.3	2.3	10	.00	.00	.00	15	28	58	59	9.9	9.6
4	1.3	2.1	10	.00	.00	.00	15	27	58	54	9.0	9.6
5	1.8	2.3	10	.00	.00	.00	15	27	57	46	8.4	8.4
6	1.3	2.3	10	.00	.00	.00	15	27	58	37	9.0	8.1
7	1.3	2.1	10	.00	.00	.00	15	28	54	26	7.8	9.3
8	1.0	1.3	10	.00	.00	.00	15	29	83	30	7.8	9.3
9	.26	1.3	10	.00	.00	.00	15	28	87	35	8.1	9.9
10	.26	.78	10	.00	.00	.00	15	28	87	34	6.6	14
11	.26	.78	10	.00	.00	.00	15	39	88	32	5.7	16
12	1.3	.78	5.0	.00	.00	6.0	15	71	79	30	4.3	19
13	1.6	1.0	.00	.00	.00	12	15	71	65	27	4.6	21
14	1.6	.78	.00	.00	.00	12	15	71	58	24	4.0	17
15	.26	1.5	.00	.00	.00	12	15	64	56	17	4.0	12
16	.00	5.0	.00	.00	.00	12	16	67	51	18	5.1	11
17	.26	10	.00	.00	.00	12	17	71	44	14	4.8	11
18	1.0	14	.00	.00	.00	12	18	74	48	10	4.6	12
19	2.9	14	.00	.00	.00	12	19	70	51	6.9	3.2	11
20	7.2	14	.00	.00	.00	12	20	74	54	4.8	6.3	13
21	13	14	.00	.00	.00	12	21	81	60	3.7	9.6	22
22	9.9	5.0	.00	.00	.00	12	23	83	58	2.9	9.0	23
23	8.1	10	.00	.00	.00	12	25	92	49	6.0	9.9	18
24	9.6	10	.00	.00	.00	13	27	134	48	7.2	9.0	17
25	3.2	10	.00	.00	.00	12	29	116	46	4.6	7.5	17
26	1.6	10	.00	.00	.00	12	31	86	50	7.2	9.3	16
27	1.8	10	.00	.00	.00	12	33	78	48	7.2	12	15
28	2.9	10	.00	.00	.00	13	35	74	46	6.3	10	15
29	2.6	10	.00	.00	.00	12	34	70	42	6.3	8.7	15
30	2.9	10	.00	.00	---	12	35	64	45	8.7	8.7	15
31	1.8	---	.00	.00	---	17	---	51	---	11	6.6	---
TOTAL	83.30	178.52	115.00	.00	.00	241.00	606	1896	1722	680.8	235.5	407.7
MEAN	2.69	5.95	3.71	.000	.000	7.77	20.2	61.2	57.4	22.0	7.60	13.6
MAX	13	14	10	.00	.00	17	35	134	88	59	12	23
MIN	.00	.78	.00	.00	.00	.00	13	27	42	2.9	3.2	6.6
AC-FT	165	354	228	.00	.00	478	1200	3760	3420	1350	467	809

CAL YR 1979 TOTAL 7274.24 MEAN 19.9 MAX 126 MIN .00 AC-FT 14430
WTR YR 1980 TOTAL 6165.82 MEAN 16.8 MAX 134 MIN .00 AC-FT 12230

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°26'04", long 111°01'01", in NW1/4NW1/4 sec.29, T.17 N., R.120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, on right bank 9.3 mi (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-1974: 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.--19 years, 231 ft^3/s (6.54 m^3/s), 167,400 acre-ft/yr (206 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, 1,790 ft^3/s (50.7 m^3/s) Apr. 22; gage height, 5.10 ft (1.554 m); minimum, 2.0 ft^3/s (0.057 m^3/s) Oct. 3-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	29	11	29	30	60	74	1570	734	398	18	6.0
2	2.6	28	11	36	40	70	74	1250	792	584	19	5.5
3	2.3	29	12	37	50	75	67	1070	805	519	18	6.0
4	2.1	31	13	38	60	78	74	1020	890	480	13	7.4
5	2.3	34	15	39	55	80	109	1080	1030	432	10	7.0
6	2.3	36	16	36	60	85	144	1110	1140	320	9.5	7.4
7	2.6	32	17	28	60	90	114	1180	1030	262	9.0	9.0
8	2.4	32	19	30	40	90	96	1270	883	274	8.3	12
9	2.4	33	21	34	30	95	124	1330	928	292	8.3	13
10	2.4	30	23	30	30	100	198	1290	1060	262	8.7	14
11	2.3	27	23	28	35	105	186	1080	1200	230	7.7	20
12	2.3	25	20	39	40	105	192	883	1350	220	7.0	29
13	2.4	23	17	55	50	109	161	818	1330	189	6.4	31
14	2.4	20	18	65	60	150	198	714	1120	161	6.0	27
15	2.4	17	20	75	70	195	302	493	954	134	6.7	16
16	2.3	15	24	75	70	173	398	526	779	107	7.0	12
17	2.4	13	27	75	70	156	444	636	688	81	8.0	10
18	2.6	14	28	75	70	118	552	694	714	49	10	10
19	5.2	19	28	72	70	87	792	616	760	32	10	12
20	21	13	29	70	70	116	1140	727	831	24	9.0	9.5
21	45	11	30	66	70	96	1530	922	812	17	13	10
22	36	10	33	64	65	85	1720	1210	740	16	14	14
23	26	9.5	31	62	60	85	1620	1480	688	16	12	18
24	26	10	26	65	55	85	1460	1690	636	18	10	15
25	30	11	27	70	50	85	1290	1440	604	15	8.3	14
26	32	14	31	70	52	96	1510	994	552	12	8.7	14
27	36	13	29	60	54	62	1500	818	486	15	12	13
28	36	12	24	50	56	64	1310	792	432	13	16	12
29	30	11	23	40	58	57	1180	812	370	12	12	12
30	30	10	23	30	---	67	1340	779	365	12	7.7	12
31	30	---	23	25	---	72	---	694	---	14	6.7	---
TOTAL	426.1	611.5	692	1568	1580	2991	19899	30988	24703	5210	320.0	397.8
MEAN	13.7	20.4	22.3	50.6	54.5	96.5	663	1000	823	168	10.3	13.3
MAX	45	36	33	75	70	195	1720	1690	1350	584	19	31
MIN	2.1	9.5	11	25	30	57	67	493	365	12	6.0	5.5
AC-FT	845	1210	1370	3110	3130	5930	39470	61460	49000	10330	635	789

CAL YR 1979 TOTAL 34793.9 MEAN 95.3 MAX 1390 MIN 1.8 AC-FT 69010
WTR YR 1980 TOTAL 89386.4 MEAN 244 MAX 1720 MIN 2.1 AC-FT 177300

10020200 WOODRUFF NARROWS RESERVOIR NEAR WOODRUFF, UTAH

LOCATION.--Lat 41°30'10", long 111°00'55", in 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-1974: Drainage area.

GAGE.--Water-stage recorder and mercury manometer. Datum of gage is 6,405 ft (1,952.2 m) from levels by Water and Power Resources Service.

REMARKS.--Records good except those for period of no gage-height record, Jan. 10 to Apr. 10, Apr. 15 to June 3, and Aug. 20 to Sept. 30, which are fair. Reservoir formed by earthfill,rock-faced dam. Lower portion of spillway cut in natural rock. Storage began Jan. 5, 1962. Total capacity, 28,000 acre-ft (34.5 hm^3) below spillway crest, which includes 18,240 acre-ft (22.5 hm^3) of Compact allocation for irrigation, 4,260 acre-ft (5.25 hm^3) of irrigation holdover, 4,000 acre-ft (4.93 hm^3) for winter release for fish propogation in Utah, and 1,500 acre-ft (1.85 hm^3) of storage for fish propogation in Wyoming. Gage height of spillway is 35.3 ft (10.76 m). Figures given herein represent total contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 33,080 acre-ft (40.8 hm^3) May 11, 1974, June 10, 1975, gage height, 38.3 ft (11.67 m); minimum observed, 880 acre-ft (1.09 hm^3) Sept. 15-25, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 22,740 acre-ft (28.0 hm^3) Apr. 11, gage height, 31.8 ft (9.693 m); minimum, 4,790 acre-ft (5.91 hm^3) Sept. 29.

Capacity table (gage height, in feet, and total contents, in acre-feet)

12	4,120	24	13,360
14	5,370	26	15,570
16	6,780	28	17,770
18	8,360	30	20,180
20	10,000	32	23,040
22	11,600		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5640	6340	7240	8530	12600	16600	21300	19700	19960	14900	7630	5200
2	5570	6410	7300	8530	12740	16700	21500	19400	19960	14700	7550	5200
3	5570	6480	7300	8610	12800	16900	21600	19000	19960	14480	7390	5200
4	5570	6480	7300	8700	13000	17000	21900	18800	20060	14030	7240	5200
5	5570	6560	7400	8780	13100	17100	22000	18400	20270	13580	7090	5200
6	5570	6630	7400	8780	13200	17300	22200	18000	20890	12820	6930	5200
7	5500	6700	7400	8870	13300	17400	22300	17700	21320	12250	6780	5200
8	5500	6780	7400	8950	13500	17600	22500	17300	21600	11520	6630	5200
9	5500	6780	7500	9040	13600	17800	22600	17000	21600	10920	6480	5100
10	5500	6860	7500	9200	13700	17900	22700	16700	21180	10840	6340	5100
11	5500	6860	7500	9400	13800	18000	22740	16400	21030	10760	6190	5100
12	5440	6930	7550	9700	14000	18300	22170	16000	21180	10680	6120	5100
13	5440	6930	7550	9900	14100	18400	21460	15700	21460	10610	6050	5000
14	5440	7010	7550	10100	14300	18500	21030	15300	21600	10450	5980	5000
15	5440	7010	7600	10200	14500	18600	20500	15100	21460	10300	5910	5000
16	5370	7090	7600	10500	14600	18900	20200	14800	21030	10160	5910	5000
17	5370	7090	7600	10800	14700	19000	19800	14500	20180	10000	5840	5000
18	5370	7090	7700	10900	14900	19100	19500	14100	19480	9830	5770	5000
19	5440	7090	7790	11200	15000	19400	19100	13800	18760	9560	5710	5000
20	5640	7090	7790	11400	15100	19600	18800	13580	18260	9210	5600	5000
21	5710	7090	7870	11600	15300	19700	18400	13800	18390	8950	5600	4900
22	5770	7090	7950	11900	15400	19800	18000	14480	18390	8700	5600	4900
23	5840	7090	8030	12000	15600	20000	18400	15300	18260	8530	5500	4900
24	5910	7090	8030	12200	15700	20100	18800	16200	18000	8440	5500	4900
25	5910	7160	8110	12300	15900	20200	19000	17100	17770	8440	5400	4800
26	5980	7160	8190	12400	16000	20400	19400	18000	17550	8360	5400	4800
27	6050	7160	8280	12500	16100	20500	19700	19000	17130	8280	5370	4800
28	6120	7160	8280	12570	16400	20700	20100	19960	16710	8190	5300	4800
29	6190	7200	8360	12570	16490	20900	20360	19600	16120	8110	5300	4800
30	6190	7240	8360	12570	---	21000	20060	19960	15570	7950	5300	4790
31	6260	---	8440	12570	---	21180	---	19960	---	7790	5300	---
(†)	15.3	16.6	18.1	23.1	26.8	30.7	(a)30.2	(a)29.8	26.0	17.3	(a)13.9	(a)13.1
(‡)	+620	+980	+1200	+4130	+3920	+4690	-1120	-100	-4390	-7780	-2490	-510

CAL YR 1979 . . . . . -8270
WTR YR 1980 . . . . . - 850

(†) Gage height, in feet, at 2400 of last day of month.
(‡) Change in contents, in acre-feet.
(a) Estimated.

10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°30'20", long 111°00'50", in NW1/4NW1/4 sec.32, T.18 N., R.120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, on right bank 1,100 ft (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-1974: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6,398.96 ft (1,950.403 m) National Geodetic Vertical Datum 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. 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.--19 years, 226 ft^3/s (6.40 m^3/s), 163,700 acre-ft/yr (202 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,260 ft^3/s (35.7 m^3/s) Apr. 18, 23, gage height, 5.92 ft (1.804 m); minimum 0.30 ft^3/s (0.008 m^3/s) Mar. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	6.8	6.2	5.9	9.4	9.7	25	1240	780	714	76	26
2	6.3	6.8	6.1	6.1	9.6	9.7	24	1250	779	700	76	26
3	6.6	6.7	6.1	6.2	9.5	9.7	24	1250	782	689	75	26
4	6.6	6.5	6.1	6.1	9.6	9.7	24	1250	786	678	73	26
5	6.6	6.5	6.3	6.3	10	9.8	24	1240	789	667	71	26
6	6.6	6.3	6.2	6.1	12	10	24	1240	855	657	74	26
7	6.6	6.3	5.9	6.1	14	10	24	1230	905	645	75	26
8	6.6	6.4	5.7	6.2	16	10	25	1230	900	627	74	26
9	6.8	6.4	5.7	7.3	16	10	16	1230	1000	432	72	26
10	6.6	6.3	5.7	8.6	16	10	10	1230	1160	229	72	25
11	6.6	6.3	5.8	6.6	16	10	197	1230	1160	209	52	19
12	6.5	6.3	5.7	9.5	16	10	499	1220	1170	198	31	8.1
13	6.4	6.2	5.7	9.7	16	10	492	1210	1160	198	31	7.7
14	6.3	6.2	5.7	9.0	16	10	486	1200	1160	198	31	7.5
15	6.3	6.5	5.7	10	16	10	549	1180	1140	191	30	7.3
16	6.2	6.5	5.7	7.4	16	10	648	1070	1150	165	30	7.2
17	6.2	6.5	5.7	5.1	17	10	723	1000	1140	153	30	7.3
18	6.4	6.5	5.8	12	13	10	1140	996	1130	155	30	6.6
19	6.4	6.6	6.0	22	8.3	10	1250	871	1120	155	30	3.8
20	6.3	6.7	6.1	5.2	10	12	1240	737	978	159	31	3.5
21	6.5	6.6	6.1	5.6	9.9	19	1240	738	828	124	31	3.5
22	6.6	6.8	6.1	8.8	9.8	20	1240	743	821	54	30	3.8
23	6.5	6.8	6.1	8.8	9.6	20	1250	758	823	38	29	3.9
24	6.3	6.7	6.1	8.7	9.8	20	1250	774	826	37	29	4.2
25	6.4	6.4	6.1	11	9.9	20	1240	794	807	36	28	6.5
26	6.5	6.3	6.1	11	10	21	1250	801	792	36	27	9.3
27	6.2	6.3	6.3	10	10	25	1250	794	788	37	26	9.6
28	6.4	6.3	6.2	10	10	25	1250	786	778	48	26	9.6
29	6.5	6.1	6.2	10	10	24	1240	785	766	77	26	9.6
30	6.6	6.2	6.0	15	---	24	1240	786	744	76	26	9.6
31	6.6	---	5.9	13	---	24	---	779	---	76	26	---
TOTAL	200.1	193.8	185.1	273.3	355.4	442.6	19894	31642	28017	8458	1368	406.6
MEAN	6.45	6.46	5.97	8.82	12.3	14.3	663	1021	934	273	44.1	13.6
MAX	6.8	6.8	6.3	22	17	25	1250	1250	1170	714	76	26
MIN	6.1	6.1	5.7	5.1	8.3	9.7	10	737	744	36	26	3.5
AC-FT	397	384	367	542	705	878	39460	62760	55570	16780	2710	806

CAL YR 1979 TOTAL 40536.52 MEAN 111 MAX 953 MIN .00 AC-FT 80400
WTR YR 1980 TOTAL 91435.90 MEAN 250 MAX 1250 MIN 3.5 AC-FT 181400

10020900 WOODRUFF CREEK BELOW RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°28'06", long 111°18'50", in SE1/4SW1/4 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-1974: Drainage area. WDR UT-1972: 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.--10 years, 27.4 ft^3/s (0.776 m^3/s), 19,850 acre-ft/yr (24.5 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 discharge, 286 ft^3/s (8.10 m^3/s) May 23, gage height, 3.18 ft (0.969 m); no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	9.7	.00	.00	.00	.31	.54	197	182	66	37	11
2	7.1	9.7	.00	.00	.00	.32	.56	220	202	65	36	10
3	7.1	9.7	.00	.00	.00	.36	.54	202	179	65	35	10
4	6.9	9.7	.00	.00	.00	.36	.56	221	174	64	35	10
5	7.0	9.7	.00	.00	.00	.36	.62	235	211	64	35	9.7
6	6.8	9.7	.00	.00	.00	.38	.66	240	203	63	34	9.7
7	6.7	9.7	.00	.00	.00	.36	.69	248	179	62	34	9.3
8	6.9	9.7	.00	.00	.00	.36	.69	262	171	53	33	8.8
9	7.1	9.7	.00	.00	.00	.36	.74	268	169	45	33	8.8
10	7.1	9.7	.00	.00	.00	.36	.78	235	164	45	32	8.8
11	7.1	9.7	.00	.00	.00	.38	.78	196	150	45	31	9.3
12	7.2	9.7	.00	.00	.00	.36	.78	164	131	45	30	9.3
13	7.4	9.6	.00	.00	.02	.36	.81	137	114	44	30	9.7
14	7.1	9.1	.00	.00	.06	.38	.83	124	99	44	30	9.7
15	7.4	9.0	.00	.00	.08	.38	.90	126	85	44	29	9.7
16	7.8	8.8	.00	.00	.14	.36	.91	145	76	43	29	9.3
17	8.1	8.8	.00	.00	.20	.36	.90	153	79	42	30	9.3
18	8.4	8.8	.00	.00	.30	.36	.99	147	66	41	29	9.3
19	9.0	9.1	.00	.00	.33	.36	1.0	150	62	41	29	9.7
20	9.3	3.7	.00	.00	.31	.36	1.1	191	58	41	29	9.7
21	9.3	.00	.00	.00	.25	.36	14	249	55	41	28	10
22	9.3	.00	.00	.00	.24	.36	99	274	56	41	28	10
23	9.3	.00	.00	.00	.24	.36	95	278	70	41	29	10
24	9.1	.00	.00	.00	.24	.39	88	265	70	42	28	9.3
25	9.1	.00	.00	.00	.24	.42	92	218	69	41	28	9.3
26	9.3	.00	.00	.00	.26	.42	108	174	68	41	19	9.3
27	9.3	.00	.00	.00	.32	.42	113	146	68	40	13	9.3
28	9.3	.00	.00	.00	.30	.42	132	135	67	39	12	8.8
29	9.3	.00	.00	.00	.30	.46	154	142	67	39	12	8.8
30	9.3	.00	.00	.00	---	.49	172	150	67	39	11	8.8
31	9.7	---	.00	.00	---	.54	---	176	---	38	11	---
TOTAL	250.9	183.30	.00	.00	3.83	11.83	1082.38	6068	3411	1464	859	284.7
MEAN	8.09	6.11	.000	.000	.13	.38	36.1	196	114	47.2	27.7	9.49
MAX	9.7	9.7	.00	.00	.33	.54	172	278	211	66	37	11
MIN	6.7	.00	.00	.00	.00	.31	.54	124	55	38	11	8.8
AC-FT	498	364	.00	.00	7.6	23	2150	12040	6770	2900	1700	565

CAL YR 1979 TOTAL 8889.96 MEAN 24.4 MAX 235 MIN .00 AC-FT 17630
WTR YR 1980 TOTAL 13618.94 MEAN 37.2 MAX 278 MIN .00 AC-FT 27010

10026500 BEAR RIVER NEAR RANDOLPH, UT

LOCATION.--Lat 41°48'02", long 111°04'20", in SE1/4NE1/4 sec.7, T.12 N., R.8 E., Rich County, Hydrologic Unit 16010101, on left bank 3.7 mi (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 mi^2 (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-1974: 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.--37 years, 196 ft^3/s (5.55 m^3/s), 142,000 acre-ft/yr (175 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, 1,280 ft^3/s (36.2 m^3/s) May 14, gage height, 6.40 ft (1.951 m); minimum, 14 ft^3/s (0.396 m^3/s) Nov. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	33	20	44	110	120	114	1140	530	353	78	48
2	22	34	21	46	110	120	112	1150	573	435	76	46
3	22	34	22	46	120	130	107	1160	683	477	76	45
4	21	26	22	46	120	130	109	1160	789	484	84	46
5	22	22	22	46	140	130	130	1150	834	479	84	46
6	22	26	22	46	160	140	131	1150	804	433	84	35
7	23	26	22	48	170	140	119	1160	751	410	80	45
8	22	26	23	50	180	140	116	1170	745	408	81	47
9	22	26	24	50	170	150	117	1200	745	442	85	47
10	23	25	25	50	150	150	133	1220	742	456	85	49
11	23	31	25	50	150	151	127	1160	736	368	86	35
12	23	31	25	65	160	142	124	1180	766	297	85	35
13	23	36	25	90	170	137	206	1260	783	274	81	39
14	24	36	25	110	190	156	337	1270	768	253	72	36
15	23	36	25	150	190	206	404	1240	771	256	72	34
16	24	36	25	170	190	184	475	1230	768	219	73	33
17	24	35	25	160	190	173	556	1210	754	213	76	32
18	25	31	28	170	160	155	624	1240	739	216	70	32
19	31	26	30	170	130	142	739	1140	731	231	70	30
20	39	25	31	200	120	134	878	1040	725	208	69	31
21	36	23	33	200	120	138	984	834	711	205	68	31
22	33	22	34	190	110	131	987	736	627	227	67	31
23	33	20	34	190	110	128	1020	640	443	197	64	31
24	33	20	32	190	100	124	1040	624	477	166	61	31
25	32	20	32	170	100	121	1020	632	433	162	58	31
26	31	22	35	150	100	120	1030	664	406	134	58	31
27	31	22	37	140	110	120	1030	659	425	117	55	30
28	31	21	34	130	110	117	1030	645	347	114	53	30
29	31	20	36	130	120	114	1060	601	357	98	52	30
30	32	20	38	120	---	117	1100	533	353	81	49	30
31	33	---	40	110	---	116	---	508	---	79	48	---
TOTAL	836	811	872	3527	4060	4276	15959	30706	19316	8492	2200	1097
MEAN	27.0	27.0	28.1	114	140	138	532	991	644	274	71.0	36.6
MAX	39	36	40	200	190	206	1100	1270	834	484	86	49
MIN	21	20	20	44	100	114	107	508	347	79	48	30
AC-FT	1660	1610	1730	7000	8050	8480	31650	60910	38310	16840	4360	2180

CAL YR 1979 TOTAL 23975 MEAN 65.7 MAX 356 MIN 13 AC-FT 47550
WTR YR 1980 TOTAL 92152 MEAN 252 MAX 1270 MIN 20 AC-FT 182800

10027000 TWIN CREEK AT SAGE, WY

LOCATION.--Lat 41°48'36", long 110°58'12", in NE1/4SW1/4SE1/4 sec.7, T.21 N., R.119 W., Lincoln County, WY, 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 current year.

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 good except those for winter months, which are poor. Diversions for irrigation of about 1,100 acres (4.45 km^2) above station.

AVERAGE DISCHARGE.--23 years (water years 1944-62, 1977-80), 19.0 ft^3/s (0.538 m^3/s), 13,770 acre-ft/yr (17.0 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, 853 ft^3/s (24.2 m^3/s) Apr. 23, gage height, 8.13 ft (2.478 m); minimum daily, 2.6 ft^3/s (0.074 m^3/s) Oct. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	6.0	5.8	5.9	5.4	9.0	12	291	94	32	12	17
2	4.5	5.6	6.2	5.9	6.0	8.0	11	212	105	45	12	16
3	4.3	6.5	6.5	5.6	6.5	11	12	180	126	40	14	14
4	4.0	7.2	6.7	5.6	7.5	15	14	166	98	36	16	13
5	3.8	8.0	7.0	6.2	6.5	18	20	175	84	34	18	14
6	3.8	7.4	7.2	5.4	7.0	15	19	157	76	28	16	12
7	3.4	7.7	7.6	5.9	7.0	11	16	163	72	27	17	12
8	2.6	7.7	7.8	6.2	6.0	10	16	164	69	27	16	12
9	2.6	7.4	8.0	6.2	5.6	11	19	195	65	28	16	12
10	2.9	6.2	8.0	5.0	5.0	12	26	170	61	26	17	12
11	2.9	6.0	7.0	5.0	5.4	14	26	147	59	26	17	13
12	3.0	6.4	6.6	6.0	5.7	13	36	199	48	26	16	14
13	3.8	6.6	6.8	10	6.0	12	59	193	45	26	17	16
14	4.0	6.8	7.4	25	6.4	20	115	138	40	26	17	14
15	4.5	6.6	7.7	30	6.8	30	234	130	41	25	16	12
16	4.5	6.4	7.7	20	6.5	20	408	182	38	24	19	12
17	4.7	6.2	6.8	15	6.8	15	442	207	38	20	18	14
18	4.9	6.0	6.5	11	8.6	14	566	175	38	17	19	14
19	8.0	5.8	6.2	7.0	24	13	672	123	36	18	17	12
20	16	5.6	6.5	6.0	35	16	714	111	35	18	17	16
21	9.3	5.6	6.8	5.6	22	17	742	106	34	17	18	17
22	7.4	5.6	6.8	5.4	15	17	771	101	32	16	19	17
23	7.4	6.2	7.4	5.2	12	17	778	105	30	17	18	18
24	7.7	6.0	7.1	5.0	8.0	16	535	122	31	18	17	18
25	7.7	5.8	7.4	4.9	7.0	16	260	120	31	17	17	18
26	7.4	5.6	7.4	4.8	6.0	14	270	113	30	16	36	17
27	7.1	5.4	7.1	4.7	5.0	13	230	99	27	13	21	17
28	6.8	5.2	6.8	4.6	6.0	13	204	90	27	13	20	18
29	6.8	5.4	6.8	4.5	7.0	14	194	90	27	13	19	18
30	7.1	5.6	6.8	4.7	---	14	204	93	30	13	17	17
31	6.5	---	6.2	5.0	---	12	---	89	---	12	17	---
TOTAL	173.7	188.5	216.6	247.3	261.7	450.0	7625	4606	1567	714	546	446
MEAN	5.60	6.28	6.99	7.98	9.02	14.5	254	149	52.2	23.0	17.6	14.9
MAX	16	8.0	8.0	30	35	30	778	291	126	45	36	18
MIN	2.6	5.2	5.8	4.5	5.0	8.0	11	89	27	12	12	12
AC-FT	345	374	430	491	519	893	15120	9140	3110	1420	1080	885

CAL YR 1979 TOTAL 5511.8 MEAN 15.1 MAX 172 MIN 2.6 AC-FT 10930
WTR YR 1980 TOTAL 17041.8 MEAN 46.6 MAX 778 MIN 2.6 AC-FT 33800

NOTE.--Water -quality records for the current year are published in the report "Water Resources Data for Wyoming, 1980."

10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY

LOCATION.--Lat 41°56'20", long 110°59'05", in SE1/4SE1/4 sec.25, T.23 N., R.120 W., Lincoln County, Hydrologic Unit 16010102, 800 ft (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-1974: 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 daily recorded, 0.3 ft^3/s (0.008 m^3/s) Aug. 21, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum recorded discharge, 1,370 ft^3/s (38.8 m^3/s) May 15-19; minimum recorded, 8.2 ft^3/s (0.232 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								1320	588	255	80	69
2								1320	630	267	89	68
3								1320	696	286	86	65
4								1310	747	301	94	60
5								1310	785	449	99	45
6								1300	798	501	131	54
7								1300	801	435	110	49
8								1300	770	427	103	54
9								1310	770	437	108	53
10								1310	770	453	109	58
11								1320	757	445	106	50
12								1320	742	390	109	24
13								1320	737	347	105	20
14								1350	737	354	103	23
15								1370	735	402	97	21
16								1370	742	333	99	17
17								1370	747	305	99	17
18								1370	735	267	103	15
19								1370	720	286	97	12
20								1340	711	283	95	11
21								1240	672	262	95	11
22								1030	675	269	95	11
23								853	651	262	87	11
24								793	588	232	83	9.5
25								793	455	199	80	9.5
26								798	342	184	80	9.1
27								806	329	144	84	9.5
28								713	283	133	78	8.6
29								634	283	130	73	8.6
30								625	238	116	70	8.2
31								599	---	84	70	---
TOTAL								35484	19234	9238	2917	881.0
MEAN								1145	641	298	94.1	29.4
MAX								1370	801	501	131	69
MIN								599	238	84	70	8.2
AC-FT								70380	38150	18320	5790	1750

10032000 SMITHS FORK NEAR BORDER, WY

LOCATION.--Lat 42°17'16", long 110°52'14", in NW1/4 sec.33, T.27 N., R.118 W., Lincoln County, Hydrologic Unit 16010102, on left bank 4.5 mi (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.--38 years, 196 ft^3/s (5.55 m^3/s), 142,000 acre-ft/yr (175 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 (0.595 m^3/s) Mar. 29, 1975, Jan. 24, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 998 ft^3/s (28.3 m^3/s) May 24, gage height, 4.51 ft (1.375 m); minimum, 23 ft^3/s (0.651 m^3/s) Mar. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	74	45	55	45	52	50	773	577	515	213	131
2	81	80	48	60	50	56	48	782	602	483	208	128
3	80	76	50	60	60	54	49	761	685	464	202	125
4	80	76	55	60	70	53	49	786	696	441	197	124
5	80	75	60	62	65	52	52	858	702	417	193	122
6	79	71	65	58	65	52	56	868	695	397	188	120
7	79	72	66	60	70	48	51	916	686	382	184	121
8	80	70	66	65	73	51	47	916	683	376	181	121
9	79	70	64	65	50	51	52	911	716	361	178	120
10	79	71	60	70	45	50	54	839	798	346	172	120
11	79	73	55	60	45	49	50	746	874	334	169	131
12	78	72	50	50	45	51	52	686	918	323	168	136
13	78	70	50	50	50	50	50	626	913	315	166	123
14	77	70	55	55	55	50	54	586	884	305	164	118
15	78	70	55	60	58	52	62	568	824	297	172	115
16	84	70	60	60	58	50	68	578	751	288	177	112
17	80	70	65	62	56	43	73	571	719	279	165	111
18	80	72	65	84	58	58	85	557	718	274	158	109
19	122	69	65	102	58	51	104	577	718	274	156	108
20	109	71	65	91	57	51	135	606	735	264	156	108
21	89	70	65	91	63	50	170	702	723	258	151	109
22	85	70	64	70	54	49	223	822	697	253	146	108
23	84	70	68	65	54	50	327	917	678	247	143	106
24	83	70	65	65	52	49	350	953	657	245	141	105
25	82	75	60	70	50	50	312	873	627	242	143	103
26	82	73	65	75	63	49	371	775	601	235	157	102
27	80	77	60	80	54	47	409	708	578	230	141	101
28	79	65	60	70	53	48	467	660	543	225	139	100
29	78	50	55	60	53	50	554	644	511	222	132	99
30	75	45	50	50	---	51	777	608	493	220	131	98
31	73	---	50	45	---	52	---	598	---	216	134	---
TOTAL	2554	2107	1826	2030	1629	1569	5201	22771	21002	9728	5125	3434
MEAN	82.4	70.2	58.9	65.5	56.2	50.6	173	735	700	314	165	114
MAX	122	80	68	102	73	58	777	953	918	515	213	136
MIN	73	45	45	45	45	43	47	557	493	216	131	98
AC-FT	5070	4180	3620	4030	3230	3110	10320	45170	41660	19300	10170	6810

CAL YR 1979 TOTAL 57207 MEAN 157 MAX 886 MIN 45 AC-FT 113500
WTR YR 1980 TOTAL 78976 MEAN 216 MAX 953 MIN 43 AC-FT 156600

10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY

LOCATION.--Lat 42°07'36", long 110°58'21", in SE1/4NE1/4 sec.28, T.25 N., R.119 W., Lincoln County, Hydrologic Unit 16010102, on left bank 1.1 (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-1974: 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 periods, which are fair. Natural flow of stream affected by diversion for irrigation, return flow from irrigated areas, and regulation by upstream reservoirs.

AVERAGE DISCHARGE.--26 years, 430 ft^3/s (12.2 m^3/s), 311,500 acre-ft/yr (384 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, 2,430 ft^3/s (68.8 m^3/s) May 8, gage height, 6.65 ft (2.027 m); minimum, 77 ft^3/s (2.18 m^3/s) Nov. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	145	90	114	85	394	271	2200	1390	793	267	228
2	100	140	90	126	100	388	258	2290	1420	849	279	227
3	101	148	100	120	130	372	253	2260	1590	880	286	230
4	100	150	110	118	150	361	256	2250	1640	889	274	218
5	101	155	120	124	150	350	271	2270	1660	919	285	209
6	100	145	130	120	140	351	329	2290	1690	1130	279	195
7	100	141	148	110	166	387	360	2320	1690	968	305	199
8	99	141	154	109	130	385	315	2360	1650	927	274	196
9	95	141	154	121	110	375	318	2370	1640	911	266	200
10	84	130	130	130	95	358	306	2380	1660	891	267	201
11	85	150	110	110	95	346	355	2350	1700	876	258	216
12	86	125	100	100	95	333	385	2320	1710	831	259	232
13	88	135	95	109	110	354	416	2270	1710	761	255	200
14	87	142	100	154	120	336	537	2190	1690	732	245	184
15	87	149	110	186	140	354	826	2160	1650	804	244	178
16	93	153	110	498	148	471	954	2170	1600	730	266	172
17	93	149	120	824	148	480	1080	2230	1550	638	280	177
18	89	177	120	800	154	422	1190	2200	1490	613	264	174
19	121	159	120	752	166	384	1320	2180	1460	562	275	166
20	177	141	122	400	202	362	1400	2180	1460	601	289	161
21	156	145	120	250	293	344	1510	2160	1440	557	270	160
22	201	150	131	230	439	315	1630	2120	1390	532	256	160
23	189	140	120	230	524	316	1840	2000	1360	534	247	158
24	161	140	110	240	600	303	2070	1940	1270	492	229	157
25	157	150	110	265	678	366	2130	1890	1150	452	222	152
26	155	162	120	281	784	334	2250	1800	974	421	235	145
27	153	120	110	190	664	298	2210	1730	916	393	228	144
28	149	100	100	140	479	281	2130	1650	838	342	226	141
29	147	90	95	120	401	274	2080	1500	812	339	221	140
30	148	90	95	100	---	279	2060	1480	767	329	222	137
31	147	---	95	85	---	286	---	1430	---	308	226	---
TOTAL	3748	4203	3539	7256	7496	10959	31310	64940	42967	21004	7999	5457
MEAN	121	140	114	234	258	354	1044	2095	1432	678	258	182
MAX	201	177	154	824	784	480	2250	2380	1710	1130	305	232
MIN	84	90	90	85	85	274	253	1430	767	308	221	137
AC-FT	7430	8340	7020	14390	14870	21740	62100	128800	85230	41660	15870	10820

CAL YR 1979 TOTAL 93333 MEAN 256 MAX 964 MIN 84 AC-FT 185100
WTR YR 1980 TOTAL 210878 MEAN 576 MAX 2380 MIN 84 AC-FT 418300

10039500 BEAR RIVER AT BORDER, WY

LOCATION.--Lat 42°12'40", long 111°03'11", in NE1/4NE1/4 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-1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,051.63 ft (1,844.537 m) National Geodetic Vertical Datum 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.--43 years, 422 ft^3/s (12.0 m^3/s), 305,700 acre-ft/yr (377 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, 2,700 ft^3/s (76.5 m^3/s) May 10, gage height, 8.10 ft (2.469 m); minimum, 78 ft^3/s (2.21 m^3/s) Oct. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	162	90	110	90	450	300	2260	1330	725	269	178
2	92	153	95	120	110	400	286	2350	1350	769	269	185
3	92	154	100	120	140	380	279	2380	1570	818	279	187
4	94	154	110	120	160	380	279	2350	1640	818	269	181
5	94	158	120	120	140	360	288	2350	1660	833	250	176
6	95	156	130	120	150	360	331	2420	1680	1010	247	189
7	95	151	140	110	160	370	368	2530	1660	924	274	180
8	94	149	150	110	130	380	339	2580	1630	872	255	181
9	94	156	150	120	110	380	327	2670	1590	849	245	180
10	85	139	140	130	100	370	324	2680	1560	830	243	185
11	84	156	120	100	100	360	355	2670	1610	818	238	194
12	82	140	100	100	100	350	381	2610	1630	780	236	215
13	84	140	100	110	120	360	411	2580	1630	715	234	199
14	81	140	110	150	130	350	478	2440	1610	694	232	183
15	80	140	110	200	140	400	725	2330	1550	743	234	176
16	82	140	110	500	140	465	888	2290	1520	697	255	174
17	85	150	120	800	140	503	1030	2350	1480	632	269	174
18	81	176	120	800	140	428	1220	2350	1420	612	255	179
19	95	160	120	750	160	410	1360	2300	1390	558	257	174
20	151	150	120	450	210	370	1450	2250	1370	574	276	172
21	163	150	120	250	300	363	1450	2220	1320	539	262	171
22	174	140	130	230	450	341	1600	2180	1280	507	234	169
23	198	140	130	240	550	336	1780	2100	1260	507	194	167
24	180	140	120	250	600	329	1970	2020	1160	478	176	162
25	172	150	110	260	700	365	2130	1990	1110	443	172	174
26	171	160	120	270	750	355	2210	1900	952	419	180	176
27	163	130	110	200	800	329	2300	1770	833	394	183	178
28	156	110	100	150	600	310	2230	1670	754	348	178	180
29	153	95	100	130	500	295	2170	1510	733	329	176	181
30	151	90	95	110	---	300	2150	1440	704	317	172	183
31	153	---	95	90	---	307	---	1380	---	305	174	---
TOTAL	3666	4329	3585	7320	7920	11456	31409	68920	40986	19857	7187	5403
MEAN	118	144	116	236	273	370	1047	2223	1366	641	232	180
MAX	198	176	150	800	800	503	2300	2680	1680	1010	279	215
MIN	80	90	90	90	90	295	279	1380	704	305	172	162
AC-FT	7270	8590	7110	14520	15710	22720	62300	136700	81300	39390	14260	10720

CAL YR 1979 TOTAL 85993 MEAN 236 MAX 747 MIN 80 AC-FT 170600
WTR YR 1980 TOTAL 212038 MEAN 579 MAX 2680 MIN 80 AC-FT 420600

10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE

LOCATION.--Lat 42°24'10", long 111°01'30", in SE1/4NW1/4 sec.19, T.28 N., R.119 W., Lincoln County, Wyoming, Hydrologic Unit 16010102, on right bank 1.3 mi (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, which are fair.

AVERAGE DISCHARGE.--31 years, 55.1 ft^3/s (1.56 m^3/s), 39,920 acre-ft/yr (49.2 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.--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. 30	0300	*748	21.2	3.37	1.027
May 24	0200	334	9.46	2.41	.735
June 3	2100	607	17.2	3.09	.942

Minimum discharge, 6.6 ft^3/s (0.187 m^3/s) Nov. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	14	13	13	14	13	12	530	226	113	45	31
2	13	14	13	13	14	13	12	490	252	104	43	30
3	13	15	13	13	14	13	12	455	342	105	43	29
4	13	15	13	13	14	13	13	477	326	98	42	28
5	13	15	13	13	14	12	14	497	329	92	41	28
6	13	14	14	13	14	12	16	461	324	88	40	27
7	13	14	14	13	14	12	14	469	307	87	39	29
8	13	14	14	13	13	12	14	436	291	87	38	29
9	13	15	13	13	12	11	14	446	278	82	37	29
10	13	13	14	13	12	11	14	426	265	79	36	28
11	13	14	13	13	12	10	14	391	248	76	36	38
12	13	14	13	15	12	9.9	15	394	233	74	35	38
13	13	14	13	19	12	10	16	362	220	72	35	33
14	13	14	13	19	12	9.9	19	343	209	70	35	30
15	14	14	13	16	13	10	26	334	200	68	44	27
16	15	14	13	15	13	10	32	343	190	66	51	27
17	14	14	13	15	13	10	38	326	179	65	41	26
18	15	15	13	15	14	10	53	304	169	63	36	25
19	42	13	13	14	15	12	71	293	162	64	36	26
20	30	13	13	14	14	12	97	284	155	60	37	26
21	19	13	13	14	13	12	124	277	147	58	35	27
22	17	13	13	14	13	12	168	266	140	56	34	26
23	16	13	13	14	13	13	237	306	133	54	33	25
24	16	13	13	14	13	13	275	299	128	53	32	25
25	15	13	13	14	13	13	237	276	122	52	34	25
26	15	14	13	14	13	12	297	265	117	49	45	25
27	14	13	13	14	13	13	307	250	112	48	34	24
28	14	13	13	14	13	13	331	237	110	47	33	24
29	14	13	13	14	13	14	373	252	107	46	31	24
30	13	13	13	14	---	13	605	237	107	46	31	24
31	14	---	13	14	---	13	---	233	---	45	32	---
TOTAL	479	413	407	439	382	366.8	3470	10963	6128	2167	1164	833
MEAN	15.5	13.8	13.1	14.2	13.2	11.8	116	354	204	69.9	37.5	27.8
MAX	42	15	14	19	15	14	605	530	342	113	51	38
MIN	13	13	13	13	12	9.9	12	233	107	45	31	24
AC-FT	950	819	807	871	758	728	6880	21750	12150	4300	2310	1650

CAL YR 1979 TOTAL 14714.0 MEAN 40.3 MAX 284 MIN 13 AC-FT 29190
WTR YR 1980 TOTAL 27211.8 MEAN 74.3 MAX 605 MIN 9.9 AC-FT 53970

10044000 BEAR RIVER AT HARER, ID

LOCATION.--Lat 42°11'50", long 111°10'05", in NW1/4 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-1974: 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 Power Commission project.

AVERAGE DISCHARGE.--67 years, 519 ft^3/s (14.7 m^3/s), 376,000 acre-ft/yr (464 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, 3,060 ft^3/s (86.7 m^3/s) May 10, gage height, 9.84 ft (2.999 m); minimum, 98 ft^3/s (2.78 m^3/s) Oct. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	200	182	128	160	454	381	2660	1830	922	437	214
2	123	204	175	134	164	436	364	2710	1830	975	409	220
3	122	206	179	139	173	442	349	2780	2000	1040	415	225
4	117	214	192	143	189	460	341	2840	2120	1050	393	223
5	116	214	202	146	188	450	352	2840	2150	1040	357	215
6	117	215	198	148	180	481	395	2840	2170	1100	356	212
7	121	204	195	143	172	440	444	2900	2150	1220	372	222
8	123	166	196	137	161	456	445	2960	2110	1220	377	219
9	119	149	195	134	145	498	416	3000	2050	1130	343	218
10	117	145	190	143	131	518	427	3040	1970	1060	336	221
11	112	144	178	142	125	445	419	3050	1970	1040	330	234
12	101	149	153	136	124	446	467	3050	2000	1000	319	256
13	101	183	139	149	127	461	504	3030	2000	934	307	262
14	104	184	134	176	141	445	573	2980	1990	861	298	246
15	103	208	144	219	156	448	782	2900	1940	866	305	234
16	102	195	153	282	160	514	1010	2850	1900	921	313	225
17	101	208	156	375	163	598	1220	2830	1830	831	318	215
18	102	229	155	481	164	466	1400	2810	1780	802	320	223
19	116	205	150	599	175	528	1580	2790	1690	749	298	224
20	133	234	159	610	203	527	1650	2760	1690	682	316	214
21	170	237	166	557	223	448	1760	2720	1700	707	329	209
22	191	224	174	472	242	442	1900	2670	1660	765	306	205
23	200	213	180	365	400	445	2040	2660	1620	743	267	204
24	217	223	175	316	556	407	2180	2620	1490	741	239	202
25	205	220	169	289	619	409	2230	2520	1440	692	222	212
26	196	230	158	262	646	440	2380	2450	1340	659	222	214
27	188	238	154	224	691	417	2580	2350	1150	610	227	209
28	182	225	136	201	621	388	2710	2220	1020	559	221	207
29	189	206	128	185	520	371	2720	2090	935	494	218	211
30	205	187	127	176	---	374	2680	1940	926	480	208	198
31	201	---	128	170	---	380	---	1880	---	462	208	---
TOTAL	4407	6059	5120	7781	7719	14034	36699	83740	52451	26355	9586	6593
MEAN	142	202	165	251	266	453	1223	2701	1748	850	309	220
MAX	217	238	202	610	691	598	2720	3050	2170	1220	437	262
MIN	101	144	127	128	124	371	341	1880	926	462	208	198
AC-FT	8740	12020	10160	15430	15310	27840	72790	166100	104000	52280	19010	13080

CAL YR 1979 TOTAL 112082 MEAN 307 MAX 979 MIN 101 AC-FT 222300
WTR YR 1980 TOTAL 260544 MEAN 712 MAX 3050 MIN 101 AC-FT 516800

10046000 RAINBOW INLET CANAL NEAR DINGLE, ID

LOCATION.--Lat 42°13'48", long 111°17'43", in SE1/4 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) National Geodetic Vertical Datum 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 NE1/4 sec.34, T.13 S., R.44 E., for storage in Bear Lake. At times flow in canal is augmented by surplus water from Black Otter Slough entering at the station and by seepage and surplus water from irrigation.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

AVERAGE DISCHARGE.--58 years, 341 ft^3/s (9.66 m^3/s), 247,100 acre-ft/yr (305 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 discharge, 2,950 ft^3/s (33.5 m^3/s) Apr. 10, gage height, 7.42 ft (2.262 m); no flow Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	62	87	83	124	443	317	2580	1700	505	249	146
2	17	121	89	87	125	457	300	2600	1660	543	232	157
3	17	124	100	92	125	413	285	2640	1720	603	216	163
4	16	130	116	95	132	409	281	2710	1830	725	214	169
5	11	132	120	94	137	403	293	2740	1930	776	206	166
6	9.6	136	123	101	129	389	317	2740	1910	812	188	166
7	6.4	144	126	103	123	381	344	2790	1880	933	190	163
8	6.3	160	130	100	145	362	379	2770	1840	918	198	168
9	12	151	137	91	138	411	349	2820	1790	885	193	166
10	8.4	159	165	108	133	418	341	2870	1710	826	193	171
11	10	137	160	93	120	404	339	2920	1680	791	182	182
12	18	136	80	84	114	329	372	2950	1690	756	181	196
13	27	120	81	95	112	301	404	2940	1610	715	172	213
14	35	98	98	114	114	374	444	2890	1590	644	159	208
15	11	130	97	130	119	320	560	2790	1590	624	172	189
16	6.3	130	96	155	126	363	821	2720	1570	734	180	187
17	8.4	136	106	176	131	345	1030	2680	1510	690	186	181
18	2.0	171	99	237	141	461	1220	2660	1420	652	188	181
19	13	170	89	359	153	473	1370	2660	1340	622	189	188
20	40	135	91	358	164	429	1510	2620	1220	573	198	180
21	57	129	103	349	187	386	1640	2560	1150	521	238	169
22	68	127	97	315	212	397	1760	2500	1120	438	250	165
23	39	119	108	300	249	380	1880	2510	1080	437	225	151
24	25	114	101	270	309	363	2040	2480	1040	432	194	139
25	30	110	71	255	445	348	2210	2420	938	410	180	139
26	29	109	81	208	473	362	2340	2370	896	383	167	148
27	29	112	88	171	461	366	2390	2280	532	366	162	145
28	29	94	77	139	529	339	2470	2160	642	369	164	143
29	26	83	75	140	512	325	2520	2070	563	331	163	147
30	19	81	76	136	---	319	2460	1880	511	292	152	146
31	15	---	83	132	---	320	---	1770	---	295	144	---
TOTAL	648.9	3760	3150	5170	5982	11790	32986	80090	41662	18601	5925	5032
MEAN	20.9	125	102	167	206	380	1100	2584	1389	600	191	168
MAX	68	171	165	359	529	473	2520	2950	1930	933	250	213
MIN	2.0	62	71	83	112	301	281	1770	511	292	144	139
AC-FT	1290	7460	6250	10250	11870	23390	65430	158900	82640	36900	11750	9980

CAL YR 1979 TOTAL 65512.3 MEAN 179 MAX 667 MIN 2.0 AC-FT 129900
WTR YR 1980 TOTAL 214796.9 MEAN 587 MAX 2950 MIN 2.0 AC-FT 426000

10046500 BEAR RIVER BELOW STEWART DAM, NEAR MONTPELIER, ID

LOCATION.--Lat 42°15'14", long 111°17'35", in NE1/4 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-1974: 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 Power Commission project.

AVERAGE DISCHARGE.--58 years, 45.5 ft^3/s (1.29 m^3/s), 32,960 acre-ft/yr (40.6 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, 143 ft^3/s (4.05 m^3/s) Oct. 27, gage height, 2.60 ft (0.792 m); minimum, 3.0 ft^3/s (0.085 m^3/s) Jan. 2-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	53	3.4	3.1	4.8	5.0	3.9	12	12	32	33	34
2	5.9	22	3.5	3.0	4.9	4.6	4.0	12	34	32	31	35
3	6.3	19	3.5	3.0	5.0	4.1	4.0	13	54	36	30	37
4	6.8	19	3.5	3.0	5.2	3.7	4.1	13	58	36	34	39
5	7.5	19	3.5	3.2	5.3	3.7	4.1	15	60	31	36	32
6	8.0	18	3.5	3.5	5.5	3.7	4.2	15	58	30	32	32
7	8.6	20	3.5	3.8	5.7	3.7	4.0	15	58	32	31	34
8	9.0	19	3.5	4.2	5.9	3.8	4.2	13	57	30	34	37
9	9.5	19	3.5	4.5	6.0	3.8	4.5	13	55	26	31	40
10	9.9	19	3.6	4.9	6.1	3.8	4.7	13	53	26	29	46
11	10	18	3.6	4.9	6.3	3.8	5.0	15	52	26	29	50
12	9.6	18	3.6	5.0	6.4	3.9	5.3	15	51	25	35	37
13	9.2	17	3.6	5.0	6.8	3.9	5.6	15	49	25	34	36
14	9.2	15	3.7	5.1	6.7	3.9	6.0	14	49	56	35	36
15	9.3	11	3.6	5.1	6.5	4.0	8.2	13	49	74	35	35
16	9.2	6.4	3.6	5.2	6.3	4.3	19	12	49	79	35	35
17	9.2	5.9	3.5	5.2	6.1	4.4	17	12	48	45	36	35
18	9.5	5.5	3.5	5.3	6.0	4.4	13	11	50	44	37	35
19	9.6	5.5	3.4	6.2	5.8	4.1	12	11	51	39	37	35
20	9.3	5.1	3.3	6.1	5.6	3.9	13	12	52	45	37	35
21	15	4.8	3.3	6.0	5.9	3.7	13	13	62	50	37	36
22	37	4.5	3.2	5.6	6.3	3.5	11	14	60	51	39	36
23	84	4.2	3.1	5.3	6.8	3.3	11	15	54	56	38	35
24	131	3.9	3.3	5.0	9.2	3.2	11	15	52	55	37	35
25	130	3.7	3.4	5.0	9.9	3.1	10	14	50	53	37	34
26	138	3.5	3.3	4.8	7.5	3.2	9.8	13	46	50	36	35
27	140	3.4	3.3	4.5	7.4	3.3	9.3	12	37	49	36	35
28	138	3.4	3.3	4.3	7.1	3.4	10	11	37	49	36	35
29	139	3.4	3.2	4.4	5.9	3.6	11	12	34	42	35	35
30	139	3.4	3.2	4.5	---	3.7	12	13	33	30	34	35
31	109	---	3.1	4.6	---	3.9	---	14	---	34	34	---
TOTAL	1371.2	372.6	106.1	143.3	182.9	118.4	253.9	410	1464	1288	1070	1086
MEAN	44.2	12.4	3.42	4.62	6.31	3.82	8.46	13.2	48.8	41.5	34.5	36.2
MAX	140	53	3.7	6.2	9.9	5.0	19	15	62	79	39	50
MIN	5.6	3.4	3.1	3.0	4.8	3.1	3.9	11	12	25	29	32
AC-FT	2720	739	210	284	363	235	504	813	2900	2550	2120	2150

CAL YR 1979 TOTAL 10961.9 MEAN 30.0 MAX 140 MIN 3.1 AC-FT 21740
WTR YR 1980 TOTAL 7866.4 MEAN 21.5 MAX 140 MIN 3.0 AC-FT 15600

10055500 BEAR LAKE AT LIFTON, NEAR ST. CHARLES, ID

LOCATION.--Lat 42°07'160", long 111°18'52", in NE1/4 sec.16, T.15 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, in Lifton pumping plant of Utah Power & Light Company 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 Company 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 Company, under general supervision of Geological Survey, in connection with a Federal Power 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, 1,366,000 acre-ft (1.68 km^3) June 25, elevation, 5,922.86 ft (1,805.288 m); minimum, 936,400 acre-ft (1.15 km^3) Nov. 11.

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

5,916	888,600	5,920	1,165,000
5,917	956,900	5,921	1,235,000
5,918	1,026,000	5,922	1,305,000
5,919	1,095,000		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	954200	946700	937100	939100	974800	1007000	1033000	1123000	1323000	1366000	1347000	1254000
2	952100	946700	937100	939100	976900	1008000	1033000	1130000	1329000	1366000	1345000	1250000
3	951500	946700	937100	939800	978900	1009000	1034000	1137000	1335000	1366000	1342000	1247000
4	950800	946700	937100	939800	981000	1011000	1035000	1144000	1340000	1366000	1339000	1244000
5	949400	946700	937100	939800	982400	1013000	1036000	1151000	1343000	1366000	1335000	1241000
6	948700	946700	937100	939800	983800	1014000	1037000	1158000	1345000	1366000	1330000	1238000
7	948000	945300	937100	940500	984400	1015000	1038000	1165000	1347000	1366000	1325000	1238000
8	947300	943900	937100	940500	985100	1017000	1040000	1173000	1349000	1366000	1320000	1237000
9	946700	941900	937100	941200	985100	1018000	1041000	1182000	1351000	1366000	1315000	1235000
10	946000	939100	937100	941900	985800	1020000	1042000	1190000	1353000	1366000	1311000	1233000
11	945300	936400	937100	941900	985800	1021000	1043000	1198000	1354000	1366000	1309000	1231000
12	945300	936400	937100	942600	985800	1022000	1044000	1208000	1356000	1366000	1307000	1230000
13	944600	936400	937100	943900	985800	1022000	1045000	1215000	1357000	1366000	1305000	1228000
14	944600	936400	937100	945300	985800	1022000	1045000	1221000	1359000	1365000	1303000	1227000
15	944600	936400	937100	946700	986500	1023000	1046000	1228000	1360000	1364000	1302000	1225000
16	944600	936400	937100	948000	986500	1023000	1048000	1236000	1361000	1364000	1299000	1223000
17	944600	936400	937100	949400	986500	1024000	1050000	1245000	1361000	1363000	1297000	1221000
18	944600	936400	937100	950800	987200	1024000	1052000	1252000	1362000	1363000	1295000	1218000
19	944600	937100	937100	952100	989300	1026000	1055000	1258000	1363000	1363000	1291000	1215000
20	944600	937100	937100	953500	991300	1027000	1058000	1263000	1363000	1362000	1288000	1213000
21	946000	937100	937800	954900	993400	1028000	1063000	1266000	1364000	1361000	1284000	1210000
22	946700	937100	937800	956300	995500	1029000	1071000	1271000	1365000	1360000	1281000	1207000
23	947300	937100	937800	957600	997500	1030000	1078000	1277000	1365000	1360000	1278000	1204000
24	947300	937100	937800	959000	999600	1031000	1085000	1283000	1365000	1360000	1276000	1201000
25	947300	937100	937800	961100	1001000	1032000	1092000	1290000	1366000	1359000	1273000	1197000
26	947300	937100	937800	963100	1002000	1032000	1095000	1295000	1366000	1358000	1271000	1194000
27	947300	937100	938400	965200	1002000	1033000	1099000	1298000	1366000	1356000	1268000	1191000
28	947300	937100	938400	967200	1004000	1033000	1106000	1302000	1366000	1355000	1265000	1188000
29	947300	937100	938400	969300	1005000	1033000	1109000	1306000	1366000	1353000	1262000	1185000
30	946700	937100	938400	970700	---	1033000	1114000	1314000	1366000	1351000	1259000	1182000
31	946700	---	938400	972700	---	1033000	---	1317000	---	1349000	1257000	---
MAX	954200	946700	938400	972700	1005000	1033000	1114000	1317000	1366000	1366000	1347000	1254000
MIN	944600	936400	937100	939100	974800	1007000	1033000	1123000	1323000	1349000	1257000	1182000

(†)	5916.85	5916.71	5916.73	5917.23	5917.70	5918.10	5919.27	5922.17	5922.86	5922.62	5921.31	5920.25
(‡)	-9500	-9600	+1300	+34300	+32300	+28000	+81000	+203000	+49000	-17000	-92000	-75000

CAL YR . . . . . (‡) -39100
WTR YR . . . . . (‡) +225800

(†) 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 SE1/4SE1/4 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-1974: 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.

AVERAGE DISCHARGE.--20 years, 29.4 ft^3/s (0.833 m^3/s), 21,300 acre-ft/yr (26.3 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, 126 ft^3/s (3.57 m^3/s) June 3, gage height, 3.40 ft (1.036 m); minimum, 14 ft^3/s (0.396 m^3/s) Jan. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	18	17	17	15	15	16	71	77	65	37	29
2	20	18	17	17	15	15	16	72	94	63	37	29
3	20	19	17	17	15	15	16	69	99	62	36	29
4	19	19	17	17	15	15	16	72	86	61	36	29
5	20	19	17	17	15	15	18	81	92	58	36	28
6	20	18	17	17	15	15	18	91	91	57	35	28
7	20	18	17	17	15	15	17	91	88	55	34	29
8	20	18	17	17	15	15	17	92	88	54	34	28
9	19	18	17	17	15	15	17	102	98	52	34	28
10	19	17	17	17	15	15	17	85	104	51	34	28
11	19	18	17	17	15	16	18	73	107	50	33	30
12	19	17	17	19	15	15	19	67	108	49	33	31
13	19	17	17	23	15	15	19	60	106	49	33	28
14	19	17	17	23	15	16	21	59	103	48	32	28
15	19	17	17	20	15	16	24	62	96	47	34	27
16	20	17	17	18	15	15	24	67	91	47	34	27
17	19	18	17	18	15	15	25	59	89	46	33	27
18	20	19	17	18	16	15	28	57	89	45	32	27
19	32	18	17	17	17	15	34	65	89	44	32	27
20	22	18	17	17	16	15	39	79	89	43	32	26
21	20	17	17	17	15	16	42	91	87	43	31	27
22	20	17	17	17	15	16	49	102	85	42	31	26
23	19	18	17	17	15	16	64	108	81	41	31	26
24	19	18	17	17	15	16	61	100	79	41	31	26
25	19	18	17	17	15	16	58	84	75	40	31	26
26	19	18	17	16	15	16	57	74	72	39	31	25
27	19	18	17	16	15	16	55	70	70	39	30	25
28	19	18	17	15	15	16	56	69	68	38	30	25
29	19	17	17	15	15	16	58	73	65	38	30	25
30	18	17	17	15	---	16	67	71	64	38	30	25
31	18	---	17	15	---	16	---	75	---	38	30	---
TOTAL	614	534	527	537	439	479	986	2391	2630	1483	1017	819
MEAN	19.8	17.8	17.0	17.3	15.1	15.5	32.9	77.1	87.7	47.8	32.8	27.3
MAX	32	19	17	23	17	16	67	108	108	65	37	31
MIN	18	17	17	15	15	15	16	57	64	38	30	25
AC-FT	1220	1060	1050	1070	871	950	1960	4740	5220	2940	2020	1620

CAL YR 1979 TOTAL 9410 MEAN 25.8 MAX 107 MIN 16 AC-FT 18660
WTR YR 1980 TOTAL 12456 MEAN 34.0 MAX 108 MIN 15 AC-FT 24710

10059500 BEAR LAKE OUTLET CANAL NEAR PARIS, ID

LOCATION.--Lat 42°13'00", long 111°20'35", in SW1/4 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) National Geodetic Vertical Datum 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 Power Commission project.

AVERAGE DISCHARGE.--58 years, 370 ft^3/s (10.5 m^3/s), 268,100 acre-ft/yr (331 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, 1,690 ft^3/s (47.9 m^3/s) July 23, gage height, 19.27 (5.873 m); minimum daily, 3.0 ft^3/s (0.085 m^3/s) many days during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	112	3.0	3.0	3.0	3.0	3.0	12	8.0	1070	1260	1300
2	71	124	3.0	3.0	3.0	3.0	3.0	12	8.0	1170	1250	1290
3	104	48	3.0	3.0	3.0	3.0	3.0	12	484	1140	1250	1300
4	172	44	3.0	3.0	3.0	3.0	3.0	12	620	1150	1250	1340
5	170	20	3.0	3.0	3.0	3.0	3.0	12	874	1130	1310	1330
6	167	38	3.0	3.0	3.0	3.0	3.0	12	980	1120	1360	1320
7	161	38	3.0	3.0	3.0	3.0	3.0	8.0	1010	1100	1380	1310
8	161	19	3.0	3.0	3.0	3.0	3.0	8.0	1040	1150	1360	1300
9	156	3.0	3.0	3.0	3.0	3.0	3.0	8.0	1050	1130	1360	1300
10	152	3.0	3.0	3.0	3.0	3.0	3.0	8.0	1070	1140	1350	1280
11	147	3.0	3.0	3.0	3.0	3.0	3.0	8.0	1030	1200	1350	1310
12	142	3.0	3.0	3.0	3.0	3.0	3.0	8.0	998	1260	1350	1340
13	137	3.0	3.0	3.0	3.0	3.0	3.0	8.0	1030	1270	1350	1320
14	133	3.0	3.0	3.0	3.0	3.0	3.0	8.0	1040	1250	1320	1300
15	128	3.0	3.0	3.0	3.0	3.0	3.0	8.0	1040	1280	1310	1270
16	124	3.0	3.0	3.0	3.0	3.0	3.0	8.0	1050	1360	1350	1230
17	120	3.0	3.0	3.0	3.0	3.0	3.0	8.0	1030	1300	1370	1230
18	171	3.0	3.0	3.0	3.0	3.0	3.0	8.0	1010	1310	1380	1260
19	264	3.0	3.0	3.0	3.0	3.0	3.0	8.0	968	1320	1370	1250
20	409	3.0	3.0	3.0	3.0	3.0	3.0	8.0	965	1280	1360	1240
21	290	3.0	3.0	3.0	3.0	3.0	12	8.0	927	1280	1360	1230
22	269	3.0	3.0	3.0	3.0	3.0	12	8.0	909	1310	1370	1230
23	237	3.0	3.0	3.0	3.0	3.0	12	8.0	900	1430	1360	1230
24	194	3.0	3.0	3.0	3.0	3.0	12	8.0	893	1590	1340	1220
25	179	3.0	3.0	3.0	3.0	3.0	12	8.0	792	1330	1330	1210
26	161	3.0	3.0	3.0	3.0	3.0	12	8.0	807	1320	1340	1200
27	134	3.0	3.0	3.0	3.0	3.0	12	8.0	804	1260	1320	1190
28	136	3.0	3.0	3.0	3.0	3.0	12	8.0	792	1240	1310	1180
29	145	3.0	3.0	3.0	3.0	3.0	12	8.0	783	1340	1330	1170
30	122	3.0	3.0	3.0	---	3.0	12	8.0	873	1290	1330	1170
31	105	---	3.0	3.0	---	3.0	---	8.0	---	1290	1310	---
TOTAL	5122	509.0	93.0	93.0	87.0	93.0	180.0	272.0	25785.0	38810	41340	37850
MEAN	165	17.0	3.00	3.00	3.00	3.00	6.00	8.77	860	1252	1334	1262
MAX	409	124	3.0	3.0	3.0	3.0	12	12	1070	1590	1380	1340
MIN	61	3.0	3.0	3.0	3.0	3.0	3.0	8.0	8.0	1070	1250	1170
AC-FT	10160	1010	184	184	173	184	357	540	51140	76980	82000	75080

CAL YR 1979 TOTAL 78035.0 MEAN 214 MAX 1440 MIN 1.5 AC-FT 154800
WTR YR 1980 TOTAL 150234.0 MEAN 410 MAX 1590 MIN 3.0 AC-FT 298000

10068500 BEAR RIVER AT PESCADERO, ID

LOCATION.--Lat 42°24'06", long 111°21'22", in SW1/4SW1/4SE1/4 sec.6, T.12 S., R.44 E., Bear Lake County, Hydrologic Unit 16010202, on left bank at Pescadero, 400 ft (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 except those for winter months, which are fair. Flow regulated by Bear Lake (station 10055500) and diversions above station for irrigation.

AVERAGE DISCHARGE.--44 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, 1,840 ft^3/s (52.1 m^3/s) June 8, gage height, 5.61 ft (1.716 m); minimum discharge, 58 ft^3/s (1.64 m^3/s) Oct. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	294	60	75	70	110	122	566	530	1280	1360	1410
2	94	274	75	75	70	100	145	538	572	1450	1340	1420
3	94	193	75	75	70	100	144	517	1180	1530	1340	1420
4	154	125	75	75	80	100	131	504	1410	1560	1340	1450
5	199	120	75	75	80	100	130	488	1680	1570	1350	1460
6	194	119	75	75	80	100	148	481	1800	1550	1410	1460
7	190	120	75	75	80	110	152	522	1830	1480	1440	1460
8	184	119	75	75	80	110	141	565	1830	1460	1460	1450
9	111	108	75	75	80	110	141	580	1800	1440	1460	1440
10	70	83	75	75	80	110	155	602	1780	1410	1460	1430
11	64	99	75	75	80	110	165	606	1740	1400	1450	1440
12	65	83	75	75	80	110	174	605	1660	1450	1460	1450
13	68	86	75	80	80	110	192	616	1610	1500	1460	1440
14	68	87	75	90	80	110	235	605	1590	1450	1450	1420
15	66	88	75	90	80	111	318	578	1560	1480	1440	1390
16	70	94	75	90	80	115	429	606	1530	1490	1480	1360
17	64	94	75	90	80	120	502	623	1500	1500	1500	1340
18	60	85	75	80	80	125	618	571	1450	1460	1490	1340
19	220	80	75	80	90	130	820	559	1390	1470	1480	1330
20	372	70	75	80	100	110	975	522	1370	1430	1480	1320
21	428	75	75	80	110	110	1060	493	1310	1400	1480	1310
22	355	75	75	80	110	110	1010	476	1310	1410	1470	1310
23	375	75	75	80	110	110	903	477	1300	1440	1450	1320
24	362	75	75	80	110	115	927	492	1270	1430	1430	1320
25	362	75	75	80	110	120	976	556	1160	1390	1410	1300
26	355	75	75	80	110	128	885	600	1120	1440	1410	1300
27	346	60	75	70	110	133	756	605	1090	1420	1390	1290
28	324	60	75	70	110	135	660	586	1080	1360	1390	1280
29	321	60	75	70	110	135	605	562	1060	1390	1400	1270
30	312	60	75	70	---	135	568	607	1070	1390	1430	1260
31	306	---	75	70	---	142	---	576	---	1360	1420	---
TOTAL	6369	3111	2310	2410	2590	3574	14187	17284	41582	44790	44330	41190
MEAN	205	104	74.5	77.7	89.3	115	473	558	1386	1445	1430	1373
MAX	428	294	75	90	110	142	1060	623	1830	1570	1500	1460
MIN	60	60	60	70	70	100	122	476	530	1280	1340	1260
AC-FT	12630	6170	4580	4780	5140	7090	28140	34280	82480	88840	87930	81700

CAL YR 1979 TOTAL 120107 MEAN 329 MAX 1530 MIN 60 AC-FT 238200
WTR YR 1980 TOTAL 223727 MEAN 611 MAX 1830 MIN 60 AC-FT 443800

10072800 EIGHTMILE CREEK NEAR SODA SPRINGS, ID

LOCATION.--Lat 42°32'15", long 111°34'20", in SE1/4 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-1974: 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.--20 years, 16.7 ft^3/s (0.473 m^3/s), 12,100 acre-ft/yr (14.9 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) May 8, gage height, 2.42 ft (0.738 m); minimum, 1.6 ft^3/s (0.045 m^3/s) Mar. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	3.8	3.6	3.0	3.6	2.9	2.8	54	51	41	16	8.1
2	4.1	3.8	3.6	3.0	3.6	3.0	2.9	56	61	39	16	8.0
3	4.2	4.2	3.8	3.0	3.4	3.1	2.9	57	74	38	15	7.3
4	4.3	4.3	3.8	3.0	3.1	3.0	2.9	61	73	36	14	7.4
5	4.2	4.3	3.8	3.0	2.8	3.0	3.2	65	75	35	14	7.3
6	4.2	4.2	4.0	3.1	2.8	3.0	3.2	76	74	34	13	7.3
7	4.1	4.2	4.0	3.2	2.8	2.9	3.0	76	70	33	13	7.6
8	4.0	4.0	4.0	3.2	2.8	3.0	3.0	86	67	32	13	8.0
9	4.0	3.8	3.8	3.2	2.8	3.0	3.0	94	65	31	13	7.3
10	4.0	3.7	3.7	3.0	3.0	3.0	3.0	87	71	30	12	7.3
11	4.0	4.1	3.2	3.2	3.0	3.0	3.1	81	80	29	12	8.8
12	4.0	3.6	3.4	3.3	3.0	2.9	3.2	77	88	28	12	8.7
13	4.0	3.7	3.6	3.6	3.0	2.9	3.6	68	87	27	11	7.8
14	4.0	3.6	3.6	3.8	3.0	3.0	4.6	62	85	26	11	7.1
15	4.4	3.7	3.5	3.8	3.2	3.0	6.2	57	79	25	13	7.0
16	4.4	3.8	3.5	3.8	3.3	2.6	7.5	61	75	24	12	6.8
17	4.2	4.2	3.4	3.8	3.0	2.6	9.6	56	71	23	11	6.7
18	4.4	4.2	3.4	3.8	3.7	2.9	14	53	69	23	11	6.5
19	9.0	3.7	3.4	3.6	3.8	2.8	19	51	69	22	11	6.4
20	6.0	3.2	3.2	3.5	3.5	2.8	26	56	68	21	10	6.4
21	5.1	3.0	3.0	3.6	3.5	2.8	32	65	67	21	9.9	6.7
22	5.0	2.9	3.0	3.5	3.3	2.7	40	75	63	20	9.6	6.5
23	4.9	3.1	3.0	3.6	3.1	2.7	41	86	57	20	9.3	6.4
24	4.8	3.2	3.1	3.6	3.0	2.7	43	88	52	20	9.1	6.4
25	4.5	3.4	3.2	3.5	2.9	2.8	43	83	50	19	8.9	6.2
26	4.6	3.4	3.1	3.4	2.9	2.7	44	70	45	19	8.9	6.1
27	4.3	3.6	3.0	3.4	3.0	2.9	42	62	43	18	8.5	6.0
28	4.3	3.4	3.0	3.3	3.0	2.9	43	58	40	17	8.4	5.9
29	4.3	3.5	3.0	3.6	3.0	2.9	47	56	40	17	8.1	5.8
30	4.1	3.6	3.0	3.6	---	3.0	53	50	39	17	8.2	5.8
31	4.0	---	3.0	3.6	---	2.9	---	52	---	17	8.7	---
TOTAL	139.4	111.2	105.7	105.6	90.9	89.4	554.7	2079	1948	802	350.6	209.6
MEAN	4.50	3.71	3.41	3.41	3.13	2.88	18.5	67.1	64.9	25.9	11.3	6.99
MAX	9.0	4.3	4.0	3.8	3.8	3.1	53	94	88	41	16	8.8
MIN	4.0	2.9	3.0	3.0	2.8	2.6	2.8	50	39	17	8.1	5.8
AC-FT	276	221	210	209	180	177	1100	4120	3860	1590	695	416

CAL YR 1979 TOTAL 3876.3 MEAN 10.6 MAX 59 MIN 2.3 AC-FT 7690
WTR YR 1980 TOTAL 6586.1 MEAN 18.0 MAX 94 MIN 2.6 AC-FT 13060

10075000 BEAR RIVER AT SODA SPRINGS, ID

LOCATION.--Lat 42°36'50", long 111°34'58", in NW1/4SW1/4NW1/4 sec.29, T.9 S., R.42 E., Caribou County, Hydrologic Unit 16010202, on left bank 800 ft (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 (Geologic Survey open-file report).

REVISED RECORDS.--WDR UT-1974: 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 Power Commission project.

AVERAGE DISCHARGE.--27 years, 638 ft^3/s (18.1 m^3/s), 462,200 acre-ft/yr (570 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, 2,250 ft^3/s (63.7 m^3/s) June 6, gage height, 5.60 ft (1.707 m); minimum, 41 ft^3/s (1.16 m^3/s) Nov. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	218	267	106	130	101	133	177	949	981	1230	1430	1360
2	159	253	111	128	101	131	177	892	1040	1410	1410	1360
3	142	226	117	115	92	108	184	867	1630	1510	1390	1350
4	156	161	118	105	92	103	188	865	1910	1550	1380	1370
5	207	134	107	92	106	101	206	839	2060	1570	1390	1380
6	234	128	104	90	108	111	234	847	2220	1540	1410	1390
7	227	123	104	87	110	112	238	923	2200	1480	1450	1390
8	218	118	107	77	112	121	231	993	2160	1450	1440	1390
9	199	114	103	78	114	119	245	1040	2100	1430	1460	1380
10	136	99	102	84	122	108	265	1070	2040	1420	1460	1380
11	104	84	101	90	109	112	281	1060	1990	1390	1450	1400
12	98	85	100	92	114	109	299	1080	1920	1390	1450	1440
13	97	76	98	113	117	122	323	1070	1850	1450	1440	1410
14	97	70	96	137	121	122	384	1020	1820	1430	1440	1390
15	97	72	94	152	114	118	503	970	1800	1410	1440	1360
16	100	71	92	151	93	123	672	1030	1760	1440	1460	1340
17	97	84	92	136	88	128	828	1100	1720	1450	1480	1320
18	91	78	92	160	113	138	982	1040	1640	1420	1490	1310
19	143	67	90	159	130	147	1260	965	1560	1410	1460	1310
20	326	67	88	130	134	122	1490	942	1500	1400	1460	1300
21	425	77	93	126	145	121	1540	909	1460	1370	1450	1300
22	370	86	95	123	130	121	1450	904	1420	1360	1450	1290
23	349	89	101	119	120	125	1330	924	1400	1430	1440	1300
24	349	89	108	116	127	133	1330	977	1330	1470	1410	1310
25	338	89	112	107	123	137	1290	1000	1260	1490	1390	1300
26	332	83	117	110	115	144	1180	1040	1190	1490	1390	1300
27	326	87	121	103	121	148	1040	1040	1160	1510	1370	1290
28	310	89	120	101	119	150	956	1000	1130	1460	1360	1290
29	289	94	109	99	116	141	988	999	1120	1450	1370	1280
30	274	99	130	100	---	174	989	1020	1120	1460	1380	1280
31	276	---	131	101	---	159	---	1020	---	1450	1370	---
TOTAL	6784	3259	3259	3511	3307	3941	21260	30395	48491	44720	44170	40270
MEAN	219	109	105	113	114	127	709	980	1616	1443	1425	1342
MAX	425	267	131	160	145	174	1540	1100	2220	1570	1490	1440
MIN	91	67	88	77	88	101	177	839	981	1230	1360	1280
AC-FT	13460	6460	6460	6960	6560	7820	42170	60290	96180	88700	87610	79880

CAL YR 1979 TOTAL 149613 MEAN 410 MAX 1580 MIN 67 AC-FT 296800
WTR YR 1980 TOTAL 253367 MEAN 692 MAX 2220 MIN 67 AC-FT 502600

10076400 SODA CREEK AT FIVEMILE MEADOWS, NEAR SODA SPRINGS, ID

LOCATION.--Lat 42°43'45", long 111°36'55", in SE1/4NW1/4 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-1974: 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 during winter months, which are poor. Records herein include flow in Schmidt ditch.

AVERAGE DISCHARGE.--16 years, 16.3 ft^3/s (0.462 m^3/s), 11,810 acre-ft/yr (14.6 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, 119 ft^3/s (3.37 m^3/s) Apr. 18, gage height, 1.92 ft (0.585 m); no flow Mar. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	3.7	2.1	.50	.50	1.2	1.2	25	25	18	14	15
2	3.8	3.7	2.0	.50	.50	1.2	1.2	22	26	18	14	15
3	3.8	3.8	2.0	.50	.50	1.2	1.2	22	27	18	14	15
4	3.8	4.0	2.0	.50	.50	1.3	1.2	22	26	18	14	15
5	3.8	4.0	2.0	.50	.50	1.4	1.6	20	27	18	14	15
6	3.8	3.8	2.0	.50	.50	1.4	1.5	20	32	17	14	15
7	3.8	4.2	2.0	.50	.50	1.4	1.4	21	31	16	14	15
8	3.8	4.5	2.0	.50	.50	1.4	1.6	22	27	18	14	16
9	3.6	4.5	2.0	.50	.50	1.4	1.7	26	24	16	14	16
10	3.5	4.5	2.0	.50	.50	1.4	1.8	28	24	16	14	16
11	3.5	4.4	1.9	.50	.50	1.4	1.8	29	23	16	14	17
12	3.5	4.3	1.8	.50	.50	1.4	1.8	38	22	18	14	17
13	3.5	4.3	1.7	.50	.50	1.4	1.6	38	22	18	14	17
14	3.5	3.9	1.6	.50	.60	1.5	2.4	31	22	18	14	16
15	3.7	3.9	1.5	.50	.70	1.5	4.4	27	22	18	14	16
16	3.5	3.8	1.5	.50	.80	1.5	13	28	21	18	16	16
17	3.4	3.8	1.5	.50	.90	1.5	36	35	20	17	14	16
18	3.6	3.9	1.4	.50	1.0	1.5	75	32	20	17	14	16
19	4.6	3.3	1.3	.50	1.1	1.5	93	28	20	17	16	17
20	4.3	2.8	1.2	.50	1.2	1.5	84	24	20	16	14	17
21	4.1	2.6	1.2	.50	1.2	1.5	55	24	18	16	14	17
22	4.0	2.5	1.2	.50	1.1	1.6	32	22	18	16	16	17
23	3.8	2.5	1.2	.50	1.0	1.7	25	24	18	15	16	17
24	3.8	2.5	1.2	.50	1.0	1.7	29	24	18	15	14	17
25	3.6	2.5	1.1	.50	1.0	1.7	26	24	18	15	14	16
26	3.9	2.5	1.0	.56	1.0	1.7	24	25	18	14	16	16
27	3.7	2.5	.90	.50	1.0	1.5	21	24	17	14	16	16
28	3.7	2.4	.80	.50	1.1	1.4	21	23	17	14	15	16
29	3.7	2.3	.70	.50	1.2	1.4	22	23	17	14	15	16
30	3.7	2.2	.60	.50	---	1.2	25	23	17	14	15	16
31	3.9	---	.50	.50	---	1.2	---	23	---	14	15	---
TOTAL	116.5	103.6	45.90	15.56	22.40	44.6	607.4	797	657	507	450	482
MEAN	3.76	3.45	1.48	.50	.77	1.44	20.2	25.7	21.9	16.4	14.5	16.1
MAX	4.6	4.5	2.1	.56	1.2	1.7	93	38	32	18	16	17
MIN	3.4	2.2	.50	.50	.50	1.2	1.2	20	17	14	14	15
AC-FT	231	205	91	31	44	88	1200	1580	1300	1010	893	956

CAL YR 1979 TOTAL 2794.40 MEAN 7.66 MAX 50 MIN .50 AC-FT 5540
WTR YR 1980 TOTAL 3848.96 MEAN 10.5 MAX 93 MIN .50 AC-FT 7630

10079500 BEAR RIVER AT ALEXANDER, ID

LOCATION.--Lat 42°38'42", long 111°41'51", in NE1/4SW1/4NW1/4 sec.17, T.9 S., R.41 E., Caribou County, Hydrologic Unit 16010202, on right bank 600 ft (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-1974: 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 Power Commission project.

AVERAGE DISCHARGE.--69 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, 2,330 ft^3/s (66.0 m^3/s) June 6, gage height, 3.30 ft (1.006 m); minimum daily, 23 ft^3/s (0.651 m^3/s) Jan. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	313	443	79	35	178	393	385	1050	1030	1270	1460	1430
2	263	408	75	243	100	417	534	1040	1180	1390	1440	1490
3	248	389	82	188	138	467	528	947	1620	1560	1420	1560
4	245	331	65	123	253	499	505	958	2050	1610	1410	1570
5	311	287	40	23	207	490	584	957	2130	1630	1400	1550
6	346	287	77	86	253	478	556	929	2230	1640	1390	1550
7	321	290	62	113	253	477	571	947	2270	1630	1370	1560
8	343	292	62	86	253	280	577	1080	2280	1630	1450	843
9	346	295	72	104	196	336	572	1150	2220	1630	1550	1420
10	252	164	63	93	232	472	559	1180	2140	1500	1550	1410
11	216	187	76	40	253	434	558	1190	2150	1470	1550	1430
12	216	237	99	146	409	435	460	1150	2110	1450	1550	1580
13	217	242	60	119	471	439	146	1170	1960	1470	1540	1620
14	213	231	81	129	428	415	580	1130	1890	1480	1510	1620
15	205	94	63	36	428	94	726	1040	1880	1490	1510	1610
16	217	112	65	250	442	134	880	1080	1860	1490	1480	1490
17	217	137	69	280	438	274	1030	1260	1840	1490	1460	1400
18	218	94	122	285	594	296	1020	1130	1710	1480	1520	1390
19	233	91	215	283	239	404	1000	1040	1670	1490	1570	1390
20	666	91	214	297	116	410	1000	1010	1500	1490	1560	1350
21	681	132	218	299	110	447	1480	934	1460	1400	1570	1320
22	534	84	60	298	145	233	1910	893	1480	1360	1560	1310
23	472	114	62	323	111	227	1660	908	1420	1370	1550	1310
24	487	110	76	348	154	390	1490	1020	1370	1360	1540	1310
25	506	85	71	147	107	436	1490	1030	1320	1370	1540	1300
26	500	80	208	146	187	331	1400	1050	1330	1370	1540	1300
27	490	75	204	303	430	427	1210	1080	1290	1380	1540	1310
28	485	112	178	255	437	264	1090	979	1220	1440	1540	1300
29	489	101	82	319	494	107	981	965	1230	1400	1480	1300
30	433	74	37	201	---	304	946	1030	1220	1450	1460	1260
31	538	---	201	223	---	388	---	1030	---	1450	1450	---
TOTAL	11221	5669	3138	5821	8056	11198	26428	32357	51060	45640	46460	42283
MEAN	362	189	101	188	278	361	881	1044	1702	1472	1499	1409
MAX	681	443	218	348	594	499	1910	1260	2280	1640	1570	1620
MIN	205	74	37	23	100	94	146	893	1030	1270	1370	843
AC-FT	22260	11240	6220	11550	15980	22210	52420	64180	101300	90530	92150	83870

CAL YR 1979 TOTAL 191540 MEAN 525 MAX 1760 MIN 37 AC-FT 379900
WTR YR 1980 TOTAL 289331 MEAN 791 MAX 2280 MIN 23 AC-FT 573900

10084500 COTTONWOOD CREEK NEAR CLEVELAND, ID

LOCATION.--Lat 42°19'57", long 111°46'27", in SW1/4 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.--41 years, 31.4 ft^3/s (0.890 m^3/s), 22,700 acre-ft/yr (28.0 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.--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)
Apr. 21	2400	560	15.9	3.60	1.097
Apr. 24	0300	*630	17.8	3.72	1.134
May 9	2300	222	6.29	2.80	.853
May 16	1900	214	6.06	2.78	.847

Minimum discharge, 2.4 ft^3/s (0.068 m^3/s) Oct. 1-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	5.2	5.5	6.8	10	18	17	205	110	22	11	8.2
2	2.4	5.7	5.5	6.9	10	18	17	200	126	25	9.8	6.9
3	2.5	6.6	5.7	6.6	9.8	18	18	174	168	24	9.4	6.6
4	2.5	6.1	6.5	6.6	9.1	18	18	170	137	33	10	6.7
5	2.6	7.2	6.8	6.6	8.5	17	23	172	144	22	10	6.7
6	2.6	7.2	7.0	6.7	8.7	16	30	157	148	18	9.7	6.5
7	2.6	7.2	7.2	6.6	8.3	16	27	158	140	16	9.7	7.3
8	2.7	7.1	7.3	6.6	8.0	16	27	149	124	16	9.5	11
9	2.9	7.0	7.3	6.8	8.1	15	31	182	116	15	9.2	10
10	2.9	6.8	7.6	7.2	8.5	15	34	180	108	14	9.0	9.8
11	2.9	7.3	7.3	7.0	8.6	16	33	165	101	15	8.9	15
12	2.9	7.1	6.8	7.3	8.6	15	41	170	94	15	8.6	22
13	2.9	7.6	6.5	8.0	8.4	16	56	163	88	15	8.4	16
14	2.9	7.5	6.6	10	8.5	16	84	145	83	15	8.0	9.9
15	3.0	7.4	6.8	15	8.9	16	117	131	82	16	12	8.1
16	3.2	7.2	6.6	17	9.0	15	139	159	76	15	12	7.3
17	3.2	7.9	7.0	18	9.3	15	172	174	70	15	12	7.0
18	3.3	8.1	7.0	18	15	16	221	155	65	13	9.3	6.8
19	5.0	7.8	7.3	16	20	16	269	144	61	12	9.3	6.7
20	8.1	7.1	7.3	13	27	15	330	138	57	13	9.8	9.2
21	6.5	7.0	7.3	12	28	17	351	134	49	14	8.9	11
22	5.6	6.3	7.4	12	23	16	402	131	40	13	8.2	12
23	5.2	6.1	7.4	12	18	18	332	133	38	13	7.9	11
24	5.2	6.1	7.4	13	16	19	372	145	33	13	9.1	11
25	4.3	6.0	7.0	13	16	18	275	136	31	14	9.0	10
26	4.6	6.0	7.0	12	16	17	262	125	29	11	9.7	10
27	4.9	6.0	7.0	12	17	18	237	112	28	11	8.4	10
28	5.0	6.0	7.0	10	20	17	216	101	24	13	8.0	9.9
29	5.1	5.8	7.0	9.8	19	17	232	106	22	9.3	7.5	9.9
30	5.0	5.7	7.0	10	---	19	234	102	22	10	7.2	9.8
31	5.2	---	6.8	10	---	19	---	101	---	13	7.5	---
TOTAL	120.1	202.1	213.9	322.5	385.3	518	4617	4617	2414	483.3	287.0	292.3
MEAN	3.87	6.74	6.90	10.4	13.3	16.7	154	149	80.5	15.6	9.26	9.74
MAX	8.1	8.1	7.6	18	28	19	402	205	168	33	12	22
MIN	2.4	5.2	5.5	6.6	8.0	15	17	101	22	9.3	7.2	6.5
AC-FT	238	401	424	640	764	1030	9160	9160	4790	959	569	580

CAL YR 1979 TOTAL 8247.9 MEAN 22.6 MAX 206 MIN 2.4 AC-FT 16360
WTR YR 1980 TOTAL 14472.5 MEAN 39.5 MAX 402 MIN 2.4 AC-FT 28710

10086500 BEAR RIVER BELOW UTAH POWER & LIGHT CO.'S TAILRACE, AT ONEIDA, ID

LOCATION.--Lat 42°16'00", long 111°45'04", in NE1/4SE1/4NW1/4 sec.26, T.12 S., R.40 E., Franklin County, Hydrologic Unit 16010202, on right bank 200 ft (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-1974: 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 Power Commission project.

AVERAGE DISCHARGE.--59 years, 827 ft^3/s (23.4 m^3/s), 599,200 acre-ft/yr (739 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, 3,290 ft^3/s (93.2 m^3/s) Aug. 26, gage height, 6.87 ft (2,094 m); minimum, 9.5 ft^3/s (0.269 m^3/s) Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	887	153	39	428	631	513	1430	1570	992	1360	1980
2	1010	899	270	382	210	508	677	1570	1430	1290	1230	1480
3	322	433	71	567	503	766	369	1620	2310	675	1040	1990
4	617	577	458	272	323	964	889	1390	2580	1290	1450	2060
5	326	537	112	510	394	777	727	1510	2050	1520	823	2100
6	253	684	250	433	304	869	417	1440	2620	1370	1660	2020
7	473	605	92	592	393	674	667	956	2510	1390	957	1510
8	82	229	499	285	648	595	644	1650	2820	1180	1040	2010
9	425	537	414	287	485	516	271	1220	3040	1300	1450	1540
10	390	338	269	342	412	725	701	2050	2720	1430	1390	42
11	39	710	525	488	379	383	804	1690	2690	1130	1450	39
12	391	384	422	449	355	825	487	1870	2560	1200	1520	898
13	140	756	199	1330	208	563	477	1970	2220	1010	847	2750
14	91	245	177	1720	844	835	593	1400	2460	1330	1720	2720
15	390	427	216	1150	530	402	820	1930	1920	1060	1250	2650
16	167	577	164	474	615	503	824	1090	2620	1570	1530	2160
17	341	261	177	459	856	664	1250	2090	1910	850	1060	45
18	348	343	228	921	1440	228	1930	1920	2280	1150	1790	173
19	952	441	275	564	1340	738	1450	1600	1900	1260	1290	1750
20	844	187	140	469	856	204	1270	1160	2080	1280	1270	1720
21	147	342	335	655	248	703	1510	2050	1360	1060	1600	2090
22	800	82	716	470	620	391	2120	947	1830	1350	1530	2160
23	589	196	580	451	486	489	2670	1340	1240	1190	1510	525
24	766	397	685	548	322	513	2280	1680	1660	1050	1730	1140
25	1160	166	169	620	252	753	2170	1740	1510	945	1460	2000
26	452	150	299	855	355	276	2090	1270	582	687	1310	893
27	449	99	258	439	207	607	775	1240	1130	1180	1480	2310
28	758	549	491	665	561	339	950	1420	1260	1270	1920	2070
29	828	188	237	281	784	531	1920	1680	1160	878	1410	1800
30	408	203	127	269	---	252	1330	1060	826	1430	1480	874
31	213	---	167	210	---	338	---	1770	---	1070	1590	---
TOTAL	14286	12429	9175	17196	15358	17562	33595	47753	58848	36387	43147	47499
MEAN	461	414	296	555	530	567	1120	1540	1962	1174	1392	1583
MAX	1160	899	716	1720	1440	964	2670	2090	3040	1570	1920	2750
MIN	39	82	71	39	207	204	271	947	582	675	823	39
AC-FT	28340	24650	18200	34110	30460	34830	66640	94720	116700	72170	85580	94210

CAL YR 1979 TOTAL 211883 MEAN 581 MAX 1670 MIN 39 AC-FT 420300
WTR YR 1980 TOTAL 353235 MEAN 965 MAX 3040 MIN 39 AC-FT 700600

10090500 BEAR RIVER NEAR PRESTON, ID

LOCATION.--Lat 42°10'05", long 111°50'59", in NW1/4 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-1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,524.8 ft (1,379.16 m) National Geodetic Vertical Datum 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 except for period of no gage-height record, which are fair. Station is below all irrigation diversions from Bear River in Idaho except Cub River pumps in SE1/4 sec.20, T.16 S., R.39 E. Natural flow of stream affected by storage reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--37 years (water years 1944-80), 866 ft^3/s (24.5 m^3/s), 627,400 acre-ft/yr (774 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, 3,840 ft^3/s (109 m^3/s) June 3, gage height, 5.11 ft (1.558 m); no flow Sept. 10 and 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	629	219	94	363	935	584	1370	1990	648	1280	1650
2	780	868	288	293	375	661	737	1900	2060	1230	1110	1190
3	471	482	81	626	308	605	388	2310	3120	727	839	1800
4	501	631	336	335	459	1000	948	1390	3260	1300	1220	2030
5	431	569	175	308	361	855	671	1970	2700	1240	758	1980
6	266	707	179	519	455	894	840	1460	3180	1640	1460	1670
7	454	523	143	377	229	669	752	1390	3290	1030	747	1590
8	85	251	318	479	614	701	661	1840	3280	1090	689	1480
9	511	465	391	327	526	510	442	1390	3620	1490	1240	1520
10	310	297	404	265	660	748	719	2410	3290	1060	1090	320
11	42	649	438	416	340	523	1010	1940	3320	957	1200	178
12	355	634	381	399	391	788	381	2310	3200	1380	1280	1660
13	134	707	206	1080	338	681	521	2180	2890	887	547	2170
14	76	338	134	1860	498	683	661	1750	2970	1320	1410	2120
15	372	506	226	1840	872	626	894	2430	2470	820	926	2170
16	388	505	135	633	557	531	1010	1360	3110	1410	1140	1010
17	292	284	187	577	793	521	1030	2640	2350	753	867	1.7
18	435	296	187	616	1100	487	2040	2470	2650	1300	1360	377
19	1080	406	212	885	2040	682	1440	1840	2380	1020	1040	2080
20	504	117	136	417	1470	225	1600	1490	2310	1020	1000	1590
21	481	290	315	688	601	685	1790	2700	1580	1190	1350	1940
22	720	182	716	582	430	262	1970	1210	2050	1000	1420	1550
23	711	54	520	293	775	580	2970	1850	1770	1110	1190	463
24	877	479	469	885	495	530	2760	2160	1890	867	1530	1220
25	885	113	403	284	449	799	2610	2270	1560	882	1130	2010
26	440	146	217	664	252	325	2080	1960	1080	509	1220	754
27	590	124	282	805	359	561	2490	1600	777	1070	1250	2130
28	847	401	208	583	504	373	1430	1670	1600	1140	1650	1890
29	787	231	449	586	563	492	2230	2050	931	769	1150	1680
30	303	247	149	346	---	331	1520	1490	1150	1190	1270	833
31	434	---	207	313	---	401	---	2180	---	937	1380	---
TOTAL	14736	12131	8711	18375	17177	18664	39179	58980	71828	32986	35743	43056.7
MEAN	475	404	281	593	592	602	1306	1903	2394	1064	1153	1435
MAX	1080	868	716	1860	2040	1000	2970	2700	3620	1640	1650	2170
MIN	42	54	81	94	229	225	381	1210	777	509	547	1.7
AC-FT	29230	24060	17280	36450	34070	37020	77710	117000	142500	65430	70900	85400

CAL YR 1979 TOTAL 207384.0 MEAN 568 MAX 1970 MIN 14 AC-FT 411300
WTR YR 1980 TOTAL 371566.7 MEAN 1015 MAX 3620 MIN 1.7 AC-FT 737000

10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE

LOCATION.--Lat 42°00'47", long 111°55'14", in NW1/4NE1/4 sec.29, T.16 S., R.39 E., Franklin County, Idaho, Hydrologic Unit 16010202, on left bank 1,050 ft (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-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,420 ft (1,347 m) from topographic map.

REMARKS.--Records poor. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--10 years, 1,205 ft^3/s (34.1 m^3/s), 873,000 acre-ft/yr (1.08 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, 4,050 ft^3/s (115 m^3/s) June 4, gage height, 7.33 ft (2.234 m); minimum observed, 106 ft^3/s (3.00 m^3/s) Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	400	710	300	260	450	1010	600	1240	2090	665	1190	1910
2	350	1150	300	200	450	843	802	2150	2260	1240	1020	1400
3	900	325	220	360	400	859	741	2120	3280	1070	1000	1890
4	450	430	200	630	550	1070	550	1240	3920	900	950	2260
5	670	700	375	300	450	972	970	2280	3440	1250	670	1680
6	380	725	150	550	510	1090	675	1300	3250	1710	1200	1830
7	360	939	320	450	320	973	980	2160	3570	1150	800	1560
8	360	250	150	500	680	892	702	1300	3440	1290	700	1830
9	390	400	460	400	620	575	725	1930	3890	1350	1100	1300
10	450	500	650	350	725	780	600	2240	3720	900	1090	120
11	210	560	440	500	400	977	1270	2130	3570	1100	1150	120
12	380	753	235	752	420	650	300	2540	3470	1160	1270	1100
13	210	810	470	2020	430	1050	590	2490	3190	580	650	2630
14	150	490	180	3520	580	445	691	2020	3150	1120	1380	2680
15	400	520	270	2600	1220	996	663	2330	2930	870	1000	2610
16	170	370	150	1050	911	624	1190	2020	2990	1290	1420	2100
17	430	440	300	1010	1120	603	938	2370	2700	1100	1280	125
18	320	190	150	938	1570	640	1730	2840	2790	880	1450	125
19	934	480	300	1130	2350	630	2080	2360	2730	870	1330	1600
20	1100	290	250	671	1910	460	1720	1980	2210	1280	1420	1740
21	300	175	275	840	989	390	1710	2260	1970	1100	1410	1960
22	770	320	420	778	865	470	2060	2070	1880	680	1660	2450
23	711	115	768	430	986	460	2770	1730	2130	1400	1420	745
24	730	485	525	1000	754	590	3170	2090	1710	875	1550	1050
25	1280	115	700	400	690	720	2630	2580	1880	810	1200	1240
26	485	220	155	760	419	820	2290	2100	1410	560	1310	1650
27	540	195	270	900	603	515	2550	2080	720	1040	1440	1380
28	938	290	350	700	465	430	2200	1790	1550	850	1490	2010
29	907	390	480	700	980	530	1740	2230	1020	1000	1510	2270
30	540	240	250	450	---	460	2220	2020	1320	830	1280	1120
31	300	---	180	420	---	420	---	1870	---	945	1570	---
TOTAL	16515	13577	10243	25569	22817	21944	41857	63860	78180	31865	37910	46485
MEAN	533	453	330	825	787	708	1395	2060	2606	1028	1223	1550
MAX	1280	1150	768	3520	2350	1090	3170	2840	3920	1710	1660	2680
MIN	150	115	150	200	320	390	300	1240	720	560	650	120
AC-FT	32760	26930	20320	50720	45260	43530	83020	126700	155100	63200	75190	92200

CAL YR 1979 TOTAL 238891 MEAN 654 MAX 1970 MIN 100 AC-FT 473800
WTR YR 1980 TOTAL 410822 MEAN 1122 MAX 3920 MIN 115 AC-FT 814900

10093000 CUB RIVER NEAR PRESTON, ID

LOCATION.--Lat 42°08'28", long 111°41'19", in SW1/4 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-1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,285.1 ft (1,610.90 m) National Geodetic Vertical Datum of 1929, unadjusted.

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

AVERAGE DISCHARGE.--37 years, 83.9 ft^3/s (2.38 m^3/s), 60,790 acre-ft/yr (75.0 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, 628 ft^3/s (17.8 m^3/s) June 11, gage height, 2.36 ft (0.719 m); minimum, 15 ft^3/s (0.425 m^3/s) Dec. 31, Jan. 1-9, Feb. 4, 5, 8-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	23	19	15	15	23	24	369	271	215	62	39
2	24	23	19	15	15	23	23	446	364	209	61	38
3	24	23	18	15	15	24	23	387	498	198	59	38
4	25	22	18	15	15	24	24	346	450	185	58	37
5	25	22	18	15	15	23	28	388	453	171	57	37
6	25	22	18	15	15	22	33	455	474	158	58	36
7	25	22	18	15	15	21	30	448	430	149	56	36
8	25	22	18	15	15	20	29	409	441	142	55	35
9	25	21	17	15	15	19	30	426	485	136	54	36
10	25	21	17	17	15	19	31	376	559	128	53	36
11	24	21	17	16	15	19	31	286	602	122	52	38
12	24	21	17	19	15	20	35	259	593	116	52	38
13	24	20	17	20	15	20	41	229	572	111	51	36
14	24	20	17	32	15	20	47	210	532	106	50	35
15	25	20	17	24	16	21	58	203	474	101	53	35
16	25	20	17	21	16	21	66	216	417	97	50	35
17	25	20	17	20	16	21	71	216	399	94	49	34
18	25	20	17	19	23	20	84	202	395	90	48	34
19	31	20	16	19	28	20	99	206	408	88	48	33
20	27	20	16	18	29	20	126	241	429	85	47	33
21	25	19	16	18	26	21	155	322	420	81	45	33
22	25	19	17	18	23	21	169	455	402	79	44	33
23	24	19	16	17	22	23	210	519	369	77	44	32
24	24	19	16	17	20	23	230	553	334	75	44	32
25	23	19	16	17	19	25	205	422	304	73	43	32
26	23	19	16	17	19	24	228	311	283	72	42	31
27	23	19	16	16	21	24	243	264	265	71	41	31
28	23	19	16	16	23	23	254	247	255	69	40	31
29	23	19	15	15	24	23	295	252	229	67	41	30
30	23	19	15	15	---	25	304	242	219	63	40	30
31	23	---	15	15	---	24	---	254	---	62	40	---
TOTAL	761	613	522	541	535	676	3226	10159	12326	3490	1537	1034
MEAN	24.5	20.4	16.8	17.5	18.4	21.8	108	328	411	113	49.6	34.5
MAX	31	23	19	32	29	25	304	553	602	215	62	39
MIN	23	19	15	15	15	19	23	202	219	62	40	30
AC-FT	1510	1220	1040	1070	1060	1340	6400	20150	24450	6920	3050	2050

CAL YR 1979 TOTAL 24891 MEAN 68.2 MAX 566 MIN 15 AC-FT 49370
WTR YR 1980 TOTAL 35420 MEAN 96.8 MAX 602 MIN 15 AC-FT 70260

10099000 HIGH CREEK NEAR RICHMOND, UTAH

LOCATION.--Lat 41°58'40", long 111°44'40", in SW1/4SE1/4 sec.5, T.14 N., R.2 E., Cache County, Cache National Forest, Hydrologic Unit 16010202, on right bank near forest boundary, 2 mi (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 good except for periods of no gage-height record, which are fair. No diversion above station.

AVERAGE DISCHARGE.--9 years (1946-52, 1972, 1979-80), 32.8 ft^3/s (0.929 m^3/s), 23,760 acre-ft/yr (29.3 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) February 1-15, 1972, backwater from ice; minimum observed, 2.6 ft^3/s (0.074 m^3/s) January 5, 1950, result of ice jam upstream.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 207 ft^3/s (5.86 m^3/s) June 3; minimum daily, 4.9 ft^3/s (0.139 m^3/s) January 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	7.8	5.9	5.0	6.0	11	11	147	131	88	26	15
2	8.7	7.8	5.9	5.2	5.9	11	11	140	162	85	25	14
3	8.7	7.5	5.9	5.2	5.0	11	11	129	207	79	24	14
4	8.7	7.5	5.9	5.2	5.1	11	11	127	200	74	24	14
5	8.7	7.5	5.9	5.2	5.4	10	11	133	194	69	24	14
6	8.4	7.2	5.9	4.9	5.4	10	13	138	183	66	22	13
7	8.4	7.2	5.9	5.0	5.4	9.9	13	139	168	62	22	13
8	8.4	7.2	5.9	5.0	5.4	9.6	13	133	155	58	22	13
9	8.4	7.2	5.9	5.0	5.4	9.1	12	137	150	55	21	13
10	8.4	7.0	5.9	5.2	5.4	8.4	12	133	160	53	21	13
11	8.4	7.0	5.8	8.7	5.4	8.4	12	126	178	50	20	14
12	8.4	7.0	5.7	11	5.4	8.7	12	113	173	49	20	15
13	8.0	7.0	5.6	9.8	5.4	8.7	15	104	163	47	20	13
14	8.0	6.7	5.5	26	5.4	8.7	21	98	150	45	20	13
15	8.0	6.7	5.4	21	5.9	8.7	30	92	139	43	21	12
16	8.0	6.7	5.4	15	5.9	8.7	35	96	123	42	21	12
17	8.0	6.7	5.4	12	6.1	8.2	40	96	117	41	20	11
18	8.0	7.0	5.4	10	9.1	8.0	49	92	119	39	19	11
19	12	7.0	5.4	9.3	13	8.0	61	94	125	37	19	11
20	11	6.7	5.4	8.4	15	8.0	73	103	130	37	18	12
21	9.1	6.5	5.4	7.8	14	8.5	80	118	127	35	18	12
22	8.4	6.4	5.6	7.4	12	8.4	93	147	120	34	17	11
23	8.4	6.4	5.4	7.2	11	8.4	112	162	112	33	17	11
24	8.0	6.4	5.4	7.0	9.5	8.7	110	180	106	33	16	11
25	8.0	6.4	5.2	6.8	8.9	9.1	100	145	101	31	16	11
26	8.0	6.4	5.4	6.7	8.7	9.1	99	120	97	30	16	11
27	8.0	6.4	5.3	6.5	8.9	9.5	95	113	93	29	16	11
28	7.8	6.4	5.2	6.4	11	9.5	96	115	86	28	15	11
29	7.8	6.2	5.1	6.3	12	9.5	107	113	80	27	15	11
30	7.8	6.0	5.0	6.2	---	11	109	116	83	27	15	11
31	7.8	---	5.0	6.1	---	11	---	122	---	27	15	---
TOTAL	262.4	205.9	172.0	256.5	227.0	287.8	1467	3821	4132	1453	605	371
MEAN	8.46	6.86	5.55	8.27	7.83	9.28	48.9	123	138	46.9	19.5	12.4
MAX	12	7.8	5.9	26	15	11	112	180	207	88	26	15
MIN	7.8	6.0	5.0	4.9	5.0	8.0	11	92	80	27	15	11
AC-FT	520	408	341	509	450	571	2910	7580	8200	2880	1200	736

CAL YR 1979 TOTAL 8895.5 MEAN 24.4 MAX 171 MIN 5.0 AC-FT 17640
WTR YR 1980 TOTAL 13260.6 MEAN 36.2 MAX 207 MIN 4.9 AC-FT 26300

10104700 LITTLE BEAR RIVER BELOW DAVENPORT CREEK, NEAR AVON, UT

LOCATION.--Lat 41°30'45", long 111°48'40", in SW1/4SW1/4 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-1974: 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 the station.

AVERAGE DISCHARGE.--20 years, 56.0 ft^3/s (1.59 m^3/s), 40,570 acre-ft/yr (50.0 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, 1,200 ft^3/s (34.0 m^3/s) Jan. 14, gage height, 3.97 ft (1.210 m); minimum, 8.8 ft^3/s (0.249 m^3/s) Nov. 27 and Dec. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	24	21	22	24	40	37	230	171	80	41	32
2	20	23	23	21	23	40	39	234	300	81	40	32
3	20	23	23	20	23	60	38	229	392	78	40	32
4	21	23	23	20	22	60	48	211	228	76	41	31
5	20	23	23	20	22	51	55	218	211	72	40	31
6	20	23	22	20	22	60	61	223	188	69	39	30
7	20	23	22	19	22	43	55	212	169	69	39	34
8	20	23	23	21	19	38	47	219	180	68	38	33
9	21	22	22	22	18	36	56	321	174	65	37	33
10	21	22	22	42	19	36	62	268	172	62	37	34
11	21	22	17	18	19	38	56	216	169	60	37	42
12	20	21	14	131	19	38	69	214	157	57	37	37
13	20	21	19	263	20	34	84	165	145	56	36	34
14	20	21	20	503	22	38	115	149	138	56	36	32
15	20	21	21	104	38	41	148	140	126	55	37	31
16	21	20	21	64	53	37	157	207	119	54	37	31
17	21	22	21	52	58	34	185	200	114	52	36	29
18	23	23	21	43	200	35	223	152	115	52	35	29
19	57	22	21	33	141	34	253	144	110	50	36	29
20	33	22	21	29	118	34	293	154	106	50	36	30
21	25	17	21	30	72	41	292	170	102	49	35	31
22	24	17	21	27	60	41	286	194	96	47	34	30
23	24	21	19	24	49	41	286	214	94	46	34	30
24	24	22	20	26	42	38	248	216	91	45	33	30
25	24	23	21	26	40	39	263	195	87	45	34	30
26	23	23	18	24	42	39	243	192	84	44	34	29
27	24	21	16	22	48	37	226	158	84	43	33	29
28	24	15	17	21	49	37	226	152	82	43	34	29
29	24	16	17	23	44	41	250	156	81	42	33	29
30	24	19	19	21	---	38	270	151	78	42	32	29
31	24	---	21	22	---	39	---	157	---	41	32	---
TOTAL	724	638	630	1733	1348	1258	4671	6063	4363	1749	1123	942
MEAN	23.4	21.3	20.3	55.9	46.5	40.6	156	196	145	56.4	36.2	31.4
MAX	57	24	23	503	200	60	293	321	392	81	41	42
MIN	20	15	14	18	18	34	37	140	78	41	32	29
AC-FT	1440	1270	1250	3440	2670	2500	9260	12030	8650	3470	2230	1870

CAL YR 1979 TOTAL 16665 MEAN 45.7 MAX 206 MIN 14 AC-FT 33060
WTR YR 1980 TOTAL 25242 MEAN 69.0 MAX 503 MIN 14 AC-FT 50070

10104900 EAST FORK LITTLE BEAR RIVER ABOVE RESERVOIR, NEAR AVON, UT

LOCATION.--Lat 41°31'06", long 111°42'49", in NW1/4 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-1974: 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.--17 years, 36.1 ft^3/s (1.02 m^3/s), 26,150 acre-ft/yr (32.2 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, 724 ft^3/s (20.5 m^3/s) Apr. 25, gage height, 3.55 ft (1.082 m); minimum, 3.6 ft^3/s (0.102 m^3/s) Jan. 11 and Feb. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	5.8	5.7	5.1	7.5	17	14	488	100	42	19	12
2	6.1	5.8	5.4	5.3	7.5	17	14	396	184	42	19	12
3	6.0	5.9	5.4	5.7	7.4	18	14	346	236	41	19	12
4	6.0	6.0	5.5	5.9	7.2	18	14	335	200	40	18	12
5	6.0	6.2	5.7	5.7	7.2	17	16	305	175	37	18	11
6	6.0	6.0	5.7	5.8	7.3	17	17	277	160	36	18	11
7	6.0	6.0	5.7	5.7	7.4	17	18	256	144	35	17	12
8	6.0	6.0	5.7	5.8	6.5	17	17	239	130	34	17	12
9	6.0	6.0	5.7	5.9	6.2	16	18	373	119	33	17	12
10	6.0	6.0	5.7	6.4	6.7	16	22	282	109	32	17	11
11	6.0	6.1	5.1	5.4	6.9	16	22	225	102	31	16	13
12	6.0	5.8	4.6	7.0	7.0	17	23	194	95	30	16	13
13	6.0	5.6	5.2	11	7.2	16	26	165	87	30	15	12
14	6.0	5.6	5.1	21	7.4	16	32	152	81	29	15	11
15	6.0	5.5	5.1	18	7.9	17	45	143	77	28	16	11
16	6.2	5.4	5.1	14	7.9	17	66	155	74	27	16	10
17	6.2	5.6	5.1	13	8.4	16	87	153	70	27	15	11
18	6.6	6.0	5.3	12	11	16	125	136	67	26	15	10
19	11	5.8	5.4	10	14	16	179	127	63	25	15	10
20	10	5.6	5.4	8.9	16	16	274	125	60	24	15	10
21	8.2	5.2	5.4	9.2	16	16	357	125	59	24	14	10
22	7.4	4.7	5.4	8.6	15	16	371	121	56	23	14	10
23	7.1	5.3	5.4	8.5	14	16	399	122	54	23	13	10
24	7.0	5.5	5.4	8.5	13	16	361	125	51	22	13	10
25	6.9	5.7	5.4	8.4	13	16	447	123	50	21	13	10
26	6.9	5.9	5.2	8.3	13	15	417	122	48	21	13	10
27	6.5	5.7	4.9	7.8	14	15	388	110	47	20	13	10
28	6.1	4.6	5.1	7.8	16	14	407	97	45	20	13	9.8
29	5.7	5.1	4.9	8.2	18	14	456	96	43	20	13	9.8
30	5.8	5.3	5.1	7.2	---	15	499	91	42	20	12	9.8
31	5.8	---	5.1	7.2	---	14	---	92	---	19	13	---
TOTAL	203.6	169.7	164.9	267.3	296.6	500	5145	6096	2828	882	477	327.4
MEAN	6.57	5.66	5.32	8.62	10.2	16.1	172	197	94.3	28.5	15.4	10.9
MAX	11	6.2	5.7	21	18	18	499	488	236	42	19	13
MIN	5.7	4.6	4.6	5.1	6.2	14	14	91	42	19	12	9.8
AC-FT	404	337	327	530	588	992	10210	12090	5610	1750	946	649

CAL YR 1979 TOTAL 9575.4 MEAN 26.2 MAX 203 MIN 4.6 AC-FT 18990
WTR YR 1980 TOTAL 17357.5 MEAN 47.4 MAX 499 MIN 4.6 AC-FT 34430

10106000 LITTLE BEAR RIVER NEAR PARADISE, UT

LOCATION.--Lat 41°35'25", long 111°51'10", in SE1/4 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-1974: 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.--43 years, 90.5 ft^3/s (2.56 m^3/s), 65,570 acre-ft/yr (80.8 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, 1,570 ft^3/s (44.5 m^3/s) June 3, gage height, 7.91 ft (2.411 m); minimum, 22 ft^3/s (0.623 m^3/s) Oct. 9 and Dec. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	39	46	37	44	69	62	714	270	69	45	53
2	37	39	48	37	44	69	62	720	529	67	48	53
3	37	39	47	37	42	89	63	632	1010	61	45	51
4	37	39	44	37	41	98	68	621	599	60	44	51
5	37	39	42	37	40	86	77	604	532	63	44	51
6	37	39	41	39	40	102	93	556	489	61	41	55
7	37	37	41	36	40	77	79	528	446	63	40	55
8	32	37	41	39	38	72	71	504	402	67	41	76
9	29	37	42	39	35	68	76	758	385	64	38	63
10	30	36	41	74	37	66	86	742	369	60	38	63
11	42	36	37	44	37	69	76	610	315	74	44	72
12	54	36	32	230	37	71	82	561	277	61	45	72
13	44	34	36	351	38	63	93	451	245	61	44	74
14	39	34	37	636	39	65	118	377	223	58	54	69
15	41	34	37	177	105	71	148	348	198	55	53	66
16	42	32	37	105	108	65	174	464	178	60	58	67
17	44	39	37	87	136	60	195	465	165	58	55	66
18	45	47	37	74	430	62	248	365	151	57	51	67
19	88	45	37	62	254	62	295	336	126	58	55	66
20	74	44	37	55	211	62	342	344	107	55	58	66
21	57	40	37	53	118	69	366	356	88	54	57	64
22	49	37	39	50	102	69	362	377	74	54	51	63
23	45	41	37	47	86	71	358	389	69	55	49	60
24	48	42	36	47	72	69	308	389	63	55	49	60
25	44	44	39	47	69	66	295	356	55	54	55	60
26	44	45	36	45	71	63	269	344	49	54	57	57
27	42	42	30	41	78	66	387	292	53	53	57	51
28	40	37	32	40	80	63	561	245	55	50	58	49
29	39	39	32	43	80	65	660	245	58	49	60	48
30	37	43	35	40	---	66	817	223	67	51	51	51
31	37	---	37	41	---	63	---	236	---	46	50	---
TOTAL	1345	1172	1187	2727	2552	2176	6891	14154	7647	1807	1535	1819
MEAN	43.4	39.1	38.3	88.0	88.0	70.2	230	457	255	58.3	49.5	60.6
MAX	88	47	48	636	430	102	817	758	1010	74	60	76
MIN	29	32	30	36	35	60	62	223	49	46	38	48
AC-FT	2670	2320	2350	5410	5060	4320	13670	28070	15170	3580	3040	3610

CAL YR 1979 TOTAL 25391 MEAN 69.6 MAX 326 MIN 29 AC-FT 50360
WTR YR 1980 TOTAL 45012 MEAN 123 MAX 1010 MIN 29 AC-FT 89280

10107000 HYRUM RESERVOIR NEAR HYRUM, UT

LOCATION.--Lat 41°37'30", long 111°52'30", in SE1/4NE1/4 sec.7, T.10 N., R.1 E., Cache County, Hydrologic Unit 16010203, at Hyrum Dam on Little Bear River, 1 mi (1.6 km) southwest of Hyrum.

DRAINAGE AREA.--217 mi^2 (562 km^2).

PERIOD OF RECORD.--October 1938 to September 30, 1980 (discontinued).

GAGE.--Mercury indicating gage. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Reservoir is formed by earthfill dam; storage began in 1935. Usable storage capacity, 15,280 acre-ft (18.8 hm^3) between elevations 4,629.6 ft (1,411.10 m), sill of outlet canal, and 4,672 ft (1,424.03 m), top of spillway gates. Dead storage below sill of outlet canal, 3,405 acre-ft (4.20 hm^3). Elevation of spillway crest, 4,660 ft (1,420.37 m). Water used for irrigation on Hyrum project. Figures given herein represent usable contents; those published in annual reports prior to 1946 represent total contents.

COOPERATION.--Capacity table furnished by Bureau of Reclamation. Elevations May to September furnished by superintendent of Hyrum Dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 16,340 acre-ft (20.1 hm^3) June 3, 1980, elevation, 4,674.2 ft (1,424.70 m); no contents Oct. 16 to about Dec. 12, 1957, when reservoir was drained for inspection.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 16,340 acre-ft (20.1 hm^3) June 3, elevation, 4,674.2 ft (1,424.70 m); minimum observed, 5,760 acre-ft (7.10 hm^3) Oct. 5, 6.

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

4,632	490	4,660	9,840
4,635	1,200	4,665	12,030
4,640	2,570	4,670	14,340
4,645	4,130	4,674	16,240
4,650	5,860	4,675	16,720
4,655	7,780		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 1200

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5900	7030	---	---	10180	---	10260	---	15620	13400	11090	8580
2	5900	---	---	10140	---	---	---	---	15570	13270	10960	8580
3	5830	---	---	---	---	---	---	12390	16340	13130	10830	8580
4	5790	---	---	---	---	---	---	---	16140	12940	10610	---
5	5760	---	---	---	---	---	---	---	15950	12760	10480	8580
6	5760	---	---	---	---	---	---	12350	15950	12670	10310	8580
7	---	---	---	---	---	---	---	12260	15860	---	10140	8580
8	---	---	---	---	---	---	---	12170	---	12530	9920	8580
9	---	---	---	---	---	---	---	---	15620	12480	9750	8630
10	---	---	---	---	---	---	---	12390	15520	12440	9540	8670
11	---	---	---	---	---	---	---	12390	15470	12390	9370	8710
12	---	---	---	---	---	---	---	---	15280	12300	9250	8830
13	---	---	---	---	---	---	---	---	15470	12210	9120	9000
14	---	---	---	---	---	---	---	11990	15570	12120	9000	9160
15	---	---	---	---	---	---	---	---	15420	12030	8910	---
16	---	---	---	---	---	---	---	11670	15330	11940	---	9330
17	---	---	---	---	---	---	---	12390	15280	11900	8790	9460
18	---	---	---	---	---	---	---	12940	15470	11810	8750	---
19	---	---	---	---	---	---	---	13310	15380	11760	8750	9620
20	---	---	---	---	---	---	---	---	15470	11720	8750	9750
21	---	---	---	---	---	---	---	14060	15420	11670	8710	9840
22	---	---	---	---	---	---	---	---	15280	11630	8670	---
23	---	---	---	---	---	---	---	14860	15140	11630	8670	9960
24	---	---	---	---	---	---	---	---	14950	11580	8630	10010
25	---	---	---	---	---	---	---	---	14760	11580	8630	10050
26	---	---	---	---	---	---	---	15570	14530	11490	8580	---
27	---	---	---	---	---	---	---	15380	14290	11450	8580	10090
28	---	---	---	---	---	---	---	15470	14060	11400	---	---
29	---	---	---	---	10310	---	---	15380	13820	11310	8580	10090
30	---	9620	---	---	---	---	11540	15520	13590	---	---	a10090
31	a 6990	---	a 10140	a 10180	---	a 10260	---	a15570	---	11180	8580	---
(†)	---	4659.5	---	---	4661.1	---	4663.9	---	4668.4	4663.1	4657.0	---
(‡)	+1090	+2630	+520	+40	+130	-50	+1280	+4030	-1980	-2410	-2600	+1510

CAL YR 1979 . . . . . - 40
WTR YR 1980 . . . . . +4190

(†) Gage height, in feet, at 1200 of last day of month
(‡) Change in contents, in acre-feet
(a) Estimated

10108400 LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UT

LOCATION.--Lat 41°44'35", long 111°45'40", in NE1/4NE1/4 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) National Geodetic Vertical Datum of 1929 (Bureau of Public Roads benchmark).

REMARKS.--Records good.

AVERAGE DISCHARGE.--17 years, 25.1 ft^3/s (0.71 m^3/s), 18,180 acre-ft/yr (22.4 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 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	.90	4.7	3.3	4.4	4.2	.00	.00	40	73	70	65
2	33	.90	4.4	3.3	4.8	4.2	.00	.00	40	73	69	65
3	33	.90	4.1	3.3	4.8	4.2	.00	.00	40	72	69	65
4	33	.90	4.0	3.2	4.7	4.0	.00	.00	40	66	69	65
5	34	.90	4.0	3.0	4.7	4.0	.00	14	40	56	68	64
6	33	.90	3.7	2.7	4.5	4.0	.00	25	40	64	68	64
7	33	.90	3.7	2.6	4.4	4.0	.00	25	40	64	68	64
8	33	.90	3.6	2.6	4.4	4.0	.00	25	40	64	67	64
9	33	.90	3.7	2.6	4.4	4.0	.00	25	40	69	67	64
10	33	6.7	3.7	2.2	4.4	4.0	.00	25	40	68	67	64
11	33	6.0	3.6	2.0	4.4	4.1	.00	40	40	68	66	65
12	33	6.0	3.7	1.9	4.4	2.9	.00	40	40	72	67	64
13	37	6.0	3.7	1.2	4.4	2.1	.00	40	40	77	67	60
14	41	5.7	3.7	1.0	4.4	2.0	.00	40	50	77	66	59
15	41	4.9	3.7	1.0	4.4	2.0	.00	40	50	76	66	29
16	40	4.8	3.7	1.0	4.4	1.9	.00	40	50	76	66	29
17	40	4.7	3.5	1.0	4.4	2.0	.00	40	50	76	66	29
18	40	4.7	3.5	1.0	4.4	2.1	.00	40	51	79	65	29
19	27	4.7	3.5	1.0	4.2	2.0	.00	40	60	79	68	29
20	8.7	4.7	3.5	1.0	4.2	2.0	.00	40	69	78	68	29
21	8.6	4.7	3.5	.90	4.2	2.0	.00	40	70	77	67	29
22	8.6	4.7	3.5	.90	4.1	2.0	.00	40	74	72	67	29
23	8.6	4.7	3.5	1.1	4.0	2.0	.00	40	74	70	67	29
24	6.2	4.7	3.5	1.4	4.0	2.0	.00	40	74	70	66	36
25	1.6	4.7	3.5	2.4	4.0	2.0	.00	40	74	69	66	36
26	1.2	4.7	3.5	3.3	4.0	1.8	.00	40	74	69	66	36
27	1.2	4.6	3.5	3.3	4.0	1.7	.00	40	72	69	66	36
28	1.1	4.5	3.5	3.3	4.0	1.8	.00	40	72	69	66	36
29	1.0	4.6	3.3	3.3	4.1	1.2	.00	40	78	69	65	36
30	.90	4.7	3.3	3.3	---	.10	.00	40	84	70	65	36
31	.90	---	3.3	3.7	---	.10	---	40	---	70	65	---
TOTAL	711.60	113.60	113.6	67.80	125.5	80.40	.00	979.00	1646	2201	2073	1405
MEAN	23.0	3.79	3.66	2.19	4.33	2.59	.000	31.6	54.9	71.0	66.9	46.8
MAX	41	6.7	4.7	3.7	4.8	4.2	.00	40	84	79	70	65
MIN	.90	.90	3.3	.90	4.0	.10	.00	.00	40	56	65	29
AC-FT	1410	225	225	134	249	159	.00	1940	3260	4370	4110	2790

CAL YR 1979 TOTAL 8674.10 MEAN 23.8 MAX 79 MIN .00 AC-FT 17210
WTR YR 1980 TOTAL 9516.50 MEAN 26.0 MAX 84 MIN .00 AC-FT 18880

10109000 LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UT

LOCATION.--Lat 41°44'40", long 111°47'00", in NE1/4 sec.36, T.12 N., R.1 E., Cache County, Hydrologic Unit 16010203, on right bank 0.5 mi (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-1974: 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: 67 years (water years 1914-80), 127 ft^3/s (3.60 m^3/s), 92,010 acre-ft/yr (113 hm^3/yr).
Combined river and canal: 84 years, 272 ft^3/s (7.70 m^3/s), 197,100 acre-ft/yr (243 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, 903 ft^3/s (25.6 m^3/s) May 23, June 13, gage height, 4.64 ft (1.414 m); minimum, 67 ft^3/s (1.90 m^3/s) Jan. 31.
Combined river and canal: Maximum daily discharge, 916 ft^3/s (25.9 m^3/s) June 13; minimum daily, 89 ft^3/s (2.52 m^3/s) Jan. 11, Feb. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	116	94	96	90	104	105	808	606	559	215	149
2	90	114	104	96	91	104	105	808	675	554	207	147
3	90	114	105	96	91	109	105	736	782	529	207	147
4	90	114	102	94	93	112	107	741	768	508	204	147
5	90	114	102	96	88	111	107	768	768	496	199	147
6	90	114	102	96	91	111	116	777	759	469	196	145
7	90	114	104	91	91	109	116	772	732	453	194	147
8	88	114	104	93	88	105	111	764	728	431	191	147
9	90	114	102	96	85	105	111	840	768	412	191	143
10	88	111	101	101	88	104	114	786	813	394	189	143
11	88	111	101	87	88	104	114	688	849	384	184	158
12	88	109	87	112	91	107	114	628	872	362	179	165
13	85	107	96	143	91	105	121	559	876	348	179	152
14	83	107	99	167	91	105	137	529	858	338	177	145
15	81	107	96	127	94	107	158	533	818	325	177	165
16	80	107	99	114	96	107	194	546	768	314	184	163
17	78	107	97	109	99	104	224	525	754	304	177	163
18	80	109	96	107	121	107	256	500	759	291	169	163
19	114	107	96	101	129	107	320	512	764	285	165	163
20	141	105	96	94	121	102	402	585	764	275	165	158
21	121	104	97	97	114	107	453	666	750	269	163	163
22	116	99	97	93	112	107	484	764	728	266	160	163
23	116	104	96	93	109	107	537	840	705	259	160	158
24	118	104	96	96	102	105	546	858	684	253	156	154
25	121	104	97	96	102	107	517	768	658	247	156	152
26	121	104	96	93	102	105	546	686	632	238	156	152
27	118	102	91	90	102	104	554	628	606	235	156	149
28	116	93	91	88	104	104	567	610	576	230	149	147
29	116	92	91	93	107	101	636	610	546	224	149	147
30	116	91	91	88	---	107	679	585	533	221	149	145
31	116	---	94	87	---	105	---	593	---	218	149	---
TOTAL	3112	3212	3020	3130	2871	3288	8656	21015	21899	10691	5452	4587
MEAN	100	107	97.4	101	99.0	106	289	678	730	345	176	153
MAX	141	116	105	167	129	112	679	858	876	559	215	165
MIN	78	91	87	87	85	101	105	500	533	218	149	143
AC-FT	6170	6370	5990	6210	5690	6520	17170	41680	43440	21210	10810	9100

CAL YR 1979 TOTAL 66975 MEAN 183 MAX 855 MIN 78 AC-FT 132800
WTR YR 1980 TOTAL 90933 MEAN 248 MAX 876 MIN 78 AC-FT 180400

10109001 LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UT--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF LOGAN RIVER
ABOVE STATE DAM
AND LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UTAH

WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

MEAN VALUES

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	117	99	99	94	108	105	808	646	632	285	214
2	123	115	108	99	96	108	105	808	715	627	276	212
3	123	115	109	99	96	113	105	736	822	601	276	212
4	123	115	106	97	98	116	107	741	808	574	273	212
5	124	115	106	99	93	115	107	782	808	552	267	211
6	123	115	106	99	96	115	116	802	799	533	264	209
7	123	115	108	94	95	113	116	797	772	517	262	211
8	121	115	108	96	92	109	111	789	768	495	258	211
9	123	115	106	99	89	109	111	865	808	481	258	207
10	121	118	105	103	92	108	114	811	853	462	256	207
11	121	117	105	89	92	108	114	728	889	452	250	223
12	121	115	91	114	95	110	114	668	912	434	246	229
13	122	113	100	144	95	107	121	599	916	425	246	212
14	124	113	103	168	95	107	137	569	908	415	243	204
15	122	112	100	128	98	109	158	573	868	401	243	194
16	120	112	103	115	100	109	194	586	818	390	250	192
17	118	112	101	110	103	106	224	565	804	380	243	192
18	120	114	100	108	125	109	256	540	810	370	234	192
19	141	112	100	102	133	109	320	552	824	364	233	192
20	150	110	100	95	125	104	402	625	833	353	233	187
21	130	109	101	98	118	109	453	706	820	346	230	192
22	125	104	101	94	116	109	484	804	802	338	227	192
23	125	109	100	94	113	109	537	880	779	329	227	187
24	124	109	100	97	106	107	546	898	758	323	222	190
25	123	109	101	98	106	109	517	808	732	316	222	188
26	122	109	100	96	106	107	546	728	706	307	222	188
27	119	107	95	93	106	106	554	668	678	304	222	185
28	117	98	95	91	108	106	567	650	648	299	215	183
29	117	97	94	96	111	102	636	650	624	293	214	183
30	117	96	94	91	---	107	679	625	617	291	214	181
31	117	---	97	91	---	105	---	633	---	288	214	---
TOTAL	3825	3332	3142	3196	2992	3368	8656	21994	23545	12892	7525	5992
MEAN	123	111	101	103	103	109	289	709	785	416	243	200
MAX	150	118	109	168	133	116	679	898	916	632	285	229
MIN	117	96	91	89	89	102	105	540	617	288	214	181
AC-FT	7590	6610	6230	6340	5930	6680	17170	43630	46700	25570	14930	11890

CAL YR 1979 TOTAL 75667 MEAN 207 MAX 913 MIN 83 AC-FT 150100
WTR YR 1980 TOTAL 100459 MEAN 274 MAX 916 MIN 89 AC-FT 199300

10113500 BLACKSMITH FORK ABOVE UTAH POWER & LIGHT CO.'S DAM, NEAR HYRUM, UTAH

LOCATION.--Lat 41°37'18", long 111°44'42", in NE1/4 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.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,000.60 ft (1,524.183 m) National Geodetic Vertical Datum 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.--67 years, 128 ft^3/s (3.62 m^3/s), 92,740 acre-ft/yr (114 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 flood marks, 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) November 28, 1979.

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)
Jan. 14	0900	309	8.75	3.38	1.030
Feb. 18	2000	251	7.11	3.17	.966
Apr. 30	0900	*681	19.3	4.70	1.433
June 3	2200	477	13.5	3.98	1.213

Minimum discharge, 4.7 ft^3/s (0.133 m^3/s) Nov. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	79	53	68	75	102	91	612	240	176	133	118
2	77	79	84	68	74	102	91	567	308	182	131	116
3	77	79	82	66	74	110	89	483	427	174	129	112
4	77	79	79	66	72	116	89	461	396	172	129	112
5	74	79	79	68	71	114	97	452	354	166	127	112
6	77	79	77	68	71	118	106	455	332	164	127	112
7	77	79	77	68	71	110	100	438	312	166	125	118
8	77	79	77	70	71	106	95	421	295	166	125	116
9	77	79	77	70	70	104	102	499	284	164	125	114
10	77	77	76	74	71	104	114	477	273	162	125	116
11	77	77	74	70	70	106	106	419	265	159	125	127
12	77	77	66	111	71	106	116	407	256	156	120	120
13	77	77	71	221	71	99	125	365	251	154	123	114
14	77	77	74	267	71	102	140	332	246	152	123	112
15	77	77	74	152	76	108	166	332	243	152	127	110
16	77	76	74	118	82	102	192	351	229	149	127	110
17	77	76	72	108	86	97	210	363	224	147	123	110
18	77	77	72	97	172	99	246	326	218	147	118	110
19	110	77	72	88	202	97	295	312	213	145	120	110
20	104	77	72	82	162	97	351	312	205	142	123	110
21	88	76	72	84	127	102	399	321	200	142	120	110
22	82	74	72	79	114	99	413	323	197	140	120	110
23	79	74	71	79	106	99	475	326	192	140	120	108
24	79	74	70	81	100	97	511	329	189	138	120	108
25	77	76	71	79	97	95	492	312	184	138	120	106
26	79	77	70	79	97	93	553	301	179	138	120	106
27	79	76	68	79	104	91	545	273	179	138	120	106
28	79	62	68	78	114	89	533	254	176	138	118	106
29	79	53	70	77	114	89	531	254	176	136	118	106
30	79	44	70	77	---	93	603	243	174	136	118	104
31	79	---	68	76	---	91	---	237	---	138	118	---
TOTAL	2476	2242	2252	2868	2756	3137	7976	11557	7417	4717	3817	3349
MEAN	79.9	74.7	72.6	92.5	95.0	101	266	373	247	152	123	112
MAX	110	79	84	267	202	118	603	612	427	182	133	127
MIN	74	44	53	66	70	89	89	237	174	136	118	104
AC-FT	4910	4450	4470	5690	5470	6220	15820	22920	14710	9360	7570	6640

CAL YR 1979 TOTAL 39271 MEAN 108 MAX 391 MIN 44 AC-FT 77890
WTR YR 1980 TOTAL 54564 MEAN 149 MAX 612 MIN 44 AC-FT 108200

10115200 LOGAN RIVER BELOW BLACKSMITH FORK, NEAR LOGAN, UTAH

LOCATION.--Lat 41°43'15", long 111°53'08", in NE1/4SW1/4 sec.6, T.11 N., R.1 E., Cache County, Hydrologic Unit 16010203, on left bank 20 ft (6 m) below County Highway bridge, 2.7 mi (4.3 km) west of Logan, and 3.5 mi (5.6 km) downstream from mouth of Blacksmith Fork.

DRAINAGE AREA.--531 mi^2 (1,375 km^2).

PERIOD OF RECORD.--April 1964 to September 30, 1980 (discontinued).

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,420.99 ft (1,357.518 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to August 16, 1973, at datum 0.86 ft (0.262 m) higher.

REMARKS.--Records good. Diversions for irrigation of several thousand acres above and below station.

AVERAGE DISCHARGE.--16 years, 303 ft^3/s (8.58 m^3/s), 219,500 acre-ft/yr (271 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,980 ft^3/s (56.1 m^3/s) May 16, 1971, gage height, 4.84 ft (1.475 m); minimum, 1.6 ft^3/s (0.045 m^3/s) July 10, 11, 12, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,400 ft^3/s (39.6 m^3/s) May 2, 1980, gage height, 5.10 ft (1.554 m); minimum, 23 ft^3/s (0.651 m^3/s) Aug. 14, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	181	155	189	183	241	228	1320	771	384	73	63
2	57	177	174	190	199	238	226	1350	902	406	64	68
3	54	177	213	190	199	250	223	1250	1170	348	61	47
4	52	180	210	187	199	267	220	1190	1140	333	58	47
5	58	180	208	186	198	253	221	1200	1070	325	60	51
6	60	180	208	189	196	252	233	1160	1030	303	46	48
7	60	181	209	188	225	246	249	1170	989	268	40	53
8	60	181	211	189	195	240	233	1130	963	252	34	69
9	65	179	207	195	169	236	217	1220	960	239	28	79
10	60	180	209	221	199	232	220	1220	1010	221	25	89
11	57	180	204	196	189	235	232	1100	1020	213	25	131
12	60	179	198	274	187	235	231	1010	1010	199	26	180
13	63	179	187	363	191	230	239	957	997	190	25	187
14	66	177	191	459	198	227	262	900	955	172	24	185
15	69	183	198	346	207	232	291	803	911	143	24	192
16	72	175	199	280	218	232	322	843	834	135	36	191
17	77	173	215	269	237	230	361	863	773	125	41	195
18	79	181	181	255	310	225	410	789	708	118	34	195
19	126	188	196	242	366	225	497	772	671	115	35	194
20	209	209	195	228	328	223	619	806	639	115	39	186
21	198	212	197	216	300	229	751	878	605	118	48	185
22	187	201	200	209	280	230	796	956	573	95	40	195
23	181	201	197	206	276	228	889	1030	529	101	40	211
24	179	204	196	211	262	228	1020	1090	503	96	43	194
25	184	204	197	211	250	230	967	1000	471	86	50	188
26	178	206	198	210	243	227	1030	955	421	78	66	185
27	178	206	195	208	237	226	1050	827	390	73	74	183
28	177	200	188	208	242	225	1050	778	369	77	68	185
29	178	184	188	208	250	221	1110	788	348	82	55	185
30	178	170	189	206	---	226	1190	757	369	74	52	188
31	174	---	188	204	---	227	---	755	---	78	59	---
TOTAL	3450	5608	6101	7133	6733	7246	15587	30867	23101	5562	1393	4349
MEAN	111	187	197	230	232	234	520	996	770	179	44.9	145
MAX	209	212	215	459	366	267	1190	1350	1170	406	74	211
MIN	52	170	155	186	169	221	217	755	348	73	24	47
AC-FT	6840	11120	12100	14150	13350	14370	30920	61220	45820	11030	2760	8630

CAL YR 1979 TOTAL 74872.8 MEAN 205 MAX 781 MIN 8.1 AC-FT 148500
WTR YR 1980 TOTAL 117130.0 MEAN 320 MAX 1350 MIN 24 AC-FT 232300

10117000 HAMMOND (EAST SIDE) CANAL NEAR COLLINSTON, UTAH

LOCATION.--Lat 41°49'51", long 112°03'24", in SE1/4 sec.27, T.13 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on right bank 3,600 ft (1,097 m) downstream from Cutler Dam and 4 mi (6 km) north of Collinston.

PERIOD OF RECORD.--June 1912 to September 30, 1980 (discontinued). Prior to 1915, published as Hammond Ditch near Collinston. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Prior to May 22, 1914, nonrecording gage at same site and datum.

REMARKS.--Records good. Canal diverts from east side of Bear River at Cutler Dam for irrigation of about 58,000 acres (235 km^2) below station in eastern Box Elder County.

COOPERATION.--Gage-height record and 4 discharge measurements furnished by Utah Power & Light Co.

AVERAGE DISCHARGE.--68 years, 51.3 ft^3/s (1.45 m^3/s), 37,170 acre-ft/yr (45.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 184 ft^3/s (5.21 m^3/s) June 29, 1963, May 2, 1977; no flow at times in each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	49	.00	.00	.00	.00	.00	.00	67	161	139	117
2	93	42	.00	.00	.00	.00	.00	.00	68	151	140	117
3	87	42	.00	.00	.00	.00	.00	.00	92	144	140	117
4	84	42	.00	.00	.00	.00	.00	.00	93	142	139	118
5	82	42	.00	.00	.00	.00	.00	.00	91	149	140	119
6	81	42	.00	.00	.00	.00	.00	.00	90	150	141	118
7	82	40	.00	.00	.00	.00	.00	1.5	88	148	141	118
8	81	41	.00	.00	.00	.00	.00	3.2	87	148	141	120
9	82	22	.00	.00	.00	.00	.00	3.3	37	150	141	115
10	81	.00	.00	.00	.00	.00	.00	3.3	8.0	149	142	112
11	82	.00	.00	.00	.00	.00	.00	3.3	89	153	142	109
12	82	.00	.00	.00	.00	.00	.00	3.4	106	148	143	101
13	82	.00	.00	.00	.00	.00	.00	3.4	124	150	143	95
14	82	.00	.00	.00	.00	.00	.00	3.4	126	148	141	96
15	82	.00	.00	.00	.00	.00	.00	3.3	130	149	138	94
16	82	.00	.00	.00	.00	.00	.00	3.4	130	151	122	90
17	82	.00	.00	.00	.00	.00	.00	3.3	130	145	118	89
18	76	.00	.00	.00	.00	.00	.00	3.3	143	144	119	89
19	63	.00	.00	.00	.00	.00	.00	3.2	154	141	119	84
20	54	.00	.00	.00	.00	.00	.00	65	154	143	120	78
21	54	.00	.00	.00	.00	.00	.00	80	154	143	119	79
22	52	.00	.00	.00	.00	.00	.00	79	152	140	118	78
23	52	.00	.00	.00	.00	.00	.00	86	151	140	119	77
24	52	.00	.00	.00	.00	.00	.00	86	148	140	122	69
25	50	.00	.00	.00	.00	.00	.00	73	148	138	121	64
26	48	.00	.00	.00	.00	.00	.00	71	151	140	121	64
27	48	.00	.00	.00	.00	.00	.00	70	161	140	122	76
28	50	.00	.00	.00	.00	.00	.00	68	165	140	122	84
29	49	.00	.00	.00	.00	.00	.00	67	162	147	117	85
30	52	.00	.00	.00	---	.00	.00	67	161	145	117	85
31	53	---	.00	.00	---	.00	---	67	---	142	116	---
TOTAL	2178	362.00	.00	.00	.00	.00	.00	920.30	3560.0	4519	4023	2857
MEAN	70.3	12.1	.000	.000	.000	.000	.000	29.7	119	146	130	95.2
MAX	98	49	.00	.00	.00	.00	.00	86	165	161	143	120
MIN	48	.00	.00	.00	.00	.00	.00	.00	8.0	138	116	64
AC-FT	4320	718	.00	.00	.00	.00	.00	1830	7060	8960	7980	5670

CAL YR 1979 TOTAL 21750.34 MEAN 59.6 MAX 171 MIN .00 AC-FT 43140
WTR YR 1980 TOTAL 18419.30 MEAN 50.3 MAX 165 MIN .00 AC-FT 36530

10117500 WEST SIDE CANAL NEAR COLLINSTON, UTAH

LOCATION.--Lat 41°49'55", long 112°03'36", in SW1/4 sec.27, T.13 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on left bank 4,200 ft (1,280 m) downstream from Cutler Dam and 4 mi (6.4 km) north of Collinston.

PERIOD OF RECORD.--June 1912 to September 1980 (discontinued). Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Prior to May 22, 1914, nonrecording gage at same site and datum.

REMARKS.--Records good. Canal diverts from west side of Bear River at Cutler Dam for irrigation of about 58,000 acres (235 km^2) below station in eastern Box Elder County.

COOPERATION.--Gage-height record and 6 discharge measurements furnished by Utah Power & Light Co.

AVERAGE DISCHARGE.--68 years, 247 ft^3/s (7.00 m^3/s), 179,000 acre-ft/yr (221 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 765 ft^3/s (21.7 m^3/s) July 19-24, 26-28, 1975, June 22, July 1, 1977; no flow for periods in every year except 1914.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	514	43	11	9.0	15	.00	.00	11	386	730	692	645
2	522	47	11	9.0	14	.00	.00	63	360	626	698	652
3	532	51	9.6	9.0	14	.00	.00	92	192	636	692	678
4	526	50	9.0	9.0	13	.00	.00	92	193	658	700	678
5	526	48	8.4	9.0	12	.00	.00	130	248	715	698	672
6	526	66	7.5	11	11	.00	.00	363	292	710	695	672
7	530	95	6.9	11	11	.00	.00	452	278	712	695	665
8	513	80	6.3	9.0	10	.00	.00	400	278	705	705	654
9	498	81	6.3	8.7	9.9	.00	.00	330	312	710	718	628
10	496	81	6.5	9.0	9.9	.00	.00	335	378	708	720	608
11	496	80	8.0	9.5	9.9	.00	.00	335	434	718	710	563
12	498	80	8.0	9.5	9.9	.00	.00	340	494	720	718	530
13	496	79	8.0	9.3	9.9	.00	.00	340	532	722	722	514
14	494	79	8.1	13	9.6	.00	.00	338	554	718	710	524
15	486	78	8.1	6.0	9.8	.00	.00	336	574	715	704	524
16	470	76	8.1	6.0	10	.00	.00	320	578	720	616	530
17	478	76	7.8	6.3	10	.00	.00	294	643	718	626	522
18	450	77	7.8	6.0	16	.00	.00	298	670	715	626	524
19	349	78	7.8	17	6.3	.00	.00	299	702	712	622	504
20	296	78	7.2	17	4.2	.00	.00	380	700	689	620	498
21	296	51	7.2	6.3	.00	.00	.00	386	708	678	624	510
22	278	26	6.9	6.3	.00	.00	.00	386	710	665	620	512
23	263	25	7.0	8.1	.00	.00	.00	386	705	692	616	514
24	262	25	7.0	6.6	.00	.00	.00	384	700	745	626	508
25	248	25	7.0	6.0	.00	.00	3.6	386	705	710	630	510
26	240	25	7.5	7.6	.00	.00	11	388	708	710	652	492
27	242	18	8.0	14	.00	.00	17	390	730	690	648	476
28	251	12	8.0	9.9	.00	.00	9.6	386	755	678	652	474
29	252	11	8.5	11	.00	.00	9.9	384	762	692	672	484
30	258	9.9	9.0	13	---	.00	11	384	742	692	680	468
31	169	---	9.0	14	---	.00	---	384	---	700	662	---
TOTAL	12455	1650.9	246.5	296.1	215.40	.00	62.10	9794	16023	21709	20769	16733
MEAN	402	55.0	7.95	9.55	7.43	.000	2.07	316	534	700	670	558
MAX	532	95	11	17	16	.00	17	452	762	745	722	678
MIN	169	9.9	6.3	6.0	.00	.00	.00	11	192	626	616	468
AC-FT	24700	3270	489	587	427	.00	123	19430	31780	43060	41200	33190

CAL YR 1979 TOTAL 115216.55 MEAN 316 MAX 750 MIN .00 AC-FT 228500
WTR YR 1980 TOTAL 99954.00 MEAN 273 MAX 762 MIN .00 AC-FT 198300

10118000 BEAR RIVER NEAR COLLINSTON, UTAH

LOCATION.--Lat 41°50'03", long 112°03'16", in NW1/4SE1/4 sec.27, T.13 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on right bank 800 ft (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 current year. Published as "at Collinston" prior to 1900. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,276.13 ft (1,303.364 m) National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service). 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.--Seven 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 August 5, 1920.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,340 ft^3/s (236 m^3/s) June 6, gage height, 7.24 ft (2.207 m); minimum daily, 12 ft^3/s (0.34 m^3/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	479	852	25	985	1360	1240	4870	3720	1110	766	1060
2	735	2040	688	1520	1330	1610	1300	4760	3830	1140	45	1150
3	732	881	533	1240	1660	1880	1610	4560	5320	933	403	1770
4	724	1410	759	627	1150	1900	1750	4730	6380	1340	275	1240
5	16	1040	164	526	1060	1590	1420	4930	7330	683	154	926
6	16	1510	714	768	1140	2780	1820	4570	8020	1160	528	1810
7	16	662	360	1170	806	1690	1280	4250	7660	1460	314	1770
8	718	730	1430	1060	1400	2330	1430	4240	6890	1430	292	1620
9	16	398	1070	1340	1130	1990	1500	4350	6490	1000	111	1250
10	16	737	566	1070	1140	2700	1780	4480	6210	1210	569	1120
11	17	1100	1070	1180	678	749	1610	4530	6070	704	678	1120
12	17	1220	940	2180	751	1660	1870	4770	5860	225	260	1720
13	17	1120	380	3040	796	1440	1520	5000	5650	87	357	1110
14	17	824	640	3990	1810	1910	1990	5160	5340	996	387	1490
15	17	971	830	4890	713	989	1220	5140	5070	616	211	998
16	17	1360	492	5490	1130	1090	1810	4890	4740	795	1420	1490
17	17	704	728	5190	2560	1180	2110	4750	4040	401	921	2340
18	17	835	661	3980	3820	1000	2660	4590	3950	971	628	2540
19	922	774	1190	3210	3810	1390	2320	4260	3870	237	1580	2520
20	877	959	181	2480	3840	1440	2850	4110	3610	500	1170	2240
21	1560	851	1230	2730	3810	2890	3190	4110	3430	321	1860	1490
22	2370	916	1510	1570	3850	1320	3590	4000	3190	1810	898	829
23	726	591	653	2240	3830	1480	3800	3900	3430	664	1300	2520
24	1700	738	1080	201	3380	1570	3890	3930	3630	430	636	2290
25	2710	541	249	1900	2250	1420	3950	3910	2910	714	906	2090
26	1590	682	938	1290	2620	609	3960	4000	2320	597	905	1700
27	671	420	678	1010	1870	1990	3940	4370	2090	488	1960	1270
28	19	739	981	1590	1680	1850	3960	4470	1480	719	328	1800
29	19	563	620	449	1240	1270	4520	4210	272	43	1140	1520
30	20	617	284	892	---	1410	4880	3850	1030	533	840	1340
31	20	---	601	474	---	1570	---	3680	---	292	1240	---
TOTAL	16341	26412	23072	59322	56239	50057	74770	137370	133832	23609	23082	48133
MEAN	527	880	744	1914	1939	1615	2492	4431	4461	762	745	1604
MAX	2710	2040	1510	5490	3850	2890	4880	5160	8020	1810	1960	2540
MIN	12	398	164	25	678	609	1220	3680	272	43	45	829
AC-FT	32410	52390	45760	117700	111600	99290	148300	272500	265500	46830	45780	95470

CAL YR 1979 TOTAL 316959 MEAN 868 MAX 3360 MIN 12 AC-FT 628700
WTR YR 1980 TOTAL 672239 MEAN 1837 MAX 8020 MIN 12 AC-FT 1333000

10125600 MALAD RIVER NEAR PLYMOUTH, UTAH

LOCATION.--Lat 41°50'19", long 112°08'49", in NE1/4 sec.26, T.13 N., R.3 W., Box Elder County, Hydrologic Unit 16010204, on left bank 66 ft (20 m) above bridge on U.S. Highway 191, and 2.7 mi (4.3 km) south of Plymouth.

DRAINAGE AREA.--623 mi^2 (1,614 km^2).

PERIOD OF RECORD.--April 1964 to September 30, 1980 (discontinued).

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,310 ft (1,314 m) from topographic map.

REMARKS.--Records good. Flow regulated by several small reservoirs above station. Diversions above station for irrigation of about 30,000 acres (121 km^2).

AVERAGE DISCHARGE.--16 years, 82.2 ft^3/s (2.33 m^3/s), 59,550 acre-ft/yr (73.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,060 ft^3/s (58.3 m^3/s) Jan. 14, 1980, gage height, 10.50 ft (3.200 m); minimum daily, 8.8 ft^3/s (0.25 m^3/s) September 1, 1967.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 3,240 ft^3/s (91.8 m^3/s) Feb. 1962 on basis of contracted-opening measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,060 ft^3/s (58.3 m^3/s) Jan. 14, gage height, 10.50 ft (3.200 m); minimum, 29 ft^3/s (0.821 m^3/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	62	68	70	95	260	116	105	218	53	35	32
2	33	62	64	70	91	250	122	109	267	55	35	32
3	36	63	66	72	91	245	123	110	309	50	35	32
4	36	64	66	74	93	244	119	104	258	49	34	34
5	37	64	75	78	94	246	113	104	252	49	33	34
6	35	66	78	88	98	258	111	104	258	47	32	34
7	38	68	76	84	102	276	110	100	267	44	34	35
8	41	70	77	82	102	271	108	103	254	43	35	37
9	40	70	81	86	103	253	104	135	240	42	35	38
10	38	72	88	266	103	222	100	164	230	42	36	39
11	38	69	90	168	99	198	98	204	220	42	37	41
12	39	68	82	273	96	187	97	236	207	41	38	42
13	41	69	71	741	95	178	95	257	185	41	38	42
14	44	68	70	1730	121	167	94	302	160	39	38	42
15	45	69	68	1840	270	156	97	321	143	39	38	43
16	45	70	66	1420	257	148	100	333	136	38	40	43
17	45	72	62	830	290	139	99	304	135	37	41	42
18	48	74	64	591	426	133	100	286	133	38	42	42
19	58	76	68	385	726	131	102	311	125	39	43	44
20	74	76	69	324	1230	128	105	351	116	39	45	45
21	85	65	69	292	1150	124	107	320	104	37	45	45
22	85	59	71	214	1060	124	107	285	90	37	44	46
23	74	68	72	156	739	129	107	256	78	36	44	44
24	67	67	73	138	567	129	109	230	70	36	41	45
25	63	65	73	128	420	122	114	208	65	36	38	45
26	65	68	75	122	353	120	125	210	60	36	36	45
27	64	71	77	118	318	122	125	219	57	36	33	44
28	61	68	75	93	292	121	118	227	56	35	32	43
29	62	46	71	98	276	122	111	239	57	35	32	46
30	61	66	70	99	---	119	106	226	53	36	31	44
31	61	---	72	91	---	115	---	216	---	35	31	---
TOTAL	1590	2015	2247	10821	9757	5437	3242	6679	4803	1262	1151	1220
MEAN	51.3	67.2	72.5	349	336	175	108	215	160	40.7	37.1	40.7
MAX	85	76	90	1840	1230	276	125	351	309	55	45	46
MIN	31	46	62	70	91	115	94	100	53	35	31	32
AC-FT	3150	4000	4460	21460	19350	10780	6430	13250	9530	2500	2280	2420

CAL YR 1979 TOTAL 29961 MEAN 82.1 MAX 570 MIN 24 AC-FT 59430
WTR YR 1980 TOTAL 50224 MEAN 137 MAX 1840 MIN 31 AC-FT 99620

10126000 BEAR RIVER NEAR CORINNE, UTAH

LOCATION.--Lat 41°34'35", long 112°06'00", in SE1/4NE1/4 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-1974: 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 and period of no gage-height record, Dec. 14 to Jan., 16, which are fair. Natural flow of stream affected by upstream reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--25 years, 1,731 ft^3/s (49.0 m^3/s), 1,254,000 acre-ft/yr (1.55 hm^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, 7,880 ft^3/s (223 m^3/s) June 8, gage height, 15.87 ft (4.837 m); minimum, 151 ft^3/s (4.28 m^3/s) Nov. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166	180	700	700	800	1490	1630	4740	4100	1190	481	1200
2	160	660	900	250	1200	1710	1420	4800	4130	1350	780	1290
3	529	1720	750	1500	1400	1570	1480	4710	4600	1330	478	1580
4	804	1120	650	1300	1700	2110	1620	4580	5530	1200	395	1290
5	842	1390	800	700	1300	2150	1780	4700	6230	1360	511	1260
6	420	1120	657	650	1200	2430	1770	4880	6860	948	368	1490
7	261	1620	748	850	1300	2590	1840	4660	7460	1280	559	1670
8	242	988	668	1200	1000	2300	1530	4420	7850	1570	502	1590
9	598	804	1250	1400	1400	2380	1450	4400	7660	1590	428	1440
10	405	720	1360	1700	1200	2740	1600	4530	7320	1260	325	1400
11	258	762	750	1600	1200	2620	1930	4640	6960	1340	514	1280
12	233	1070	1200	1800	800	1340	1540	4760	6670	1060	769	1780
13	229	1410	1100	3200	850	1880	1740	4960	6390	646	460	1510
14	224	1360	600	5500	900	1580	1670	5190	6080	382	481	1550
15	233	968	800	6500	1900	1860	1940	5360	5740	964	532	1150
16	247	1220	950	6500	1000	1370	1480	5450	5360	853	598	1520
17	247	1420	700	6870	1370	1220	1770	5370	4920	916	1230	2280
18	254	944	850	6290	3110	1140	2380	5180	4350	864	1140	2520
19	280	1060	850	5050	3950	1360	2560	4940	4130	996	822	2710
20	988	968	1200	3650	4190	1330	2490	4640	4000	514	1420	2350
21	1170	1010	400	3240	4660	1960	2850	4520	3800	580	1320	1670
22	1730	1100	1300	2810	4800	2480	3190	4500	3620	678	1720	1240
23	2200	1000	1500	2270	4780	1700	3580	4380	3400	1600	1120	2270
24	1140	853	800	2020	4600	1650	3760	4290	3650	904	1270	2350
25	1940	850	1100	688	3940	1660	3850	4330	3650	720	832	1860
26	2580	626	450	1700	2920	1580	3890	4270	3050	832	1120	1620
27	1840	744	1000	1300	2940	972	3920	4330	2560	783	956	1480
28	980	500	700	1200	1980	1990	3920	4580	2300	671	1680	1850
29	310	800	1100	1700	2280	1880	3970	4730	1580	818	769	1590
30	213	650	700	800	---	1570	4430	4550	678	348	1130	1330
31	205	---	500	950	---	1510	---	4240	---	523	1040	---
TOTAL	21928	29637	27033	75888	64670	56122	72980	145630	144628	30070	25750	50120
MEAN	707	988	872	2448	2230	1810	2433	4698	4821	970	831	1671
MAX	2580	1720	1500	6870	4800	2740	4430	5450	7850	1600	1720	2710
MIN	160	180	400	250	800	972	1420	4240	678	348	325	1150
AC-FT	43490	58780	53620	150500	128300	111300	144800	288900	286900	59640	51080	99410

CAL YR 1979 TOTAL 385078 MEAN 1055 MAX 3900 MIN 108 AC-FT 763800
WTR YR 1980 TOTAL 744456 MEAN 2034 MAX 7850 MIN 160 AC-FT 1477000

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, 3,510 micromhos, Oct. 1, 2; minimum daily, 520 micromhos, June 21.
WATER TEMPERATURES: Maximum, 25.0°C several days during July; minimum, 0.0°C many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (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)
NOV											
02...	1100	295	3300	8.5	4.0	5.5	17	10.1	2.3	420	96
DEC											
05...	1300	*800	1270	8.4	4.0	.5	5.4	11.7	1.4	20	220
JAN											
03...	1230	*1500	1000	8.2	.5	.0	22	12.2	1.5	K9	K4
17...	1350	6870	560	--	--	1.0	--	--	--	--	--
30...	1030	*800	1560	7.9	-11.5	.5	9.4	12.9	1.6	23	--
FEB											
13...	1530	*850	1330	8.4	6.5	.5	20	10.4	2.0	K2	160
MAR											
11...	1240	2610	1080	8.1	10.0	7.0	72	8.6	2.2	210	290
APR											
16...	1055	1590	1230	8.1	21.0	12.0	70	8.0	1.3	K10	52
MAY											
28...	1030	4590	660	8.2	19.0	14.0	64	8.4	.62	72	120
JUN											
25...	1050	3720	750	8.3	31.0	20.0	110	7.1	.55	850	210
JUL											
08...	1012	1920	1050	8.4	25.5	21.0	160	5.9	.78	1260	260
AUG											
21...	1214	1500	1090	8.3	23.5	19.5	100	5.6	1.0	220	320
SEP											
25...	1100	1870	1040	8.1	20.0	15.0	64	8.4	.81	300	370

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
NOV											
02...	510	150	110	57	570	79	11	610	38	420	10
DEC											
05...	340	28	72	39	160	64	3.8	180	16	340	20
JAN											
03...	300	21	65	33	94	54	2.4	100	9.7	340	0
17...	--	--	--	--	--	--	--	--	--	--	--
30...	370	75	82	40	230	56	5.2	250	18	360	0
FEB											
13...	340	28	77	37	170	50	4.0	190	15	370	5
MAR											
11...	350	70	74	40	110	40	2.6	120	13	370	0
APR											
16...	300	29	66	33	130	47	3.3	--	12	330	0
MAY											
28...	210	0	53	20	51	33	1.5	--	6.0	260	0
JUN											
25...	230	0	55	22	58	35	1.7	--	6.2	280	0
JUL											
08...	270	0	62	28	110	46	2.9	--	10	330	8
AUG											
21...	330	38	62	42	110	41	2.6	--	11	--	--
SEP											
25...	300	31	53	41	92	39	2.3	--	10	--	--

* Daily mean values
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 1979 TO SEPTEMBER 1980

DATE	ALKALINITY (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)
NOV										
02...	361	2.2	140	880	.4	20	1930	2040	2.62	1540
DEC										
05...	312	2.4	81	240	.3	13	754	813	1.03	1630
JAN										
03...	279	3.4	49	140	.3	12	562	574	.76	2280
17...	--	--	--	--	--	--	--	--	--	--
30...	295	7.3	75	330	.4	19	949	977	1.29	2050
FEB										
13...	312	2.4	66	250	.3	17	799	825	1.09	1830
MAR										
11...	280	4.7	68	160	.3	17	630	656	.86	4440
APR										
16...	271	4.2	50	200	.3	15	654	672	.89	2810
MAY										
28...	213	2.6	26	70	.2	11	374	367	.51	4640
JUN										
25...	230	2.2	29	92	.2	5.2	416	406	.57	4180
JUL										
08...	284	2.2	40	170	.4	6.7	571	598	.78	2960
AUG										
21...	290	--	66	160	.3	17	629	645	.86	2550
SEP										
25...	270	--	60	150	.3	13	655	583	.89	3310

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA 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)
NOV								
02...	1.2	1.2	.360	.340	.44	.44	.74	.76
DEC								
05...	.81	.79	.100	.160	.12	.21	.54	.40
JAN								
03...	.70	.73	.110	.070	.13	.09	1.1	.69
30...	1.3	1.2	.290	.290	.35	.37	.91	.12
FEB								
13...	1.1	1.1	.200	.190	.24	.24	.61	.66
MAR								
11...	1.2	1.2	.300	.290	.36	.37	.80	.71
APR								
16...	.68	.69	.000	.000	.00	.00	1.4	.64
MAY								
28...	.25	.24	.070	.060	.08	.08	.62	.32
JUN								
25...	.01	.03	.050	.100	.06	.13	1.2	.42
JUL								
08...	.07	.09	.000	.000	.00	.00	1.7	.69
AUG								
21...	.48	.41	.160	.060	.19	.08	1.1	.53
SEP								
25...	.36	.37	.030	.000	.04	.00	1.1	.44

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)
NOV								
02...	1.1	.00	1.1	2.3	10	.150	.46	.090
DEC								
05...	.64	.08	.56	1.5	6.4	.090	.28	.070
JAN								
03...	1.2	.44	.76	1.9	8.4	.130	.40	.050
30...	1.2	.79	.41	2.5	11	.150	.46	.120
FEB								
13...	.81	.00	.85	1.9	8.5	.140	.43	.070
MAR								
11...	1.1	.10	1.0	2.3	10	.310	.95	.100
APR								
16...	1.4	.76	.64	2.1	9.2	.270	.83	.060
MAY								
28...	.69	.31	.38	.94	4.2	.230	.71	.050
JUN								
25...	1.2	.68	.52	1.2	5.4	.280	.86	.040
JUL								
08...	1.7	1.0	.69	1.8	7.8	.410	1.3	.040
AUG								
21...	1.3	.71	.59	1.8	7.9	.310	.95	.040
SEP								
25...	1.1	.66	.44	1.5	6.5	.230	.71	.040

10126000 BEAR RIVER NEAR CORINNE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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											
02...	1100	13	8	5	300	100	200	0	0	0	0
DEC											
05...	1300	4	0	4	300	200	100	0	0	<1	10
FEB											
13...	1530	4	0	4	400	300	100	2	1	<1	0
MAY											
28...	1030	3	0	3	100	30	70	0	--	<1	0
AUG											
21...	1214	6	2	4	300	200	100	0	--	<1	10

DATE	CHRO-MIUM, SUS-PENDED RECOV. (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										
02...	0	0	0	0	0	0	0	420	400	20
DEC										
05...	10	1	0	<3	0	0	1	270	260	<10
FEB										
13...	0	0	0	<3	3	3	0	780	760	20
MAY										
28...	0	2	--	<3	1	0	4	2400	2400	20
AUG										
21...	10	2	--	<3	20	14	6	1000	650	350

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)
NOV										
02...	4	4	0	50	40	10	.0	.0	.0	2
DEC										
05...	0	0	6	20	20	4	.0	.0	.0	7
FEB										
13...	9	9	0	40	30	10	.0	.0	.0	1
MAY										
28...	11	11	0	110	110	3	.1	.1	.0	5
AUG										
21...	23	22	1	50	10	40	.2	.2	.0	13

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)	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										
02...	2	0	0	0	0	0	0	120	100	20
DEC										
05...	7	0	0	0	1	0	0	30	20	6
FEB										
13...	0	2	2	1	1	0	0	50	40	10
MAY										
28...	1	4	0	0	0	0	0	40	40	4
AUG										
21...	9	4	0	0	0	0	0	110	100	9

10126000 BEAR RIVER NEAR CORINNE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	MALA-THION, TOTAL (UG/L)	MALA-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)	METHYL PARA-THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI-THION, TOTAL (UG/L)
DEC											
05...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB											
13...	--	ND	--	ND	--	--	--	ND	--	--	--

DATE	METHYL TRI-THION, TOT. IN BOTTOM MATL. (UG/KG)	PARA-THION, TOTAL (UG/L)	PARA-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TOX-APHENE, TOTAL (UG/L)	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	TRI-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
DEC										
05...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB										
13...	--	--	--	ND	--	--	--	--	--	--

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)
JUN						
25...	1050	7.17	6.14	2.48	.330	415
AUG						
21...	1500	3.86	3.70	.500	.000	320

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEC 5,79	MAR 11,80	MAY 28,80	JUN 25,80
TIME	1300	1240	1030	1050
TOTAL CELLS/ML	2900	2000	2200	9300
DIVERSITY: DIVISION	1.5	1.7	1.9	0.7
.CLASS	1.5	1.7	1.9	0.7
..ORDER	0.0	0.0	2.7	0.9
...FAMILY	0.0	0.0	3.3	1.1
....GENUS	0.0	0.0	3.8	1.2

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	13	1	81	1
...COELASTRACEAE								
....COELASTRUM	--	-	--	-	--	-	--	-
...MICRACTINIACEAE								
....GOLENKINIA	--	-	--	-	26	1	--	-
....MICRACTINIUM	--	-	26	1	51	2	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	13	1	51	2	81	1
....CHLORELLA	*	0	--	-	13	1	--	-
....CHODATELLA	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	320	3
....OOCYSTIS	57	2	--	-	--	-	81	1
....SELENASTRUM	--	-	--	-	13	1	160	2
....TREUBARIA	--	-	--	-	13	1	--	-
....WESTELLA	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	210	9	--	-
....CRUCIGENIA	--	-	--	-	51	2	--	-
....SCENEDESMUS	200	7	39	2	51	2	490	5
....TETRASTRUM	57	2	--	-	51	2	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	110	4	500#	25	180	8	--	-
....PLATYMONAS	--	-	13	1	--	-	--	-
...PHACOTACEAE								
....PHACOTUS	--	-	--	-	--	-	--	-
..ZYGNEMATALES								
...DESMIDIACEAE								
....STAURASTRUM	--	-	--	-	--	-	--	-

ND Material specifically analyzed for but not detected.
See footnotes at end of table.

10126000 BEAR RIVER NEAR CORINNE, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	DEC 5,79 1300		MAR 11,80 1240		MAY 28,80 1030		JUN 25,80 1050	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	1000#	35	300	15	350#	16	7600#	82
....MELOSIRA	--	-	140	7	--	-	--	-
....STEPHANODISCUS	--	-	--	-	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....COCCONEIS	28	1	--	-	--	-	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	--	-	51	2	--	-
....FRAGILARIA	--	-	140	7	210	9	--	-
....SYNEDRA	*	0	13	1	--	-	--	-
...NAVICULACEAE								
....ENTOMONEIS	--	-	--	-	13	1	--	-
....NAVICULA	85	3	130	6	26	1	81	1
....PLEUROSIGMA	*	0	--	-	--	-	--	-
...NITZSCHIACEAE								
....NITZSCHIA	71	2	120	6	64	3	160	2
...SURIRELLACEAE								
....SURIRELLA	28	1	120	6	13	1	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE	*	0	64	3	--	-	--	-
..CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	13	1	81	1
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	51	2	160	2
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....AGMENELLUM	--	-	--	-	--	-	--	-
....ANACYSTIS	1200#	42	--	-	210	9	--	-
....GOMPHOSPHAERIA	--	-	--	-	--	-	--	-
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	360#	18	--	-	--	-
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	--	-	460#	21	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	13	1	13	1	--	-
....LEPOCINCLIS	--	-	--	-	--	-	--	-
....PHACUS	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	26	1	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..GYMNODINIALES								
...GYMNODINIACEAE								
....GYMNODINIUM	--	-	13	1	--	-	--	-
..PERIDINIALES								
...GLENODINIACEAE								
....GLENODINIUM	--	-	--	-	13	1	--	-

10126000 BEAR RIVER NEAR CORINNE, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	JUL 8,80	AUG 21,80	SEP 25,80
TIME	1012	1214	1100
TOTAL CELLS/ML	15000	32000	20000
DIVERSITY: DIVISION	1.1	1.5	1.4
.CLASS	1.1	1.5	1.4
..ORDER	1.5	2.1	1.9
...FAMILY	1.9	2.7	2.2
....GENUS	2.0	3.8	2.6

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...CHARACIACEAE						
....SCHROEDERIA	--	-	--	-	--	-
...COELASTRACEAE						
....COELASTRUM	--	-	--	-	510	3
...MICRACTINIACEAE						
....GOLENKINIA	--	-	--	-	--	-
....MICRACTINIUM	2200	15	530	2	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	340	2	530	2	250	1
....CHLORELLA	--	-	--	-	--	-
....CHODATELLA	--	-	*	0	--	-
....DICTYOSPHAERIUM	--	-	4300	14	--	-
....KIRCHNERIELLA	--	-	530	2	--	-
....OOCYSTIS	340	2	3700	12	150	1
....SELENASTRUM	--	-	--	-	*	0
....TREUBARIA	--	-	--	-	*	0
....WESTELLA	--	-	--	-	200	1
...SCENEDESMACEAE						
....ACTINASTRUM	--	-	--	-	410	2
....CRUCIGENIA	--	-	530	2	410	2
....SCENEDESMUS	840	6	3300	11	2300	11
....TETRASTRUM	--	-	1100	3	250	1
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	420	3	930	3	510	3
....PLATYMONAS	--	-	--	-	--	-
...PHACOTACEAE						
....PHACOTUS	--	-	1500	5	--	-
..ZYGNEMATALES						
...DESMIDIACEAE						
....STAURASTRUM	--	-	*	0	--	-
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	9300#	63	3300	11	2200	11
....MELOSIRA	170	1	1700	5	510	3
....STEPHANODISCUS	--	-	270	1	--	-
..PENNALES						
...ACHNANTHACEAE						
....COCCONEIS	--	-	--	-	--	-
...FRAGILARIACEAE						
....ASTERIONELLA	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	--	-
...NAVICULACEAE						
....ENTOMONEIS	--	-	--	-	--	-
....NAVICULA	84	1	270	1	*	0
....PLEUROSIGMA	--	-	--	-	--	-
...NITZSCHIACEAE						
....NITZSCHIA	670	5	2100	7	300	2
...SURIRELLACEAE						
....SURIRELLA	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
.CRYPTOPHYCEAE	--	-	--	-	--	-
..CRYPTOMONADALES						
...CRYPTOCHRYSIDACEAE						
....CHROOMONAS	--	-	--	-	--	-
...CRYPTOMONADACEAE						
....CRYPTOMONAS	84	1	*	0	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10126000 BEAR RIVER NEAR CORINNE, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	JUL 8,80		AUG 21,80		SEP 25,80	
TIME	1012		1214		1100	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....AGMENELLUM	--	-	4300	14	--	-
....ANACYSTIS	84	1	--	-	11000#	53
....GOMPHOSPHAERIA	--	-	2100	7	--	-
..HORMOGONALES						
...NOSTOCACEAE						
....ANABAENA	--	-	--	-	--	-
...OSCILLATORIACEAE						
....OSCILLATORIA	--	-	--	-	1100	6
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....EUGLENA	250	2	--	-	*	0
....LEPOCINCLIS	--	-	*	0	--	-
....PHACUS	--	-	--	-	*	0
....TRACHELOMONAS	84	1	--	-	100	1
PYRRHOPHYTA (FIRE ALGAE)						
.DINOPHYCEAE						
..GYMNODINIALES						
...GYMNODINIACEAE						
....GYMNODINIUM	--	-	--	-	--	-
..PERIDINIALES						
...GLENODINIACEAE						
....GLENODINIUM	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3510	2950	1680	1590	790	1140	1180	570	590	610	1710	1140
2	3510	3140	1670	---	760	1140	1110	580	590	600	1700	1140
3	1600	3170	1520	1590	750	1140	1190	580	590	610	1710	1140
4	1610	1060	1540	---	970	1020	1160	570	600	610	1690	1140
5	1590	1060	1560	1450	710	1030	1210	580	580	610	2000	1140
6	2860	1060	1560	---	1400	1040	1190	560	670	610	1840	1140
7	2880	1050	1560	---	1410	1030	1230	570	680	610	1880	1120
8	2910	---	1560	1450	1390	1030	1190	560	620	600	2000	1120
9	2890	1540	1120	---	1390	1080	1200	570	630	1740	2020	1120
10	---	1480	1120	---	1330	1090	1220	580	640	1760	2020	1140
11	2110	1490	1120	---	1510	1070	1210	580	640	1750	2020	1130
12	2110	---	1700	750	1540	1060	1130	580	740	1750	2020	1140
13	2110	1300	1810	---	1170	1040	1100	580	750	1790	2010	1150
14	2970	1300	1810	---	1170	1020	950	620	710	1770	1140	1120
15	2810	1350	1810	1130	1170	1060	970	620	750	1320	1130	930
16	2800	1270	1810	---	1170	1380	910	620	750	1330	1120	930
17	2810	1300	---	560	1170	1370	930	620	550	1320	1120	1010
18	2740	1300	1340	---	670	1360	890	660	540	1370	1120	1010
19	2740	1530	1340	---	730	1360	880	710	540	1320	990	1020
20	2960	1520	1340	700	680	1360	870	720	540	1320	990	1020
21	1180	1530	1350	---	650	1110	880	710	520	1290	1000	1020
22	1330	1540	2280	---	650	1090	850	710	690	1510	990	1020
23	1360	1520	2270	---	700	1170	850	700	680	1170	990	---
24	1210	1530	2280	---	700	1120	850	710	700	630	1120	---
25	1370	1360	2270	1080	700	1170	680	730	570	2430	1110	1040
26	1060	1360	2280	---	1060	1160	680	710	570	2340	1110	---
27	1060	1360	2280	---	1070	1070	590	680	570	2440	1290	---
28	3050	1560	1430	1300	1060	1080	600	660	570	2410	1280	980
29	3050	1560	1430	---	1050	1060	580	630	640	2420	1260	980
30	3040	1680	1430	1560	---	1090	570	640	640	1010	1380	980
31	3050	---	1430	1210	---	1080	---	660	---	650	1150	---
MEAN	2340	1570	1660	---	1020	1130	962	631	628	1350	1450	1070

10126000 BEAR RIVER NEAR CORINNE, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

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

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
NOV						
02...	1100	295	5.5	53	76	42
DEC						
05...	1300	800	.5	61	43	132
JAN						
03...	1230	1500	.0	126	51	510
FEB						
13...	1530	850	.5	42	86	96
MAR						
11...	1240	2610	7.0	260	87	1830
APR						
16...	1055	1590	12.0	282	93	1210
JUN						
25...	1050	3720	20.0	373	83	3750
JUL						
08...	1012	1920	21.0	537	72	2780
AUG						
21...	1214	1500	19.5	288	96	1170
SEP						
25...	1100	1870	15.0	172	92	868

10126180 SULPHUR CREEK NEAR CORINNE, UT

LOCATION.--Lat 41°34'25", long 112°13'07", in SW1/4SE1/4NE1/4 sec.30, T.10 N., R.3 W., Box Elder County, Hydrologic Unit 16010204, on right bank 100 ft (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.

AVERAGE DISCHARGE.--9 years, 65.9 ft^3/s (1.87 m^3/s), 47,740 acre-ft/yr (57.9 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, 236 ft^3/s (6.68 m^3/s) Jan. 15, gage height, 2.98 ft (0.908 m); minimum, 8.6 ft^3/s (0.244 m^3/s) Feb. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	84	55	51	18	65	40	46	118	70	90	86
2	88	71	55	49	13	62	38	46	130	98	94	85
3	90	70	50	49	12	64	39	46	175	107	91	82
4	80	68	60	50	11	85	38	47	189	97	86	83
5	76	70	54	52	10	88	36	48	170	92	82	86
6	85	70	63	51	9.7	80	23	61	154	84	76	83
7	83	69	51	52	9.4	79	20	71	148	84	76	91
8	86	71	51	52	11	71	23	82	142	84	77	97
9	85	71	52	53	14	67	38	96	130	82	72	98
10	86	71	53	68	16	64	38	119	133	79	72	103
11	90	77	52	74	17	61	38	121	128	76	85	119
12	90	82	59	75	16	58	37	122	116	72	83	121
13	90	78	60	103	17	54	37	126	105	69	84	119
14	83	67	60	178	16	52	37	128	97	76	79	118
15	82	65	62	219	38	52	37	128	86	77	88	115
16	86	64	62	200	36	48	43	136	84	71	103	111
17	79	64	58	142	43	46	45	155	76	72	114	107
18	78	65	55	91	66	46	45	150	78	75	114	106
19	90	65	54	49	89	44	45	143	80	82	112	106
20	106	62	48	40	79	43	45	142	79	84	112	105
21	101	63	48	33	79	45	44	135	78	92	110	103
22	98	61	48	31	77	45	45	128	76	88	108	114
23	101	53	48	23	66	43	46	125	77	78	106	112
24	102	52	49	20	52	43	49	128	74	67	97	105
25	102	53	49	19	49	43	47	125	70	68	92	102
26	100	52	49	20	66	43	47	116	68	71	75	107
27	90	52	58	26	75	43	45	110	67	67	69	105
28	88	54	56	19	72	41	46	108	66	78	70	107
29	88	43	61	20	69	40	46	111	64	89	78	110
30	84	57	60	20	---	40	48	112	66	94	79	110
31	84	---	62	18	---	40	---	110	---	91	85	---
TOTAL	2756	1944	1702	1947	1146.1	1695	1205	3321	3124	2514	2759	3096
MEAN	88.9	64.8	54.9	62.8	39.5	54.7	40.2	107	104	81.1	89.0	103
MAX	106	84	63	219	89	88	49	155	189	107	114	121
MIN	76	43	48	18	9.4	40	20	46	64	67	69	82
AC-FT	5470	3860	3380	3860	2270	3360	2390	6590	6200	4990	5470	6140

CAL YR 1979 TOTAL 23445.0 MEAN 64.2 MAX 209 MIN 30 AC-FT 46500
WTR YR 1980 TOTAL 27209.1 MEAN 74.3 MAX 219 MIN 9.4 AC-FT 53970

10127040 SALT SPRING NEAR TREMONTON, UTAH

LOCATION.--Lat 41°42'44", long 112°13'38", in SW1/4SE1/4, sec.6, T.11 N., R.3 W., Box Elder County, Hydrologic Unit 16010204, 3 mi (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 JULY TO SEPTEMBER 1979.--Maximum daily discharge, 32 ft^3/s (0.91 m^3/s) July 24-29; minimum daily, 22 ft^3/s (0.62 m^3/s) many days.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 25 ft^3/s (0.71 m^3/s) many days in June and July; minimum daily, 17 ft^3/s (0.48 m^3/s) Nov. 14-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	20	18	19	19	19	20	20	25	24	24	23
2	23	20	18	19	19	19	20	20	25	24	24	23
3	23	20	18	19	19	19	20	20	25	24	24	23
4	23	20	18	19	19	19	21	20	25	24	24	23
5	23	20	18	19	19	19	21	20	25	24	24	23
6	23	20	18	19	19	19	20	20	25	24	24	23
7	23	19	18	19	19	19	20	21	25	24	24	23
8	23	19	18	19	19	19	20	21	25	24	24	23
9	23	19	18	19	19	19	20	21	25	24	24	23
10	23	19	18	19	19	19	20	22	25	24	24	23
11	22	18	19	19	19	19	20	22	25	24	24	23
12	22	18	19	19	19	20	20	22	25	24	24	23
13	22	18	19	21	19	21	20	23	25	24	24	23
14	22	17	19	21	19	21	20	23	25	24	24	23
15	22	17	19	21	19	21	20	23	25	24	24	23
16	22	17	19	19	20	22	20	24	25	24	24	23
17	22	17	19	19	21	22	20	24	24	24	24	23
18	22	17	19	19	21	22	20	24	24	24	24	23
19	22	17	19	19	21	22	20	25	24	24	24	23
20	22	17	19	19	21	21	20	25	24	24	24	23
21	21	18	19	19	20	22	20	25	24	24	24	23
22	21	18	19	19	19	22	20	25	25	24	24	23
23	21	18	19	19	19	21	20	25	25	24	24	23
24	21	18	19	19	19	21	20	25	25	24	24	23
25	21	18	19	19	19	21	20	25	24	24	24	23
26	21	18	19	19	19	21	20	25	24	24	24	23
27	21	18	19	19	19	21	20	25	24	24	24	23
28	21	18	19	19	19	21	20	25	24	24	24	23
29	21	18	19	19	19	20	20	25	24	24	24	23
30	21	18	19	19	---	20	20	25	24	24	24	23
31	21	---	19	19	---	20	---	25	---	24	24	---
TOTAL	681	549	579	595	561	631	602	715	739	744	744	690
MEAN	22.0	18.3	18.7	19.2	19.3	20.4	20.1	23.1	24.6	24.0	24.0	23.0
MAX	23	20	19	21	21	22	21	25	25	24	24	23
MIN	21	17	18	19	19	19	20	20	24	24	24	23
AC-FT	1350	1090	1150	1180	1110	1250	1190	1420	1470	1480	1480	1370

WTR YR 1980 TOTAL 7830 MEAN 21.4 MAX 25 MIN 17 AC-FT 15530

10127050 SALT CREEK BELOW SALT SPRING, NEAR TREMONTON, UTAH

LOCATION.--Lat 41°42'41", long 112°13'36", in SW1/4SE1/4, sec.6, T.11 N., R.3 W., Box Elder County, Hydrologic Unit 16010204, on right bank 250 ft (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 fair. Station measures total flow of Salt Spring and water released from West Side Canal.

EXTREMES FOR JULY TO SEPTEMBER 1979.--Maximum discharge, 144 ft^3/s (4.08 m^3/s) July 28, gage height, 4.49 ft (1.369 m); minimum, 24 ft^3/s (0.68 m^3/s) July 1-9.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 184 ft^3/s (5.21 m^3/s) Feb. 18, gage height, 6.12 ft (1.865 m); minimum, 20 ft^3/s (0.57 m^3/s) many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	39	20	23	23	24	20	20	109	26	36	32
2	90	20	20	23	23	24	20	20	121	35	42	27
3	89	20	20	22	23	24	20	28	125	26	40	32
4	90	20	21	22	23	28	21	54	75	25	36	35
5	89	20	21	22	23	26	21	40	72	32	35	47
6	89	20	21	22	23	26	21	34	100	36	34	50
7	90	22	22	22	23	25	20	84	91	38	34	61
8	88	26	22	22	23	24	20	110	86	32	32	79
9	85	25	22	23	23	24	20	77	73	32	36	66
10	89	24	22	57	23	23	20	88	64	32	33	48
11	86	24	23	44	23	24	20	88	62	33	31	62
12	88	24	23	51	23	23	20	89	53	32	32	71
13	88	24	24	148	23	22	20	89	64	33	33	62
14	97	24	24	156	24	22	20	89	42	44	28	62
15	115	24	24	79	51	22	20	89	28	38	46	64
16	125	24	24	36	65	22	20	95	25	38	106	67
17	127	24	24	30	49	22	20	91	24	40	101	68
18	130	24	24	29	145	22	20	89	24	33	99	74
19	128	24	24	25	130	22	20	90	24	42	101	92
20	96	24	23	28	58	21	20	95	24	40	104	86
21	92	34	23	26	45	22	20	106	24	40	93	79
22	89	46	23	25	35	22	20	91	25	38	66	75
23	82	38	23	25	30	21	20	83	25	38	48	75
24	82	35	23	24	28	21	20	91	25	45	38	74
25	79	34	23	24	26	21	20	99	24	48	32	77
26	77	33	23	24	26	21	20	101	24	53	32	75
27	81	32	22	24	25	21	20	97	24	50	28	75
28	83	29	22	23	25	21	20	91	24	40	24	74
29	84	25	22	23	24	20	20	91	24	32	24	74
30	84	20	22	23	---	20	20	93	24	30	24	72
31	87	---	22	23	---	20	---	97	---	35	28	---
TOTAL	2890	802	696	1148	1085	700	603	2499	1529	1136	1476	1935
MEAN	93.2	26.7	22.5	37.0	37.4	22.6	20.1	80.6	51.0	36.6	47.6	64.5
MAX	130	46	24	156	145	28	21	110	125	53	106	92
MIN	77	20	20	22	23	20	20	20	24	25	24	27
AC-FT	5730	1590	1380	2280	2150	1390	1200	4960	3030	2250	2930	3840

WTR YR 1980 TOTAL 16499 MEAN 45.1 MAX 156 MIN 20 AC-FT 32730

10127100 BLACK SLOUGH NEAR BRIGHAM CITY, UT

LOCATION.--Lat 41°30'36", long 112°03'34", in SW1/4SE1/4SW1/4 sec.16, T.9 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on left bank 20 ft (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, 4,210 ft (1,283 m) from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--9 years, 43.1 ft^3/s (1.22 m^3/s), 31,230 acre-ft/yr (38.5 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 Dahman Indicator; minimum, 2.7 ft^3/s (0.076 m^3/s) July 14, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 179 ft^3/s (5.07 m^3/s) June 3, gage height, 3.77 ft (1.149 m); minimum, 6.2 ft^3/s (0.176 m^3/s) July 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	44	34	31	63	117	59	76	54	32	9.7	26
2	10	43	33	32	53	115	59	72	68	37	11	27
3	16	41	33	32	48	115	58	49	145	38	9.2	25
4	19	40	33	32	46	131	57	38	166	33	9.2	25
5	19	39	34	33	45	127	55	34	155	32	11	28
6	20	39	35	33	44	129	51	34	152	30	10	27
7	22	38	35	33	44	127	47	36	139	28	11	29
8	23	38	37	33	41	123	44	38	114	28	11	32
9	23	37	39	34	44	118	42	50	101	28	12	33
10	22	36	42	46	43	114	41	80	89	26	8.6	35
11	22	36	45	53	42	110	40	89	79	24	8.2	43
12	25	35	43	58	41	104	39	94	76	23	9.0	55
13	27	35	39	78	41	99	37	97	75	20	11	57
14	27	36	36	96	47	95	36	99	69	20	12	57
15	27	35	34	110	67	90	37	99	62	17	12	54
16	29	35	33	126	83	85	40	100	62	17	25	51
17	31	35	33	135	97	82	40	108	55	20	28	44
18	32	37	32	138	116	78	39	101	48	21	23	41
19	34	40	32	128	138	71	38	93	44	18	21	40
20	41	41	32	127	151	64	39	90	38	15	21	38
21	45	41	33	119	168	60	40	85	35	16	18	37
22	46	41	33	116	171	59	41	79	35	18	20	41
23	47	40	33	110	165	57	46	67	33	18	17	42
24	49	40	33	105	159	55	65	61	31	12	16	42
25	49	39	34	100	151	55	84	80	29	8.4	17	42
26	50	40	34	96	143	55	87	79	26	7.6	25	41
27	50	40	34	89	136	56	80	73	22	6.9	27	41
28	49	39	33	98	128	57	75	61	23	7.1	25	40
29	49	41	33	82	122	58	72	58	25	10	21	40
30	46	37	32	79	---	57	67	65	27	10	20	39
31	46	---	32	73	---	57	---	59	---	8.5	23	---
TOTAL	1005	1158	1078	2455	2637	2720	1555	2244	2077	629.5	501.9	1172
MEAN	32.4	38.6	34.8	79.2	90.9	87.7	51.8	72.4	69.2	20.3	16.2	39.1
MAX	50	44	45	138	171	131	87	108	166	38	28	57
MIN	10	35	32	31	41	55	36	34	22	6.9	8.2	25
AC-FT	1990	2300	2140	4870	5230	5400	3080	4450	4120	1250	996	2320

CAL YR 1979 TOTAL 13468.8 MEAN 36.9 MAX 181 MIN 3.9 AC-FT 26720
WTR YR 1980 TOTAL 19232.4 MEAN 52.5 MAX 171 MIN 6.9 AC-FT 38150

10127110 BEAR RIVER BASIN OUTFLOWACROSS 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.--9 years, 2,088 ft^3/s (59.1 m^3/s), 1,513,000 acre-ft/yr (1.87 km^3/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, 8,440 ft^3/s (239 m^3/s) June 8; minimum daily, 383 ft^3/s (10.8 m^3/s) Jan. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	497	482	844	834	931	1820	1790	4900	4480	1470	778	1510
2	491	916	1040	383	1320	1990	1580	4960	4600	1680	1080	1590
3	869	1960	886	1630	1510	1860	1640	4840	5300	1670	770	1880
4	1140	1350	796	1430	1810	2450	1780	4700	6270	1530	676	1590
5	1170	1610	941	836	1410	2500	1930	4820	6920	1680	793	1570
6	763	1330	808	785	1300	2760	1900	5020	7530	1260	641	1790
7	610	1830	887	986	1400	2910	1960	4890	8100	1590	831	2000
8	592	1210	809	1340	1100	2600	1650	4680	8440	1870	780	1930
9	938	1010	1390	1540	1510	2670	1580	4680	8210	1890	709	1780
10	741	915	1510	1890	1310	3020	1730	4890	7850	1560	611	1760
11	605	952	900	1820	1310	2890	2060	5030	7480	1630	804	1670
12	587	1260	1360	2050	907	1590	1660	5180	7170	1360	1060	2190
13	584	1580	1250	3550	958	2120	1860	5390	6850	940	753	1920
14	567	1500	749	6020	1030	1810	1790	5620	6500	683	759	1960
15	580	1110	949	7190	2090	2080	2050	5790	6130	1260	832	1550
16	587	1360	1100	7340	1230	1580	1600	5900	5730	1140	936	1910
17	581	1560	844	7580	1660	1420	1890	5860	5250	1210	1590	2650
18	591	1090	990	6880	3480	1330	2500	5660	4670	1160	1490	2880
19	631	1210	989	5530	4420	1540	2680	5400	4440	1290	1180	3060
20	1360	1120	1330	4080	4730	1510	2600	5090	4300	806	1770	2700
21	1560	1170	533	3610	5290	2130	2960	4980	4090	876	1670	2010
22	2110	1250	1430	3140	5500	2650	3310	4940	3900	972	2060	1600
23	2580	1150	1630	2560	5440	1870	3710	4800	3670	1880	1460	2620
24	1520	1000	934	2290	5220	1820	3910	4720	3920	1180	1610	2700
25	2320	1000	1240	922	4540	1830	4020	4770	3900	988	1160	2200
26	2950	779	585	1910	3480	1750	4060	4690	3290	1110	1440	1970
27	2190	901	1140	1500	3450	1140	4080	4740	2810	1060	1270	1820
28	1320	656	841	1390	2430	2150	4080	4970	2550	948	1990	2190
29	648	944	1250	1870	2670	2040	4130	5120	1830	1110	1080	1930
30	544	801	844	958	---	1730	4580	4950	933	644	1430	1670
31	531	---	646	1100	---	1670	---	4630	---	809	1350	---
TOTAL	32757	35006	31445	84944	73436	63230	77070	156610	157113	39256	35363	60600
MEAN	1057	1167	1014	2740	2532	2040	2569	5052	5237	1266	1141	2020
MAX	2950	1960	1630	7580	5500	3020	4580	5900	8440	1890	2060	3060
MIN	491	482	533	383	907	1140	1580	4630	933	644	611	1510
AC-FT	64970	69430	62370	168500	145700	125400	152900	310600	311600	77860	70140	120200

CAL YR 1979 TOTAL 477910 MEAN 1309 MAX 4390 MIN 360 AC-FT 947900
WTR YR 1980 TOTAL 846830 MEAN 2314 MAX 8440 MIN 383 AC-FT 1680000

10128000 SMITH AND MOREHOUSE CREEK NEAR OAKLEY, UTAH

LOCATION.--Lat 40°47'09", long 111°06'42", in NW1/4NW1/4NW1/4 sec.36, T.1 N., R.7 E., Summit County, Hydrologic Unit 16020101, on right bank 2.5 mi (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.--6 years, 50.3 ft^3/s (1.42 m^3/s), 36,440 acre-ft/yr (44.9 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, 512 ft^3/s (14.5 m^3/s) June 12, gage height, 6.16 ft (1.878 m); minimum, 6.8 ft^3/s (0.193 m^3/s) several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	10	8.6	7.5	8.4	9.0	9.4	153	216	242	34	15
2	8.5	10	8.5	7.5	8.3	9.2	9.4	136	235	230	33	13
3	8.2	10	8.5	7.5	8.3	9.3	9.4	137	224	193	31	13
4	8.2	10	8.2	7.7	8.3	9.3	9.4	163	271	182	30	13
5	8.2	10	8.5	7.7	8.3	9.3	9.9	197	332	130	31	12
6	8.2	10	8.2	7.7	8.2	9.4	9.8	199	358	107	36	12
7	8.2	10	8.2	7.8	8.1	9.4	8.9	242	336	113	35	15
8	8.2	10	8.5	7.8	8.1	9.3	10	242	371	112	33	15
9	8.2	9.4	8.2	7.8	8.1	9.2	10	236	417	103	32	15
10	8.2	8.8	8.2	7.8	8.2	9.4	11	213	464	86	31	15
11	8.2	9.1	8.2	8.0	8.2	9.6	10	175	489	76	30	16
12	8.2	8.5	8.2	9.1	8.2	9.3	10	149	485	75	28	16
13	8.2	8.5	8.2	10	8.2	9.6	11	130	447	73	28	14
14	8.2	8.5	8.2	13	8.2	10	13	122	415	72	27	14
15	8.2	8.2	7.6	13	8.5	9.9	16	121	375	70	26	13
16	8.5	8.2	7.6	13	8.5	9.9	20	121	326	68	25	13
17	8.5	8.8	7.6	11	8.4	9.9	24	122	360	65	24	13
18	8.8	9.1	7.6	9.5	8.9	9.8	31	120	393	63	24	13
19	10	8.5	7.6	9.2	9.0	10	36	120	423	60	23	13
20	11	8.2	7.6	9.2	9.0	9.7	45	126	394	57	22	13
21	9.7	8.0	7.9	9.2	8.8	10	51	215	359	55	21	13
22	9.4	8.2	7.9	9.2	9.0	9.7	57	341	365	52	21	13
23	9.7	8.5	7.9	9.1	8.6	10	62	389	358	50	20	13
24	9.7	8.8	7.9	9.1	8.6	10	65	342	332	48	19	13
25	10	8.8	7.9	8.4	8.6	9.7	69	276	333	45	19	13
26	10	8.5	7.6	8.4	8.6	9.6	77	229	320	43	19	13
27	10	8.8	8.5	8.4	8.9	9.5	84	202	257	42	18	13
28	10	8.6	8.0	8.5	9.2	9.5	93	185	215	41	17	12
29	10	8.6	7.8	8.5	9.2	9.4	110	182	237	39	17	12
30	10	8.6	7.6	8.5	---	9.4	156	174	258	37	16	12
31	10	---	7.4	8.5	---	9.4	---	185	---	36	16	---
TOTAL	278.7	269.2	248.4	277.6	246.9	296.7	1137.2	5946	10365	2665	786	403
MEAN	8.99	8.97	8.01	8.95	8.51	9.57	37.9	192	346	86.0	25.4	13.4
MAX	11	10	8.6	13	9.2	10	156	389	489	242	36	16
MIN	8.2	8.0	7.4	7.5	8.1	9.0	8.9	120	215	36	16	12
AC-FT	553	534	493	551	490	589	2260	11790	20560	5290	1560	799

CAL YR 1979 TOTAL 15464.9 MEAN 42.4 MAX 500 MIN 7.4 AC-FT 30670
WTR YR 1980 TOTAL 22919.7 MEAN 62.6 MAX 489 MIN 7.4 AC-FT 45460

10128500 WEBER RIVER NEAR OAKLEY, UTAH

LOCATION.--Lat 40°44'14", long 111°14'50", in SE1/4NE1/4 sec.15, T.1 S., R.6 E., Summit County, Hydrologic Unit 16020101, on right bank 1.5 mi (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 mi^2 (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.--76 years, 219 ft^3/s (6.20 m^3/s), 158,800 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)
May 23	1130	1450	41.0	3.06	0.933
June 12	0230	*1830	51.8	3.72	1.134
June 19	0130	1510	42.8	3.36	1.024

Minimum observed, 17 ft^3/s (0.481 m^3/s) Dec. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	52	43	39	40	43	42	526	600	674	119	87
2	42	54	44	40	42	42	43	496	631	631	113	81
3	43	52	46	43	42	44	43	511	605	569	109	78
4	43	50	48	43	42	46	46	591	713	520	98	73
5	43	52	48	43	41	43	47	672	890	431	109	70
6	43	54	48	42	40	44	48	684	896	371	117	70
7	43	52	48	42	39	42	46	781	896	354	113	86
8	43	50	47	42	37	42	47	822	916	342	107	82
9	42	49	47	41	38	42	50	836	1190	314	102	81
10	42	50	44	41	39	42	56	735	1410	292	106	84
11	42	48	40	37	40	42	53	608	1590	265	106	86
12	42	46	39	52	40	41	54	526	1620	252	113	91
13	42	48	39	64	40	41	56	471	1470	239	115	79
14	42	46	40	80	41	47	64	442	1360	224	111	73
15	43	44	41	78	42	44	78	457	1150	207	109	70
16	46	42	42	61	43	42	90	462	984	195	107	68
17	46	48	43	57	44	41	104	457	1070	190	104	67
18	49	48	43	53	49	47	131	438	1220	184	98	66
19	61	44	44	47	49	43	170	452	1330	177	102	64
20	81	43	44	41	49	43	221	516	1280	171	99	64
21	61	42	43	40	46	44	280	728	1110	164	93	64
22	57	43	42	40	47	43	328	1090	1090	156	89	63
23	58	43	42	40	46	43	335	1400	1030	147	94	61
24	58	45	43	40	46	46	312	1030	977	149	90	60
25	58	44	44	40	52	46	339	813	936	142	99	59
26	60	43	40	40	52	42	389	674	896	137	101	57
27	57	42	36	39	46	44	393	594	771	133	90	57
28	56	41	37	38	44	44	433	564	663	128	86	56
29	57	41	37	37	44	43	522	574	663	124	83	56
30	54	42	38	35	---	43	619	539	713	124	82	55
31	53	---	39	37	---	39	---	549	---	119	85	---
TOTAL	1549	1398	1319	1412	1260	1338	5439	20036	30670	8125	3149	2108
MEAN	50.0	46.6	42.5	45.5	43.4	43.2	181	646	1022	262	102	70.3
MAX	81	54	48	80	52	47	619	1400	1620	674	119	91
MIN	42	41	36	35	37	39	42	438	600	119	82	55
AC-FT	3070	2770	2620	2800	2500	2650	10790	39750	60830	16120	6250	4180

CAL YR 1979 TOTAL 58968 MEAN 162 MAX 1840 MIN 36 AC-FT 117000
WTR YR 1980 TOTAL 77805 MEAN 213 MAX 1620 MIN 35 AC-FT 154300

10129400 ROCKPORT RESERVOIR NEAR WANSHIP, UTAH

LOCATION.--Lat 40°47'25", long 111°24'12", in NW1/4NW1/4SE1/4 sec.29, T.1 N., R.5 E., Summit County, Hydrologic Unit 16020101, in powerhouse on downstream side of dam on Weber River, 1.2 mi (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 in National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service).

REMARKS.--Reservoir is formed by earth-fill 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 Water and Power Resources Service.

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, 63,040 acre-ft (77.7 hm^3) June 21-23, elevation, 6,039.0 ft (1,840.69); minimum observed, 17,910 acre-ft (22.1 hm^3) Apr. 9-10; elevation, 5,983.7 ft (1,823.83 m).

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

5,980	15,900	6,020	44,110
5,990	21,580	6,030	53,600
6,000	28,150	6,040	64,140
6,010	35,660		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43400	39670	35900	30020	27450	23890	18700	32940	46200	61940	58940	53300
2	43130	39590	35740	29880	27310	23700	18470	34010	46480	62160	58730	53200
3	42780	39500	35580	29730	27170	23500	18310	34950	46840	62160	58730	53000
4	42420	39420	35500	29510	27100	23380	18140	35980	47120	62050	58520	52800
5	42070	39340	35350	29300	26960	23310	18020	37190	47590	61940	58310	52600
6	41730	39250	35270	29150	26810	23250	18020	38500	48340	61830	58100	52500
7	41380	39170	35110	29010	26680	23060	18020	39760	49390	61730	57890	52310
8	41030	39080	34950	28790	26480	22870	17970	40950	49970	61620	57680	52110
9	40690	39000	34870	28650	26270	22680	17910	41810	50740	61510	57580	52010
10	40350	38830	34720	28510	26070	22440	17910	42510	51910	61290	57470	51910
11	40010	38750	34560	28360	25930	22190	18080	42860	53500	61080	57270	51810
12	39670	38590	34400	28220	25730	21940	18250	42510	55110	61080	57060	51620
13	39420	38420	34170	28150	25600	21640	18420	42420	55920	60860	56850	51620
14	39170	38340	33940	28510	25530	21450	18640	42250	56440	60750	56640	51420
15	38920	38250	33700	29080	25600	21330	18980	41990	57780	60650	56440	51320
16	38920	38090	33550	29300	25530	21210	19500	41810	58840	60540	56230	51230
17	38920	37930	33320	29440	25400	21030	20030	41810	59680	60540	56030	50930
18	39000	37840	33090	29440	25400	20910	20670	41640	60860	60430	55820	50840
19	39080	37760	32860	29300	25400	20730	21390	41460	61830	60330	55620	50640
20	39340	37600	32630	29150	25260	20560	22130	41120	62600	60220	55410	50450
21	39590	37430	32400	29080	25260	20440	22940	40950	63040	60110	55210	50260
22	39760	37270	32180	28930	25200	20320	23950	40950	63040	60000	55010	50160
23	39920	37110	31950	28790	25130	20200	25000	42340	63040	59790	54800	50060
24	40090	37030	31730	28650	25000	20030	25870	43750	62930	59790	54700	49870
25	40180	36870	31500	28510	24800	19850	26680	44290	62710	59790	54500	49680
26	40180	36710	31280	28360	24600	19730	27660	45470	62600	59680	54400	49480
27	40090	36540	30980	28220	24410	19560	28430	45740	62490	59580	54300	49290
28	40010	36380	30760	28080	24280	19390	29300	45920	62270	59470	54100	49200
29	39920	36220	30610	27940	24080	19210	30310	45920	62050	59370	53900	49010
30	39840	36060	30460	27800	---	19040	31580	45920	61940	59260	53700	48820
31	39760	---	30240	27660	---	18870	---	46020	---	59050	53500	---
MAX	43400	39670	35900	30020	27450	23890	31580	46020	63040	62160	58940	53300
MIN	38920	36060	30240	27660	24080	18870	17910	32940	46200	59050	53500	48820
(†)	6015.0	6010.5	6002.9	5999.3	5994.0	5985.4	6004.7	6022.1	6038.0	6035.3	6029.9	6025.1
(‡)	-3900	-3700	-5820	-2580	-3580	-5210	+12710	+14440	+15920	-2990	-5550	-4680

CAL YR 1979 . . . . . (‡) -9180

WTR YR 1980 . . . . . (‡) +4530

(†) 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 NE1/4SW1/4NE1/4 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 28,081 acre-ft (34.6 hm^3) of 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.--49 years, 198 ft^3/s (5.61 m^3/s), 143,450 acre-ft/yr (177 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, 1,120 ft^3/s (31.7 m^3/s) June 13, 14, gage height, 3.88 ft (1.183 m); minimum, 40 ft^3/s (1.13 m^3/s) Oct. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	195	140	152	154	150	206	187	310	486	491	133	153
2	200	142	152	152	156	203	187	284	449	565	134	150
3	203	140	152	152	154	219	184	275	437	555	134	151
4	197	140	152	152	154	216	184	276	416	540	133	150
5	197	142	152	152	154	211	187	271	408	482	131	150
6	197	142	152	152	154	208	189	274	400	402	129	153
7	195	142	152	152	154	206	189	375	448	347	133	163
8	197	142	152	154	154	203	188	575	492	323	137	161
9	200	142	152	154	152	214	190	782	502	296	135	164
10	203	142	152	159	154	241	192	864	501	256	135	164
11	200	142	152	156	154	244	193	810	593	219	137	163
12	192	142	152	180	156	244	197	799	899	197	135	163
13	164	142	171	214	154	236	207	794	1100	176	132	159
14	159	142	174	233	161	200	215	783	760	164	133	158
15	112	142	174	197	219	203	233	788	516	147	139	160
16	46	142	144	182	236	200	246	799	520	147	138	163
17	43	140	174	174	227	195	261	804	508	144	138	160
18	41	142	176	166	306	197	298	794	527	144	139	161
19	53	142	176	159	271	197	346	783	717	142	142	164
20	83	144	174	159	236	197	403	783	930	142	143	165
21	63	149	176	159	216	200	429	716	1010	140	158	165
22	57	147	176	156	211	195	411	667	1020	140	147	167
23	56	149	176	159	208	197	360	672	978	144	152	168
24	53	149	174	154	206	197	303	672	906	147	138	165
25	63	152	176	154	203	195	317	667	834	144	149	163
26	138	154	179	154	203	195	316	667	766	142	158	164
27	140	149	179	149	206	192	299	651	667	138	160	161
28	140	152	164	154	211	192	295	640	570	132	153	164
29	140	152	154	149	208	189	306	640	470	129	151	164
30	140	152	154	150	---	189	343	575	441	132	150	160
31	140	---	154	150	---	187	---	527	---	132	153	---
TOTAL	4207	4339	5049	5041	5528	6368	7855	19317	19271	7399	4379	4816
MEAN	136	145	163	163	191	205	262	623	642	239	141	161
MAX	203	154	179	233	306	244	429	864	1100	565	160	168
MIN	41	140	144	149	150	187	184	271	400	129	129	150
AC-FT	8340	8610	10010	10000	10960	12630	15580	38320	38220	14680	8690	9550

CAL YR 1979 TOTAL 53450 MEAN 146 MAX 499 MIN 39 AC-FT 106000
WTR YR 1980 TOTAL 93569 MEAN 256 MAX 1100 MIN 41 AC-FT 185600

10131000 CHALK CREEK AT COALVILLE, UTAH

LOCATION.--Lat 40°55'14", long 111°24'03", in NW1/4NE1/4SE1/4 sec.8, T.2 N., R.5 E., Summit County, Hydrologic Unit 16020101, on left bank 100 ft (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) National Geodetic Vertical Datum 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. Several diversions for irrigation above station, none below. Flow slightly affected by Chalk Creek Reservoir capacity, 1,600 acre-ft (1.97 hm^3).

AVERAGE DISCHARGE.--53 years, 63.1 ft^3/s (1.787 m^3/s), 45,720 acre-ft/yr (56.4 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.--Peak discharge above base of 400 ft^3/s (11.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 22	0500	515	14.6	2.00	0.610
Apr. 26	0500	*662	18.7	2.34	0.713
May 1	0200	626	17.7	2.26	0.689
May 9	1000	579	16.4	2.15	0.655
May 23	0800	599	17.0	2.20	0.671

Minimum, 2.8 ft^3/s (0.079 m^3/s) Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	18	13	11	12	27	19	473	284	99	13	31
2	5.8	18	15	12	12	29	18	367	292	160	15	26
3	5.4	19	17	11	12	37	22	367	286	132	14	20
4	5.4	21	17	13	12	31	32	421	310	128	13	19
5	5.4	21	18	12	12	28	33	432	346	108	13	20
6	4.9	18	15	12	12	27	33	412	340	86	12	17
7	4.4	19	16	10	12	23	34	464	286	86	12	23
8	4.0	17	16	12	12	22	28	500	276	83	12	28
9	4.0	18	14	12	13	22	38	550	269	80	15	28
10	5.4	15	16	13	13	23	46	510	270	70	14	27
11	6.2	16	11	8.4	13	19	39	372	261	61	16	26
12	6.2	14	9.0	37	13	25	40	317	249	54	19	34
13	6.2	14	9.6	42	13	19	41	289	215	50	19	32
14	6.2	14	11	47	14	30	53	264	184	50	20	28
15	6.2	14	11	51	22	34	69	270	171	40	21	26
16	6.2	12	12	53	33	25	79	296	158	32	24	23
17	6.2	14	13	43	38	21	90	363	149	27	18	23
18	6.8	18	12	32	52	26	120	329	148	24	17	21
19	7.8	13	12	14	49	25	219	323	142	23	22	19
20	20	14	13	13	46	25	294	364	137	21	33	19
21	16	12	13	12	43	30	392	425	127	20	27	19
22	14	6.8	14	11	36	25	431	513	119	21	30	19
23	17	12	13	11	27	22	316	563	109	19	32	20
24	16	15	11	11	20	23	307	535	99	15	32	21
25	16	18	15	11	21	24	283	399	95	12	35	22
26	17	17	13	11	25	20	434	331	87	12	41	24
27	22	14	9.6	11	31	21	357	302	83	13	37	23
28	22	10	11	11	37	23	315	304	77	14	36	22
29	21	11	10	11	34	21	359	303	72	13	32	23
30	22	13	10	11	---	23	574	284	69	13	28	22
31	20	---	11	11	---	21	---	284	---	12	29	---
TOTAL	331.9	455.8	401.2	580.4	689	771	5115	11926	5710	1578	701	705
MEAN	10.7	15.2	12.9	18.7	23.8	24.9	171	385	190	50.9	22.6	23.5
MAX	22	21	18	53	52	37	574	563	346	160	41	34
MIN	4.0	6.8	9.0	8.4	12	19	18	264	69	12	12	17
AC-FT	658	904	796	1150	1370	1530	10150	23660	11330	3130	1390	1400

CAL YR 1979 TOTAL 11978.1 MEAN 32.8 MAX 200 MIN 4.0 AC-FT 23760
WTR YR 1980 TOTAL 28964.3 MEAN 79.1 MAX 574 MIN 4.0 AC-FT 57450

10131500 ECHO RESERVOIR AT ECHO, UTAH

LOCATION.--Lat 40°57'50", long 111°25'55", in NE1/4NW1/4SW1/4 sec.30, T.3 N., R.5 E., Summit County, Hydrologic Unit 16020101, near outlet works at left end of Echo Dam on Weber River, 1.1 mi (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-1: Drainage area.

GAGE.--Staff gage on left side of dam read once daily. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service). 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 Water and Power Resources Service.

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) July 5; elevation, 5,560.5 ft (1,694.84 m); minimum, 6,130 acre-ft (7.56 hm^3) Oct. 14, 15; elevation 5,488.6 ft (1,672.93 m).

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

5,488	5,880	5,515	22,390	5,545	53,360
5,490	6,730	5,520	26,620	5,550	59,880
5,495	9,110	5,525	31,180	5,555	66,740
5,500	11,830	5,530	36,100	5,560	73,940
5,505	14,920	5,535	41,440	5,561	75,420
5,510	18,480	5,540	47,200		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9780	9680	19320	31750	43810	52860	54890	45430	70590	73210	58810	39790
2	9420	10000	19620	32130	44150	52860	54380	46130	71020	73360	58150	39360
3	9060	10320	20010	32520	44610	52980	53870	46610	71460	74090	57620	38820
4	8760	10640	20400	32910	45080	53110	53230	47320	71890	74540	56970	38290
5	8410	10980	20790	33300	45540	53230	52350	47920	72330	74680	56320	37760
6	8070	11310	21270	33690	45900	53360	51600	48520	72770	74540	55540	37240
7	7740	11660	21750	34080	46250	53360	50730	49250	72770	74240	54890	36620
8	7410	12000	22230	34380	46610	53490	49740	49870	72470	73940	54120	36200
9	7090	12350	22720	34680	46720	53490	48890	50730	72180	73800	53360	35800
10	6820	12710	23210	34980	46720	53620	48160	52730	71690	73500	52860	35390
11	6650	13080	23630	35290	46840	53740	47320	54120	71690	73060	51970	34980
12	6470	13450	24040	35700	46960	53870	46370	55150	72180	72620	51350	34780
13	6300	13820	24380	36000	46960	53870	45540	55800	72180	72180	50480	34880
14	6130	14200	24800	37030	46960	53870	44840	56450	72180	71600	49740	34880
15	6130	14600	25150	37760	47200	53870	44150	56970	72770	71020	49010	35080
16	6170	14990	25400	38290	47200	53870	43460	57490	73210	70300	48280	35190
17	6220	15400	25750	38720	47920	53870	42900	58280	73650	69580	47680	35190
18	6260	15810	25920	39250	48280	53870	42440	58810	73940	68860	47200	35190
19	6390	16230	26180	39680	49500	54120	42220	59210	73940	68150	46610	35080
20	6560	16650	26620	40120	50610	54380	42110	59610	74240	67440	46010	35080
21	6820	17080	27060	40440	51230	54760	42330	60010	74090	66740	45540	35080
22	7130	17450	27500	40660	51600	55020	42900	60680	74090	66040	45080	35080
23	7270	17590	27950	40880	51970	55280	43240	62040	73940	65340	44500	35080
24	7410	17740	28400	41110	52100	55670	43350	63400	73940	64650	43930	35080
25	7550	17890	28860	41330	52220	55920	43350	64780	73940	63950	43350	35080
26	7690	18110	29310	41550	52350	56190	43580	65760	73940	63130	42780	34980
27	7920	18340	29770	41880	52480	56060	43810	66740	73940	62310	42330	34880
28	8260	18560	30240	42220	52600	55920	43810	67590	73940	61630	41880	34880
29	8600	18790	30610	42670	52730	55670	43920	68440	73940	60820	41330	34680
30	8960	19010	30990	43120	---	55410	44270	69290	73500	60150	40780	34680
31	9310	---	31370	43460	---	55280	---	69870	---	59340	40230	---
MAX	9780	19010	31370	43460	52730	56190	54890	69870	74240	74680	58810	39790
MIN	6130	9680	19320	31750	43810	52860	42110	45430	70590	59340	40230	34680
(†)	5495.4	5510.7	5525.2	5536.8	5544.5	5546.5	5537.5	5557.2	5559.7	5549.6	5533.9	5528.6
(‡)	-840	+9700	+12360	+12090	+9270	+2550	-11010	+25600	+3630	-14160	-19110	-5550

CAL YR 1979 . . . . . (‡) -25990
WTR YR 1980 . . . . . (‡) +24530

(†) 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 NW1/4SE1/4NE1/4 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 National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service).

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 Water and Power Resources Service.

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, 20,670 acre-ft (25.5 hm^3) May 26, 28; elevation, 6,006.8 ft (1,830.87 m); minimum contents observed, 8,790 acre-ft (10.8 hm^3) Apr. 20; elevation 5,968.0 ft (1,819.05 m).

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

5,968	8,790	5,990	14,890
5,970	9,260	5,995	16,510
5,975	10,540	6,000	18,220
5,980	11,910	6,005	20,010
5,985	13,350	6,007	20,740

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12880	---	---	---	---	---	---	---	20630	---	---	---
2	---	12420	---	---	---	---	---	---	---	---	---	16710
3	---	---	12450	---	---	14020	---	---	---	20010	---	---
4	12560	---	---	---	13710	---	---	14770	---	---	18540	16510
5	---	---	---	---	---	---	---	---	20630	---	---	---
6	---	12420	---	12880	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	11690	16510	---	---	18320	---
8	12480	---	---	---	---	---	---	---	---	19900	---	16210
9	---	---	---	---	---	14020	---	17800	20560	---	---	---
10	---	---	12450	---	---	---	10620	18220	---	---	---	---
11	12420	---	---	---	13840	---	---	18320	---	19680	18010	16050
12	---	---	---	---	---	---	---	---	20520	---	---	---
13	---	12450	---	---	---	---	9560	18400	---	---	---	---
14	---	---	---	13200	---	---	---	---	---	19500	17870	---
15	12340	---	---	---	---	---	---	18400	---	---	---	15920
16	---	---	---	---	---	---	---	---	20520	---	---	---
17	---	---	12620	---	---	13620	8930	18640	---	19350	---	---
18	12340	---	---	---	---	---	---	---	---	---	17590	15790
19	---	12450	---	---	13960	---	---	19530	20330	---	---	---
20	---	---	---	---	---	---	8790	---	---	---	---	---
21	---	---	12650	13470	---	---	---	19900	---	19420	17350	---
22	---	---	---	---	---	---	---	19900	---	---	---	15660
23	12420	---	---	---	13990	---	---	---	20300	---	---	---
24	---	---	---	---	---	13320	9790	20370	---	---	---	---
25	---	---	---	---	---	---	---	---	---	18920	17150	15590
26	---	12450	---	---	---	---	---	20670	---	---	---	---
27	---	---	---	---	---	---	10680	---	20150	---	---	---
28	---	---	---	13500	---	---	---	20670	---	---	16910	---
29	12420	---	---	---	13990	---	---	---	---	---	---	15530
30	---	12450	---	---	---	---	12310	20630	20010	---	---	15530
31	12420	---	12820	13590	---	12940	---	20630	---	18820	16740	---
(†)	5981.8	5981.9	5983.2	5985.8	5987.1	5983.6	5981.4	6006.7	6005.0	6001.7	5995.7	5992.0
(‡)	-500	+30	+370	+770	+400	-1050	-630	+8320	-620	-1190	-2080	-1210

CAL YR 1979 . . . . . -1600
WTR YR 1980 . . . . . +2610

(†) 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 NE1/4SE1/4NW1/4 sec.10, T.2 N., R.3 E., Morgan County, Hydrologic Unit 16020102, on upstream face of concrete dam on East Canyon Creek, 9.0 mi (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 National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service). 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 Water and Power Resources Service.

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 Water and Power Resources Service.

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, 48,590 acre-ft (59.9 hm^3) June 7, elevation, 5,705.7 ft (1,739.10 m); minimum observed, 24,140 acre-ft (29.8 hm^3) Oct. 13, elevation, 5,662.8 ft (1,726.02 m).

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

5,660	22,870	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 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	26340	---	---	33220	---	---	---	---	---	---
2	---	---	---	---	30340	---	34960	---	---	---	40980	---
3	---	25100	---	---	---	---	---	40730	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	27850	---	---	34680	---	---	47630	---	32570
6	24640	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	34280	---	48590	---	---	---
8	---	---	26680	---	---	33940	---	---	---	---	---	---
9	---	---	---	---	30650	---	---	42180	---	---	38770	---
10	---	25380	---	---	---	---	---	42820	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	28350	---	---	33220	---	---	46680	---	---
13	24140	---	---	---	---	---	---	---	---	---	---	31980
14	---	---	---	---	---	---	---	---	48520	---	---	---
15	---	---	26920	---	---	34560	---	---	---	---	---	---
16	---	---	---	---	31170	---	---	---	---	---	36690	---
17	---	25670	---	---	---	---	---	44560	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	24280	---	---	29660	---	---	33940	---	---	45090	---	---
20	---	---	---	---	---	---	---	---	---	---	---	31660
21	---	---	---	---	---	---	---	---	48390	---	---	---
22	---	---	27260	---	---	34900	36630	---	---	---	35020	---
23	---	---	---	---	32680	---	---	---	---	---	---	---
24	---	26050	---	---	---	---	38830	46010	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	24690	---	---	30180	---	---	38830	---	---	43080	---	---
27	---	---	---	---	---	---	---	---	---	---	---	31500
28	---	---	---	---	---	---	---	---	48250	---	---	---
29	---	---	27550	---	a33140	35240	---	---	---	---	---	---
30	---	a26300	---	---	---	---	39680	---	a 48070	---	33390	a 31430
31	a24890	---	a27640	a30290	---	a35100	---	48040	---	a41580	a33250	---
(†)	---	---	---	---	---	---	5692.0	5704.9	---	---	---	---
(‡)	-110	+1410	+1340	+2650	+2850	+1960	+4580	+8360	+30	-6490	-8330	-1820

CAL YR 1979 . . . . . (‡) -7430
WTR YR 1980 . . . . . (‡) +6430

(†) 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 SW1/4NW1/4NW1/4 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.--49 years, 53.3 ft^3/s (1.509 m^3/s), 38,620 acre-ft/yr (47.2 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, 20, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 257 ft^3/s (7.28 m^3/s) Apr.28, gage height, 1.54 ft (0.469 m); minimum 4.3 ft^3/s (0.122 m^3/s) many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	4.9	4.3	4.9	4.9	6.3	82	198	75	114	177	100
2	45	4.9	4.3	4.9	4.9	6.3	89	198	110	112	177	100
3	45	4.3	4.3	4.3	4.9	7.0	108	198	130	112	177	100
4	45	4.3	4.3	4.3	4.9	7.0	110	198	138	112	177	100
5	45	4.3	4.3	4.3	4.9	7.0	145	198	140	112	177	93
6	45	4.3	4.3	4.3	4.9	7.0	162	198	144	112	177	72
7	45	4.3	4.3	4.3	4.9	7.0	173	200	140	112	177	72
8	45	4.3	4.3	4.3	4.9	6.3	205	200	138	112	177	72
9	45	4.3	4.3	4.9	5.6	6.3	205	162	136	112	177	72
10	45	4.3	4.3	4.9	5.6	6.3	205	142	132	112	175	72
11	45	4.3	4.3	4.9	5.6	6.3	205	142	130	112	175	72
12	44	4.3	4.3	4.9	5.6	7.0	205	142	126	140	175	72
13	44	4.3	4.3	5.6	5.6	7.0	205	142	124	153	175	58
14	44	4.3	4.3	6.3	5.6	7.0	205	142	122	153	175	52
15	36	4.3	4.3	5.6	5.6	20	205	144	118	153	175	50
16	14	4.3	4.3	4.9	5.6	27	208	142	114	151	162	50
17	14	4.3	4.3	4.9	5.6	27	208	118	108	153	155	50
18	13	4.3	4.3	4.9	6.3	27	208	108	102	153	155	50
19	13	4.3	4.3	5.6	6.3	27	210	108	97	175	155	50
20	13	4.3	4.3	5.6	6.3	27	210	110	91	182	155	42
21	13	4.3	4.9	5.6	6.3	27	210	110	86	182	153	40
22	13	4.3	4.9	5.6	6.3	27	180	110	82	182	147	40
23	13	4.3	4.9	5.6	6.3	27	162	110	77	182	126	38
24	13	4.3	4.9	5.6	6.3	27	198	65	73	182	126	38
25	13	4.3	4.9	5.6	6.3	27	244	44	67	180	126	38
26	12	4.3	4.9	5.6	6.3	27	244	44	62	180	124	38
27	4.9	4.3	4.9	5.6	6.3	27	255	44	59	180	124	38
28	4.9	4.3	4.9	5.6	6.3	27	255	44	56	180	124	38
29	4.9	4.3	4.9	4.9	6.3	67	250	45	77	180	124	38
30	4.9	4.3	4.9	4.9	---	84	220	45	114	180	108	38
31	4.9	---	4.9	4.9	---	82	---	48	---	180	100	---
TOTAL	831.5	130.2	139.9	158.1	165.2	697.8	5771	3899	3168	4635	4807	1783
MEAN	26.8	4.34	4.51	5.10	5.70	22.5	192	126	106	150	155	59.4
MAX	45	4.9	4.9	6.3	6.3	84	255	200	144	182	177	100
MIN	4.9	4.3	4.3	4.3	4.9	6.3	82	44	56	112	100	38
AC-FT	1650	258	277	314	328	1380	11450	7730	6280	9190	9530	3540

CAL YR 1979 TOTAL 22327.6 MEAN 61.2 MAX 186 MIN 4.3 AC-FT 44290
WTR YR 1980 TOTAL 26185.7 MEAN 71.5 MAX 255 MIN 4.3 AC-FT 51940

10136500 WEBER RIVER AT GATEWAY, UTAH

LOCATION.--Lat 41°08'13", long 111°49'54", in NE1/4SW1/4SW1/4 sec.27, T.5 N., R.1 E., Morgan County, Hydrologic Unit 16020102, on left bank 400 ft (122 m) downstream from tailrace of Gateway power plant, 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 through tailrace of Gateway hydroelectric power plant. Flow regulated by Rockport, Echo, Lost Creek, and East Canyon Reservoirs (see stations 10129400, 10131500, 10132490, and 10134000).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 7,980 ft^3/s (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, 3,300 ft^3/s (93.5 m^3/s) May 9, gage height, 6.32 ft (1.926 m); minimum, 57 ft^3/s (1.61 m^3/s) Dec. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	365	90	69	85	115	495	815	2770	1560	715	536	448
2	329	98	68	85	115	475	820	2670	1970	813	517	435
3	318	102	70	82	115	682	904	2550	2050	664	480	446
4	311	94	70	81	115	804	977	2540	1890	681	457	431
5	336	96	70	82	113	693	1180	2550	1820	739	442	419
6	340	94	72	84	113	711	1390	2460	1810	747	457	435
7	335	93	75	81	119	625	1310	2440	1910	706	459	475
8	325	91	82	87	122	575	1310	2600	1900	639	457	477
9	305	89	83	88	209	550	1410	3080	1810	616	472	427
10	254	94	81	224	242	546	1480	2840	1700	597	491	435
11	262	96	76	136	246	561	1450	2690	1520	551	475	466
12	238	90	68	379	233	618	1500	2570	1550	507	486	424
13	218	89	72	1140	246	594	1540	2430	1820	486	488	350
14	212	90	78	1650	235	641	1560	2330	1550	481	492	312
15	152	92	87	654	309	711	1650	2310	1020	478	515	292
16	140	92	89	396	382	680	1720	2390	888	494	506	278
17	145	87	78	312	432	620	1790	2370	816	497	475	265
18	126	98	92	265	1600	491	1910	2260	795	492	483	257
19	165	90	92	204	1790	443	2090	2290	810	508	517	267
20	235	78	85	164	1090	442	2300	2370	989	526	510	273
21	199	81	90	165	572	491	2510	2390	1210	523	489	268
22	156	79	87	154	530	458	2610	2270	1120	505	484	287
23	145	77	92	144	475	442	2670	2040	1070	496	487	280
24	143	82	93	143	414	433	2620	2020	994	470	473	291
25	129	90	87	144	377	426	2530	1920	886	505	501	293
26	120	91	96	136	373	461	2620	1790	783	525	495	280
27	115	88	76	113	432	604	2620	1690	705	525	484	274
28	106	74	82	117	480	633	2550	1590	641	521	466	267
29	108	71	81	115	525	644	2610	1580	634	510	458	259
30	110	74	80	111	---	698	2900	1550	675	537	432	278
31	97	---	81	122	---	707	---	1560	---	546	448	---
TOTAL	6539	2650	2502	7743	12119	17954	55346	70910	38896	17600	14932	10389
MEAN	211	88.3	80.7	250	418	579	1845	2287	1297	568	482	346
MAX	365	102	96	1650	1790	804	2900	3080	2050	813	536	477
MIN	97	71	68	81	113	426	815	1550	634	470	432	257
AC-FT	12970	5260	4960	15360	24040	35610	109800	140600	77150	34910	29620	20610

CAL YR 1979 TOTAL 147172 MEAN 403 MAX 1330 MIN 68 AC-FT 291900
WTR YR 1980 TOTAL 257580 MEAN 704 MAX 3080 MIN 68 AC-FT 510900

10136500 WEBER RIVER AT GATEWAY, UTAH—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 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
DEC									
13...	1500	80	580	8.4	.5	1.0	11.6	270	78
JAN									
23...	1630	131	650	7.9	11.0	2.0	9.4	270	42
FEB									
21...	1630	495	465	8.3	4.0	2.5	11.7	190	33
26...	1045	400	520	8.3	3.5	2.5	10.0	250	38
MAR									
18...	1330	456	500	8.0	18.0	3.0	10.4	240	50
APR									
02...	0830	817	450	8.2	2.0	3.0	9.9	230	26
23...	1402	2640	320	7.7	8.5	7.0	10.4	140	28
MAY									
13...	0925	2450	360	8.1	11.0	7.0	9.8	170	27
22...	1442	2250	340	7.9	25.0	11.0	10.2	150	11
JUN									
18...	1000	817	360	7.9	16.5	11.5	10.5	170	6
JUL									
21...	1340	530	440	8.0	21.1	14.0	8.6	210	7
AUG									
12...	0800	456	420	8.1	13.5	14.5	8.1	200	28
20...	1110	515	410	8.0	6.5	13.0	8.4	220	29
SEP									
11...	1215	480	450	8.0	12.0	14.0	8.9	210	27

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
DEC									
13...	76	19	22	15	.6	25	2.9	--	--
JAN									
23...	76	20	27	18	.7	30	3.0	--	--
FEB									
21...	51	16	27	23	.8	31	3.9	--	--
26...	68	19	22	16	.6	25	2.6	--	--
MAR									
18...	68	17	22	16	.6	--	2.5	240	0
APR									
02...	64	16	18	15	.5	--	2.5	--	--
23...	39	9.8	11	15	.4	--	1.9	170	0
MAY									
13...	47	12	11	12	.4	--	2.1	--	--
22...	43	10	11	14	.4	--	1.8	170	0
JUN									
18...	49	12	12	13	.4	--	2.0	200	0
JUL									
21...	60	14	14	13	.4	--	2.5	--	--
AUG									
12...	58	13	13	12	.4	--	2.3	--	--
20...	63	15	16	14	.5	--	2.3	--	--
SEP									
11...	60	14	17	15	.5	--	2.5	--	--

10136500 WEBER RIVER AT GATEWAY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	ALKA-LINITY (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)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS PO4)
OCT												
25...	230	--	47	39	.2	9.0	357	.49	124	.48	.010	.03
DEC												
13...	190	--	31	24	.2	11	304	.41	65.7	.78	.010	.03
JAN												
23...	230	--	48	38	.2	13	367	.50	130	.88	.030	.09
FEB												
21...	160	--	31	37	.2	11	276	.38	369	.55	.080	.25
26...	210	--	34	32	.2	8.2	314	.43	339	.45	.040	.12
MAR												
18...	190	3.8	35	27	.2	11	300	.41	369	.49	.050	.15
APR												
02...	200	--	35	23	.1	7.2	287	.39	633	.31	.010	.03
23...	110	5.4	21	14	.1	8.6	173	.24	1230	.39	.020	.06
MAY												
13...	140	--	24	16	.2	9.4	207	.28	1370	.26	.020	.06
22...	139	3.4	20	13	.2	8.6	193	.26	1170	.26	.050	.15
JUN												
18...	164	4.0	24	18	.1	8.5	226	.31	499	.40	.000	.00
JUL												
21...	200	--	28	20	.4	9.2	270	.37	386	.35	--	--
AUG												
12...	170	--	27	19	.2	8.7	245	.33	302	.32	.020	.06
20...	190	--	30	23	.3	.3	268	.36	373	.87	.030	.09
SEP												
11...	180	--	27	23	.3	9.6	264	.36	342	.42	.030	.09

10137500 SOUTH FORK OGDEN RIVER NEAR HUNTSVILLE, UTAH

LOCATION.--Lat 41°16'07", long 111°40'24", in SE1/4NE1/4SW1/4 sec.12, T.6 N., R.2 E., Weber County, Hydrologic Unit 16020102, on right bank 0.5 mi (0.8 km) downstream from Magpie 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 except for winter period, which are fair. One small diversion above station. Flow regulated by Causey Reservoir since Jan. 4, 1966.

AVERAGE DISCHARGE.--59 years, 112 ft^3/s (3.17 m^3/s), 81,140 acre-ft/yr (100 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, 1,140 ft^3/s (32.3 m^3/s) May 1, gage height, 4.67 ft (1.423 m); minimum, 15 ft^3/s (0.425 m^3/s) Feb. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	36	37	37	37	96	97	1020	454	118	103	87
2	46	35	37	37	37	98	96	1020	609	123	103	87
3	46	35	37	37	35	104	95	992	711	110	104	86
4	47	35	37	37	33	108	99	965	684	106	103	86
5	47	37	37	37	33	106	114	954	667	101	102	86
6	47	36	37	37	33	109	126	929	620	97	102	85
7	47	36	37	34	33	105	119	947	544	94	100	87
8	46	36	38	29	32	102	116	931	493	93	100	86
9	46	36	38	28	33	98	126	1040	455	91	100	85
10	46	36	38	31	33	95	136	975	420	87	99	86
11	40	36	36	47	32	96	136	891	386	90	99	80
12	34	36	36	57	32	98	147	838	352	88	96	63
13	34	36	36	115	33	93	161	754	321	93	93	61
14	34	36	36	161	36	97	184	653	297	113	93	60
15	33	36	36	87	38	105	222	559	275	105	94	59
16	29	36	36	68	36	101	251	478	252	94	94	59
17	30	36	36	61	29	97	278	379	232	94	94	59
18	32	37	36	55	86	96	333	352	219	93	93	59
19	51	36	36	49	111	95	409	344	206	93	97	60
20	50	36	36	45	115	97	510	395	196	94	100	60
21	41	36	37	46	101	103	627	621	185	94	100	60
22	39	36	37	45	90	100	621	685	174	93	100	60
23	38	36	37	44	84	98	683	687	162	96	102	60
24	37	37	37	39	78	97	681	651	151	99	100	60
25	37	37	37	38	81	93	865	589	143	103	100	60
26	37	38	37	37	88	91	989	499	135	104	96	60
27	36	37	36	36	92	90	938	467	129	104	93	60
28	36	37	36	37	98	87	956	442	125	104	93	60
29	36	37	36	36	98	88	984	442	118	103	92	60
30	36	37	36	37	---	91	1020	426	117	103	92	60
31	35	---	36	37	---	94	---	447	---	103	90	---
TOTAL	1239	1087	1135	1521	1697	3028	12119	21372	9832	3083	3027	2081
MEAN	40.0	36.2	36.6	49.1	58.5	97.7	404	689	328	99.5	97.6	69.4
MAX	51	38	38	161	115	109	1020	1040	711	123	104	87
MIN	29	35	36	28	29	87	95	344	117	87	90	59
AC-FT	2460	2160	2250	3020	3370	6010	24040	42390	19500	6120	6000	4130

CAL YR 1979 TOTAL 40844 MEAN 112 MAX 745 MIN 29 AC-FT 81010
WTR YR 1980 TOTAL 61221 MEAN 167 MAX 1040 MIN 28 AC-FT 121400

10139300 WHEELER CREEK NEAR HUNTSVILLE, UTAH

LOCATION.--Lat 41°15'14", long 111°50'32", in SW1/4NW1/4SE1/4 sec.16, T.6 N., R.1 E., Weber County, Hydrologic Unit 16020102, on right bank 150 ft (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.--22 years, 9.56 ft^3/s (0.271 m^3/s), 6,930 acre-ft/yr (8.54 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 440 ft^3/s (12.5 m^3/s) Jan. 14, 1980, gage height, 3.26 ft (0.994 m); from rating curve extended above 350 ft^3/s (9.91 m^3/s); no flow Dec. 5, 1962, July 25, 1977.

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)
Jan. 14	0400	*440	12.5	3.26	0.994
May 9	0930	252	7.14	2.71	.826
May 16	1500	133	3.77	2.33	.710
June 2	1030	313	8.86	2.89	.881

Minimum discharge, 0.37 ft^3/s (0.010 m^3/s) Aug. 3-6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.4	.90	.74	1.1	6.0	4.8	73	37	18	.68	2.6
2	1.5	1.3	.90	.68	.90	5.7	4.8	67	137	19	.61	2.4
3	1.4	1.5	.90	.68	.82	8.4	4.5	63	96	15	.54	2.4
4	1.4	1.3	.83	.68	.75	10	4.8	64	84	12	.48	2.4
5	1.4	1.3	.82	.68	.75	9.9	14	64	71	10	.48	2.3
6	1.4	1.4	.82	.68	.75	9.9	14	65	63	8.8	.75	2.3
7	1.4	1.3	.82	.77	.68	8.8	9.2	71	54	7.3	1.2	2.6
8	1.5	1.2	.82	.87	.61	7.7	9.2	75	54	6.7	1.1	2.3
9	1.5	1.2	.82	.87	.68	7.0	13	161	54	6.0	1.2	2.3
10	1.5	1.2	.73	1.5	.68	7.0	17	88	53	5.4	1.5	2.3
11	1.6	1.3	.68	1.2	.68	7.7	17	79	49	5.1	1.5	2.9
12	1.3	1.2	.68	24	.61	7.3	22	72	46	4.8	1.4	2.4
13	1.0	1.2	.68	94	.61	6.3	25	60	41	4.5	1.4	2.3
14	.99	1.2	.68	147	.61	8.8	30	54	39	2.9	1.3	2.1
15	.99	1.2	.68	34	.54	11	47	52	35	2.0	1.3	2.1
16	.99	1.2	.68	17	.54	9.9	57	69	31	1.5	1.2	2.0
17	.99	1.2	.59	12	.54	8.4	55	61	33	1.2	1.2	2.0
18	1.4	1.3	.59	8.8	.61	8.0	50	50	37	1.4	2.0	2.0
19	3.4	1.4	.59	5.1	.68	7.3	68	42	38	4.8	3.3	2.0
20	3.0	1.3	.63	3.8	.61	8.4	75	40	39	7.7	3.3	2.0
21	1.7	1.2	.65	3.8	.61	9.5	76	44	38	3.8	3.1	2.0
22	1.4	1.1	.58	2.8	.61	7.7	77	47	37	.82	2.9	1.9
23	1.4	1.1	.50	2.8	.61	7.3	80	50	28	.68	2.9	1.8
24	1.3	1.2	.58	2.8	3.1	7.0	68	45	23	.68	2.8	1.8
25	1.3	1.2	.59	3.1	4.5	6.3	61	42	20	.68	2.9	1.8
26	1.2	1.2	.59	2.8	4.3	5.7	62	54	19	.54	2.9	1.8
27	1.3	1.0	.59	2.6	4.8	5.4	57	52	17	.54	2.9	1.7
28	1.3	.89	.63	2.0	5.7	5.1	57	40	15	.48	2.8	1.7
29	1.3	.90	.64	1.4	6.0	5.4	60	38	15	.61	2.6	1.7
30	1.3	.90	.68	1.2	---	5.7	69	40	14	.82	2.6	1.7
31	1.3	---	.79	1.1	---	5.4	---	41	---	.75	2.6	---
TOTAL	44.96	36.29	21.66	381.45	43.98	234.0	1208.3	1863	1317	154.50	57.44	63.6
MEAN	1.45	1.21	.70	12.3	1.52	7.55	40.3	60.1	43.9	4.98	1.85	2.12
MAX	3.4	1.5	.90	147	6.0	11	80	161	137	19	3.3	2.9
MIN	.99	.89	.50	.68	.54	5.1	4.5	38	14	.48	.48	1.7
AC-FT	89	72	43	757	87	464	2400	3700	2610	306	114	126

CAL YR 1979 TOTAL 3651.46 MEAN 10.0 MAX 93 MIN .50 AC-FT 7240
WTR YR 1980 TOTAL 5426.18 MEAN 14.8 MAX 161 MIN .48 AC-FT 10760

10140800 WILLARD BAY RESERVOIR NEAR PLAIN CITY, UTAH

LOCATION.--Lat 41°21'17", long 112°04'24", in SE1/4NE1/4SW1/4 sec.9, T.7 N., R.2 W., Box Elder County, Hydrologic Unit 16020102, on left bank of inlet channel 900 ft (274 m) downstream from pumping plant, 1.5 mi (2.4 km) west of the interchange on U.S. Highway 89 at Utah Hot Springs, and 3.4 mi (5.5 km) north of Plain City.

PERIOD OF RECORD.--December 1964 to September 1980 (discontinued).

GAGE.--Inclined staff gage in concrete on northeast edge of boat ramp, readings were made on days shown. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service).

REMARKS.--Reservoir is formed by earth-fill dike between elevation 4,199.0 ft (1,279.855 m) (streambed at dam axis) and 4,235.0 ft (1,290.828 m) (crest of dam). Storage began Nov. 3, 1964 when reservoir was completed. Capacity, 193,300 acre-ft (238 hm3) between elevations 4,205.00 ft (1,281.684 m) (top of inactive storage) and 4,225.50 ft (1,287.932 m) (top of active storage) above mean sea level. Dead storage, 16,850 acre-ft (20.8 hm^3). Figures given herein represent usable contents. Water is used for irrigation, recreation, and fish and wildlife propagation on the Weber Basin Project. This reservoir provides off-channel storage of water diverted from the Weber River 0.1 mi (0.2 km) downstream from the mouth of Ogden River, also water for irrigation will be pumped back to point of distribution through this same channel. Figures given represent usable storage.

COOPERATION.--Gage-height record and capacity table furnished by Water and Power Resources Service.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 193,300 acre-ft (238 hm^3) May 23-31, June 3-10, 12, 14, 15, 17, 1967, May 25, 1968; minimum observed contents since first year of storage, 70,600 acre-ft (87.1 hm^3) Dec. 5, 1969, elevation, 4,213.01 ft (1,284.125 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 188,300 acre-ft (232 hm^3) Feb. 22, 25, elevation, 4,225.00 ft (1,287.780 m); minimum contents observed, 162,100 acre-ft (200 hm^3) Nov.13, elevation, 4,222.36 ft (1,286.975 m).

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

4,222	158,600	4,244	178,400
4,223	168,500	4,225	188,300

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164900	---	---	---	---	---	---	---	---	---	---	171500
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	163100	---	---	184200	---	---	185400	---	---	---
4	164300	162500	---	---	185000	---	---	---	---	---	175600	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	185100	---	---	---
7	---	---	---	167700	---	---	182000	---	---	180400	---	170300
8	163700	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	182800	---	---	---
10	---	---	163300	---	---	185200	---	---	---	---	---	---
11	163200	---	---	---	185100	---	---	---	---	---	174900	---
12	---	---	---	---	---	---	---	178800	---	---	---	---
13	---	162100	---	---	---	---	---	---	---	---	---	---
14	---	---	---	171500	---	---	179500	---	---	---	---	---
15	162700	---	---	---	---	---	---	---	---	---	---	170300
16	---	---	---	---	---	---	---	---	182200	---	---	---
17	---	---	163900	---	---	185100	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	162500	---	---	---	---	---	180000	---	---	172900	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	164700	177200	---	---	177400	---	---	179900	---	---
22	162900	---	---	---	188300	---	---	---	---	---	---	169300
23	---	---	---	---	---	---	---	---	183300	---	---	---
24	---	---	---	---	---	184200	176500	---	---	---	---	---
25	---	---	---	---	188300	---	---	---	---	---	171800	---
26	---	162800	---	---	---	---	---	183200	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	182500	---	---	177100	---	---	178900	---	---
29	---	---	---	---	184200	---	---	183600	---	---	---	168400
30	---	163000	---	---	---	---	177400	---	181900	---	---	168400
31	163000	---	166500	183600	---	183400	---	184000	---	177500	171500	---
(†)	4222.45	4222.45	4222.80	4224.52	4224.58	4224.50	4223.90	4224.56	4224.35	4223.91	4223.31	4222.99
(‡)	-2100	0	+3500	+17100	+600	-800	-6000	+6600	-2100	-4400	-6000	-3100

CAL YR 1979 . . . . . +6,700
WTR YR 1980 . . . . . +3,300

(†) Elevation, in feet, at end of month
(‡) Change in contents

10141000 WEBER RIVER NEAR PLAIN CITY, UTAH

LOCATION.--Lat 41°16'42", long 112°05'28", in NW1/4NW1/4NE1/4 sec.8, T.6 N., R.2 W., Weber County, Hydrologic Unit 16020102, on upstream side of right highway bridge abutment, on State Highway 40, 1 mi (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) National Geodetic Vertical Datum 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 generally 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.--15 years (1966-80), 482 ft^3/s (13.65 m^3/s), 349,200 acre-ft/yr (431 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, 3,610 ft^3/s (102 m^3/s) June 3, gage height, 15.26 ft (4.651 m); minimum, 30 ft^3/s (0.850 m^3/s) Aug. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	139	118	87	211	812	686	3230	2000	225	63	75
2	88	156	137	94	213	794	582	3060	2360	330	54	57
3	62	167	139	87	219	972	616	2930	3490	274	49	153
4	56	160	142	82	221	1350	738	2840	3450	189	45	51
5	56	169	140	84	219	1180	935	2840	3240	212	38	44
6	78	155	136	84	211	1180	1240	2800	2950	211	38	44
7	73	149	139	85	214	1070	1230	2770	2740	186	59	121
8	66	147	149	69	212	972	1610	2660	2720	148	42	184
9	55	147	152	99	243	918	1720	3120	2540	118	39	162
10	55	146	140	170	297	892	1810	3460	1950	68	44	178
11	73	148	75	166	318	905	1780	3100	1470	58	51	268
12	98	153	60	186	322	855	2010	3040	1220	86	43	330
13	97	140	54	1090	327	584	2070	3020	1450	92	41	333
14	96	141	58	1750	356	576	2110	2850	1460	61	40	271
15	134	143	64	964	534	662	2220	2620	957	50	44	260
16	216	148	74	325	548	670	2300	2000	698	53	53	247
17	239	148	74	174	556	606	2340	2250	760	64	45	219
18	230	194	60	215	993	538	2460	2060	604	56	48	174
19	316	164	71	191	2340	442	2580	2120	474	49	62	163
20	436	162	77	150	1470	426	2810	2160	483	94	118	170
21	299	154	71	133	1040	502	3020	2590	470	103	121	148
22	187	146	93	134	830	474	3110	2600	455	58	109	164
23	157	150	66	119	948	446	3290	2500	440	51	94	158
24	152	150	60	138	828	442	3360	2960	415	46	59	135
25	150	165	62	245	746	441	3110	3260	352	45	51	151
26	129	175	60	246	706	428	3140	3130	246	56	81	142
27	140	166	64	234	718	522	3140	3020	179	57	49	122
28	134	150	57	220	784	584	3090	2630	104	52	48	115
29	157	122	83	230	812	580	3020	2260	60	47	50	108
30	160	111	78	208	---	638	3220	2220	132	46	44	112
31	162	---	82	205	---	648	---	1980	---	60	49	---
TOTAL	4460	4565	2835	8264	17436	22109	65347	84080	39869	3245	1771	4859
MEAN	144	152	91.5	267	601	713	2178	2712	1329	105	57.1	162
MAX	436	194	152	1750	2340	1350	3360	3460	3490	330	121	333
MIN	55	111	54	69	211	426	582	1980	60	45	38	44
AC-FT	8850	9050	5620	16390	34580	43850	129600	166800	79080	6440	3510	9640

CAL YR 1979 TOTAL 86324 MEAN 237 MAX 1310 MIN 35 AC-FT 171200
WTR YR 1980 TOTAL 258840 MEAN 707 MAX 3490 MIN 38 AC-FT 513400

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.
INSTRUMENTATION.--Specific conductance recorder and temperature recorder since Oct. 1, 1975.

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, 910 micromhos Jan. 17; minimum, 280 micromhos Dec. 6.
WATER TEMPERATURES: Maximum, 25°C July 18; minimum, 0.0°C Jan. 31.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (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											
24...	0800	158	770	7.8	4.5	11.0	--	8.0	--	--	--
31...	1500	168	710	8.1	7.0	8.0	4.3	8.7	2.1	K4	K10
DEC											
04...	1200	140	660	8.1	.0	3.0	5.8	10.4	2.6	K1	K5
JAN											
04...	1530	88	760	7.9	5.5	6.0	5.6	8.8	4.1	<1	<1
30...	1630	211	640	7.7	-10.0	2.0	6.8	12.8	1.2	K4	--
FEB											
12...	1430	286	520	8.4	1.5	3.0	4.8	13.4	1.6	K3	K7
MAR											
12...	1105	952	480	7.8	2.0	5.5	28	9.9	1.3	K16	K24
APR											
01...	1155	756	500	8.2	6.0	5.5	--	11.2	--	--	--
09...	1125	1730	355	8.3	10.5	6.0	29	10.5	.76	400	100
MAY											
12...	1145	3010	320	8.1	10.0	7.5	--	9.7	--	--	--
21...	1023	2650	320	8.2	24.5	12.0	44	8.4	1.5	150	200
25...	1446	3300	580	8.2	11.5	5.0	--	11.2	--	--	--
JUN											
24...	1040	426	450	7.6	21.0	15.0	12	7.6	1.2	130	60
JUL											
10...	0935	69	710	7.7	25.0	20.0	--	5.6	3.6	100	170
31...	0940	20	870	7.7	--	20.0	--	5.6	--	--	--
AUG											
05...	1137	35	700	7.8	26.5	22.0	10	5.8	2.8	K50	K50
SEP											
18...	1045	183	660	8.0	25.5	16.5	20	5.9	2.6	160	120

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
OCT											
24...	260	10	68	22	50	29	1.3	58	8.3	--	--
31...	250	12	65	21	43	27	1.2	50	7.4	290	0
DEC											
04...	270	32	72	23	55	39	1.4	63	7.7	290	0
JAN											
04...	270	24	70	23	61	42	1.6	69	8.1	300	0
30...	240	19	63	20	43	28	1.2	49	5.6	270	0
FEB											
12...	240	12	65	19	35	24	1.0	39	4.4	270	4
MAR											
12...	230	41	63	18	24	18	.7	28	4.0	240	0
APR											
01...	210	23	59	16	24	19	.7	--	3.5	--	--
09...	180	0	52	13	15	15	.5	--	2.8	220	1
MAY											
12...	140	19	39	10	12	16	.4	--	2.6	--	--
21...	140	0	40	10	12	15	.4	--	2.0	200	0
25...	250	37	66	20	34	23	.9	39	4.8	--	--
JUN											
24...	190	10	53	15	22	19	.7	--	3.4	220	0
JUL											
10...	250	11	66	21	46	28	1.3	--	7.3	--	--
31...	280	0	57	34	75	35	1.9	--	17	--	--
AUG											
05...	230	25	61	20	48	30	1.4	--	6.5	--	--
SEP											
18...	230	25	61	20	48	30	1.4	--	6.7	--	--

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 1979 TO SEPTEMBER 1980

DATE	ALKALINITY (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										
24...	250	--	42	72	.2	12	--	432	.59	184
31...	238	3.7	39	68	.2	9.9	414	402	.56	188
DEC										
04...	238	3.7	83	67	.2	11	427	469	.58	161
JAN										
04...	246	6.0	37	84	.2	12	455	452	.62	108
30...	221	8.6	32	64	.2	10	395	375	.54	225
FEB										
12...	228	1.8	36	60	.1	8.9	345	370	.47	266
MAR										
12...	190	6.1	28	36	.2	8.2	292	298	.40	751
APR										
01...	190	--	30	32	.1	7.1	--	288	.39	588
09...	182	1.6	28	20	.1	6.9	250	249	.34	1170
MAY										
12...	120	--	19	16	.1	8.8	--	181	.25	1470
21...	164	2.1	45	11	.2	8.7	190	229	.26	1360
25...	210	--	32	50	.2	9.5	--	347	.47	3090
JUN										
24...	180	8.8	26	30	.2	7.9	273	268	.37	314
JUL										
10...	240	--	33	67	.4	12	402	404	.55	74.9
31...	340	--	48	63	.5	25	--	526	.72	27.8
AUG										
05...	210	--	30	72	.2	12	384	385	.52	36.3
SEP										
18...	210	--	30	67	.2	12	418	377	.57	207

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA 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)
OCT									
24...	--	1.6	--	--	--	--	--	--	--
31...	1.2	1.2	.160	.170	.19	.22	.84	.71	1.0
DEC									
04...	1.5	1.6	.160	.330	.19	.43	.94	.67	1.1
JAN									
04...	1.9	1.9	.440	.410	.53	.53	3.0	1.8	3.4
30...	1.1	.95	.090	.130	.11	.17	1.2	.16	1.3
FEB									
12...	.87	.85	.180	.160	.22	.21	.64	.60	.82
MAR									
12...	.61	.63	.120	.130	.15	.17	.87	.58	.99
APR									
01...	--	.55	--	--	--	--	--	--	--
09...	.35	.36	.080	.060	.10	.08	.76	.34	.84
MAY									
12...	--	.33	--	--	--	--	--	--	--
21...	.39	.31	.040	.060	.05	.08	.96	1.1	1.0
25...	--	.93	--	--	--	--	--	--	--
JUN									
24...	.82	.40	.230	.190	.28	.24	.69	.63	.92
JUL									
10...	1.6	1.5	.430	.400	.43	.52	1.2	1.7	1.6
31...	--	.47	--	--	--	--	--	--	--
AUG									
05...	2.4	1.9	.130	.240	.16	.31	1.3	.67	1.4
SEP									
18...	1.2	1.3	.610	.630	.74	.81	1.1	.67	1.7

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITROGEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)
OCT									
24...	--	--	--	--	--	--	--	1.000	3.1
31...	.12	.88	2.2	9.7	1.300	4.0	1.000	--	--
DEC									
04...	.10	1.0	2.6	12	1.300	4.0	1.200	--	--
JAN									
04...	1.2	2.2	5.3	23	2.000	6.1	1.900	--	--
30...	1.0	.29	2.4	11	.950	2.9	.810	--	--
FEB									
12...	.06	.76	1.7	7.5	.770	2.4	.610	--	--
MAR									
12...	.28	.71	1.6	7.1	.330	1.0	.200	--	--
APR									
01...	--	--	--	--	--	--	--	.220	.67
09...	.44	.40	1.2	5.3	.320	.98	.150	--	--
MAY									
12...	--	--	--	--	--	--	--	.230	.71
21...	.00	1.2	1.4	6.2	.310	.95	.110	--	--
25...	--	--	--	--	--	--	--	.290	.89
JUN									
24...	.10	.82	1.7	7.7	.280	.86	.250	--	--
JUL									
10...	.00	2.1	3.2	14	1.200	3.7	1.200	--	--
31...	--	--	--	--	--	--	--	1.000	.34
AUG									
05...	.49	.91	3.8	17	.970	3.0	.810	--	--
SEP									
18...	.40	1.3	2.9	13	1.400	4.3	.920	--	--

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)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)
OCT											
31...	1500	4	3	1	300	200	100	0	0	<1	0
DEC											
04...	1200	3	1	2	400	300	100	0	0	<1	0
FEB											
12...	1430	2	0	2	0	0	100	0	0	<1	0
MAY											
21...	1023	2	1	1	100	20	80	0	--	<1	0
AUG											
05...	1137	3	0	3	100	0	100	1	--	<1	0

DATE	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	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)
OCT										
31...	0	0	0	<3	5	5	0	270	250	20
DEC										
04...	0	0	0	<3	3	0	3	360	340	20
FEB										
12...	0	0	0	<3	6	5	1	350	340	<10
MAY										
21...	0	2	--	<3	15	10	5	4300	4300	40
AUG										
05...	0	0	--	<3	8	6	2	460	440	20

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
OCT										
31...	6	6	0	40	10	30	.0	.0	.0	4
DEC										
04...	15	9	6	50	10	40	.0	.0	.0	4
FEB										
12...	4	4	0	50	10	40	.1	.1	.0	0
MAY										
21...	57	57	0	150	130	20	.2	.1	.1	7
AUG										
05...	11	11	0	120	60	60	.2	.2	.0	10

DATE	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	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										
31...	3	1	0	0	0	0	0	10	0	10
DEC										
04...	3	1	0	0	0	0	0	30	10	20
FEB										
12...	0	3	0	0	0	0	0	20	10	10
MAY										
21...	4	3	0	0	0	0	0	80	80	5
AUG										
05...	7	3	0	0	0	0	0	20	20	4

DATE	TIME	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)
OCT		
31...	1500	0
DEC		
04...	1200	0
JAN		
04...	1530	1
FEB		
12...	1430	0
MAR		
12...	1105	2
MAY		
21...	1023	0
JUN		
24...	1040	0
AUG		
05...	1137	0
SEP		
18...	1045	0

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)
OCT				
31...	1500	--	5.5	.6
DEC				
04...	1200	--	11	.7
JAN				
04...	1530	15	--	--
30...	1630	9.5	--	--
FEB				
12...	1430	--	11	1.1
MAR				
12...	1105	57	--	--
APR				
09...	1125	7.1	--	--
MAY				
21...	1023	--	5.7	.8
JUN				
24...	1040	43	--	--
AUG				
05...	1137	--	8.9	--
SEP				
18...	1045	8.3	--	--

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	PCB TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL (UG/L)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDT, TOTAL (UG/L)
DEC											
04...	1200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB											
12...	1430	ND	ND	--	ND	--	ND	--	ND	--	ND

DATE	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIAZINON, TOTAL (UG/L)	DIAZINON, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIELDRIN TOTAL (UG/L)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)
DEC											
04...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB											
12...	--	ND	--	ND	--	ND	--	ND	--	ND	--

DATE	HEPTACHLOR EPOXIDE TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	MALATHION, TOTAL (UG/L)	MALATHION, TOTAL IN BOTTOM MATERIAL (UG/KG)	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)	METHYL PARATHION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRITHION, TOTAL (UG/L)
DEC										
04...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB										
12...	ND	--	ND	--	ND	--	ND	ND	--	ND

DATE	METHYL TRITHION, TOT. IN BOTTOM MATL. (UG/KG)	PARATHION, TOTAL (UG/L)	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE, TOTAL (UG/L)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
DEC										
04...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB										
12...	--	ND	--	ND	--	ND	--	--	--	--

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)
OCT						
31...	1500	21.5	19.1	33.2	3.71	72.3
AUG						
05...	1137	20.2	17.0	23.7	2.79	135

ND Material specifically analyzed for but not detected.

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEC 4,79	MAR 12,80	MAY 21,80	JUN 24,80
TIME	1200	1105	1023	1040
TOTAL CELLS/ML	2500	400	630	570
DIVERSITY: DIVISION	1.3	1.4	0.4	0.5
.CLASS	1.3	1.4	0.4	0.5
..ORDER	1.9	1.6	0.4	0.9
...FAMILY	2.6	2.7	0.4	1.9
....GENUS	3.0	2.7	0.4	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	--	-	--	-	--	-	--	-
...CHLOROCOCCACEAE								
....CHLOROCOCCUM	46	2	--	-	--	-	--	-
...COELASTRACEAE								
....COELASTRUM	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE								
....PEDIASTRUM	--	-	--	-	--	-	--	-
...MICRACTINIACEAE								
....GOLENKINIA	--	-	--	-	--	-	--	-
....MICRACTINIUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	10	3	13	2	--	-
....CHLORELLA	91	4	--	-	--	-	--	-
....CHODATELLA	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
....OOCYSTIS	15	1	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-	--	-
....TREUBARIA	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	--	-	--	-
....SCENEDESMUS	--	-	--	-	--	-	52	9
....TETRASTRUM	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	15	1	10	3	--	-	13	2
...PHACOTACEAE								
....PTEROMONAS	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	670#	27	15	4	--	-	26	5
....MELOSIRA	--	-	--	-	--	-	--	-
....STEPHANODISCUS	--	-	--	-	26	4	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	46	2	--	-	--	-	--	-
....RHOICOSPHENIA	--	-	5	1	--	-	--	-
...CYMBELLACEAE								
....CYMBELLA	--	-	5	1	--	-	--	-
...DIATOMACEAE								
....DIATOMA	46	2	20	5	--	-	--	-
....OPEPHORA	15	1	--	-	--	-	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	30	1	--	-	--	-	--	-
....SYNEDRA	76	3	10	3	--	-	26	5
...GOMPHONEMATACEAE								
....GOMPHONEMA	15	1	5	1	--	-	--	-
...NAVICULACEAE								
....NAVICULA	330	14	130#	33	--	-	77	14
...NITZSCHIACEAE								
....NITZSCHIA	230	9	35	9	--	-	350#	61
...SURIRELLACEAE								
....SURIRELLA	--	-	10	3	--	-	26	5
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	5	1	--	-	--	-

See footnotes at end of table.

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	DEC 4,79		MAR 12,80		MAY 21,80		JUN 24,80	
TIME	1200		1105		1023		1040	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	--	-	--	-
..HORMOGONALES								
...OSCILLATORIACEAE								
....LYNGBYA	--	-	--	-	--	-	--	-
....OSCILLATORIA	420#	17	130#	33	590#	94	--	-
....SCHIZOTHRIX	390#	16	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	--	-	--	-
....EUTREPTIA	15	1	--	-	--	-	--	-
....PHACUS	--	-	5	1	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-

DATE	JUL 10,80	AUG 5,80	SEP 18,80
TIME	0935	1137	1045
TOTAL CELLS/ML	2800	11000	4200
DIVERSITY: DIVISION	1.7	1.4	1.1
.CLASS	1.7	1.4	1.1
..ORDER	2.4	1.7	1.4
...FAMILY	2.8	2.3	1.6
....GENUS	3.1	2.6	2.3

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...CHARACIACEAE						
....SCHROEDERIA	--	-	81	1	*	0
...CHLOROCOCCACEAE						
....CHLOROCOCCUM	--	-	--	-	--	-
...COELASTRACEAE						
....COELASTRUM	--	-	5300#	49	--	-
...HYDRODICTYACEAE						
....PEDIASTRUM	--	-	--	-	310	7
...MICRACTINIACEAE						
....GOLENKINIA	29	1	--	-	*	0
....MICRACTINIUM	130	5	--	-	--	-
...OOCYSTACEAE						
....ANKISTRODESMUS	29	1	--	-	--	-
....CHLORELLA	--	-	--	-	--	-
....CHODATELLA	--	-	*	0	--	-
....DICTYOSPHAERIUM	--	-	--	-	130	3
....OOCYSTIS	43	2	200	2	52	1
....SELENASTRUM	--	-	120	1	--	-
....TETRAEDRON	--	-	*	0	--	-
....TREUBARIA	29	1	--	-	--	-
...SCENEDESMACEAE						
....ACTINASTRUM	140	5	--	-	--	-
....SCENEDESMUS	110	4	570	5	--	-
....TETRASTRUM	--	-	160	2	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	220	8	280	3	52	1
...PHACOTACEAE						
....PTEROMONAS	14	1	--	-	--	-
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	460#	16	1700#	16	65	2
....MELOSIRA	29	1	440	4	78	2
....STEPHANODISCUS	--	-	--	-	--	-
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	*	0

See footnotes at end of table.

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	JUL 10,80 0935		AUG 5,80 1137		SEP 18,80 1045	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
....RHOICOSPHENIA	--	-	--	-	--	-
...CYMBELLACEAE						
....CYMBELLA	--	-	--	-	--	-
...DIATOMACEAE						
....DIATOMA	--	-	--	-	--	-
....OPEPHORA	--	-	--	-	--	-
...FRAGILARIACEAE						
....ASTERIONELLA	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	--	-
...GOMPHONEMATACEAE						
....GOMPHONEMA	29	1	--	-	--	-
...NAVICULACEAE						
....NAVICULA	86	3	81	1	290	7
...NITZSCHIACEAE						
....NITZSCHIA	140	5	120	1	52	1
...SURIRELLACEAE						
....SURIRELLA	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
.CRYPTOPHYCEAE						
..CRYPTOMONADALES						
...CRYPTOMONADACEAE						
....CRYPTOMONAS	--	-	160	2	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	190	7	280	3	52	1
..HORMOGONALES						
...OSCILLATORIACEAE						
....LYNGBYA	--	-	--	-	860#	20
....OSCILLATORIA	1100#	38	1100	10	2200#	53
....SCHIZOTHRIX	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....EUGLENA	43	2	--	-	*	0
....EUTREPTIA	--	-	--	-	--	-
....PHACUS	--	-	--	-	--	-
....TRACHELOMONAS	29	1	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	630	440	740	850	---	530	540	305	370	490	---	---
2	660	370	750	890	640	540	550	290	320	495	---	520
3	750	610	710	790	---	510	---	---	320	510	630	---
4	---	590	670	780	670	510	510	290	---	600	660	---
5	730	370	650	790	660	550	540	290	320	---	670	610
6	---	670	280	780	640	---	500	295	330	570	660	650
7	680	600	---	820	660	560	460	285	330	---	610	640
8	690	610	---	820	630	540	445	---	330	600	580	540
9	720	650	620	760	640	540	430	---	340	---	610	540
10	730	660	720	780	---	540	435	305	---	690	650	560
11	680	650	300	---	610	520	430	320	370	710	620	560
12	650	590	790	---	600	530	410	320	380	730	570	550
13	650	---	420	420	580	550	400	335	370	630	600	---
14	660	---	830	320	580	560	400	345	370	620	630	590
15	760	390	860	770	520	520	395	380	420	650	640	570
16	620	620	800	520	---	520	390	375	395	700	610	630
17	630	360	690	910	580	---	380	370	395	670	580	630
18	700	580	---	---	480	550	370	365	410	630	600	670
19	700	410	780	790	420	550	350	360	430	---	630	650
20	610	610	450	810	400	560	340	350	430	640	510	---
21	720	330	---	830	530	530	315	320	420	540	520	660
22	760	620	830	880	580	540	310	320	440	---	---	---
23	780	---	840	890	590	560	305	320	---	620	540	660
24	780	670	880	860	600	---	---	---	485	630	550	710
25	790	610	800	640	610	560	315	320	500	650	560	670
26	780	360	630	630	580	560	305	320	650	680	580	660
27	750	480	850	650	570	530	310	315	710	620	560	---
28	---	---	900	650	550	530	305	360	690	610	600	710
29	760	720	850	670	530	530	300	335	730	620	---	760
30	730	500	800	650	---	520	295	365	650	---	620	720
31	720	---	860	670	---	---	---	370	---	660	---	---
MEAN	708	541	715	736	578	539	394	331	441	623	600	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	8.5	1.5	4.5	---	8.0	7.0	11.0	14.0	19.5	---	---
2	17.5	8.0	3.0	5.5	5.0	7.0	6.5	12.0	11.0	19.0	---	20.0
3	16.0	8.0	3.0	5.5	---	6.5	---	---	13.5	20.0	21.0	---
4	---	8.5	4.0	6.0	---	7.0	9.0	12.5	---	23.0	23.0	---
5	16.0	9.5	4.5	7.5	---	5.5	7.0	12.5	14.0	---	22.0	20.0
6	---	10.0	6.0	5.5	---	---	8.0	11.5	14.5	20.5	22.0	23.0
7	16.5	8.0	---	5.0	---	7.0	6.0	10.0	14.0	---	21.0	20.0
8	16.0	7.0	---	6.0	---	5.5	8.0	---	16.5	20.0	23.0	18.0
9	15.0	6.5	5.5	5.5	---	7.0	8.0	---	15.0	---	23.0	19.0
10	16.0	7.5	2.0	4.5	---	6.5	7.0	9.0	---	21.0	22.0	17.0
11	15.5	5.5	1.0	---	---	8.0	8.0	9.5	16.5	21.0	22.0	17.0
12	---	7.0	3.0	---	3.5	6.5	9.0	7.5	16.0	23.0	21.0	17.0
13	15.0	---	3.5	4.5	4.5	7.5	7.0	10.5	15.0	21.0	24.0	---
14	15.0	---	5.5	4.0	6.0	11.0	8.0	11.5	14.0	21.0	22.0	17.0
15	15.0	5.5	4.5	6.5	5.5	8.0	8.0	11.5	15.5	21.0	20.0	18.0
16	16.0	6.0	3.0	4.0	---	5.5	9.0	10.0	16.5	22.0	20.0	18.0
17	13.0	7.0	3.5	8.0	6.5	---	9.5	9.0	18.5	23.0	20.0	19.0
18	12.5	6.0	---	---	6.5	7.5	10.5	13.0	18.5	25.0	19.0	19.0
19	10.0	6.5	3.5	3.5	5.5	8.0	10.0	13.5	21.0	---	19.0	16.0
20	8.5	5.0	4.5	4.0	6.0	8.5	12.0	14.0	19.0	23.0	17.0	---
21	9.0	5.5	---	6.0	5.0	4.5	12.0	15.0	17.0	21.0	20.0	16.0
22	11.0	4.0	4.5	5.0	7.0	5.5	10.5	15.0	17.5	---	---	---
23	12.5	---	3.5	6.0	5.5	7.0	9.0	13.5	---	22.0	19.0	15.0
24	12.0	4.0	5.5	5.5	---	---	---	---	20.5	23.0	21.0	16.0
25	13.5	4.5	6.0	4.5	7.5	5.0	11.5	9.5	21.0	22.0	19.0	16.0
26	13.0	4.5	4.0	4.0	7.0	6.5	12.0	9.5	20.0	23.0	19.0	17.0
27	12.0	4.0	3.0	2.5	8.0	6.0	11.5	11.5	18.0	22.0	19.0	---
28	---	---	4.5	2.0	7.0	8.0	12.0	14.0	12.0	23.0	20.0	18.0
29	9.0	4.0	4.5	3.0	7.0	8.0	10.5	12.0	20.0	23.0	---	17.0
30	9.0	3.0	3.5	.5	---	5.0	10.0	13.5	20.0	---	20.0	18.0
31	8.0	---	5.0	.0	---	---	---	14.0	---	22.0	---	---
MEAN	13.5	6.5	4.0	4.5	---	7.0	9.0	11.5	16.5	22.0	20.5	---

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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						
31...	1500	168	8.0	14	69	6.4
DEC						
04...	1200	140	3.0	15	75	5.7
JAN						
04...	1530	88	6.0	12	92	2.9
30...	1630	211	2.0	34	56	19
FEB						
12...	1430	286	3.0	13	91	10
MAR						
12...	1105	952	5.5	92	87	236
APR						
09...	1125	1730	6.0	397	29	1850
MAY						
21...	1023	2650	12.0	809	20	5790
JUL						
10...	0935	69	20.0	26	55	4.8
AUG						
05...	1137	35	22.0	17	58	1.6
SEP						
18...	1045	183	16.5	91	96	45

10141040 HOOPER SLOUGH NEAR HOOPER, UTAH

LOCATION.--Lat 41°11'26", long 112°09'07", in NE1/4NE1/4NW1/4 sec.11, T.5 N., R.3 W., Weber County, Hydrologic Unit 16020102, on upstream end of left wingwall of bridge-covered Parshall flume, 0.5 mi (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 September 1979.

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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83 ft^3/s (2.35 m^3/s) March 26, 1975, gage height, 3.17 ft (0.966 m); minimum, 1.4 ft^3/s (0.040 m^3/s) April 13, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 65 ft^3/s (1.84 m^3/s) June 3, gage height, 2.84 ft (0.866 m); minimum, 4.1 ft^3/s (0.116 m^3/s) April 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	5.4	6.3	5.6	8.7	13	10	12	15	26	21	28
2	16	5.0	6.5	5.6	8.7	13	9.0	9.5	21	36	16	24
3	16	5.1	6.7	5.6	8.5	18	7.9	12	57	29	16	23
4	20	5.4	6.8	5.8	8.5	42	7.9	11	44	26	25	21
5	14	7.0	6.8	6.0	8.5	35	7.4	9.3	29	33	24	20
6	14	7.0	7.2	6.5	8.7	39	7.2	10	24	26	22	13
7	13	7.0	7.4	6.5	8.5	33	7.0	11	21	24	19	17
8	15	7.0	8.2	6.3	7.9	22	6.7	12	18	28	22	33
9	19	7.0	8.4	7.2	8.5	18	7.0	14	17	25	16	32
10	18	6.8	8.4	15	7.9	15	6.3	15	13	21	23	38
11	13	6.5	7.2	12	7.4	14	5.8	13	17	16	20	40
12	15	6.1	6.7	17	7.4	13	5.6	16	19	19	21	43
13	14	6.7	6.7	32	7.7	12	5.6	14	21	17	17	41
14	12	6.7	6.3	43	9.5	11	5.4	15	27	16	17	32
15	15	6.5	6.1	39	44	10	5.6	14	30	19	19	28
16	17	6.5	6.3	35	42	9.5	5.4	14	23	20	29	23
17	18	6.5	5.9	31	35	8.7	5.1	20	20	21	26	23
18	18	7.6	5.7	29	39	8.7	5.1	19	16	18	21	20
19	14	7.8	6.1	21	54	8.5	4.9	15	22	22	32	21
20	16	7.4	5.2	16	47	8.2	4.5	13	28	22	24	24
21	13	6.8	5.0	14	39	8.7	4.3	20	30	32	22	20
22	9.5	6.8	5.4	13	38	10	4.9	17	30	20	18	26
23	8.2	6.8	5.0	12	36	9.8	5.8	15	22	17	22	27
24	8.0	6.5	5.7	11	42	8.7	12	15	21	19	22	24
25	7.6	6.8	5.4	11	32	9.8	11	22	20	22	20	26
26	6.8	7.2	5.4	10	19	10	11	23	22	12	23	30
27	6.3	7.6	5.9	10	18	9.5	6.5	16	19	18	22	23
28	6.1	6.8	6.4	10	16	9.0	9.5	13	22	22	21	16
29	5.9	6.5	6.0	8.5	14	8.2	8.7	14	27	21	21	20
30	5.6	6.3	5.8	9.0	---	7.9	12	15	24	26	23	22
31	5.7	---	5.6	8.2	---	8.7	---	13	---	20	23	---
TOTAL	399.7	199.1	196.5	461.8	631.4	451.9	215.1	451.8	719	693	667	778
MEAN	12.9	6.64	6.34	14.9	21.8	14.6	7.17	14.6	24.0	22.4	21.5	25.9
MAX	20	7.8	8.4	43	54	42	12	23	57	36	32	43
MIN	5.6	5.0	5.0	5.6	7.4	7.9	4.3	9.3	13	12	16	13
AC-FT	793	395	390	916	1250	896	427	896	1430	1370	1320	1540

CAL YR 1979 TOTAL 5322.2 MEAN 14.6 MAX 44 MIN 4.2 AC-FT 10560
WTR YR 1980 TOTAL 5864.3 MEAN 16.0 MAX 57 MIN 4.3 AC-FT 11630

10141400 HOWARD SLOUGH AT HOOPER, UTAH

LOCATION.--Lat 41°08'25", long 112°07'17", in SW1/4SW1/4NE1/4 sec.25, T.5 N., R.3 W., Davis County, Hydrologic Unit 16020102, on upstream end of left wingwall of bridge on State Highway 37, 1.5 mi (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 except those for periods of no gage-height record, Mar. 17 to Apr. 16 and July 15 to Sept. 10, which are fair.

AVERAGE DISCHARGE.--9 years, 27.2 ft^3/s (0.770 m^3/s), 19,710 acre-ft/yr (24.3 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) April 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)
Jan. 14	1200	134	3.79	2.53	0.771
Feb. 15	1400	138	3.91	2.58	.788
June 3	1100	*179	5.07	3.03	.924

Minimum discharge, 3.4 ft^3/s (0.096 m^3/s) April 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	9.8	6.5	7.4	9.4	19	12	16	34	30	19	28
2	25	10	6.5	7.8	9.8	19	12	9.4	71	33	19	27
3	26	9.1	6.5	7.6	9.7	58	11	9.1	159	29	18	24
4	22	11	6.5	7.9	9.6	83	10	8.2	75	32	26	22
5	25	18	6.5	8.5	9.6	42	9.9	7.6	43	34	26	16
6	26	13	6.4	9.1	9.6	88	9.7	5.7	38	34	24	13
7	24	12	7.4	8.7	9.6	40	9.4	13	38	27	21	13
8	23	12	13	9.1	9.2	30	9.3	15	38	29	23	33
9	21	11	13	20	9.7	26	9.1	35	30	25	20	42
10	33	11	11	40	9.6	23	9.6	48	21	22	17	54
11	26	10	9.9	14	9.4	22	9.3	38	20	21	19	62
12	23	10	9.5	57	9.1	20	8.8	56	28	26	19	75
13	27	11	9.0	48	9.1	19	8.5	40	34	21	17	54
14	22	9.9	9.5	98	29	18	8.2	52	22	22	17	46
15	18	9.5	10	54	119	17	8.0	48	31	21	21	41
16	10	9.6	11	46	39	16	7.6	55	36	22	30	33
17	7.8	11	10	37	43	15	7.0	69	29	23	28	27
18	7.6	17	8.0	32	56	15	6.7	56	24	22	23	26
19	26	11	8.3	21	96	15	6.7	43	21	23	24	24
20	56	9.9	8.1	18	52	15	5.0	36	24	29	27	27
21	22	8.9	8.5	17	41	15	3.8	35	26	32	23	25
22	13	9.2	9.5	15	56	15	8.2	28	22	31	20	26
23	11	9.9	8.8	14	34	13	11	24	21	23	19	27
24	9.9	11	8.7	12	24	13	12	38	24	18	20	21
25	10	11	8.4	12	23	12	9.1	67	21	20	19	24
26	12	13	8.1	12	24	12	9.1	37	18	21	20	27
27	16	11	7.6	11	22	12	7.6	28	19	17	21	22
28	13	8.5	6.9	9.7	22	11	8.2	25	20	19	20	20
29	12	7.0	7.0	9.7	20	11	10	36	22	20	21	19
30	12	6.5	7.0	9.7	---	11	20	34	26	21	22	23
31	11	---	7.0	9.7	---	11	---	26	---	20	25	---
TOTAL	617.3	321.8	264.1	682.9	823.4	736	276.8	1038.0	1035	767	668	921
MEAN	19.9	10.7	8.52	22.0	28.4	23.7	9.23	33.5	34.5	24.7	21.5	30.7
MAX	56	18	13	98	119	88	20	69	159	34	30	75
MIN	7.6	6.5	6.4	7.4	9.1	11	3.8	5.7	18	17	17	13
AC-FT	1220	638	524	1350	1630	1460	549	2060	2050	1520	1320	1830

CAL YR 1979 TOTAL 7544.5 MEAN 20.7 MAX 157 MIN 3.7 AC-FT 14960
WTR YR 1980 TOTAL 8151.3 MEAN 22.3 MAX 159 MIN 3.8 AC-FT 16170

10141400 HOWARD SLOUGH AT HOOPER, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1972 to August 1978, October 1979 to September 1980.

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT									
24...	1123	9.6	1040	8.2	16.0	8.0	10.1	340	0
FEB									
25...	1030	27	1360	8.4	7.5	4.5	11.8	460	0
MAR									
17...	1530	15	1130	8.3	11.0	11.5	10.0	410	6
APR									
01...	0830	13	1230	8.4	1.0	1.0	11.0	380	0
16...	1030	7.3	1220	8.3	14.5	8.0	12.1	400	0
MAY									
07...	1010	16	1010	7.9	14.5	16.5	12.1	290	0
12...	0915	75	1220	8.4	7.5	8.0	7.8	250	0
JUN									
10...	1030	20	700	7.5	24.0	20.5	7.6	250	0
JUL									
21...	0900	22	710	7.6	23.5	18.5	6.0	250	14
31...	0940	20	870	7.7	19.5	20.0	5.6	280	0
AUG									
11...	1000	21	820	7.8	25.0	16.0	7.7	280	0
SEP									
09...	1500	50	680	7.8	15.0	18.5	9.0	260	0

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
OCT									
24...	60	47	95	36	2.2	110	19	--	--
FEB									
25...	66	71	160	42	3.3	190	25	--	--
MAR									
17...	62	61	130	40	2.8	--	18	500	0
APR									
01...	56	59	130	41	2.9	--	22	--	--
16...	54	64	140	42	3.1	--	21	560	0
MAY									
07...	45	43	110	43	2.8	--	21	440	0
12...	30	43	160	53	4.4	--	49	--	--
JUN									
10...	47	33	65	35	1.8	--	11	--	--
JUL									
21...	54	29	57	32	1.6	--	10	--	--
31...	57	34	75	35	1.9	--	17	--	--
AUG									
11...	56	34	69	33	1.8	--	15	--	--
SEP									
09...	58	28	45	27	1.2	--	9.0	--	--

DATE	ALKA-LINITY (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									
24...	400	--	73	78	.4	25	651	.89	16.9
FEB									
25...	500	--	100	130	.6	26	907	1.23	66.1
MAR									
17...	400	4.0	83	95	.6	23	737	1.00	29.8
APR									
01...	440	--	84	100	.5	20	756	1.03	26.5
16...	450	4.5	89	110	.6	21	793	1.08	15.6
MAY									
07...	361	8.9	61	95	.4	19	620	.84	26.8
12...	410	--	74	120	.3	20	749	1.02	152
JUN									
10...	280	--	48	55	.3	13	446	.61	24.1
JUL									
21...	240	--	47	55	2.1	17	419	.57	24.9
31...	340	--	48	63	.5	25	526	2.78	28.4
AUG									
11...	320	--	48	54	.4	22	494	.67	28.0
SEP									
09...	260	--	38	42	.3	18	396	.54	53.5

10141400 HOWARD SLOUGH AT HOOPER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)
OCT			
24...	3.0	.180	.55
FEB			
25...	6.1	.510	1.6
MAR			
17...	5.3	.240	.74
APR			
01...	4.4	.180	.55
16...	5.1	.310	.95
MAY			
07...	1.5	.350	1.1
12...	1.3	1.100	3.4
JUN			
10...	1.1	.130	.40
JUL			
21...	.77	.160	.49
31...	.47	.340	1.0
AUG			
11...	.63	.200	.61
SEP			
09...	.36	.090	.28

DATE	TIME	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)
OCT							
24...	1123	--	--	290	--	--	--
FEB							
25...	1030	--	--	420	--	--	--
MAR							
17...	1530	--	--	310	--	--	<10
APR							
01...	0830	--	--	330	--	--	--
16...	1030	--	--	360	--	--	20
MAY							
07...	1010	43	100	420	<1	3	180
12...	0915	--	--	820	--	--	--
JUN							
10...	1030	--	--	270	--	--	20
JUL							
21...	0900	--	--	190	--	--	40
31...	0940	--	--	220	--	--	70
AUG							
11...	1000	19	--	240	<1	2	40
SEP							
09...	1500	--	--	160	--	--	40

DATE	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT							
24...	--	--	--	--	--	--	--
FEB							
25...	--	--	--	--	--	--	--
MAR							
17...	--	--	2	--	--	--	--
APR							
01...	--	--	--	--	--	--	--
16...	--	--	40	--	--	--	--
MAY							
07...	5	90	40	.0	0	0	6
12...	--	--	--	--	--	--	--
JUN							
10...	--	--	30	--	--	--	--
JUL							
21...	--	--	20	--	--	--	--
31...	--	--	40	--	--	--	--
AUG							
11...	2	--	20	.1	0	--	4
SEP							
09...	--	--	10	--	--	--	--

10143500 CENTERVILLE CREEK ABOVE DIVERSIONS NEAR CENTERVILLE, UTAH

LOCATION.--Lat 40°54'59", long 111°51'44", in SW1/4SW1/4SE1/4 sec.8, T.2 N., R.1 E., Davis County, Hydrologic Unit 16020102, on right bank 1.2 mi (1.9 km) east of Centerville.

DRAINAGE AREA.--3.15 mi^2 (8.16 km^2).

PERIOD OF RECORD.--October 1949 to September 30, 1980 (discontinued). Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. V-notch sharp-crested weir since November 1960. Altitude of gage is 4,680 ft (1,426 m) from topographic map. Prior to Nov. 21, 1960, at site 250 ft (76 m) downstream at different datum.

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

AVERAGE DISCHARGE.--31 years, 3.02 ft^3/s (0.086 m^3/s), 2,190 acre-ft/yr (2.68 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 35 ft^3/s (0.99 m^3/s) about May 20, 1975; minimum daily recorded, 0.5 ft^3/s (0.014 m^3/s) Mar. 16, 1955, and several days in 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16 ft^3/s (0.45 m^3/s) May 23; minimum, 0.73 ft^3/s (0.021 m^3/s) Dec. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.89	1.1	1.2	1.3	1.3	2.3	1.8	12	12	5.7	1.9	1.3
2	.94	1.1	1.2	1.3	1.3	2.2	1.8	12	13	4.9	1.8	1.3
3	.94	1.1	1.2	1.3	1.4	2.3	1.7	12	13	4.7	1.8	1.3
4	.94	1.1	1.2	1.3	1.4	2.2	1.7	12	13	4.4	1.8	1.3
5	.94	1.2	1.2	1.3	1.4	2.2	1.8	12	13	4.0	1.7	1.2
6	.94	1.1	1.2	1.2	1.4	2.1	1.9	12	13	3.5	1.6	1.2
7	.94	1.1	1.2	1.2	1.4	2.1	1.9	12	13	3.4	1.6	1.5
8	.94	1.1	1.3	1.3	1.4	1.7	1.9	12	12	3.6	1.5	1.4
9	.94	1.1	1.3	1.3	1.4	1.6	2.0	14	12	3.3	1.5	1.5
10	.98	1.1	1.3	1.3	1.4	1.6	2.1	14	11	3.1	1.5	1.6
11	.98	1.1	1.0	1.3	1.3	2.0	2.1	13	11	3.0	1.5	2.5
12	.98	1.1	1.3	1.7	1.3	1.9	2.2	13	10	2.9	1.6	1.8
13	.98	1.1	1.3	1.9	1.3	1.9	2.4	12	9.8	2.9	1.7	1.5
14	.98	1.1	1.2	2.4	1.5	1.9	2.7	12	9.4	2.8	1.5	1.4
15	.98	1.2	1.2	1.7	1.6	1.9	3.2	12	8.9	2.7	1.6	1.4
16	1.0	1.2	1.2	1.5	1.5	1.8	3.6	12	8.3	2.6	1.6	1.4
17	1.0	1.2	1.2	1.4	1.7	1.7	4.2	12	7.8	2.6	1.5	1.4
18	1.1	1.4	1.2	1.3	2.0	1.8	5.2	12	7.4	2.5	1.4	1.3
19	1.4	1.2	1.2	1.2	2.5	1.8	6.6	12	6.8	2.5	1.8	1.3
20	1.5	1.2	1.2	1.4	2.4	1.8	8.0	12	6.5	2.4	1.6	1.3
21	1.2	1.2	1.2	1.4	2.3	2.0	9.1	13	6.2	2.3	1.5	1.4
22	1.2	1.1	1.2	1.3	2.3	1.9	9.6	14	6.0	2.2	1.4	1.3
23	1.2	1.3	1.2	1.3	2.2	1.8	9.8	14	5.7	2.1	1.4	1.3
24	1.2	1.3	1.2	1.3	2.1	1.8	9.1	15	5.6	2.1	1.4	1.3
25	1.2	1.3	1.2	1.3	2.2	1.8	9.1	15	5.1	2.0	1.7	1.3
26	1.2	1.3	1.2	1.3	2.3	1.8	9.2	13	4.9	2.0	1.5	1.3
27	1.1	1.2	1.2	1.2	2.3	1.8	9.2	13	4.8	2.0	1.4	1.2
28	1.1	1.2	1.2	1.2	2.4	1.7	9.4	12	4.5	1.9	1.4	1.2
29	1.1	1.2	1.2	1.3	2.3	1.7	11	12	4.4	1.9	1.3	1.2
30	1.1	1.2	1.2	1.3	---	1.8	12	11	4.5	2.2	1.3	1.3
31	1.1	---	1.2	1.3	---	1.8	---	11	---	2.0	1.4	---
TOTAL	32.99	35.2	37.5	42.8	51.3	58.7	156.3	389	262.6	90.2	48.2	41.7
MEAN	1.06	1.17	1.21	1.38	1.77	1.89	5.21	12.5	8.75	2.91	1.55	1.39
MAX	1.5	1.4	1.3	2.4	2.5	2.3	12	15	13	5.7	1.9	2.5
MIN	.89	1.1	1.0	1.2	1.3	1.6	1.7	11	4.4	1.9	1.3	1.2
AC-FT	65	70	74	85	102	116	310	772	521	179	96	83

CAL YR 1979 TOTAL 867.59 MEAN 2.38 MAX 11 MIN .80 AC-FT 1720
WTR YR 1980 TOTAL 1246.49 MEAN 3.41 MAX 15 MIN .89 AC-FT 2470

NOTE: No gage-height record Jan. 16 to Mar. 13.

10146000 SALT CREEK AT NEPHI, UTAH

LOCATION.--Lat 39°42'47", long 111°48'13", in SE1/4SW1/4NE1/4 sec.3, T.13 S., R.1 E., Juab County, Hydrologic Unit 16020201, on right bank 1.7 mi (2.7 km) east of Nephi.

DRAINAGE AREA.--95.6 mi^2 (247.6 km^2).

PERIOD OF RECORD.--December 1950 to September 1980 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 5,280.00 ft (1,609.344 m) National Geodetic Vertical Datum of 1929. Dec. 2, 1950 to Nov. 7, 1952, at a site 0.5 mi (0.8 km) downstream at datum 31.96 ft (9.741 m) lower. Nov. 7, 1952 to Nov. 10, 1971, at a site 0.5 mi (0.8 km) downstream at datum 30.53 ft (9.306 m) lower.

REMARKS.--Records good.

AVERAGE DISCHARGE.--29 years, 27.0 ft^3/s (0.765 m^3/s), 19,560 acre-ft/yr (24.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 832 ft^3/s (23.6 m^3/s) Aug. 1, 1968, gage height, 6.43 ft (1.960 m) from floodmarks; minimum, 1.1 ft^3/s (0.031 m^3/s) Dec. 13, 1951, Dec. 11, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 100 ft^3/s (3.05 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage Height (ft)	Gage Height (m)
April 20	2300	408	11.6	3.56	1.085
May 6	2200	*412	11.7	3.57	1.088
May 22	2200	301	8.52	3.21	0.978

Minimum discharge, 6.3 ft^3/s (0.178 m^3/s) Nov. 28, 30.

REVISIONS: Peak discharge above base of 100 ft^3/s (3.05 m^3/s) and maximum (*) unpublished since 1975 are listed below:

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage Height (ft)	Gage Height (m)
1976	No peak above base				
July 20, 1977	1900	*329	9.32	4.28	1.305
Apr. 1, 1978	1000	116	3.29	2.61	.796
Apr. 27, 1978	0200	130	3.68	2.66	.811
May 4, 1978	0900	126	3.57	2.63	.802
May 16, 1978	0300	*213	6.03	3.16	.963
May 23, 1978	2400	166	4.70	2.82	.860
May 30, 1978	0400	147	4.16	2.69	.820
Apr. 29, 1979	0300	102	2.89	2.60	.792
May 6, 1979	0500	129	3.65	2.80	.853
May 28, 1979	1200	*183	5.18	3.18	.969

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	11	9.3	10	12	18	22	215	133	91	40	32
2	11	10	9.3	10	12	18	22	217	122	86	40	31
3	12	10	9.3	10	12	21	22	251	124	83	39	30
4	12	10	9.8	10	12	25	22	286	135	78	38	30
5	12	10	9.8	10	12	20	24	289	146	73	37	29
6	12	10	9.8	10	13	20	28	341	148	70	35	29
7	11	9.3	9.8	10	13	20	27	319	120	70	37	32
8	11	9.3	10	10	12	20	25	271	120	68	37	33
9	11	9.3	10	11	11	21	28	277	128	70	37	32
10	11	9.3	10	12	12	21	30	300	146	68	35	39
11	11	8.8	9.8	9.8	12	22	35	234	155	68	35	34
12	11	9.3	9.3	17	12	21	31	217	153	67	33	33
13	11	9.3	9.8	17	12	20	31	209	137	68	31	32
14	11	9.3	9.8	26	15	21	43	202	126	65	33	31
15	11	9.3	9.8	17	20	22	52	167	110	63	33	30
16	11	9.3	9.8	14	17	21	65	186	102	58	33	29
17	11	9.3	9.8	14	17	21	83	179	102	58	32	29
18	11	12	9.8	15	40	22	128	167	108	58	31	28
19	11	9.8	9.8	14	21	21	171	174	112	56	34	26
20	20	9.8	9.8	12	20	22	242	209	112	55	32	26
21	12	9.3	11	12	17	22	295	251	112	52	32	26
22	12	9.3	11	11	18	22	298	296	104	52	31	26
23	11	9.8	10	11	18	22	304	277	102	51	31	26
24	11	9.8	10	12	18	22	225	223	100	52	31	26
25	10	10	10	12	18	22	277	169	95	51	42	25
26	10	11	10	12	18	22	289	135	89	48	40	25
27	11	9.8	10	12	18	22	239	122	91	46	38	24
28	11	8.8	9.8	12	18	22	265	112	84	45	35	23
29	11	8.3	9.8	12	18	22	286	118	81	40	34	23
30	11	8.8	10	10	---	22	262	116	89	43	33	23
31	11	---	10	10	---	22	---	120	---	41	33	---
TOTAL	357	289.3	306.2	384.8	468	659	3871	6651	3486	1894	1082	862
MEAN	11.5	9.64	9.88	12.4	16.1	21.3	129	215	116	61.1	34.9	28.7
MAX	20	12	11	26	40	25	304	341	155	91	42	39
MIN	10	8.3	9.3	9.8	11	18	22	112	81	40	31	23
AC-FT	708	574	607	763	928	1310	7680	13190	6910	3760	2150	1710

CAL YR 1979 TOTAL 9927.8 MEAN 27.2 MAX 160 MIN 8.3 AC-FT 19690
WTR YR 1980 TOTAL 20310.3 MEAN 55.5 MAX 341 MIN 8.3 AC-FT 40290

10146400 CURRANT CREEK NEAR MONA, UTAH

LOCATION.--Lat 111°51'44", long 39°48'09", in NE1/4SW1/4NW1/4 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, 6.7 ft^3/s (0.190 m^3/s) several days in August and September 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 326 ft^3/s (9.23 m^3/s) Jan. 15, gage height, 4.75 ft (1.448 m); minimum, 7.6 ft^3/s (0.215 m^3/s) several days in October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	9.1	11	13	15	31	47	99	31	11	11	11
2	7.7	9.1	11	15	16	32	39	63	30	11	11	11
3	7.8	9.3	11	15	17	33	38	48	28	11	11	11
4	8.0	9.1	11	15	18	35	37	49	25	11	10	11
5	8.1	9.2	11	17	22	37	33	64	21	11	10	11
6	8.1	9.2	12	17	22	52	36	79	26	11	10	11
7	8.1	9.3	12	15	19	86	34	116	40	11	10	12
8	8.1	9.3	13	17	18	73	34	118	44	11	10	12
9	8.1	9.3	13	20	24	40	34	101	35	11	10	12
10	8.1	9.2	13	33	24	31	34	161	33	11	10	13
11	8.1	9.2	12	18	21	27	39	144	37	11	10	13
12	8.3	9.1	11	59	21	47	39	124	33	11	10	12
13	8.3	9.2	11	133	20	37	38	96	29	10	11	12
14	8.3	9.2	11	139	21	29	40	71	28	10	11	12
15	8.3	9.3	11	110	26	23	43	79	23	10	11	12
16	8.3	9.3	10	51	42	20	42	53	19	10	11	12
17	8.4	9.6	11	34	40	19	20	58	17	10	11	12
18	8.5	11	11	36	39	19	15	79	15	10	11	12
19	8.5	12	12	28	38	20	20	67	14	10	11	12
20	13	10	13	20	37	20	31	65	13	10	11	12
21	11	10	17	19	36	21	47	53	11	10	11	12
22	9.4	9.9	21	19	35	24	84	62	11	10	11	12
23	9.0	10	17	17	34	22	86	70	12	11	11	12
24	9.0	10	15	18	33	23	83	117	12	11	11	12
25	9.0	10	16	19	32	27	45	89	12	11	12	12
26	9.0	11	16	17	31	24	43	70	11	11	12	12
27	8.9	12	14	18	30	27	64	46	11	10	11	12
28	9.0	11	13	12	30	40	67	36	11	11	11	12
29	9.1	11	13	12	30	43	84	28	11	11	11	12
30	9.0	11	13	12	---	38	119	29	11	11	11	12
31	9.0	---	13	13	---	45	---	33	---	11	11	---
TOTAL	269.1	295.9	399	981	791	1045	1415	2367	654	330	334	356
MEAN	8.68	9.86	12.9	31.6	27.3	33.7	47.2	76.4	21.8	10.6	10.8	11.9
MAX	13	12	21	139	42	86	119	161	44	11	12	13
MIN	7.6	9.1	10	12	15	19	15	28	11	10	10	11
AC-FT	534	587	791	1950	1570	2070	2810	4690	1300	655	662	706

CAL YR 1979 TOTAL 5925.8 MEAN 16.2 MAX 114 MIN 6.7 AC-FT 11750
WTR YR 1980 TOTAL 9237.0 MEAN 25.2 MAX 161 MIN 7.6 AC-FT 18320

10148200 TIE FORK NEAR SOLDIER SUMMIT, UTAH

LOCATION.--Lat 39°57'00", long 111°12'58", in NE1/4SW1/4 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, Jan. 9 to Mar. 17, which are fair. No diversion.

AVERAGE DISCHARGE.--17 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, 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, 39 ft^3/s (1.10 m^3/s) May 24, gage height, 2.42 ft (0.738 m), base discharge, 15 ft^3/s (0.425 m^3/s); minimum recorded, 0.25 ft^3/s (0.007 m^3/s) Nov. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	2.7	2.9	2.5	3.4	3.4	3.3	22	29	13	7.3	4.8
2	3.6	2.8	3.0	2.5	3.4	3.1	3.4	23	29	13	7.1	4.6
3	3.6	2.8	3.1	2.4	3.4	3.0	3.6	24	27	12	6.9	4.4
4	3.6	2.9	3.2	3.1	3.4	3.0	3.9	25	26	12	6.9	4.3
5	3.4	2.8	3.1	2.3	3.1	3.1	3.9	26	25	12	6.7	4.3
6	3.2	2.8	3.1	3.1	3.1	3.1	4.0	27	24	12	6.5	4.3
7	3.3	2.8	3.1	3.3	3.2	2.8	4.0	29	23	12	6.5	4.6
8	3.2	2.8	3.1	3.4	3.1	2.6	3.8	31	23	12	6.3	5.0
9	3.2	2.5	2.9	3.4	3.2	2.8	4.3	33	22	12	6.2	4.9
10	3.2	2.4	2.9	3.4	3.2	2.9	4.4	35	21	11	6.2	4.9
11	3.1	2.1	2.4	3.4	3.2	2.7	4.4	35	20	11	6.0	4.8
12	3.0	2.2	2.4	3.4	3.1	2.8	4.5	35	20	11	6.0	4.7
13	3.0	2.2	2.7	3.4	3.1	2.9	4.6	34	19	11	6.0	4.6
14	3.0	2.2	2.9	3.4	3.1	3.0	5.0	33	19	11	6.2	4.5
15	3.1	3.3	2.8	3.4	3.2	3.1	5.5	34	18	10	6.0	4.5
16	3.0	2.7	2.8	3.4	3.1	3.2	5.8	36	18	10	6.0	4.4
17	3.1	2.5	2.8	3.4	3.2	3.2	6.5	37	17	9.9	5.8	4.3
18	3.0	2.8	2.8	3.4	3.7	3.4	7.4	37	17	9.7	5.6	4.3
19	3.0	2.7	2.7	3.4	3.5	3.2	8.3	36	16	9.4	5.8	4.2
20	3.3	2.7	2.7	3.3	3.4	3.3	9.7	37	16	9.3	5.8	4.2
21	3.1	2.1	2.7	3.4	3.4	3.4	11	37	16	9.2	5.6	4.2
22	3.1	2.1	2.8	3.2	3.4	3.5	12	38	15	9.1	5.4	4.4
23	3.1	2.1	2.8	3.4	3.3	3.6	13	38	15	8.9	5.2	4.4
24	3.1	2.3	2.7	3.5	3.1	3.3	13	38	14	8.9	5.6	4.3
25	3.1	2.3	2.7	3.6	3.1	3.2	14	38	14	8.6	5.4	4.3
26	3.0	2.4	2.5	3.4	3.1	3.1	15	37	13	8.3	5.1	4.2
27	3.0	2.5	2.9	3.4	3.2	3.3	16	35	13	8.2	4.9	4.1
28	3.0	2.4	3.2	3.4	3.4	3.5	17	34	13	8.1	4.8	4.1
29	3.0	2.9	3.2	3.3	3.4	3.6	20	32	13	8.0	4.8	4.2
30	2.6	2.9	3.2	3.6	---	3.5	21	31	13	8.1	4.8	4.1
31	2.7	---	3.2	3.5	---	3.4	---	30	---	12	5.0	---
TOTAL	97.2	76.7	89.3	101.0	94.5	98.0	252.3	1017	568	320.7	182.4	132.9
MEAN	3.14	2.56	2.88	3.26	3.26	3.16	8.41	32.8	18.9	10.3	5.88	4.43
MAX	3.6	3.3	3.2	3.6	3.7	3.6	21	38	29	13	7.3	5.0
MIN	2.6	2.1	2.4	2.3	3.1	2.6	3.3	22	13	8.0	4.8	4.1
AC-FT	193	152	177	200	187	194	500	2020	1130	636	362	264

CAL YR 1979 TOTAL 1886.6 MEAN 5.17 MAX 18 MIN 1.8 AC-FT 3740
WTR YR 1980 TOTAL 3030.0 MEAN 8.28 MAX 38 MIN 2.1 AC-FT 6010

10150500 SPANISH FORK AT CASTILLA, UTAH

LOCATION.--Lat 40°02'59", long 111°32'50", in SE1/4NE1/4NW1/4 sec.12, T.9 S., R.3 E., Utah County, Hydrologic Unit 16020202, on right bank 600 ft (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); 56 years (1914-17, 1919-25, 1933-80), 218 ft^3/s (6.174 m^3/s), 157,900 acre-ft/yr (195 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, 1,220 ft^3/s (34.6 m^3/s) May 6, gage height, 9.59 ft (2.923 m); minimum, 32 ft^3/s (0.906 m^3/s) Jan. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	223	77	58	74	74	145	139	837	620	482	485	212
2	207	77	65	75	78	145	142	834	629	493	478	212
3	210	79	70	70	80	153	139	883	660	471	460	208
4	197	78	72	72	84	170	142	933	668	460	471	236
5	202	78	76	72	78	159	153	952	668	474	504	259
6	171	78	76	72	82	156	179	1020	657	452	519	266
7	107	78	77	72	82	150	170	1060	629	434	519	256
8	74	78	78	73	72	150	150	1010	611	434	530	246
9	71	77	78	75	63	150	164	980	582	397	537	177
10	70	76	77	85	67	147	203	1040	556	367	537	157
11	71	77	72	62	70	147	185	952	526	378	422	155
12	70	74	56	76	72	150	176	937	496	411	519	145
13	70	74	58	104	78	145	185	858	478	445	496	135
14	68	74	65	213	86	147	222	820	522	434	485	130
15	70	74	67	170	104	150	286	811	530	430	463	120
16	68	73	68	147	102	150	338	822	552	445	437	130
17	70	76	68	131	113	145	389	820	589	430	411	110
18	70	84	70	113	272	145	474	789	621	448	400	115
19	73	79	70	102	360	145	566	792	636	504	393	120
20	106	77	72	90	371	147	667	872	665	500	386	120
21	93	68	75	88	210	150	740	952	657	482	349	110
22	87	65	76	80	167	147	786	1030	643	489	320	100
23	84	70	74	74	159	147	828	1070	578	480	338	120
24	83	76	70	78	150	150	753	1020	548	480	331	110
25	81	79	74	84	147	150	845	975	511	480	293	100
26	80	79	72	80	142	145	894	900	504	480	242	90
27	79	70	65	86	139	147	863	800	511	480	249	85
28	79	53	56	84	142	147	861	720	537	480	262	82
29	80	47	60	82	147	145	956	670	563	480	252	80
30	78	56	68	72	---	147	942	640	511	480	211	80
31	77	---	68	58	---	145	---	630	---	480	213	---
TOTAL	3169	2201	2151	2814	3791	4616	13537	27429	17458	14180	12512	4466
MEAN	102	73.4	69.4	90.8	131	149	451	885	582	457	404	149
MAX	223	84	78	213	371	170	956	1070	668	504	537	266
MIN	68	47	56	58	63	145	139	630	478	367	211	80
AC-FT	6290	4370	4270	5580	7520	9160	26850	54410	34630	28130	24820	8860

CAL YR 1979 TOTAL 91820 MEAN 252 MAX 740 MIN 42 AC-FT 182100
WTR YR 1980 TOTAL 108324 MEAN 296 MAX 1070 MIN 47 AC-FT 214900

10152000 SPANISH FORK NEAR LAKESHORE, UTAH

LOCATION.--Lat 40°09'30", long 111°43'50", in SE1/4SE1/4SE1/4 sec.32, T.7 S., R.2 E., Utah County, Hydrologic Unit 16020202, on left bank 1.1 mi (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. Discharge includes that of overflow canal constructed in winter of 1947-48, which diverts part of high flow from river about 1 mi (2 km) above gage (no flow in canal this year).

AVERAGE DISCHARGE.--60 years (1904-07, 1909-19, 1920-25, 1938-80) 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 observed, 3,020 ft^3/s (85.5 m^3/s) Apr. 28, 1952; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 936 ft^3/s (26.5 m^3/s) May 23, 24, gage height, 9.90 ft (3.018 m); no flow Aug. 11 and 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	87	88	96	108	151	157	422	266	62	37	54
2	25	82	85	97	104	152	159	388	253	61	33	41
3	31	90	92	94	106	164	157	384	233	66	28	30
4	25	90	92	94	108	186	158	423	228	66	34	25
5	12	89	94	94	104	182	172	473	232	56	30	16
6	13	88	96	94	106	183	195	552	240	53	32	17
7	15	89	96	94	106	177	194	611	232	49	32	36
8	8.5	94	98	94	100	167	171	587	206	47	22	58
9	8.2	88	97	94	92	160	179	562	183	45	25	70
10	10	87	98	103	96	157	209	696	161	43	16	90
11	15	86	96	92	100	160	203	736	146	47	12	84
12	18	86	82	96	99	169	191	772	128	42	8.0	74
13	20	84	85	112	104	158	193	756	114	25	6.3	71
14	30	87	86	179	108	169	209	629	112	22	23	64
15	38	86	88	182	122	175	244	641	107	9.5	17	62
16	43	86	90	155	128	172	283	676	106	12	7.8	59
17	47	89	91	140	142	155	307	722	102	21	6.5	68
18	60	99	91	128	210	158	370	661	100	45	9.8	78
19	56	98	91	120	339	160	455	663	96	40	11	74
20	95	94	93	111	332	160	568	728	93	15	19	50
21	98	88	94	104	336	177	658	810	89	5.5	11	59
22	92	84	98	104	195	169	679	896	86	3.6	11	51
23	93	84	96	96	178	163	798	934	86	4.3	7.8	47
24	91	92	92	98	152	169	554	924	80	3.6	6.8	67
25	90	94	96	104	146	169	601	794	80	12	16	63
26	90	96	94	102	142	158	678	554	78	17	18	37
27	89	91	90	104	142	163	612	401	73	16	21	21
28	88	78	84	104	148	162	545	353	66	25	30	17
29	95	79	84	108	155	158	560	337	64	41	32	15
30	92	86	92	106	---	167	572	306	68	47	38	27
31	86	---	93	86	---	160	---	288	---	41	49	---
TOTAL	1584.7	2651	2842	3385	4308	5130	11031	18679	4108	1042.5	650.0	1525
MEAN	51.1	88.4	91.7	109	149	165	368	603	137	33.6	21.0	50.8
MAX	98	99	98	182	339	186	798	934	266	66	49	90
MIN	8.2	78	82	86	92	151	157	288	64	3.6	6.3	15
AC-FT	3140	5260	5640	6710	8540	10180	21880	37050	8150	2070	1290	3020

CAL YR 1979 TOTAL 32543.3 MEAN 89.2 MAX 366 MIN 1.9 AC-FT 64550
WTR YR 1980 TOTAL 56936.2 MEAN 156 MAX 934 MIN 3.6 AC-FT 112900

10153800 NORTH FORK PROVO RIVER NEAR KAMAS, UTAH

LOCATION.--Lat 40°35'48", long 111°05'48", in SE1/4 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 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.--17 years, 39.5 ft^3/s (1.12 m^3/s), 28,620 acre-ft/yr (35.3 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 22	2300	339	9.60	2.30	0.701
June 11	2200	*445	12.6	2.58	.786

Minimum, 2.4 ft^3/s (0.068 m^3/s) Jan. 8-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	3.2	4.1	3.2	4.0	4.0	4.0	103	160	112	41	4.3
2	2.8	3.2	4.3	3.2	4.0	4.0	4.0	90	158	105	39	4.0
3	2.8	3.2	4.3	3.0	4.0	4.0	4.0	91	160	98	37	4.0
4	2.8	3.2	4.3	3.0	4.0	4.0	4.3	101	209	87	36	3.7
5	2.8	3.1	4.3	3.0	4.0	4.0	4.7	128	242	77	35	3.4
6	2.8	3.1	4.2	3.0	4.0	4.0	4.7	135	253	67	32	3.4
7	2.8	3.0	4.4	2.8	4.0	4.0	4.3	158	229	66	32	7.0
8	2.8	3.0	4.3	2.7	4.0	4.0	4.4	172	253	66	30	7.3
9	2.8	3.0	4.1	2.5	4.0	4.0	4.6	162	304	71	30	7.3
10	2.8	3.0	4.2	2.6	4.0	4.0	5.2	155	350	69	30	9.8
11	2.8	3.0	3.2	2.5	4.0	4.0	5.1	147	367	65	29	13
12	2.9	3.0	3.3	2.7	4.0	4.0	5.1	138	339	64	27	15
13	3.0	3.0	3.7	4.1	4.0	4.0	5.2	130	304	61	26	9.8
14	3.1	3.0	3.8	5.1	4.0	4.0	11	125	276	60	25	7.9
15	3.2	3.0	3.8	5.3	4.0	4.0	14	136	234	56	23	6.4
16	3.4	3.0	3.8	5.3	4.0	4.0	19	136	211	55	22	6.1
17	3.7	3.0	3.8	5.1	4.0	4.0	30	128	229	54	18	5.8
18	3.9	3.0	3.8	4.7	4.0	4.0	40	128	242	51	16	5.4
19	8.1	3.0	3.8	4.3	4.0	4.0	51	134	253	50	16	5.0
20	12	2.7	3.8	4.1	4.0	4.0	61	158	226	50	15	5.4
21	7.3	3.1	3.8	4.0	4.0	4.0	74	206	206	54	13	5.0
22	5.4	3.4	3.8	4.0	4.0	4.0	80	268	199	52	11	5.4
23	4.8	3.4	3.8	4.0	4.0	4.0	76	298	187	51	10	5.2
24	4.6	3.4	3.8	4.0	4.0	4.0	72	221	176	50	9.8	5.2
25	4.3	3.4	3.8	4.0	4.0	4.0	81	174	163	49	14	5.2
26	4.1	3.3	3.6	4.0	4.0	4.0	89	150	154	48	13	5.4
27	4.0	3.2	3.6	4.0	4.0	4.0	86	142	146	45	8.8	3.7
28	3.9	3.1	3.6	4.0	4.0	4.0	94	142	127	44	6.6	4.6
29	3.5	2.9	3.6	4.0	4.0	4.0	105	146	123	44	5.4	4.6
30	3.2	3.4	3.5	4.0	---	4.0	115	140	119	43	4.7	4.6
31	3.2	---	3.4	4.0	---	4.0	---	148	---	42	4.7	---
TOTAL	122.4	93.3	119.6	116.2	116.0	124.0	1157.6	4690	6599	1906	660.0	182.9
MEAN	3.95	3.11	3.86	3.75	4.00	4.00	38.6	151	220	61.5	21.3	6.10
MAX	12	3.4	4.4	5.3	4.0	4.0	115	298	367	112	41	15
MIN	2.8	2.7	3.2	2.5	4.0	4.0	4.0	90	119	42	4.7	3.4
AC-FT	243	185	237	230	230	246	2300	9300	13090	3780	1310	363

CAL YR 1979 TOTAL 11501.6 MEAN 31.5 MAX 358 MIN 2.6 AC-FT 22810
WTR YR 1980 TOTAL 15887.0 MEAN 43.4 MAX 367 MIN 2.5 AC-FT 31510

10154200 PROVO RIVER NEAR WOODLAND, UTAH

LOCATION.--Lat 40°33'28", long 111°10'05", in SE1/4 sec.17, T.3 S., R.7 E., Summit County, Hydrologic Unit 16020203, on right bank on south side of State Highway 35, 0.3 mi (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 Commissioners' Report.

AVERAGE DISCHARGE.--17 years, 219 ft^3/s (6.202 m^3/s), 158,700 acre-ft/yr (196 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, 1,680 ft^3/s (47.6 m^3/s) June 11, gage height, 4.44 ft (1.353 m); minimum, 27 ft^3/s (0.765 m^3/s) Nov. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	50	49	46	54	52	51	610	711	638	146	80
2	38	48	49	46	54	55	51	578	737	629	144	79
3	37	52	51	45	53	54	50	592	722	565	142	77
4	37	49	50	45	53	55	53	682	904	512	142	75
5	37	52	50	45	50	55	56	783	1080	442	140	72
6	37	49	50	45	52	55	57	778	1130	391	136	72
7	37	51	51	45	52	55	55	909	1030	348	130	83
8	38	49	50	45	46	54	52	881	1100	341	126	85
9	39	46	48	46	46	52	59	747	1200	327	128	86
10	39	43	49	44	47	50	65	667	1340	300	146	94
11	42	45	38	40	48	53	61	560	1390	284	142	100
12	41	41	40	49	48	52	62	500	1310	266	134	102
13	41	47	44	62	50	49	62	436	1150	251	130	89
14	41	46	44	78	50	57	71	410	1040	240	128	82
15	42	45	45	75	51	56	88	434	904	220	128	77
16	43	45	45	71	51	51	114	454	805	207	117	75
17	43	48	46	66	52	47	140	434	815	199	116	72
18	45	48	46	61	53	54	187	403	821	204	112	70
19	58	44	46	54	55	54	245	458	832	199	116	70
20	82	46	46	51	56	53	314	583	783	192	116	79
21	59	42	46	53	56	56	388	799	706	189	110	82
22	55	39	47	49	55	53	454	1070	682	182	104	82
23	56	45	46	50	57	54	462	1270	648	173	100	79
24	56	48	46	52	52	52	377	1050	615	182	96	77
25	58	50	46	53	53	53	434	810	652	173	107	76
26	59	50	46	49	55	49	525	662	854	168	105	76
27	56	48	41	50	56	53	512	610	854	159	94	72
28	54	45	42	50	56	53	592	605	742	155	89	72
29	55	47	42	50	56	52	701	648	682	155	83	72
30	52	48	43	48	---	52	722	643	662	153	83	72
31	46	---	46	52	---	51	---	696	---	148	83	---
TOTAL	1461	1406	1428	1615	1517	1641	7060	20764	26901	8592	3673	2379
MEAN	47.1	46.9	46.1	52.1	52.3	52.9	235	670	897	277	118	79.3
MAX	82	52	51	78	57	57	722	1270	1390	638	146	102
MIN	37	39	38	40	46	47	50	403	615	148	83	70
AC-FT	2900	2790	2830	3200	3010	3250	14000	41190	53360	17040	7290	4720

CAL YR 1979 TOTAL 69025 MEAN 189 MAX 2530 MIN 33 AC-FT 136900
WTR YR 1980 TOTAL 78437 MEAN 214 MAX 1390 MIN 37 AC-FT 155600

10155000 PROVO RIVER NEAR HAILSTONE, UTAH

LOCATION.--Lat 40°36'03", long 111°21'35", in SW1/4NE1/4SE1/4 sec.34, T.2 S., R.5 E., Wasatch County, Hydrologic Unit 16020203, on right bank 3 mi (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.--27 years (1954-80) 281 ft^3/s (7.958 m^3/s), 203,600 acre-ft/yr (251 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, 1,830 ft^3/s (51.8 m^3/s) June 11, gage height, 7.25 ft (2.210 m); minimum, 25 ft^3/s (0.708 m^3/s) Oct. 1-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	58	81	74	90	100	98	740	698	585	133	75
2	26	61	82	74	90	104	98	696	710	589	126	74
3	26	67	82	74	90	114	98	696	692	526	122	69
4	26	64	83	74	90	110	112	782	879	476	120	67
5	26	70	83	74	90	108	127	886	1030	406	120	66
6	26	69	84	74	85	108	127	893	1100	353	112	69
7	26	82	84	70	83	106	118	1010	1050	314	112	89
8	26	84	85	74	83	104	110	992	1120	331	106	91
9	29	82	85	78	84	102	138	865	1270	386	102	93
10	30	75	85	75	85	102	152	782	1450	368	120	102
11	31	77	63	67	85	106	140	652	1490	356	122	104
12	32	70	66	82	86	106	145	591	1400	319	116	118
13	33	74	70	88	87	102	150	518	1280	311	108	93
14	34	75	75	90	87	116	169	473	1170	307	106	98
15	36	72	78	90	88	122	207	493	988	281	110	93
16	38	70	78	90	88	110	227	518	849	222	104	89
17	39	74	78	90	89	100	258	503	851	198	94	85
18	42	84	78	90	89	112	324	456	855	198	87	85
19	58	69	78	90	90	112	399	508	943	190	89	91
20	104	64	78	90	91	112	498	630	861	182	98	100
21	72	69	78	90	91	120	574	872	761	180	91	108
22	61	80	78	90	92	112	652	1190	722	172	80	112
23	60	80	78	90	93	108	635	1450	691	159	84	108
24	58	80	80	90	93	108	528	1160	657	167	84	106
25	58	80	78	90	94	108	602	879	682	159	100	98
26	58	74	74	90	98	102	674	704	926	152	112	96
27	60	68	70	90	102	108	657	624	995	145	85	94
28	58	63	70	90	106	106	734	608	849	138	75	91
29	60	70	70	90	108	104	858	640	767	136	74	91
30	63	76	70	90	---	104	872	624	702	138	75	91
31	61	---	70	90	---	100	---	674	---	133	77	---
TOTAL	1383	2181	2392	2598	2627	3336	10481	23111	28438	8577	3144	2746
MEAN	44.6	72.7	77.2	83.8	90.6	108	349	746	948	277	101	91.5
MAX	104	84	85	90	108	122	872	1450	1490	589	133	118
MIN	26	58	63	67	83	100	98	458	657	133	74	66
AC-FT	2740	4330	4740	5150	5210	6620	20790	45840	56410	17010	6240	5450

CAL YR 1979 TOTAL 81968 MEAN 225 MAX 2830 MIN 19 AC-FT 162600
WTR YR 1980 TOTAL 91014 MEAN 249 MAX 1490 MIN 26 AC-FT 180500

10159500 PROVO RIVER BELOW DEER CREEK DAM, UTAH

LOCATION.--Lat 40°24'12", long 111°31'44", in NE1/4NE1/4NE1/4 sec.7, T.5 S., R.4 E., Wasatch County, Hydrologic Unit 16020203, on right bank 200 ft (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.--27 years, 363 ft^3/s (10.28 m^3/s), 263,000 acre-ft/yr (324 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, 1,300 ft^3/s (36.8 m^3/s) Apr. 30, gage height, 6.63 ft (2.021 m); minimum, 64 ft^3/s (1.81 m^3/s) Nov. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151	197	70	76	91	107	298	1270	580	700	450	500
2	137	196	70	76	87	110	300	1260	580	770	450	500
3	106	195	70	76	91	110	300	1240	580	770	450	503
4	97	195	70	81	91	105	320	1240	580	600	450	503
5	93	200	70	88	94	231	352	1160	580	600	450	503
6	93	198	70	88	91	287	352	1060	580	600	450	503
7	92	196	70	83	91	278	375	1060	580	500	451	474
8	92	195	72	80	91	276	414	1060	580	450	448	365
9	93	196	74	80	91	280	414	1060	580	450	451	318
10	93	196	74	83	93	287	417	1070	580	450	458	291
11	93	195	74	80	92	287	417	1060	850	450	466	252
12	90	193	75	90	92	285	417	1060	1100	450	484	244
13	84	193	75	90	91	285	417	1040	1100	450	466	232
14	85	193	79	90	90	282	419	1040	1100	450	466	227
15	86	96	79	94	97	285	417	1030	1100	450	466	225
16	86	71	79	96	92	287	495	1020	1100	450	466	223
17	88	71	79	92	90	278	586	1010	900	450	474	225
18	86	71	79	92	100	276	583	1010	600	450	482	248
19	100	69	79	92	105	287	715	931	600	450	474	296
20	128	69	79	92	105	280	802	893	600	450	451	318
21	140	69	79	92	105	276	909	878	600	450	422	293
22	144	69	79	91	105	276	1040	874	600	450	419	232
23	147	72	78	91	105	285	1060	700	600	450	417	227
24	162	74	78	91	107	291	1080	618	600	450	417	218
25	187	72	78	93	110	293	1070	612	600	450	409	205
26	198	73	78	93	110	296	1080	612	600	450	393	225
27	196	72	76	93	108	296	1070	609	700	450	399	244
28	195	71	77	93	107	296	1040	590	700	450	461	248
29	193	72	76	96	107	298	1020	586	700	450	490	254
30	195	71	77	95	---	298	1180	580	700	450	513	238
31	199	---	76	94	---	298	---	580	---	450	506	---
TOTAL	3929	3900	2339	2741	2829	8106	19359	28813	21250	15340	14049	9334
MEAN	127	130	75.5	88.4	97.6	261	645	929	708	495	453	311
MAX	199	200	79	96	110	298	1180	1270	1100	770	513	503
MIN	84	69	70	76	87	105	298	580	580	450	393	205
AC-FT	7790	7740	4640	5440	5610	16080	38400	57150	42150	30430	27870	18510

CAL YR 1979 TOTAL 101667 MEAN 279 MAX 583 MIN 69 AC-FT 201700
WTR YR 1980 TOTAL 131989 MEAN 361 MAX 1270 MIN 69 AC-FT 261800

10163000 PROVO RIVER AT PROVO, UTAH

LOCATION.--Lat 40°14'16", long 111°41'55", in NE1/4NW1/4SE1/4 sec.3 T.7 S., R.2 E., Utah County, Hydrologic Unit 16020203, on left bank 1,300 ft (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.--WDR UT-77-1: Drainage area.

REVISIONS (WATER YEARS).--WSP 1564: 1904, 1934.

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.--45 years, 19.1 ft^3/s (5.42 m^3/s), 138,400 acre-ft/yr (171 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, 1,380 ft^3/s (39.1 m^3/s) May 2, gage height, 5.97 ft (1.820 m); minimum, 3.6 ft^3/s (0.102 m^3/s) Aug. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	217	90	92	104	131	278	1330	243	249	15	18
2	22	220	92	92	102	131	281	1330	231	274	15	17
3	29	220	92	90	104	151	278	1310	228	271	22	16
4	23	220	92	90	104	165	284	1310	225	220	19	14
5	19	228	90	100	104	200	319	1250	214	195	13	16
6	21	234	90	102	104	305	326	1120	209	187	16	15
7	19	234	90	100	104	284	342	1100	193	158	13	32
8	17	228	88	94	104	278	374	1110	185	92	14	38
9	17	228	92	100	102	278	362	1160	185	48	16	47
10	15	237	90	114	104	284	390	1190	193	30	16	102
11	14	228	92	102	104	281	398	1160	458	16	18	120
12	15	231	90	175	104	287	398	1200	710	9.6	16	118
13	16	223	90	217	106	274	406	1170	720	10	16	108
14	16	228	92	394	123	278	414	1130	720	10	17	106
15	18	151	88	177	175	294	402	1100	740	12	13	104
16	42	112	90	153	151	291	450	1110	700	12	18	98
17	52	106	94	151	151	294	554	1100	578	11	22	81
18	53	120	92	146	298	301	546	1100	252	8.9	22	77
19	70	108	92	140	274	298	673	975	177	9.3	29	70
20	187	102	92	135	231	264	845	860	187	12	24	52
21	180	100	98	135	209	268	960	815	177	9.3	18	48
22	158	98	94	129	209	261	1200	735	200	7.7	9.6	47
23	160	102	92	120	172	264	1290	606	217	8.1	5.2	48
24	170	100	94	118	155	268	1300	494	190	8.5	9.6	44
25	190	98	94	118	151	278	1250	476	182	7.0	28	40
26	209	98	96	116	144	281	1260	422	180	7.7	21	58
27	214	96	92	116	144	278	1230	346	214	8.1	18	63
28	214	92	92	116	140	271	1130	274	243	8.5	18	62
29	214	92	90	108	133	268	1090	252	243	14	25	58
30	217	90	88	112	---	274	1180	243	249	27	24	60
31	217	---	90	108	---	281	---	237	---	18	20	---
TOTAL	2829	4841	2838	4060	4210	8061	20210	28017	9443	1958.7	550.4	1777
MEAN	91.3	161	91.5	131	145	260	674	904	315	63.2	17.8	59.2
MAX	217	237	98	394	298	305	1300	1330	740	274	29	120
MIN	14	90	88	90	102	131	278	237	177	7.0	5.2	14
AC-FT	5610	9600	5630	8050	8350	15990	40090	55570	18730	3890	1090	3520

CAL YR 1979 TOTAL 51895.7 MEAN 142 MAX 342 MIN 6.6 AC-FT 102900
WTR YR 1980 TOTAL 88795.1 MEAN 243 MAX 1330 MIN 5.2 AC-FT 176100

10164500 AMERICAN FORK ABOVE UPPER POWERPLANT, NEAR AMERICAN FORK, UTAH

LOCATION.--Lat 40°26'52", long 111°40'53", in SE1/4NW1/4NE1/4 sec.26 T.4 S., R.2 E., Utah County, Hydrologic Unit 16020201, on left bank 600 ft (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.--53 years, 54.4 ft^3/s (1.541 m^3/s), 39,410 acre-ft/yr (48.6 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, 529 ft^3/s (15.0 m^3/s) June 11, gage height, 7.22 ft (2.201 m); minimum, 14 ft^3/s (0.396 m^3/s) Dec. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	25	17	16	16	18	20	182	234	304	72	49
2	24	24	17	16	16	18	19	193	236	300	76	48
3	24	24	16	16	16	20	19	214	240	268	72	47
4	24	24	16	16	16	19	18	237	273	256	69	46
5	24	23	16	16	16	19	19	243	309	223	67	45
6	23	23	16	16	15	19	20	272	303	200	63	45
7	23	23	16	16	15	18	19	286	288	204	63	48
8	23	23	16	16	15	18	19	295	302	202	63	46
9	23	22	16	17	15	18	19	343	354	196	64	46
10	23	22	16	16	15	18	20	358	404	195	70	47
11	23	22	15	15	15	18	21	311	458	187	69	47
12	22	20	14	21	15	18	21	256	466	177	69	46
13	22	20	15	25	15	18	22	221	427	161	69	45
14	22	20	15	38	17	18	25	212	352	156	69	44
15	22	20	16	26	19	18	30	206	334	149	69	44
16	23	20	16	23	17	18	36	205	329	139	67	43
17	23	21	16	21	17	16	43	199	317	135	65	43
18	25	21	16	20	24	17	55	190	323	130	62	42
19	33	20	16	19	21	18	70	197	358	125	63	42
20	33	18	16	17	20	19	85	238	365	119	61	42
21	28	18	16	17	20	20	97	308	382	114	57	41
22	27	17	16	16	20	20	94	356	420	109	56	41
23	27	18	16	16	19	20	94	376	403	103	56	40
24	26	19	16	16	18	20	95	337	368	104	55	40
25	26	20	16	16	18	21	109	288	333	100	61	40
26	26	19	16	17	18	20	130	240	293	95	57	40
27	26	18	16	17	18	20	149	225	293	91	55	39
28	26	16	16	17	18	20	161	229	260	85	53	39
29	25	16	16	17	19	20	187	225	278	85	52	39
30	25	17	16	16	---	20	186	224	302	83	51	38
31	25	---	16	16	---	20	---	226	---	79	50	---
TOTAL	770	613	493	567	503	584	1902	7892	10004	4874	1945	1302
MEAN	24.8	20.4	15.9	18.3	17.3	18.8	63.4	255	333	157	62.7	43.4
MAX	33	25	17	38	24	21	187	376	466	304	76	49
MIN	22	16	14	15	15	16	18	182	234	79	50	38
AC-FT	1530	1220	978	1120	998	1160	3770	15650	19840	9670	3860	2580

CAL YR 1979 TOTAL 19097.2 MEAN 52.3 MAX 410 MIN 6.6 AC-FT 37880
WTR YR 1980 TOTAL 31449.0 MEAN 85.9 MAX 466 MIN 14 AC-FT 62380

10167000 JORDAN RIVER AT NARROWS, NEAR LEHI, UTAH

LOCATION.--Lat 40°26'38", long 111°55'17", in NW1/4SE1/4NW1/4 sec.26, T.4 S., R.1 W., Salt Lake County, Hydrologic Unit 16020201, at narrows 5.5 mi (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, nonrecording 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, 23,249 acre-ft (28.7 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 collected by the Jordan River Distribution System, under general supervision of the Geological Survey.

AVERAGE DISCHARGE.--67 years (1913-80), 364 ft^3/s (10.3 m^3/s), 263,700 acre-ft/yr (325 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 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	404	15	13	14	12	412	479	521	772	649	665	535
2	409	15	13	15	11	430	472	532	744	651	658	523
3	407	15	14	16	12	450	492	540	729	640	654	517
4	408	14	15	16	12	440	489	549	752	631	663	548
5	397	15	17	17	11	453	496	552	744	661	666	554
6	387	15	17	12	11	434	453	568	702	651	660	553
7	379	15	16	19	11	421	421	584	777	639	657	556
8	376	14	17	18	12	440	492	591	741	633	660	511
9	365	13	13	20	12	446	486	590	723	631	657	503
10	367	15	15	17	12	443	418	640	728	624	664	447
11	362	14	15	17	34	450	399	665	756	604	666	368
12	360	15	11	21	244	396	459	680	758	590	659	367
13	367	15	10	28	269	462	482	680	737	593	660	365
14	360	15	12	48	311	462	486	679	686	593	656	350
15	173	15	8.6	51	333	384	450	660	703	597	659	330
16	42	15	8.2	36	341	375	482	650	707	602	683	331
17	19	15	8.6	37	350	462	489	695	711	605	676	339
18	14	15	11	26	370	459	499	728	714	602	669	374
19	12	11	13	19	396	453	506	735	701	597	641	384
20	20	6.8	14	22	396	466	513	735	703	594	618	411
21	21	15	15	19	402	381	532	736	711	621	610	392
22	15	23	16	20	424	402	540	746	706	652	580	384
23	12	15	17	20	421	450	506	791	697	661	548	394
24	10	15	15	18	418	434	506	767	679	658	585	407
25	11	14	12	17	418	459	493	787	702	656	562	424
26	7.8	15	14	14	418	479	537	772	697	662	512	399
27	14	16	18	15	418	437	550	751	571	664	514	380
28	12	16	15	14	412	390	500	730	649	670	547	399
29	7.8	14	8.2	12	393	476	569	734	658	671	556	398
30	14	13	7.8	12	---	412	538	739	637	667	551	376
31	17	---	13	12	---	486	---	726	---	679	555	---
TOTAL	5769.6	438.8	412.4	642	6884	13544	14734	20853	21295	19648	19311	12819
MEAN	186	14.6	13.3	20.7	237	437	491	673	710	634	623	427
MAX	409	23	18	51	424	486	569	791	777	679	683	556
MIN	7.8	6.8	7.8	12	11	375	399	521	571	590	512	330
AC-FT	11440	870	818	1270	13650	26860	29220	41360	42240	38970	38300	25430

CAL YR 1979 TOTAL 143601.8 MEAN 393 MAX 722 MIN 6.8 AC-FT 284800
WTR YR 1980 TOTAL 136350.8 MEAN 373 MAX 791 MIN 6.8 AC-FT 270500

10167300 JORDAN RIVER AT 5800 SOUTH, NEAR SALT LAKE CITY, UT

LOCATION.--Lat 40°38'43", long 111°55'18", in NE1/4SW1/4 sec.14, T.2 S., R.1 W., Salt Lake County, Hydrologic Unit 16020204, at bridge at 5800 South, and 2.3 mi (3.7 km) southwest of Murray.

DRAINAGE AREA.--3,240 mi^2 (8,390 km^2).

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (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, TOTAL, IMMED. (COLS. PER 100 ML)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT												
25...	1100	135	2020	8.1	19.5	12.0	4.6	7.8	--	15	42	70
26...	1550	135	2020	7.9	19.5	14.5	--	7.8	--	--	--	--
NOV												
28...	1320	127	2080	8.2	6.0	7.0	--	10.6	--	--	--	K1
DEC												
06...	1100	125	2060	8.1	4.0	9.0	--	9.2	--	--	--	K8
JAN												
16...	1100	159	1950	7.9	5.5	8.5	--	8.4	--	--	--	24
FEB												
11...	1415	110	1920	8.2	3.6	8.6	--	10.8	--	--	--	K2
MAR												
06...	1300	558	1680	8.1	11.5	7.5	--	8.9	--	--	--	70
APR												
01...	1245	584	1640	8.3	8.0	8.0	--	9.8	--	--	--	K4
MAY												
19...	1115	526	1450	8.1	20.0	15.0	--	7.7	--	--	--	96
JUN												
04...	1215	598	1490	8.2	21.5	15.5	--	7.4	--	--	--	280
17...	1455	278	1720	7.7	30.5	19.5	--	--	4.3	--	--	--
JUL												
02...	1055	288	1560	7.7	--	17.0	--	6.1	--	--	--	900
AUG												
19...	0830	184	1980	7.6	--	--	--	--	--	--	--	--
25...	1040	184	1940	7.7	--	--	--	--	3.5	23	--	--
26...	1330	209	1970	7.8	--	--	--	--	4.0	25	--	--
28...	0950	204	1940	7.8	22.5	17.0	--	6.8	--	--	--	280
SEP												
16...	0845	154	2020	7.8	18.0	15.5	--	6.7	--	--	--	300

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
OCT												
25...	--	710	410	160	75	220	39	3.6	240	20	370	0
26...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
28...	--	730	430	170	74	220	39	3.5	240	20	360	0
DEC												
06...	--	720	410	170	71	210	51	3.4	220	14	380	0
JAN												
16...	--	690	390	160	70	210	52	3.5	230	18	360	0
FEB												
11...	--	690	400	160	70	160	33	2.7	180	17	350	0
MAR												
06...	--	510	240	94	66	190	44	3.7	210	16	320	0
APR												
01...	--	450	200	83	59	170	44	3.5	--	15	300	0
MAY												
19...	--	430	170	88	52	140	40	2.9	--	13	320	0
JUN												
04...	--	420	170	83	52	150	43	3.2	--	15	300	0
17...	--	470	230	102	52	160	42	3.6	--	17	--	--
JUL												
02...	380	450	--	99	49	150	41	31	--	15	--	--
AUG												
19...	--	590	330	133	63	200	41	3.9	--	18	--	--
25...	--	600	330	134	63	200	41	3.9	--	18	--	--
26...	--	580	300	128	62	200	42	4.0	--	16	--	--
28...	150	570	290	120	65	200	43	3.7	--	16	340	0
SEP												
16...	110	650	360	150	67	200	39	3.4	--	22	350	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--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	ALKALINITY (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											
25...	303	4.7	440	290	.7	33	1460	1420	1.99	532	16
26...	--	--	--	--	--	--	--	--	--	--	--
NOV											
28...	300	3.6	430	300	--	--	--	--	--	--	0
DEC											
06...	310	4.8	430	290	--	--	--	--	--	--	12
JAN											
16...	300	7.3	430	300	--	--	--	--	--	--	33
FEB											
11...	290	3.5	420	280	--	--	--	--	--	--	6
MAR											
06...	260	4.1	320	250	--	--	--	--	--	--	58
APR											
01...	250	2.4	300	240	--	--	--	--	--	--	49
MAY											
19...	260	4.1	250	190	--	--	--	--	--	--	106
JUN											
04...	246	3.4	250	210	--	--	--	--	--	--	63
17...	240	--	300	220	.8	23	--	1030	1.40	773	29
JUL											
02...	--	--	280	210	--	--	--	--	--	--	364
AUG											
19...	260	--	360	280	.8	27	1350	1250	1.84	671	20
25...	270	--	380	280	.8	28	1250	1280	1.70	621	49
26...	280	--	330	250	.8	30	1130	1200	1.54	638	139
28...	279	8.6	370	280	--	--	--	--	--	--	50
SEP											
16...	287	8.9	400	300	--	--	--	--	--	--	25

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE TOTAL (MG/L AS N)	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, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)
OCT											
25...	--	--	--	--	--	--	2.5	--	1.800	--	2.2
NOV											
28...	--	--	--	--	--	--	2.2	--	2.100	--	2.5
DEC											
06...	--	--	--	--	--	--	2.1	--	1.700	--	2.1
JAN											
16...	--	--	--	--	--	--	2.1	--	1.500	--	1.8
FEB											
11...	--	--	--	--	--	--	2.3	--	2.900	--	3.5
MAR											
06...	--	--	--	--	--	--	.81	--	.710	--	.86
APR											
01...	--	--	--	--	--	--	.69	--	.690	--	.83
MAY											
19...	--	--	--	--	--	--	.96	--	.540	--	.65
JUN											
04...	--	--	--	--	--	--	.94	--	.570	--	.69
17...	1.4	1.2	5.1	.150	.150	.49	1.5	1.3	1.200	1.200	1.5
JUL											
02...	--	--	--	--	--	--	2.7	--	.000	--	--
AUG											
19...	1.3	--	--	--	.200	.66	--	1.5	--	.140	--
25...	--	1.7	7.7	--	.170	.56	--	1.9	--	.780	--
25...	--	2.0	8.7	--	.230	.76	--	2.2	--	.920	--
25...	--	2.0	8.9	--	.190	.62	--	2.2	--	.950	--
26...	--	1.9	8.6	--	.260	.85	--	2.2	--	.890	--
28...	--	--	--	--	--	--	2.1	--	.810	--	.98
SEP											
16...	--	--	--	--	--	--	2.0	--	1.500	--	1.8

10167300 JORDAN RIVER AT 5800 SOUTH, NEAR SALT LAKE CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	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, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)
OCT											
25...	--	.20	--	2.0	--	--	4.5	20	.930	2.9	--
NOV											
28...	--	.80	--	2.9	--	--	5.1	23	.930	2.9	--
DEC											
06...	--	.90	--	2.6	--	--	4.7	21	.910	2.8	--
JAN											
16...	--	1.2	--	2.7	--	--	4.8	21	.890	2.7	--
FEB											
11...	--	.90	--	3.8	--	--	6.1	27	1.100	3.4	--
MAR											
06...	--	.99	--	1.7	--	--	2.5	11	.340	1.0	--
APR											
01...	--	2.6	--	3.3	--	--	4.0	18	.320	.98	--
MAY											
19...	--	.86	--	1.4	--	--	2.4	10	.390	1.2	--
JUN											
04...	--	.40	--	.97	--	--	1.9	8.5	.410	1.3	--
17...	1.5	.40	1.8	1.6	.00	3.0	3.1	14	.580	1.8	.490
JUL											
02...	--	1.7	--	1.7	--	--	4.4	19	1.300	--	--
AUG											
19...	.18	--	1.1	1.4	.20	--	--	--	--	--	.670
25...	1.0	--	.82	2.1	.50	1.6	--	--	.890	2.7	.760
25...	1.2	--	.78	2.2	.50	1.7	--	--	.850	2.6	.680
25...	1.2	--	1.4	2.6	.30	2.3	--	--	1.000	3.1	.690
26...	1.1	--	.91	2.1	.30	1.8	--	--	.730	2.2	.600
28...	--	1.5	--	2.3	--	--	4.4	19	.790	2.4	--
SEP											
16...	--	1.1	--	2.6	--	--	4.6	20	1.300	4.0	--

10170500 SURPLUS CANAL AT SALT LAKE CITY, UTAH

LOCATION.--Lat 40°43'37", long 111°55'33", in SE1/4SW1/4SW1/4 sec.14, T.1 S., R.1 W., Salt Lake County, Hydrologic Unit 16020204, near right bank on upstream side of diversion dam at head of canal, and 250 ft (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) National Geodetic Vertical Datum 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.--37 years, 240 ft^3/s (6.80 m^3/s), 173,900 acre-ft/yr (214 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, 1,600 ft^3/s (45.3 m^3/s) July 2, gage height, 3.48 ft (1.061 m) minimum, 96 ft^3/s (2.72 m^3/s) Dec. 31, Feb 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	212	131	117	112	112	488	564	680	920	723	216	246
2	212	128	117	120	115	507	540	644	909	1140	205	219
3	212	125	120	117	115	559	554	589	856	867	180	191
4	216	125	122	115	120	594	550	535	956	822	167	191
5	234	136	122	117	122	554	554	559	1070	734	167	194
6	227	122	122	117	122	604	564	619	926	604	142	191
7	216	122	125	115	125	526	530	686	878	502	148	242
8	208	122	125	128	115	516	535	629	932	502	148	277
9	198	120	125	128	115	531	554	755	777	474	151	289
10	201	120	125	194	110	540	526	938	816	407	154	359
11	184	122	117	174	110	550	483	777	856	309	164	330
12	177	122	117	170	180	550	497	766	938	281	154	293
13	198	117	115	190	313	550	507	728	914	269	157	277
14	201	117	115	433	420	531	493	691	867	234	157	257
15	227	120	115	246	574	526	493	702	744	219	167	223
16	230	120	117	208	447	438	497	744	686	216	184	205
17	177	120	120	174	451	579	516	772	649	198	205	177
18	187	170	120	174	569	526	530	744	822	194	205	157
19	136	134	117	160	665	483	540	718	926	205	212	167
20	342	120	117	145	670	493	559	707	914	212	261	167
21	205	115	122	139	702	550	609	696	728	216	257	191
22	160	122	134	125	867	531	594	772	707	216	230	201
23	148	125	128	125	805	516	660	856	702	216	187	201
24	142	125	122	122	772	564	624	884	609	194	177	195
25	136	125	117	125	723	564	589	890	579	201	273	206
26	128	139	117	122	579	550	624	861	584	205	350	206
27	134	131	115	122	507	564	629	774	502	191	297	208
28	134	120	112	115	497	511	530	624	465	194	267	202
29	134	117	112	122	474	516	604	619	469	187	238	205
30	134	115	110	117	---	564	728	660	550	216	234	204
31	139	---	112	112	---	564	---	755	---	216	242	---
TOTAL	5789	3747	3691	4683	11496	16639	16777	22374	23251	11364	6296	6671
MEAN	187	125	119	151	396	537	559	722	775	367	203	222
MAX	342	170	134	433	867	604	728	938	1070	1140	350	359
MIN	128	115	110	112	110	438	483	535	465	187	142	157
AC-FT	11480	7430	7320	9290	22800	33000	33280	44380	46120	22540	12490	13230

CAL YR 1979 TOTAL 117329 MEAN 321 MAX 935 MIN 87 AC-FT 232700
WTR YR 1980 TOTAL 132778 MEAN 363 MAX 1140 MIN 110 AC-FT 263400

10170750 SURPLUS CANAL AT NORTH TEMPLE, AT SALT LAKE CITY, UTAH

LOCATION.--Lat 40°16'14", long 111°58'28", in NW1/4SW1/4SE1/4 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.

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 daily discharge, 1,050 ft^3/s (29.7 m^3/s) July 2; minimum, 33 ft^3/s (0.935 m^3/s) Oct. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	77	80	87	105	480	580	769	817	800	156	190
2	152	77	82	95	105	500	580	718	940	1050	150	170
3	152	77	83	91	105	560	580	647	884	900	129	170
4	150	80	86	89	108	590	580	550	915	800	111	170
5	168	86	88	91	110	570	580	558	1000	700	100	150
6	174	78	85	90	110	600	580	647	988	540	90	140
7	162	76	88	89	110	530	580	625	835	530	94	150
8	154	84	91	102	108	520	580	593	887	550	94	170
9	143	81	92	99	104	530	560	691	862	500	94	200
10	140	67	97	189	100	540	520	898	873	440	97	250
11	127	70	86	125	100	550	500	845	894	320	99	220
12	114	67	81	124	170	550	512	834	890	290	98	190
13	133	71	80	149	310	550	520	824	870	280	98	230
14	158	78	80	286	410	530	497	700	838	230	100	280
15	176	79	81	285	550	530	502	647	754	210	110	220
16	208	80	82	172	440	460	502	694	604	200	120	200
17	123	81	85	148	420	560	525	845	550	100	130	170
18	143	130	86	150	520	530	528	782	560	130	140	160
19	240	107	85	146	620	500	528	754	647	170	160	160
20	325	100	86	147	640	534	528	757	748	160	190	165
21	204	83	94	139	670	593	534	757	754	150	160	190
22	146	83	107	127	820	555	528	769	685	145	140	200
23	136	90	98	121	800	520	528	828	642	140	160	200
24	152	88	88	119	760	550	588	873	585	115	150	190
25	143	93	86	119	710	560	609	866	550	110	140	200
26	138	106	89	122	570	550	652	848	536	107	210	110
27	137	104	86	125	500	560	694	769	513	109	220	152
28	140	86	82	114	490	520	560	566	415	116	210	154
29	154	81	82	124	470	502	604	598	497	114	200	154
30	119	78	80	110	---	560	800	631	585	129	200	155
31	55	---	84	108	---	580	---	682	---	131	210	---
TOTAL	4821	2538	2680	4082	11035	16764	16959	22565	22118	10266	4360	5460
MEAN	156	84.6	86.5	132	381	541	565	728	737	331	141	182
MAX	325	130	107	286	820	600	800	898	1000	1050	220	280
MIN	55	67	80	87	100	460	497	550	415	100	90	110
AC-FT	9560	5030	5320	8100	21890	33250	33640	44760	43870	20360	8650	10830

CAL YR 1979 TOTAL 105715 MEAN 290 MAX 911 MIN 55 AC-FT 209700
WTR YR 1980 TOTAL 123648 MEAN 338 MAX 1050 MIN 55 AC-FT 245300

10171000 JORDAN RIVER AT SALT LAKE CITY, UTAH

LOCATION.--Lat 40°44'01", long 111°55'21", in SW1/4SE1/4NW1/4 sec.14, T.1 S., R.1 W., Salt Lake County, Hydrologic Unit 16020204, on right bank at 1700 South Street and about 1000 West, Salt Lake City, 4,000 ft (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) National Geodetic Vertical Datum 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.--37 years (1943-80), 140 ft^3/s (3.96 m^3/s), 101,400 acre-ft/yr (125 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, 273 ft^3/s (7.73 m^3/s) July 1, gage height, 3.53 ft (1.076 m); minimum, 42 ft^3/s (1.19 m^3/s) Oct. 18. Maximum daily combined discharge during year (Jordan River and Surplus Canal), 1,350 ft^3/s (38.2 m^3/s) July 2; minimum daily, 228 ft^3/s (6.46 m^3/s) Feb. 1, 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165	139	120	122	116	159	152	99	179	198	171	173
2	167	138	118	124	117	158	156	105	182	214	169	170
3	169	139	119	123	116	168	160	111	176	204	167	164
4	168	139	119	122	117	174	153	146	197	183	164	168
5	171	144	119	123	118	162	146	145	213	180	164	172
6	170	142	120	122	119	167	141	144	210	176	164	171
7	167	141	120	122	123	151	134	146	203	166	164	179
8	167	142	119	125	120	149	126	140	207	165	164	183
9	166	142	119	124	120	161	124	163	188	181	164	183
10	166	140	119	103	118	163	119	191	182	196	164	190
11	165	137	118	98	118	163	113	153	178	194	164	187
12	166	137	118	117	126	164	111	145	190	188	164	185
13	169	136	118	106	135	158	122	146	186	185	163	183
14	169	136	118	150	155	157	169	159	173	174	163	180
15	170	135	118	118	157	155	162	182	166	165	161	175
16	169	133	118	119	147	146	160	169	172	168	162	171
17	112	132	119	114	143	151	158	166	178	168	162	166
18	99	139	118	112	161	157	163	153	181	162	161	162
19	152	131	117	112	157	152	169	165	180	162	166	163
20	190	124	118	114	164	154	171	172	180	162	180	157
21	152	125	121	116	168	168	181	174	171	162	180	157
22	147	123	122	121	171	156	168	171	157	163	174	160
23	148	122	120	119	142	151	128	165	152	168	166	160
24	147	122	120	117	151	162	119	159	167	168	164	159
25	145	122	120	119	170	165	114	152	176	159	179	160
26	144	127	120	119	173	164	120	148	175	153	185	160
27	145	124	122	118	164	165	117	153	167	156	188	160
28	139	121	121	117	164	159	120	164	166	159	183	158
29	132	121	121	119	162	156	107	171	174	161	178	158
30	132	121	121	118	---	160	120	174	181	163	174	162
31	135	---	121	117	---	159	---	182	---	167	174	---
TOTAL	4803	3974	3701	3670	4112	4934	4203	4813	5407	5370	5246	5076
MEAN	155	132	119	118	142	159	140	155	180	173	169	169
MAX	190	144	122	150	173	174	181	191	213	214	188	190
MIN	99	121	117	98	116	146	107	99	152	153	161	157
AC-FT	9530	7880	7340	7280	8160	9790	8340	9550	10720	10650	10410	10070

CAL YR 1979 TOTAL 47770 MEAN 131 MAX 190 MIN 92 AC-FT 94750
WTR YR 1980 TOTAL 55309 MEAN 151 MAX 214 MIN 98 AC-FT 109700

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 1979 to September 1980

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	377	270	237	234	228	647	716	779	1100	921	387	419
2	379	266	235	244	232	665	696	749	1090	1350	374	389
3	381	264	239	240	231	727	714	700	1030	1070	347	355
4	384	264	241	237	237	768	703	681	1150	1010	331	359
5	405	280	241	240	240	716	700	704	1280	914	331	366
6	397	264	242	239	241	771	705	763	1140	780	306	362
7	383	263	245	237	248	677	664	832	1080	668	312	421
8	375	264	244	253	235	665	661	769	1140	667	312	460
9	364	262	244	252	235	692	678	918	965	655	315	472
10	367	260	244	297	228	703	645	1130	998	603	318	549
11	349	259	235	272	228	713	596	930	1030	503	328	517
12	343	259	235	287	306	714	608	911	1130	469	318	478
13	367	253	233	296	448	708	629	874	1100	454	320	460
14	370	253	233	583	575	688	662	850	1040	408	320	437
15	397	255	233	364	731	681	655	884	910	384	328	398
16	399	253	235	327	594	584	657	913	858	384	346	376
17	289	252	239	288	594	730	674	938	827	366	367	343
18	286	309	238	286	730	683	693	897	1000	356	366	319
19	288	265	234	272	822	635	709	883	1110	367	378	330
20	532	244	235	259	834	647	730	879	1090	374	441	324
21	357	240	243	255	870	718	790	870	899	378	437	348
22	307	245	256	246	1040	687	762	943	864	379	404	361
23	296	247	248	244	947	667	788	1020	854	384	353	361
24	289	247	242	239	923	726	743	1040	776	362	341	354
25	281	247	237	244	893	729	703	1040	755	360	452	366
26	272	266	237	241	752	714	744	1010	759	358	535	366
27	279	255	237	240	671	729	746	927	669	347	485	368
28	273	241	233	232	661	670	650	788	631	353	450	360
29	266	238	233	241	636	672	711	790	643	348	416	363
30	266	236	231	235	---	724	848	834	731	379	408	366
31	274	---	233	229	---	723	---	937	---	383	416	---
TOTAL	10592	7721	7392	8353	15610	21573	20980	27183	28649	16734	11542	11747
MEAN	342	257	238	269	538	696	699	877	955	540	372	392
MAX	532	309	256	583	1040	771	848	1130	1280	1350	535	549
MIN	266	236	231	229	228	584	596	681	631	347	306	319
AC-FT	21010	15310	14660	16570	30960	42790	41610	53920	56830	33190	22890	23300

CAL YR 1979 TOTAL 165100 MEAN 452 MAX 1070 MIN 190 AC-FT 327500
WTR YR 1980 TOTAL 188076 MEAN 514 MAX 1350 MIN 228 AC-FT 373000

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, once-daily.
WATER TEMPERATURES: April 1975 to September 1978, 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 micromhos Mar. 29, 1977; minimum, 536 micromhos June 25, 1978.
WATER TEMPERATURES: Maximum, 28.0°C Aug. 29, 30, 1975; minimum, 0.5°C Jan. 2, 3, 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (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, TOTAL, IMMED. (COLS. PER 100 ML)
OCT											
05...	1130	171	1500	7.9	15.5	14.0	12	5.6	4.2	--	--
23...	1330	150	1710	7.7	12.0	12.5	9.0	5.9	4.7	--	--
NOV											
20...	1430	125	1700	7.9	.5	7.5	7.0	7.0	13	--	--
DEC											
12...	1215	118	1710	8.0	-1.5	5.5	.70	7.2	6.6	--	--
JAN											
17...	1230	114	1640	7.8	9.0	9.0	11	6.1	6.4	--	--
FEB											
22...	1215	157	1510	8.2	6.6	6.5	72	8.6	3.5	--	--
MAR											
14...	1200	157	1600	8.0	16.0	9.5	33	8.0	3.3	--	--
APR											
03...	1030	162	1580	8.0	8.0	8.5	36	8.3	2.9	--	--
MAY											
20...	1130	201	1200	8.0	21.0	15.0	42	6.8	2.1	--	--
JUN											
05...	1300	235	1090	8.0	18.0	13.5	54	7.1	2.2	--	--
17...	1000	177	940	7.3	21.5	12.5	--	--	2.8	--	--
JUL											
01...	1830	182	900	--	--	19.0	--	--	4.2	--	--
01...	2055	273	840	--	--	--	--	--	2.8	--	--
17...	0900	161	1615	7.5	23.0	17.0	--	4.4	--	--	3700
AUG											
19...	0945	156	1640	7.7	--	--	--	--	3.3	34	--
19...	1120	160	1620	7.5	--	--	--	--	1.6	31	--
25...	1530	196	1540	7.6	--	--	--	--	4.8	57	--
25...	1905	189	1340	7.6	--	--	--	--	4.5	57	--
26...	0945	175	1580	7.7	16.0	16.5	47	4.9	3.6	--	--
SEP											
09...	1007	176	1610	7.6	19.5	17.0	48	4.9	4.0	--	--

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)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)
OCT										
05...	--	--	480	250	100	57	170	42	3.4	190
23...	--	--	560	300	130	56	170	39	3.1	190
NOV										
20...	--	--	550	280	130	55	170	52	3.2	180
DEC										
12...	--	--	560	290	130	56	170	52	3.1	180
JAN										
17...	--	--	510	270	120	52	150	38	2.9	170
FEB										
22...	--	--	460	240	92	55	170	44	3.5	190
MAR										
14...	44	340	480	250	95	60	170	42	3.4	190
APR										
03...	470	120	440	210	87	55	160	43	3.3	--
MAY										
20...	120	K50	340	130	73	39	110	40	2.6	--
JUN										
05...	480	250	310	110	63	36	99	40	2.5	--
17...	--	--	270	120	60	29	79	38	2.3	--
JUL										
01...	--	--	260	130	59	27	79	39	2.3	--
01...	--	--	250	100	58	26	75	38	2.3	--
17...	1300	320	490	230	110	53	160	40	3.1	--
AUG										
19...	--	--	500	260	110	55	180	43	3.9	--
19...	--	--	510	270	110	57	180	43	3.8	--
25...	--	--	450	240	97	51	150	41	3.4	--
25...	--	--	380	190	82	43	130	41	3.2	--
26...	2200	890	470	250	99	54	160	42	3.2	--
SEP										
09...	1600	1100	460	230	91	56	160	43	3.3	--

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 1979 TO SEPTEMBER 1980

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (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)
OCT										
05...	17	--	--	230	--	300	250	.7	25	1130
23...	17	--	--	260	--	330	240	.6	25	1190
NOV										
20...	13	--	--	270	--	330	230	.5	24	1150
DEC										
12...	13	--	--	270	--	320	220	.5	26	1110
JAN										
17...	15	--	--	240	--	330	210	.6	22	1110
FEB										
22...	16	--	--	220	--	290	210	.6	21	995
MAR										
14...	16	320	0	230	5.1	330	220	.7	23	1030
APR										
03...	14	320	0	230	5.1	280	220	.7	21	1090
MAY										
20...	10	260	0	213	4.2	200	150	.3	17	776
JUN										
05...	11	250	0	205	4.0	170	140	.6	16	675
17...	7.9	--	--	150	--	150	100	.6	14	--
JUL										
01...	8.7	--	--	130	--	150	110	.3	13	--
01...	8.3	--	--	150	--	140	100	.5	13	--
17...	15	--	--	260	--	310	220	.9	23	1060
AUG										
19...	16	--	--	240	--	310	240	.7	24	1090
19...	16	--	--	240	--	310	240	.7	24	1080
25...	15	--	--	210	--	260	220	.6	19	972
25...	14	--	--	190	--	210	180	.6	20	831
26...	16	--	--	220	--	300	230	.7	17	997
SEP										
09...	7.0	--	--	230	--	290	230	.6	25	1040

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)
OCT										
05...	1070	1.54	522	--	--	--	--	--	--	--
23...	1140	1.62	482	--	--	--	--	--	--	--
NOV										
20...	1130	1.56	388	--	--	--	--	--	--	--
DEC										
12...	1110	1.51	354	--	--	--	--	--	--	--
JAN										
17...	1060	1.51	342	--	--	--	--	--	--	--
FEB										
22...	994	1.35	422	--	--	--	--	--	--	--
MAR										
14...	1060	1.40	437	--	--	--	--	--	--	--
APR										
03...	981	1.48	477	--	--	--	--	--	--	--
MAY										
20...	728	1.06	421	--	--	--	--	--	--	--
JUN										
05...	664	.92	428	--	--	--	--	--	--	--
17...	537	.73	257	30	1.1	1.2	<5.3	.100	.100	.33
JUL										
01...	536	.73	263	60	2.8	2.1	9.3	.150	.190	.62
01...	519	.71	383	22	1.5	1.4	6.2	.080	.190	.62
17...	1060	1.44	461	--	--	--	--	--	--	--
AUG										
19...	1090	1.48	459	47	--	1.3	5.6	--	.040	.13
19...	1080	1.47	467	58	--	.00	.00	--	.000	.00
25...	951	1.32	514	76	--	2.1	9.2	--	.320	1.1
25...	804	1.13	424	74	--	1.8	8.0	--	.300	.99
26...	1020	1.36	471	--	--	--	--	--	--	--
SEP										
09...	1010	1.41	494	--	--	--	--	--	--	--

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA 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)
OCT										
05...	2.3	2.3	1.300	1.400	1.6	1.8	1.3	.50	2.6	.70
23...	2.8	2.7	2.100	2.000	2.5	2.6	1.7	.00	3.8	1.8
NOV										
20...	3.3	3.3	3.300	3.400	4.0	4.4	--	6.1	--	--
DEC										
12...	2.9	2.8	3.300	3.300	4.0	4.3	.40	.50	3.7	.00
JAN										
17...	2.5	2.5	2.700	2.700	3.3	3.5	1.4	1.2	4.1	.20
FEB										
22...	1.6	1.5	1.200	1.100	1.5	1.4	1.3	.90	2.5	.50
MAR										
14...	1.2	1.2	1.200	1.200	1.5	1.5	1.6	.90	2.8	.70
APR										
03...	1.1	1.1	1.200	1.200	1.5	1.5	1.2	.60	2.4	.60
MAY										
20...	1.3	.04	.640	.000	.77	.00	.86	2.1	1.5	.00
JUN										
05...	1.0	1.1	.600	.560	.73	.72	.40	.54	1.0	.00
17...	1.2	1.3	.660	.700	.80	.90	.94	.80	1.6	.10
JUL										
01...	2.9	2.3	.570	1.300	.69	1.7	1.0	.60	1.6	.00
01...	1.6	1.6	.390	.090	.47	.12	1.3	1.1	1.7	.50
17...	2.5	2.5	1.500	1.600	--	2.1	1.0	.90	2.5	.00
AUG										
19...	--	1.3	--	.100	--	.13	--	1.9	2.6	.60
19...	--	.00	--	.280	--	.36	--	1.3	2.1	.50
25...	--	2.4	--	1.800	--	2.3	--	.60	3.8	1.4
25...	--	2.1	--	1.500	--	1.9	--	.90	3.3	.90
26...	2.5	1.6	.280	.000	.34	.00	1.8	2.0	2.1	.10
SEP										
09...	2.1	1.8	1.100	1.200	1.3	1.5	1.1	1.0	2.2	.00

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
OCT						
05...	1.9	4.9	22	1.500	4.6	1.300
23...	2.0	6.6	29	1.800	5.5	1.700
NOV						
20...	9.5	--	--	2.400	7.4	2.300
DEC						
12...	3.8	6.6	29	27.000	83	.000
JAN						
17...	3.9	6.6	29	1.700	5.2	1.900
FEB						
22...	2.0	4.1	18	.810	2.5	.490
MAR						
14...	2.1	4.0	18	.900	2.8	.690
APR						
03...	1.8	3.5	16	.800	2.5	.610
MAY						
20...	2.1	2.8	12	.730	2.2	.560
JUN						
05...	1.1	2.0	8.9	.610	1.9	.410
17...	1.5	2.8	12	.690	2.1	.560
JUL						
01...	1.9	4.5	20	.910	2.8	.600
01...	1.2	3.3	15	.880	2.7	.450
17...	2.5	5.0	22	2.400	--	1.900
AUG						
19...	2.0	--	--	1.600	4.9	1.600
19...	1.6	--	--	1.600	4.9	1.400
25...	2.4	--	--	1.700	5.2	.940
25...	2.4	--	--	1.600	4.9	--
26...	2.0	4.6	20	1.100	3.4	.980
SEP						
09...	2.2	4.3	19	1.500	4.6	1.200

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	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)	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 DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)
OCT											
05...	--	--	--	--	--	--	--	--	--	--	--
23...	--	480	470	10	16	16	0	--	--	50	20
NOV											
20...	--	260	240	20	11	11	0	--	--	50	20
DEC											
12...	--	--	--	--	--	--	--	--	--	--	--
FEB											
22...	--	2900	2900	40	55	38	17	--	--	110	70
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
MAY											
20...	--	1400	--	<10	25	23	2	--	--	60	40
JUN											
05...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	<10	--	--	25	--	61	--	--
JUL											
01...	--	--	--	<10	--	--	38	--	60	--	--
01...	--	--	--	16	--	--	44	--	57	--	--
AUG											
19...	--	--	--	<10	36	--	<10	--	130	--	--
19...	--	--	--	10	34	--	<10	--	130	--	--
25...	--	--	--	19	70	--	<10	--	100	--	--
25...	--	--	--	26	72	--	<10	--	110	--	--
26...	--	2500	2400	110	51	49	2	--	--	120	50
SEP											
08...	49	--	--	--	--	--	--	90	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--

DATE	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)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	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)
OCT											
05...	--	--	--	--	--	--	--	--	--	--	--
23...	30	.3	.3	.0	--	4	4	0	2	0	3
NOV											
20...	30	.1	.1	.0	--	0	0	0	2	0	2
DEC											
12...	--	--	--	--	--	--	--	--	--	--	--
FEB											
22...	40	.1	.1	.0	--	7	5	2	2	0	3
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
MAY											
20...	20	.2	.2	.0	--	4	1	3	1	0	1
JUN											
05...	--	--	--	--	--	--	--	--	--	--	--
17...	19	--	--	--	11	--	--	--	--	--	--
JUL											
01...	12	--	--	--	<10	--	--	--	--	--	--
01...	39	--	--	--	<10	--	--	--	--	--	--
AUG											
19...	20	--	--	--	<10	--	--	--	--	--	--
19...	23	--	--	--	<10	--	--	--	--	--	--
25...	26	--	--	--	<10	--	--	--	--	--	--
25...	28	--	--	--	20	--	--	--	--	--	--
26...	70	.1	.1	.0	--	7	3	4	2	0	2
SEP											
08...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, 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												
05...	1130	--	--	--	--	--	--	--	--	370	--	--
23...	1330	--	17	4	13	200	100	60	--	--	0	0
NOV												
20...	1430	--	12	-1	13	200	100	60	--	--	0	0
DEC												
12...	1215	--	--	--	--	--	--	--	--	--	--	--
FEB												
22...	1215	--	16	4	12	400	300	70	--	--	3	2
MAR												
14...	1200	--	--	--	--	--	--	--	--	--	--	--
MAY												
20...	1130	--	12	3	9	100	30	70	--	--	0	--
JUN												
05...	1300	--	--	--	--	--	--	--	--	--	--	--
17...	1000	--	--	--	--	--	--	50	<1	--	--	--
JUL												
01...	1830	--	--	--	--	--	--	50	<1	--	--	--
01...	2055	--	--	--	--	--	--	50	<1	--	--	--
AUG												
19...	0945	340	--	--	--	--	--	80	<1	--	1	--
19...	1120	340	--	--	--	--	--	70	<1	--	1	--
25...	1530	430	--	--	--	--	--	80	<1	--	1	0
25...	1905	620	--	--	--	--	--	70	<1	--	1	0
26...	0945	--	18	3	15	100	0	100	--	--	1	0
SEP												
08...	1100	--	--	--	--	--	--	--	--	--	--	--
09...	1007	--	--	--	--	--	--	--	--	--	--	--

DATE	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, RECOV. FM BOTTOM MATERIAL (UG/G)	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)
OCT												
05...	--	--	--	--	--	--	--	--	--	--	--	--
23...	<1	--	0	0	--	0	0	<3	--	15	15	0
NOV												
20...	<1	--	4	4	--	0	0	<3	--	10	5	5
DEC												
12...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
22...	<1	--	10	10	--	1	0	<3	--	41	34	7
MAR												
14...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
20...	<1	--	10	10	--	0	--	<3	--	16	11	5
JUN												
05...	--	--	--	--	--	--	--	--	--	--	--	--
17...	<1	--	--	--	--	--	--	<3	--	--	--	<10
JUL												
01...	<1	--	--	--	--	--	--	<3	--	--	--	<10
01...	<1	--	--	--	--	--	--	<3	--	--	--	<10
AUG												
19...	<1	--	13	--	--	2	--	<3	--	23	--	<10
19...	<1	--	13	--	--	1	--	<3	--	23	--	<10
25...	2	--	11	--	--	2	--	<3	--	37	--	<10
25...	3	--	11	--	--	1	0	4	--	50	38	12
26...	1	--	10	0	--	1	0	1	--	46	41	5
SEP												
08...	--	2	--	--	5	--	--	--	0	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	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)	SILVER, RECOV. FM BOTTOM MATERIAL (UG/G AS AG)	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)
OCT											
05...	--	--	--	--	--	--	--	--	--	--	--
23...	--	0	0	0	--	--	--	0	0	20	--
NOV											
20...	--	0	0	0	--	--	--	40	20	20	--
DEC											
12...	--	1	--	--	--	--	--	--	--	--	--
FEB											
22...	--	1	1	0	--	--	--	90	70	20	--
MAR											
14...	--	2	--	--	--	--	--	--	--	--	--
MAY											
20...	--	0	0	0	--	--	--	50	40	9	--
JUN											
05...	--	0	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	620	<6.0	--	--	18	--
JUL											
01...	--	--	--	--	--	600	<6.0	--	--	14	--
01...	--	--	--	--	--	600	<6.0	--	--	44	--
AUG											
19...	--	1	--	--	--	1100	<6.0	70	60	12	--
19...	--	1	--	--	--	1100	7.0	60	50	11	--
25...	--	1	--	--	--	900	7.0	130	120	13	--
25...	--	1	--	--	--	910	11	110	90	17	--
26...	--	1	1	0	--	--	--	180	170	10	--
SEP											
08...	1	--	--	--	1	--	--	--	--	--	130
09...	--	1	--	--	--	--	--	--	--	--	--

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)	CARBON, INORGANIC, DISSOLVED (MG/L AS C)
OCT					
05...	1130	12	--	--	--
23...	1330	--	4.9	.9	--
NOV					
20...	1430	--	.0	1.0	--
DEC					
12...	1215	15	--	--	--
JAN					
17...	1230	8.5	--	--	--
FEB					
22...	1215	--	11	2.1	--
MAR					
14...	1200	16	--	--	--
APR					
03...	1030	13	--	--	--
MAY					
20...	1130	--	10	2.0	--
JUN					
05...	1300	8.6	--	--	--
17...	1000	--	--	--	17
JUL					
01...	1830	--	5.6	--	--
01...	2055	--	11	--	--
17...	0900	13	--	--	--
AUG					
19...	0945	--	12	3.8	--
19...	1120	--	9.4	3.3	--
25...	1530	--	13	4.2	--
25...	1905	--	13	2.2	--
26...	0945	--	7.3	2.4	--
SEP					
09...	1007	15	--	--	--

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)
OCT						
23...	1330	27.4	23.9	102	15.8	34.3
DEC						
12...	1215	9.76	8.82	14.6	.490	64.4
APR						
03...	1030	7.72	7.17	20.7	4.64	26.6
JUN						
05...	1300	15.2	12.6	18.2	4.80	143

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	OCT 5,79	NOV 19,79	MAR 14,80	MAY 20,80
TIME	1130	1430	1200	1130
TOTAL CELLS/ML	370000	13000	8400	820
DIVERSITY: DIVISION	0.2	0.8	1.1	1.4
.CLASS	0.2	0.8	1.1	1.4
..ORDER	0.2	1.6	1.5	1.8
...FAMILY	0.4	2.0	2.2	2.6
....GENUS	0.5	2.1	2.3	2.6

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHAETOPHORALES								
...								
....CHLOROSARCINOPSIS	--	-	5300#	41	--	-	--	-
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	64	8
...MICRACTINIACEAE								
....GOLENKINIA	--	-	130	1	64	1	--	-
....MICRACTINIUM	--	-	--	-	1700#	21	230#	28
...OOCYSTACEAE								
....ANKISTRODESMUS	*	0	66	1	3600#	43	26	3
....CHLORELLA	2700	1	4800#	37	--	-	--	-
....CLOSTERIOPSIS	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	64	1	--	-
....OOCYSTIS	2000	1	200	2	--	-	52	6
....TREUBARIA	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	270	2	--	-	--	-
....SCENEDESMUS	*	0	200	2	--	-	--	-
..TETRASPORALES								
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	--	-	100	13
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	640	8	--	-
...VOLVOCACEAE								
....PANDORINA	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	*	0	--	-	--	-	--	-
....STEPHANODISCUS	--	-	--	-	130	2	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	64	1	--	-
....COCCONEIS	*	0	--	-	--	-	--	-
....RHOICOSPHENIA	*	0	66	1	64	1	--	-
...CYMBELLACEAE								
....CYMBELLA	*	0	--	-	--	-	--	-
...DIATOMACEAE								
....DIATOMA	--	-	--	-	--	-	--	-
...FRAGILARIACEAE								
....FRAGILARIA	--	-	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	--	-	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	*	0	--	-	--	-	--	-
...NAVICULACEAE								
....NAVICULA	*	0	800	6	380	5	13	2
...NITZSCHIACEAE								
....NITZSCHIA	*	0	460	4	64	1	52	6
...SURIRELLACEAE								
....SURIRELLA	--	-	--	-	--	-	13	2
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	*	0	--	-	--	-	--	-
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	7400	2	--	-	--	-	--	-
...OSCILLATORIACEAE								
....LYNGBYA	--	-	--	-	--	-	--	-
....OSCILLATORIA	350000#	94	660	5	1600#	19	260#	31
....SCHIZOTHRIX	4900	1	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	--	-	13	2

See footnotes at end of table.

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	JUN 5,80	JUL 17,80	AUG 26,80	SEP 7,80
TIME	1300	0900	0945	1007
TOTAL CELLS/ML	3600	39000	100000	86000
DIVERSITY: DIVISION	1.4	0.3	0.3	0.1
.CLASS	1.4	0.3	0.3	0.1
..ORDER	2.3	1.2	1.1	0.9
...FAMILY	3.6	1.6	1.1	0.9
....GENUS	3.9	1.7	1.1	0.9

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHAETOPHORALES								
...								
....CHLOROSARCINOPSIS	--	-	--	-	--	-	--	-
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	110	3	--	-	--	-	--	-
...MICRACTINIACEAE								
....GOLENKINIA	--	-	*	0	--	-	--	-
....MICRACTINIUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	390	11	*	0	550	1	--	-
....CHLORELLA	--	-	--	-	--	-	--	-
....CLOSTERIOPSIS	28	1	--	-	--	-	--	-
....DICTYOSPHAERIUM	83	2	--	-	--	-	--	-
....OOCYSTIS	--	-	*	0	--	-	--	-
....TREUBARIA	28	1	--	-	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	--	-	--	-
....SCENEDESMUS	--	-	500	1	--	-	690	1
..TETRASPORALES								
...PALMELLACEAE								
....SPHAEROCYSTIS	190	5	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	110	3	*	0	--	-	--	-
...VOLVOCACEAE								
....PANDORINA	170	5	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	300	8	*	0	550	1	--	-
....STEPHANODISCUS	28	1	--	-	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	110	3	--	-	--	-	--	-
....COCCONEIS	--	-	--	-	--	-	--	-
....RHOICOSPHENIA	--	-	*	0	*	0	--	-
...CYMBELLACEAE								
....CYMBELLA	55	2	--	-	--	-	--	-
...DIATOMACEAE								
....DIATOMA	28	1	--	-	--	-	--	-
...FRAGILARIACEAE								
....FRAGILARIA	83	2	--	-	--	-	--	-
....SYNEDRA	55	2	--	-	--	-	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	--	-	*	0	--	-
...NAVICULACEAE								
....NAVICULA	390	11	250	1	2200	2	--	-
...NITZSCHIACEAE								
....NITZSCHIA	770#	21	250	1	*	0	--	-
...SURIRELLACEAE								
....SURIRELLA	83	2	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	--	-	*	0
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	83	2	14000#	35	74000#	72	63000#	74
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	220	6	19000#	50	25000#	24	22000#	25
...OSCILLATORIACEAE								
....LYNGBYA	170	5	--	-	--	-	--	-
....OSCILLATORIA	140	4	4400	11	--	-	--	-
....SCHIZOTHRIX	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT						
05...	1130	171	14.0	80	65	30
23...	1330	150	12.5	81	37	15
NOV						
20...	1430	125	7.5	67	20	6.7
DEC						
12...	1215	118	5.5	83	18	5.7
JAN						
17...	1230	114	9.0	86	34	10
FEB						
22...	1215	157	6.5	89	225	95
MAR						
14...	1200	157	9.5	89	83	35
APR						
03...	1030	162	8.5	90	105	46
MAY						
20...	1130	201	15.0	96	160	87
JUN						
05...	1300	235	13.5	79	170	108
JUL						
17...	0900	161	17.0	88	75	33
AUG						
26...	0945	175	16.5	83	209	99
SEP						
09...	1007	176	17.0	96	194	92

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 NW1/4SW1/4NE1/4 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, 1.7 mi (2.7 km) northeast of Fort Douglas, and 4.7 mi (7.6 km) east of Salt Lake City Post Office.

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 Offices Geological Survey.

GAGE.--Water-stage recorder and concrete Parshall flume. 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.--17 years, 4.12 ft^3/s (0.117 m^3/s), 2,980 acre-ft/yr (3.67 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.--Peak discharge above base of 10 ft^3/s (0.28 m^3/s); maximum discharge 15 ft^3/s (0.42 m^3/s) April 22, gage height, 1.53 ft (0.466 m); minimum, 0.61 ft^3/s (0.017 m^3/s) Nov. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.4	1.4	1.4	1.2	2.7	2.7	12	7.9	4.5	2.4	1.8
2	1.0	1.5	1.4	1.3	1.3	2.6	2.7	12	7.9	4.4	2.3	1.7
3	1.0	1.5	1.4	1.3	1.2	3.2	2.8	11	7.6	4.1	2.3	1.7
4	1.0	1.4	1.4	1.3	1.2	3.2	2.9	11	7.3	4.1	2.2	1.7
5	1.0	1.6	1.4	1.3	1.2	3.1	3.1	10	7.2	3.8	2.2	1.6
6	1.1	1.6	1.4	1.3	1.2	3.0	3.2	9.9	7.0	3.7	2.2	1.6
7	1.0	1.5	1.4	1.3	1.2	2.9	3.3	9.4	6.8	3.8	2.2	1.8
8	1.1	1.5	1.4	1.3	1.2	2.8	3.3	9.0	6.6	3.8	2.2	1.7
9	1.1	1.5	1.4	1.4	1.2	2.7	3.5	10	6.4	3.6	2.1	1.9
10	1.1	1.5	1.4	1.3	1.2	2.7	3.7	11	6.3	3.4	2.1	1.9
11	1.2	1.5	1.3	1.4	1.2	2.8	3.8	10	6.1	3.4	2.0	2.2
12	1.2	1.5	1.2	1.9	1.2	2.6	4.0	10	5.9	3.4	2.0	2.2
13	1.2	1.5	1.3	2.0	1.2	2.6	4.1	10	5.7	3.3	1.9	2.0
14	1.2	1.5	1.3	2.5	1.4	2.8	4.4	10	5.7	3.2	1.9	1.9
15	1.2	1.4	1.3	1.8	2.3	2.8	4.9	10	5.6	3.2	2.0	1.9
16	1.3	1.4	1.3	1.6	1.8	2.7	5.7	10	5.4	3.1	2.0	1.8
17	1.3	1.4	1.3	1.6	2.0	2.6	6.5	10	5.2	3.0	2.0	1.8
18	1.4	1.6	1.3	1.5	4.1	2.7	7.8	10	5.1	3.0	1.9	1.8
19	1.6	1.5	1.3	1.4	4.1	2.6	9.4	10	5.0	2.9	2.1	1.8
20	2.1	1.4	1.3	1.3	3.7	2.5	11	9.9	4.9	2.8	2.1	1.8
21	1.6	1.4	1.4	1.4	3.1	2.7	12	9.8	4.7	2.8	2.0	1.9
22	1.5	1.2	1.4	1.3	2.8	2.6	14	9.5	4.6	2.8	1.9	1.9
23	1.5	1.5	1.3	1.3	2.6	2.6	14	9.4	4.6	2.7	1.9	1.9
24	1.5	1.5	1.3	1.3	2.3	2.6	13	9.4	4.5	2.7	1.9	1.9
25	1.5	1.5	1.3	1.2	2.3	2.6	12	9.3	4.4	2.6	2.2	1.9
26	1.4	1.5	1.3	1.3	2.5	2.5	13	9.1	4.2	2.5	2.1	1.8
27	1.5	1.4	1.4	1.3	2.8	2.6	12	8.6	4.2	2.5	1.8	1.8
28	1.5	1.2	1.3	1.3	2.8	2.6	12	8.5	4.2	2.4	1.8	1.7
29	1.5	1.4	1.4	1.3	2.7	2.6	13	8.8	4.1	2.4	1.8	1.7
30	1.5	1.4	1.3	1.2	---	2.6	13	8.4	4.0	2.5	1.8	1.6
31	1.4	---	1.3	1.2	---	2.8	---	8.2	---	2.5	1.8	---
TOTAL	40.5	43.7	41.6	44.3	59.0	84.4	220.8	304.2	169.1	98.9	63.1	54.7
MEAN	1.31	1.46	1.34	1.43	2.03	2.72	7.36	9.81	5.64	3.19	2.04	1.82
MAX	2.1	1.6	1.4	2.5	4.1	3.2	14	12	7.9	4.5	2.4	2.2
MIN	1.0	1.2	1.2	1.2	1.2	2.5	2.7	8.2	4.0	2.4	1.8	1.6
AC-FT	80	87	83	88	117	167	438	603	335	196	125	108

CAL YR 1979 TOTAL 937.42 MEAN 2.57 MAX 9.9 MIN .81 AC-FT 1860
WTR YR 1980 TOTAL 1224.30 MEAN 3.35 MAX 14 MIN 1.0 AC-FT 2430

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.

INSTRUMENTATION.--Temperature recorder April 1964 to September 1978.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 24.0°C July 29, 31, Aug. 1, 3, 4, 1969; minimum, 0.0°C on many days during winter period of most years.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	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)
OCT											
22...	1410	1.5	660	8.1	9.3	6.0	--	550	K24	K52	350
NOV											
21...	1245	1.2	620	8.4	-1.0	2.0	10.8	550	K8	K20	350
DEC											
10...	1200	1.4	640	8.5	2.5	2.0	10.8	K32	K10	19	360
JAN											
07...	1130	1.3	640	8.4	-2.5	.0	11.7	100	K4	7	360
FEB											
19...	1300	4.1	610	8.4	8.5	5.0	10.8	610	K2	K17	350
MAR											
11...	1200	2.7	600	8.2	8.0	5.0	10.4	84	<1	K2	340
APR											
22...	1030	13	425	8.4	19.0	8.0	9.5	540	K18	K10	230
MAY											
07...	1100	9.4	470	8.5	14.0	8.0	9.8	150	K4	K8	260
JUN											
06...	1200	7.0	520	8.5	9.5	9.0	9.4	480	K4	K6	270
JUL											
22...	1130	2.9	560	8.2	--	13.5	8.0	51	40	50	300
AUG											
22...	1010	2.1	630	8.0	--	8.0	9.1	270	20	52	300
SEP											
23...	1150	1.9	600	7.9	--	7.5	9.7	40	11	35	310

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)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
OCT										
22...	100	96	27	14	8	.3	--	1.4	300	0
NOV										
21...	91	95	28	14	11	.3	15	1.0	300	8
DEC										
10...	77	99	28	13	10	.3	14	1.1	300	22
JAN										
07...	100	96	28	13	7	.3	14	1.0	300	8
FEB										
19...	130	97	25	13	8	.3	14	1.3	250	8
MAR										
11...	130	94	26	12	7	.3	13	1.1	260	0
APR										
22...	40	65	16	10	9	.3	--	1.0	220	6
MAY										
07...	32	72	19	10	8	.3	--	.9	260	9
JUN										
06...	10	72	21	10	8	.3	--	.9	290	13
JUL										
22...	58	78	25	12	8	.3	--	1.0	--	--
AUG										
22...	81	79	25	13	9	.4	--	1.0	--	--
SEP										
23...	77	80	26	13	8	.3	--	1.2	--	--

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	ALKA-LINITY (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...	246	3.8	110	15	.1	12	434	424	.59	1.76
NOV										
21...	259	2.0	140	15	.1	11	448	460	.61	1.45
DEC										
10...	283	1.7	110	12	.1	11	430	444	.58	1.63
JAN										
07...	259	2.0	120	14	.2	11	402	439	.55	1.41
FEB										
19...	218	1.7	150	19	.2	12	415	449	.56	4.59
MAR										
11...	210	2.6	120	16	.1	9.7	409	405	.56	2.98
APR										
22...	190	1.5	61	11	.2	11	283	291	.38	9.93
MAY										
07...	228	1.4	51	9.2	.1	10	313	309	.43	7.94
JUN										
06...	260	1.6	63	12	.4	9.9	340	345	.46	6.43
JUL										
22...	240	--	79	11	.3	11	372	362	.51	2.91
AUG										
22...	220	--	89	11	.2	12	362	36	.49	2.05
SEP										
23...	--	--	96	13	.1	11	465	379	.63	2.39

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS PO4)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS PO4)
OCT						
22...	.00	.00	.040	.12	--	--
NOV						
21...	.05	.07	.040	.12	.060	.18
DEC						
10...	.08	.07	.010	.03	.060	.18
JAN						
07...	.04	.02	.040	.12	.020	.06
FEB						
19...	.09	.10	.040	.12	.030	.09
MAR						
11...	.03	.03	.030	.09	.010	.03
APR						
22...	.04	.05	.120	.37	.100	.31
MAY						
07...	.12	.01	.050	.15	.010	.03
JUN						
06...	.04	.03	.040	.12	.050	.15
JUL						
22...	.00	.00	--	--	.010	.03
AUG						
22...	.00	.00	.030	--	.020	.06
SEP						
23...	.00	.00	.090	--	.010	.03

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, SUS-PENDED RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)
OCT										
22...	1410	1	0	1	200	--	70	<1	0	<1
APR										
22...	1030	3	1	2	300	200	60	<1	0	<1

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL 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, DISSOLVED (UG/L AS PB)
OCT										
22...	0	0	<3	1	<10	160	--	17	1	<10
APR										
22...	0	0	<3	5	<10	2400	2400	20	6	<10

DATE	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)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, TOTAL (UG/L AS SE)
OCT									
22...	15	50	--	37	.0	.0	.0	<10	1
APR									
22...	11	170	160	13	.0	.0	.0	<10	1

DATE	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)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
OCT									
22...	1	0	0	0	0	540	<6.0	0	9
APR									
22...	0	1	3	3	0	310	<3.0	20	<3

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM DISSOLVED, EXTRACTION (UG/L)
APR									
22...	1030	<3.2	2.6	<2.0	1.5	<2.0	1.6	.10	1.2

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PCB TOTAL (UG/L)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL (UG/L)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL (UG/L)
OCT										
22...	1410	--	.00	--	--	--	--	--	--	--
APR										
22...	1030	7.5	.00	.00	0	.00	.0	.0	1	.00

DATE	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)
OCT										
22...	--	--	--	--	--	--	--	--	--	--
APR										
22...	.0	.00	.1	.00	.0	.00	.00	.0	.00	.00

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOVER 1979 TO SEPTEMBER 1980

DATE	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	MALATHION, TOTAL (UG/L)
OCT									
22...	--	--	--	--	--	--	--	--	--
APR									
22...	.0	.00	.00	.0	.00	.0	.00	.0	.00

DATE	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)	PARATHION, TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)
OCT									
22...	--	--	--	--	--	--	--	--	--
APR									
22...	.00	.00	.00	.00	0	0	.00	.00	.00

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE, WATER (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT					
22...	1410	1.5	6.0	50	.20
FEB					
19...	1300	4.1	5.0	22	.24
MAR					
11...	1200	2.7	5.0	48	.35
APR					
22...	1030	13	8.0	55	1.9
MAY					
07...	1100	9.4	8.0	16	.41
JUN					
06...	1200	7.0	9.0	41	.77
JUL					
22...	1130	2.9	13.5	32	.25
SEP					
23...	1150	1.9	7.5	17	.09

10172550 JORDAN RIVER AT 5TH NORTH AT SALT LAKE CITY, UTAH

LOCATION.--Lat 40°46'49", long 111°56'16", in SW1/4NW1/4NE1/4 sec.34, T.1 N., R.1 W., Salt Lake County, 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.--5 years, 175 ft^3/s (4.96 m^3/s), 126,800 acre-ft/yr (156 hm^3/yr).

EXTREMES FOR 1975-80: 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, 395 ft^3/s (11.2 m^3/s) Jan. 14, gage height, 3.93 ft (1.198 m); minimum recorded, 60 ft^3/s (1.70 m^3/s) Oct. 18 (discharge measurement).

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 667 ft^3/s (18.9 m^3/s) was measured May 5, 1952 at 9th North Street.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	171	135	122	129	122	164	187	251	240	242	192	197
2	163	134	121	129	120	164	180	273	254	277	185	190
3	168	132	121	124	122	196	180	209	272	243	180	184
4	170	133	121	124	126	219	180	224	301	231	182	186
5	173	161	122	124	127	181	180	226	301	201	184	195
6	174	137	121	123	128	217	178	226	293	192	187	198
7	168	135	122	124	138	165	176	234	266	189	187	215
8	166	134	120	137	128	158	160	261	267	192	189	207
9	165	132	120	139	124	170	163	309	251	198	190	214
10	165	131	120	132	124	170	159	320	238	216	188	230
11	164	128	120	100	123	185	153	302	235	216	186	229
12	167	128	120	128	130	212	154	302	238	210	183	216
13	169	127	121	119	142	188	161	289	237	198	183	203
14	170	127	123	236	178	187	219	309	222	189	183	198
15	170	127	124	140	198	187	209	270	226	181	189	196
16	175	128	124	153	157	181	207	286	232	180	185	195
17	117	137	125	138	152	183	207	303	225	180	178	187
18	104	170	121	122	244	188	222	277	223	177	171	178
19	180	135	120	116	207	186	253	285	223	172	186	180
20	281	131	120	123	211	188	259	295	221	173	203	174
21	160	127	143	123	230	242	284	252	216	177	207	174
22	149	123	139	126	216	205	296	236	205	175	204	175
23	150	127	128	125	173	191	278	246	196	187	189	172
24	146	127	124	124	161	216	271	258	201	180	185	170
25	143	129	124	124	178	215	263	284	209	181	209	170
26	142	143	123	123	183	202	276	276	202	168	210	170
27	142	129	124	123	173	212	270	269	203	167	214	171
28	137	124	124	123	171	192	271	233	203	175	207	166
29	132	123	123	124	170	192	255	259	203	173	205	168
30	130	123	123	124	---	209	285	238	203	182	198	167
31	132	---	123	122	---	204	---	248	---	188	197	---
TOTAL	4943	3977	3826	4021	4656	5969	6536	8252	7006	6010	5936	5675
MEAN	159	133	123	130	161	193	218	266	234	194	191	189
MAX	281	170	143	236	244	242	296	320	301	277	214	230
MIN	104	123	120	100	120	158	153	209	196	167	171	166
AC-FT	9800	7890	7590	7980	9240	11840	12960	16370	13900	11920	11770	11260

CAL YR 1979 TOTAL 57462 MEAN 157 MAX 281 MIN 104 AC-FT 114000
WTR YR 1980 TOTAL 66807 MEAN 183 MAX 320 MIN 100 AC-FT 132500

10172630 GOGGIN DRAIN NEAR MAGNA, UT

LOCATION.--Lat 40°49'00", long 112°06'00", in SW1/4NW1/4SW1/4 sec.17, T.1 N., R.2 W., Salt Lake County, Hydrologic Unit 16020204, about 7 mi (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.--14 years, 122 ft^3/s (3.46 m^3/s), 88,390 acre-ft/yr (109 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, 754 ft^3/s (21.4 m^3/s) July 2, gage height, 4.84 ft (0.475 m) from HWM; minimum daily, 2.4 ft^3/s (0.068 m^3/s) Aug. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	6.0	21	19	5.0	342	440	546	564	321	2.4	5.5
2	36	6.0	21	20	5.0	352	419	484	712	556	7.5	5.5
3	37	6.0	22	20	5.0	377	413	458	672	607	9.7	7.7
4	32	6.5	22	19	5.0	422	419	377	666	569	12	11
5	31	10	16	19	5.0	404	422	379	718	547	8.7	7.0
6	28	13	15	20	5.5	451	428	404	726	457	15	5.5
7	25	13	16	20	6.0	422	415	431	610	298	18	13
8	25	13	16	21	5.0	398	411	406	612	332	15	25
9	26	13	18	24	5.0	389	431	472	634	349	13	25
10	26	14	18	27	5.0	389	422	640	599	232	13	25
11	28	15	16	29	5.0	391	387	602	626	145	10	23
12	31	15	13	29	5.0	396	383	580	623	137	9.9	18
13	31	17	13	31	71	379	402	562	629	120	12	46
14	19	15	14	98	212	389	381	526	607	91	19	112
15	18	15	15	154	308	389	379	504	558	89	19	81
16	19	24	15	146	319	329	379	534	473	89	19	8.0
17	23	73	12	122	306	300	385	629	424	39	21	13
18	74	70	10	112	342	362	397	591	396	10	21	10
19	22	44	10	82	433	342	400	546	390	10	19	10
20	164	18	10	11	419	334	402	549	431	10	21	7.4
21	134	15	12	7.5	484	398	454	554	466	11	17	6.4
22	113	14	12	5.0	546	422	463	546	459	14	8.0	5.5
23	75	15	13	5.0	477	398	477	591	431	11	7.0	5.5
24	10	15	12	5.0	438	368	489	623	377	19	18	5.5
25	7.0	16	12	5.0	406	435	442	618	348	17	14	5.5
26	6.0	18	12	5.0	381	451	424	604	319	18	13	5.5
27	6.0	18	10	5.0	358	451	449	556	286	15	14	5.5
28	6.0	17	9.5	5.0	358	433	408	443	230	16	18	5.5
29	6.0	16	10	5.0	352	396	398	437	182	11	5.5	5.5
30	6.0	20	20	5.0	---	424	496	457	229	11	6.0	5.5
31	6.0	---	20	5.0	---	424	---	482	---	5.1	5.5	---
TOTAL	1107.0	570.5	455.5	1080.5	6271.5	12157	12615	16131	14997	5156.1	411.2	514.5
MEAN	35.7	19.0	14.7	34.9	216	392	421	520	500	166	13.3	17.2
MAX	164	73	22	154	546	451	496	640	726	607	21	112
MIN	6.0	6.0	9.5	5.0	5.0	300	379	377	182	5.1	2.4	5.5
AC-FT	2200	1130	903	2140	12440	24110	25020	32000	29750	10230	816	1020

CAL YR 1979 TOTAL 51760.4 MEAN 142 MAX 634 MIN 3.9 AC-FT 102700
WTR YR 1980 TOTAL 71466.8 MEAN 195 MAX 726 MIN 2.4 AC-FT 141800

10172630 GOGGIN DRAIN NEAR MAGNA, UTAH—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO
OCT												
29...	1430	6.1	5600	8.5	7.5	730	370	110	110	1100	87	18
NOV												
28...	1455	22	3700	8.3	1.5	660	350	120	88	630	66	11
DEC												
27...	1540	12	4600	8.3	2.0	660	350	110	93	750	70	13
JAN												
16...	1550	133	2100	7.7	8.0	560	310	120	64	250	62	4.6
MAR												
20...	1225	347	1750	7.9	9.5	460	230	87	59	210	49	4.3
APR												
24...	1545	466	1500	7.9	13.0	370	180	73	46	150	46	3.4
MAY												
29...	1625	428	1450	7.8	15.0	390	120	81	45	140	43	3.1
JUN												
24...	1230	359	1000	7.6	16.0	280	110	61	31	100	43	2.6
JUL												
22...	1140	16	3700	8.5	24.0	600	330	110	80	600	67	11
AUG												
14...	1450	21	2770	8.6	24.0	610	470	120	75	380	58	6.7
SEP												
18...	1330	13	4300	8.5	17.0	660	380	110	94	710	70	12

DATE	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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)	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											
29...	1200	57	360	640	1500	.8	--	23	3760	5.11	61.9
NOV											
28...	670	39	310	500	890	.7	2.0	21	2480	3.37	145
DEC											
27...	790	40	310	510	1100	.8	2.8	21	2810	3.82	94.1
JAN											
16...	270	22	250	320	360	.6	.8	25	1310	1.78	470
MAR											
20...	--	18	230	310	260	.7	.7	23	1110	1.51	1040
APR											
24...	--	13	190	250	210	.6	--	19	881	1.20	1110
MAY											
29...	--	12	270	210	200	.6	--	18	875	1.19	1010
JUN											
24...	--	8.9	170	160	130	.6	--	14	608	.83	589
JUL											
22...	--	32	270	480	790	.8	--	11	2270	3.09	97.5
AUG											
14...	--	.6	140	450	560	.8	--	15	1690	2.30	95.8
SEP											
18...	--	2.9	280	520	1100	.9	--	21	2740	3.73	92.5

10172630 GOGGIN DRAIN NEAR MAGNA, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)
OCT				
29...	1.0	1.100	--	--
NOV				
28...	--	1.400	--	--
DEC				
27...	--	.040	--	--
MAR				
20...	--	.940	--	--
APR				
24...	1.1	--	.590	1.8
MAY				
29...	1.3	--	.700	2.1
JUN				
24...	--	--	.640	2.0
JUL				
22...	.01	--	.810	2.5
AUG				
14...	.62	--	1.000	3.1
SEP				
18...	1.9	--	.410	1.3

DATE	TIME	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)
OCT							
29...	1430	--	--	1200	--	--	10
NOV							
28...	1455	--	--	660	--	--	30
DEC							
27...	1540	--	--	780	--	--	30
JAN							
16...	1550	--	--	480	--	--	30
MAR							
20...	1225	--	--	360	--	--	10
APR							
24...	1545	11	70	250	<1	4	<10
MAY							
29...	1625	--	--	270	--	--	--
JUN							
24...	1230	--	--	220	--	--	10
JUL							
22...	1140	--	--	590	--	--	20
AUG							
14...	1450	--	--	640	--	--	40
SEP							
18...	1330	--	--	930	--	--	10

DATE	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT							
29...	--	--	--	--	--	--	--
NOV							
28...	--	--	--	--	--	--	--
DEC							
27...	--	--	--	--	--	--	--
JAN							
16...	--	--	--	--	--	--	--
MAR							
20...	--	--	--	--	--	--	--
APR							
24...	4	120	30	.1	1	0	10
MAY							
29...	--	--	--	--	--	--	--
JUN							
24...	--	--	30	--	--	--	--
JUL							
22...	--	--	110	--	--	--	--
AUG							
14...	--	--	70	--	--	--	--
SEP							
18...	--	--	80	--	--	--	--

10172640 LEE CREEK NEAR MAGNA, UTAH

LOCATION.--Lat 40°46'50", long 112°08'19", in SW1/4NW1/4NW1/4 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 for period of no gage-height record, which are poor.

AVERAGE DISCHARGE.--9 years, 3.94 ft^3/s (0.112 m^3/s), 2,850 acre-ft/yr (3.51 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 daily discharge, 21 ft^3/s (0.595 m^3/s) Feb. 19; minimum, 0.20 ft^3/s (0.006 m^3/s) July 29, 31.

EXTREMES FOR 1978 WATER YEAR.--Maximum discharge, 191 ft^3/s (5.41 m^3/s) Aug. 14, gage height, 3.63 ft (1.106 m); minimum, 0.06 ft^3/s (0.002 m^3/s) Sept. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.69	.79	.89	.96	1.0	2.5	7.9	5.3	1.6	2.4	.22	1.4
2	.76	.76	.98	.92	1.0	2.5	5.5	2.8	2.0	20	.42	1.1
3	.76	.86	1.1	.90	1.0	2.5	4.5	1.9	4.3	19	.58	1.1
4	.82	.83	1.0	.90	1.0	2.4	3.6	1.4	2.4	14	.69	4.8
5	.79	1.2	1.2	.90	1.0	2.4	2.8	1.3	2.1	8.0	.80	5.4
6	.69	1.5	1.3	.90	1.0	2.4	2.4	1.2	1.8	2.3	8.1	4.7
7	.59	1.6	1.2	.93	1.0	2.4	3.5	1.3	1.5	1.2	2.7	8.1
8	3.4	1.6	1.0	1.6	1.0	2.4	2.7	1.2	1.3	1.3	1.8	10
9	3.4	1.4	1.1	1.8	1.0	2.3	2.2	6.2	1.0	2.0	1.3	10
10	2.0	1.2	1.1	3.5	1.2	2.1	2.1	9.2	.92	2.3	1.6	13
11	1.8	1.0	.98	4.6	1.3	2.0	2.1	6.0	.85	2.2	4.1	12
12	1.0	.90	.80	5.0	1.5	1.9	2.0	8.4	.62	1.9	7.1	12
13	.93	.95	.78	5.4	1.5	1.8	1.7	4.9	.75	1.0	9.1	12
14	.68	.98	.89	5.8	1.5	1.7	1.6	3.4	.75	.55	10	12
15	1.5	.87	.97	6.4	1.7	1.6	2.0	2.8	.53	1.1	11	8.5
16	2.4	.85	.91	6.9	2.0	1.5	2.4	4.4	.41	1.0	11	7.5
17	1.7	.86	.82	6.6	3.0	1.5	2.9	8.4	.55	.96	6.1	6.6
18	2.9	1.4	.89	10	9.0	1.4	2.7	5.7	.65	.92	4.5	5.6
19	5.1	1.4	.90	7.4	21	1.3	2.0	5.5	.55	.72	6.3	5.4
20	19	2.1	.91	2.0	20	1.3	1.0	6.6	.55	.23	7.9	5.8
21	9.2	1.1	1.2	.96	19	5.8	1.0	1.9	.62	.33	11	4.8
22	6.0	.88	1.9	1.0	15	6.6	.96	.58	.58	.85	9.4	4.8
23	7.4	1.4	1.4	1.0	9.0	4.3	5.2	.62	.45	.93	4.3	6.0
24	8.1	1.4	1.4	1.0	5.0	4.8	4.2	2.6	.50	1.9	2.7	8.1
25	5.4	1.8	1.0	1.0	3.5	12	3.2	1.9	.53	1.7	3.3	7.0
26	1.5	1.5	1.0	1.0	2.8	15	2.3	1.5	.33	1.1	7.0	4.8
27	1.7	1.4	1.1	1.0	2.5	15	1.6	1.3	.62	.43	7.2	3.4
28	1.3	.96	.89	1.0	2.5	10	1.3	1.3	.81	.38	6.5	1.7
29	1.1	.93	.68	1.0	2.5	8.7	3.1	2.5	.50	.20	5.2	1.1
30	1.1	.96	.63	1.0	---	6.3	5.7	1.7	.45	.21	3.2	1.2
31	.87	---	.74	1.0	---	9.5	---	1.7	---	.20	1.9	---
TOTAL	94.58	35.38	31.66	84.37	134.5	137.9	86.16	105.50	30.52	91.31	157.01	189.9
MEAN	3.05	1.18	1.02	2.72	4.64	4.45	2.87	3.40	1.02	2.95	5.06	6.33
MAX	19	2.1	1.9	10	21	15	7.9	9.2	4.3	20	11	13
MIN	.59	.76	.63	.90	1.0	1.3	.96	.58	.33	.20	.22	1.1
AC-FT	188	70	63	167	267	274	171	209	61	181	311	377

CAL YR 1979 TOTAL 772.66 MEAN 2.12 MAX 19 MIN .59 AC-FT 1530
WTR YR 1980 TOTAL 1178.79 MEAN 3.22 MAX 21 MIN .20 AC-FT 2340

10172640 LEE CREEK NEAR MAGNA, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO
OCT												
29...	1330	1.1	160000	7.8	10.0	45000	45000	20	11000	84000	94	172
NOV												
28...	1325	.99	160000	8.3	3.0	25000	25000	76	6100	46000	76	126
DEC												
27...	1430	1.0	170000	8.2	4.5	19000	19000	420	4400	40000	99	126
JAN												
16...	1255	7.2	120000	8.3	6.5	22000	21000	230	5100	45000	79	133
MAR												
19...	1410	1.1	140000	8.2	16.5	11000	11000	430	2500	34000	85	139
APR												
22...	1430	1.2	118000	8.4	17.5	11000	10000	420	2300	33000	86	140
MAY												
27...	1400	1.2	118000	8.1	16.0	11000	11000	80	2700	35000	85	143
JUN												
24...	1515	.36	90000	8.8	29.0	7300	7200	300	1600	17000	81	86
JUL												
22...	1545	.60	145000	8.3	34.0	15000	14000	450	3300	49000	86	176
AUG												
26...	1425	7.0	160000	7.9	27.0	54000	53000	240	13000	50000	63	94
SEP												
18...	1515	4.9	40200	8.7	21.0	6600	6300	160	1500	7900	69	42

DATE	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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)	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)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)
OCT												
29...	94000	9600	750	34000	150000	.0	--	5.4	289000	393	858	.60
NOV												
28...	50000	4300	370	11000	88000	.1	73	12	156000	212	417	--
DEC												
27...	40000	59	360	4600	76000	.2	60	14	126000	171	344	--
JAN												
16...	48000	3400	340	12000	82000	.1	66	5.8	148000	201	2880	--
MAR												
19...	36000	1600	310	6300	60000	.4	130	12	105000	143	315	--
APR												
22...	--	1300	330	11000	53000	1.8	--	8.3	101000	137	327	.18
MAY												
27...	--	1500	310	7000	63000	1.3	--	7.0	109000	148	353	.26
JUN												
24...	--	1000	160	4700	4300	.9	--	6.6	29000	39.4	28.2	.02
JUL												
22...	--	2100	240	7000	82000	.1	--	9.7	144000	196	233	.10
AUG												
26...	--	8500	670	32000	110000	.1	--	4.9	214000	291	4040	.05
SEP												
18...	--	930	300	3000	16000	.6	--	11	29700	40.4	389	.13

10172640 LEE CREEK NEAR MAGNA, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
APR											
22...	1430	80	400	0	100	31	8	10000	.2	4	0

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				
29...	1330	60000	1700	--
NOV				
28...	1325	450	960	--
DEC				
27...	1430	19000	880	--
JAN				
16...	1255	22000	670	--
MAR				
19...	1410	9300	580	--
APR				
22...	1430	94000	530	450
MAY				
27...	1400	9600	490	720
JUN				
24...	1515	7200	--	--
JUL				
22...	1545	14000	1100	680
AUG				
26...	1425	54000	910	390
SEP				
18...	1515	5500	120	120

10172650 KENNECOTT DRAIN NEAR MAGNA, UTAH

LOCATION.--Lat 40°45'28", long 112°10'14", in SW1/4NE1/4SW1/4 sec.3, T.1 S., R.3 W., Salt Lake County, Hydrologic Unit 16020204, on left bank about 50 ft (91 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.--14 years, 99.6 ft^3/s (2.82 m^3/s), 72,160 acre-ft/yr (89.0 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, 207 ft^3/s (5.86 m^3/s) May 17, gage height, 4.90 ft (1.494 m) (from HWM); minimum recorded, 30 ft^3/s (0.850 m^3/s) June 14, Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	51	58	100	72	70	122	112	139	86	97	139
2	48	56	53	104	93	69	88	66	140	173	96	123
3	55	59	61	82	92	92	74	62	162	162	125	118
4	68	57	91	78	124	115	76	49	123	138	114	111
5	81	54	86	83	121	82	86	50	88	102	109	121
6	68	52	83	107	86	138	84	52	60	84	101	128
7	71	51	78	80	94	116	93	73	89	71	87	126
8	71	54	74	80	95	79	61	74	98	85	114	144
9	69	57	79	94	71	74	53	113	96	102	103	167
10	63	60	105	135	86	66	60	164	81	100	119	138
11	74	58	59	96	108	62	66	142	64	91	113	123
12	90	54	44	77	103	100	53	144	59	77	82	128
13	82	54	42	130	93	64	47	137	48	78	96	126
14	79	54	47	145	126	47	50	113	41	96	104	101
15	85	58	67	168	161	46	55	106	56	87	96	90
16	79	67	62	131	172	43	45	120	51	97	125	82
17	65	67	83	111	147	43	46	195	49	92	124	78
18	60	61	87	111	134	43	49	166	48	124	119	87
19	92	57	88	120	172	42	44	150	50	126	122	77
20	184	59	82	85	131	40	41	170	57	120	131	68
21	164	56	82	84	132	64	42	100	61	110	127	68
22	97	53	86	96	153	126	40	86	46	117	120	103
23	65	54	69	90	138	79	77	80	46	87	117	87
24	65	53	92	86	115	73	110	120	48	89	111	81
25	68	56	100	84	95	124	81	126	51	126	130	77
26	59	60	106	77	107	169	70	132	48	128	139	79
27	38	68	73	66	88	158	76	140	51	98	140	68
28	47	76	65	55	75	106	59	88	55	87	130	41
29	61	51	83	85	72	80	71	112	55	85	117	37
30	57	55	82	78	---	95	124	144	62	118	108	61
31	44	---	72	71	---	103	---	146	---	119	125	---
TOTAL	2313	1722	2339	2989	3256	2608	2043	3534	2122	3255	3541	2977
MEAN	74.6	57.4	75.5	96.4	112	84.1	68.1	114	70.7	105	114	99.2
MAX	184	76	106	168	172	169	124	195	162	173	140	167
MIN	38	51	42	55	71	40	40	49	41	71	82	37
AC-FT	4590	3420	4640	5930	6460	5170	4050	7010	4210	6460	7020	5900

CAL YR 1979 TOTAL 26679 MEAN 73.1 MAX 250 MIN 32 AC-FT 52920
WTR YR 1980 TOTAL 32699 MEAN 89.3 MAX 195 MIN 37 AC-FT 64860

10172650 KENNECOTT DRAIN NEAR MAGNA, UT—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—January 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO
OCT												
29...	1055	66	3300	8.2	9.0	860	540	180	100	440	66	6.5
NOV												
28...	1200	75	5000	8.0	6.0	1300	1000	340	100	660	52	8.1
DEC												
27...	1230	74	5200	7.8	6.5	1400	1200	360	110	640	59	7.6
JAN												
16...	1430	127	3700	8.1	7.5	850	650	210	78	500	55	7.5
MAR												
19...	1115	42	5200	7.8	8.5	1100	800	230	120	770	60	10
APR												
22...	1135	31	6500	8.1	15.0	1100	860	240	130	950	63	12
MAY												
27...	1110	140	4900	7.8	15.0	980	800	250	86	640	57	8.9
JUN												
19...	1350	52	6000	7.8	24.0	1200	960	290	110	900	61	11
JUL												
21...	1550	116	3600	7.8	25.0	710	280	150	81	370	52	6.1
AUG												
26...	1235	137	3850	8.0	21.0	630	560	130	75	570	65	9.9
SEP												
17...	1315	80	4450	8.0	20.0	920	780	220	89	590	58	8.5

DATE	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (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)	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											
29...	470	34	320	580	640	.8	--	39	2220	3.02	396
NOV											
28...	710	46	240	910	1100	4.8	2.4	32	3340	4.54	676
DEC											
27...	680	43	200	990	1200	5.1	5.2	31	3510	4.77	701
JAN											
16...	540	40	200	620	870	1.8	2.2	23	2470	3.36	847
MAR											
19...	760	48	270	740	1300	1.6	3.3	28	3400	4.62	386
APR											
22...	--	61	270	860	1600	2.7	--	27	4040	5.49	338
MAY											
27...	--	45	180	680	1100	5.0	--	21	2940	4.00	1110
JUN											
19...	--	54	220	860	1500	3.1	--	27	3880	5.28	476
JUL											
21...	--	34	430	420	810	1.1	--	17	2150	2.92	673
AUG											
26...	--	35	73	440	940	.9	--	18	2260	3.07	860
SEP											
17...	--	3.7	140	730	1000	.4	--	31	2750	3.74	594

10172650 KENNECOTT DRAIN NEAR MAGNA, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS PO4)
OCT				
29...	2.5	.720	--	--
NOV				
28...	--	.950	--	--
DEC				
27...	--	.040	--	--
MAR				
19...	--	1.800	--	--
APR				
22...	1.2	--	1.500	4.6
MAY				
27...	.78	--	2.300	7.1
JUN				
19...	1.3	--	1.800	5.5
JUL				
21...	1.0	--	.240	.74
AUG				
26...	.87	--	.250	.77
SEP				
17...	1.2	--	1.500	4.6

DATE	TIME	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)
OCT							
29...	1055	--	--	490	--	--	10
NOV							
28...	1200	--	--	500	--	--	40
DEC							
27...	1230	--	--	490	--	--	30
JAN							
16...	1430	--	--	500	--	--	30
MAR							
19...	1115	--	--	630	--	--	20
APR							
22...	1135	230	300	640	2	15	40
MAY							
27...	1110	--	--	560	--	--	40
JUN							
19...	1350	--	--	560	--	--	40
JUL							
21...	1550	--	--	420	--	--	40
AUG							
26...	1235	--	--	510	--	--	20
SEP							
17...	1315	--	--	590	--	--	20

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	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)
OCT							
29...	--	--	--	--	--	--	--
NOV							
28...	--	--	--	--	--	--	--
DEC							
27...	--	--	--	--	--	--	--
JAN							
16...	--	--	--	--	--	--	--
MAR							
19...	--	--	--	--	--	--	--
APR							
22...	2	440	290	.0	21	0	260
MAY							
27...	--	--	120	--	--	--	--
JUN							
19...	--	--	60	--	--	--	--
JUL							
21...	--	--	70	--	--	--	--
AUG							
26...	--	--	60	--	--	--	--
SEP							
17...	--	--	140	--	--	--	--

10172700 VERNON CREEK NEAR VERNON, UTAH

LOCATION.--Lat 39°58'46", long 112°22'46", in NE1/4SW1/4SW1/4 sec.2, T.10 S., R.5 W., Tooele County, Hydrologic Unit 16020304, on right bank 6.6 mi (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.--22 years, 2.78 ft^3/s (0.079 m^3/s), 2,010 acre-ft/yr (2.48 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.--Peak discharge above base of 10 ft^3/s (0.28 m^3/s), and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage Height (ft)	Gage Height (m)
Feb. 19	2100	37	1.05	1.68	0.512
Apr. 20	1930	*95	2.69	2.04	.622
May 13	1900	29	.821	1.45	.442
May 24	1700	13	.368	1.26	.384

Minimum discharge, 1.4 ft^3/s (0.040 m^3/s) Feb. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	3.8	3.7	3.8	4.4	3.5	4.5	12	8.7	5.8	5.5	4.6
2	3.3	3.8	3.8	3.7	4.4	4.1	4.4	10	8.2	5.6	5.4	4.6
3	3.3	3.8	3.8	3.5	4.8	5.2	4.2	9.3	7.8	5.5	5.2	4.6
4	3.3	3.8	3.6	3.8	4.4	4.8	4.4	8.9	7.8	5.3	5.0	4.6
5	3.3	3.8	3.5	3.8	4.4	4.4	4.8	9.6	7.5	5.0	5.0	4.6
6	3.4	4.1	3.5	3.8	4.4	4.8	4.7	11	7.4	5.0	5.0	4.6
7	3.3	4.1	3.6	3.8	4.4	5.2	4.7	12	6.9	5.2	5.1	4.6
8	3.2	3.8	3.5	3.6	4.0	4.8	4.7	12	7.3	5.3	5.0	4.6
9	3.3	3.8	3.8	4.1	3.5	4.8	4.8	12	6.9	5.3	5.0	4.6
10	3.5	3.5	3.8	4.4	4.0	4.8	5.7	11	6.8	5.3	5.0	4.6
11	3.5	3.5	3.6	4.0	4.4	5.2	4.8	10	6.4	5.3	4.8	4.6
12	3.8	3.5	3.6	4.2	4.4	5.2	4.8	10	6.3	5.2	4.6	4.7
13	3.8	3.5	3.7	4.6	4.1	4.4	4.8	12	6.2	5.2	4.6	4.8
14	3.8	3.8	3.7	5.0	4.4	4.4	4.8	9.8	6.0	5.1	4.9	4.6
15	3.8	3.8	3.7	4.4	6.5	4.8	5.7	9.0	6.5	5.1	4.7	4.6
16	3.8	3.8	3.6	5.2	5.2	4.8	5.7	8.4	6.5	5.0	4.7	4.5
17	3.8	4.1	3.6	5.2	5.6	4.8	7.6	8.2	6.4	5.0	4.7	4.5
18	3.8	4.1	3.9	4.8	5.6	4.2	17	8.2	6.4	4.9	4.6	4.4
19	3.8	3.8	4.0	4.4	12	4.5	19	8.2	6.2	5.0	4.8	4.5
20	5.2	3.8	4.0	3.5	12	4.3	26	8.7	6.2	4.9	4.7	4.4
21	4.1	3.8	4.1	3.8	5.6	4.7	40	9.4	6.1	4.8	4.6	4.5
22	4.1	3.8	4.1	4.1	4.8	5.1	39	10	5.9	4.8	4.6	4.4
23	4.1	3.8	3.9	3.8	4.8	5.4	28	11	6.0	4.7	4.6	4.8
24	4.1	3.8	3.8	3.8	4.1	6.0	21	12	5.9	4.7	5.3	4.8
25	4.1	3.8	3.5	4.1	3.8	5.5	20	11	5.8	5.1	5.0	4.8
26	4.1	3.8	3.8	3.8	3.8	5.5	15	10	5.6	5.2	4.7	4.8
27	3.8	3.8	3.8	3.5	3.8	5.6	12	9.4	6.0	5.2	4.9	4.8
28	3.8	3.8	3.6	3.8	3.8	5.1	12	9.3	6.0	5.2	4.8	5.0
29	4.1	3.8	3.7	4.4	3.8	5.1	15	9.1	5.9	5.3	4.7	5.1
30	3.8	3.8	3.8	4.4	---	4.7	14	8.6	5.9	5.4	4.6	5.1
31	3.8	---	3.8	4.4	---	4.6	---	8.2	---	5.5	4.6	---
TOTAL	116.2	114.0	115.9	127.5	145.2	150.3	363.1	308.3	197.5	159.9	150.7	139.7
MEAN	3.75	3.80	3.74	4.11	5.01	4.85	12.1	9.95	6.58	5.16	4.86	4.66
MAX	5.2	4.1	4.1	5.2	12	6.0	40	12	8.7	5.8	5.5	5.1
MIN	3.2	3.5	3.5	3.5	3.5	3.5	4.2	8.2	5.6	4.7	4.6	4.4
AC-FT	230	226	230	253	288	298	720	612	392	317	299	277

CAL YR 1979 TOTAL 1992.7 MEAN 5.46 MAX 25 MIN 2.5 AC-FT 3950
WTR YR 1980 TOTAL 2088.3 MEAN 5.71 MAX 40 MIN 3.2 AC-FT 4140

10172800 SOUTH WILLOW CREEK NEAR GRANTSVILLE, UTAH

LOCATION.--Lat 40°29'47", long 112°34'25", in SW1/4NW1/4SW1/4 sec.6, T.4 S., R.6 W., Tooele County, Hydrologic Unit 16020304, on right bank 200 ft (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 except for period of no gage-height record Aug. 22 to Oct. 3, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--17 years, 6.43 ft^3/s (0.182 m^3/s), 4,660 acre-ft/yr (5.75 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.--Peak discharge above base of 20 ft^3/s (0.566 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage Height (ft)	Gage Height (m)
May 9	1600	28	0.79	1.85	0.564
May 24	0500	42	1.19	1.99	.607
June 10	2000	*55	1.56	2.11	.643
June 20	1900	44	1.25	2.02	.616

Minimum daily discharge, 2.6 ft^3/s (0.074 m^3/s) several days during Dec. and Jan.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	3.4	3.1	2.6	2.8	3.4	3.1	16	24	34	8.3	4.7
2	3.2	3.4	3.1	2.6	2.8	3.4	3.1	17	25	34	7.8	4.7
3	3.2	3.4	3.1	2.6	2.8	3.7	3.1	16	28	33	7.8	4.7
4	3.2	3.4	2.8	2.6	2.8	3.4	3.1	17	30	28	7.7	4.7
5	3.2	3.4	2.8	2.6	2.8	3.4	3.1	18	30	27	7.4	4.7
6	3.2	3.1	2.8	2.6	2.8	3.4	3.4	20	32	26	7.3	4.7
7	3.2	3.1	2.8	2.6	2.8	3.4	3.4	20	33	23	7.3	5.0
8	3.2	3.1	2.8	2.6	2.8	3.1	3.4	25	32	22	6.8	4.8
9	3.2	3.1	2.8	2.6	2.8	3.1	3.6	26	38	20	6.4	5.2
10	3.2	3.1	2.8	2.8	2.8	3.1	3.7	25	43	20	6.2	5.6
11	3.2	3.1	2.8	2.6	2.8	3.4	3.7	24	38	20	6.2	5.8
12	3.2	3.1	2.8	2.8	2.8	3.4	3.7	21	39	18	6.2	5.2
13	3.2	3.1	2.8	3.4	2.8	3.4	4.0	19	42	17	6.2	4.8
14	3.2	3.1	2.8	4.4	2.8	3.4	4.3	18	43	14	6.1	4.8
15	3.2	3.1	2.8	3.4	2.8	3.7	4.9	17	35	12	6.0	4.8
16	3.2	3.1	2.8	3.1	2.8	3.7	5.7	17	26	11	6.0	4.2
17	3.1	3.1	2.8	3.1	2.8	3.4	6.6	17	25	10	5.7	4.2
18	3.4	3.1	2.8	3.1	3.4	3.4	7.9	17	37	13	5.6	4.2
19	3.4	3.1	2.8	3.1	3.4	3.4	9.6	16	41	13	5.6	4.3
20	3.7	3.1	2.8	3.1	3.4	3.4	12	16	41	13	5.6	4.3
21	3.1	3.1	2.8	2.8	3.1	3.4	13	17	27	13	5.4	4.2
22	3.1	3.1	2.8	2.8	3.1	3.4	15	19	32	12	5.2	4.2
23	3.4	3.1	2.8	2.8	3.1	3.4	17	22	32	12	5.2	4.2
24	3.4	3.1	2.8	2.8	2.8	3.4	16	36	31	11	5.2	4.1
25	3.4	3.1	2.8	2.8	2.8	3.4	16	28	27	10	5.2	4.1
26	3.4	3.1	2.8	2.8	3.1	3.4	15	31	35	10	5.0	4.1
27	3.4	3.1	2.6	2.8	3.1	3.4	14	31	35	9.3	4.9	4.1
28	3.4	3.1	2.6	2.8	3.4	3.1	15	29	34	9.3	4.8	4.1
29	3.4	3.1	2.6	2.8	3.4	3.1	15	26	34	8.9	4.7	4.1
30	3.4	3.1	2.6	2.8	---	3.1	15	25	33	8.9	4.7	4.1
31	3.4	---	2.6	2.8	---	3.1	---	24	---	8.3	4.7	---
TOTAL	101.6	94.5	86.7	89.1	85.7	104.2	246.4	670	1002	520.7	187.2	136.7
MEAN	3.28	3.15	2.80	2.87	2.96	3.36	8.21	21.6	33.4	16.8	6.04	4.56
MAX	3.7	3.4	3.1	4.4	3.4	3.7	17	36	43	34	8.3	5.8
MIN	3.1	3.1	2.6	2.6	2.8	3.1	3.1	16	24	8.3	4.7	4.1
AC-FT	202	187	172	177	170	207	489	1330	1990	1030	371	271

CAL YR 1979 TOTAL 2015.6 MEAN 5.52 MAX 29 MIN 2.4 AC-FT 4000
WTR YR 1980 TOTAL 3324.8 MEAN 9.08 MAX 43 MIN 2.6 AC-FT 6590

10172805 NORTH WILLOW CREEK NEAR GRANTSVILLE, UTAH

LOCATION.--Lat 40°31'58", long 112°34'19", in NW1/4NE1/4NW1/4, sec.30, T.3 S., R.6 W., Tooele County, Hydrologic Unit 16020304 on left bank 100 ft (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 m^2 (13.9 km^2).

PERIOD OF RECORD.--October 1979 to September 1980.

GAGE.--Water-stage recorder. Altitude of gage is 5,960 ft (1,820 m) from topographic map.

REMARKS.--Records good except those for period of no gage-height record, Oct. 1 to Dec. 18, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 20 ft^3/s (0.566 m^3/s), and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage Height (ft)	Gage Height (m)
Apr. 23	0900	25	0.708	1.09	0.332
Apr. 30	0800	21	.595	1.03	.314
May 9	2300	25	.708	1.09	.332
May 22	1800	*32	.906	1.16	.354
June 7	0100	31	.878	1.06	.323

Minimum, 1.8 ft^3/s (0.051 m^3/s) on several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.0	2.0	1.9	2.2	2.5	2.6	19	13	8.6	3.5	2.5
2	2.0	2.0	2.0	1.8	2.2	2.5	2.4	17	15	8.3	3.4	2.5
3	2.0	2.0	2.0	1.8	2.2	2.8	2.4	16	17	8.1	3.3	2.4
4	2.0	2.0	2.0	1.8	2.4	2.8	2.4	17	21	7.6	3.3	2.4
5	2.0	2.0	2.0	1.9	2.4	2.7	2.6	17	27	7.2	3.2	2.4
6	2.0	2.0	2.0	1.9	2.5	2.7	2.7	18	29	6.6	3.1	2.4
7	2.0	2.0	2.0	1.9	2.5	2.7	2.8	20	28	6.5	2.9	2.5
8	2.0	2.0	2.0	1.9	2.5	2.5	2.8	19	25	6.3	2.8	2.4
9	2.0	2.0	2.0	1.9	2.5	2.5	2.9	20	24	6.1	2.8	2.5
10	2.0	2.0	2.0	2.0	2.7	2.5	3.2	23	24	5.9	2.8	2.5
11	2.0	2.0	2.0	1.9	2.7	2.5	3.2	21	24	5.5	2.8	2.5
12	2.0	2.0	2.0	2.3	2.7	2.7	3.0	18	21	5.3	2.8	2.5
13	2.0	2.0	2.0	2.5	3.0	2.7	3.6	16	18	5.2	2.8	2.4
14	2.0	2.0	2.0	3.0	3.4	2.7	3.8	15	15	5.0	2.8	2.3
15	2.0	2.0	2.0	2.5	3.6	2.7	4.0	16	13	4.8	2.9	2.3
16	2.0	2.0	2.0	2.4	3.6	2.7	4.5	17	13	4.5	2.9	2.3
17	2.0	2.0	2.0	2.2	3.8	2.8	5.3	16	12	4.6	2.8	2.3
18	2.0	2.0	1.9	2.2	4.5	2.7	6.9	19	12	4.5	2.8	2.3
19	2.0	2.0	1.9	2.2	4.5	2.7	9.0	19	12	4.4	3.0	2.3
20	2.1	2.0	1.9	2.1	4.0	2.7	13	20	12	4.3	2.9	2.3
21	2.0	2.0	2.0	2.2	3.8	2.8	19	25	11	4.2	2.7	2.4
22	2.0	2.0	2.0	2.1	3.6	2.7	21	28	11	4.1	2.6	2.3
23	2.0	2.0	1.9	2.1	3.2	2.7	23	26	10	4.2	2.6	2.3
24	2.0	2.0	1.8	2.1	2.7	2.7	23	26	10	4.0	2.6	2.3
25	2.0	2.0	1.8	2.1	2.4	2.7	18	24	9.4	3.9	2.6	2.3
26	2.0	2.0	1.9	2.1	2.2	2.5	16	20	9.1	3.8	2.6	2.1
27	2.0	2.0	1.9	2.2	2.4	2.6	15	16	8.9	3.6	2.6	2.1
28	2.0	2.0	1.9	2.2	2.5	2.5	15	13	8.8	3.5	2.5	2.1
29	2.0	2.0	1.9	2.2	2.5	2.5	17	13	8.6	3.5	2.5	2.1
30	2.0	2.0	1.9	2.2	---	2.6	20	12	8.3	3.5	2.5	2.1
31	2.0	---	1.9	2.2	---	2.6	---	12	---	3.6	2.5	---
TOTAL	62.1	60.0	60.6	65.8	85.2	82.0	270.1	580	470.1	161.2	87.9	70.1
MEAN	2.00	2.00	1.95	2.12	2.94	2.65	9.00	18.7	15.7	5.20	2.84	2.34
MAX	2.1	2.0	2.0	3.0	4.5	2.8	23	28	29	8.6	3.5	2.5
MIN	2.0	2.0	1.8	1.8	2.2	2.5	2.4	12	8.3	3.5	2.5	2.1
AC-FT	123	119	120	131	169	163	536	1150	932	320	174	139

WTR YR 1980 TOTAL 2055.1 MEAN 5.62 MAX 29 MIN 1.8 AC-FT 4080

10172870 TROUT CREEK NEAR CALLAO, UTAH

LOCATION.--Lat 39°44'39", long 113°53'21", in SW1/4NW1/4SW1/4 sec.28, T.12 S., R.18 W., Juab County, Hydrologic Unit 06020306, 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 RECORD.--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.--22 years, 5.32 ft^3/s (0.151 m^3/s), 3,850 acre-ft/yr (4.75 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.--Peak discharge above base of 20 ft^3/s (0.566 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage Height (ft)	Gage Height (m)
May 6	2300	29	0.821	1.77	0.540
May 23	0200	57	1.61	2.12	.646
June 12	1000	*79	2.24	2.31	.704

Minimum discharge, Dec. 12, Jan. 10, 11, 20, 1.1 ft^3/s (0.031 m^3/s).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.9	1.9	1.7	1.6	1.9	2.0	13	16	18	3.8	1.9
2	1.6	1.9	1.9	1.7	1.6	1.9	2.0	12	16	18	3.7	1.9
3	1.6	1.9	1.8	1.7	1.7	1.9	1.9	13	18	17	3.6	2.0
4	1.6	1.9	1.8	1.7	1.7	1.9	1.9	14	20	16	3.4	1.9
5	1.6	1.9	1.8	1.7	1.6	1.9	2.0	18	25	15	3.3	1.9
6	1.6	1.9	1.8	1.7	1.7	1.9	2.0	26	29	14	3.3	1.9
7	1.6	1.9	1.8	1.7	1.7	1.9	2.0	29	29	13	3.2	2.6
8	1.6	1.9	1.8	1.7	1.6	1.8	2.1	26	32	12	3.1	2.3
9	1.6	1.9	1.8	1.7	1.6	1.8	2.5	23	45	11	3.1	2.3
10	1.6	1.9	1.8	1.7	1.7	1.8	2.7	21	59	9.6	3.0	2.3
11	1.6	1.9	1.8	1.8	1.7	1.9	2.5	19	62	9.2	2.8	2.4
12	1.6	1.9	1.8	1.9	1.7	1.8	2.5	17	66	8.8	2.8	2.3
13	1.6	1.9	1.7	1.9	1.7	1.9	2.6	15	64	8.3	2.7	2.3
14	1.6	1.9	1.7	2.0	1.7	1.9	3.0	14	53	7.9	2.7	2.2
15	1.6	1.9	1.7	1.8	1.7	1.9	3.7	14	42	7.3	2.8	2.1
16	1.7	1.9	1.7	1.8	1.7	1.9	4.4	13	37	7.1	2.7	2.1
17	1.7	1.9	1.7	1.8	1.8	2.0	5.2	13	38	6.8	2.7	2.1
18	1.7	1.9	1.7	1.8	2.6	1.9	6.4	13	40	6.3	2.6	2.1
19	1.8	1.9	1.7	1.7	2.1	1.9	8.2	14	38	6.0	3.1	2.1
20	2.5	1.9	1.7	1.8	1.9	1.8	10	20	39	5.7	2.7	2.1
21	1.9	1.9	1.7	1.8	1.9	1.9	11	31	37	5.4	2.6	2.1
22	1.8	1.9	1.7	1.8	1.8	1.9	9.4	44	35	5.2	2.5	2.1
23	1.8	1.9	1.7	1.8	1.7	1.9	8.4	52	31	5.0	2.3	2.1
24	1.9	1.9	1.7	1.8	1.7	1.9	7.9	37	29	4.9	2.3	2.1
25	1.9	1.9	1.7	1.9	1.7	1.9	9.1	20	25	4.9	2.3	2.0
26	1.9	1.9	1.7	1.9	1.8	1.9	9.4	22	24	4.9	2.3	2.0
27	1.9	1.9	1.7	1.6	1.9	1.8	10	18	21	4.4	2.1	2.0
28	1.9	1.9	1.7	1.7	1.9	2.1	13	16	19	4.1	2.1	1.9
29	1.9	1.9	1.7	1.7	1.9	1.9	16	16	18	4.1	2.0	2.0
30	1.9	1.9	1.7	1.6	---	1.9	16	15	18	4.0	1.9	2.0
31	1.9	---	1.7	1.6	---	1.9	---	15	---	4.0	2.0	---
TOTAL	54.1	57.0	54.1	54.5	51.4	58.6	179.8	641	1025	267.9	85.5	63.1
MEAN	1.75	1.90	1.75	1.76	1.77	1.89	5.99	20.7	34.2	8.64	2.76	2.10
MAX	2.5	1.9	1.9	2.0	2.6	2.1	16	52	66	18	3.8	2.6
MIN	1.6	1.9	1.7	1.6	1.6	1.8	1.9	12	16	4.0	1.9	1.9
AC-FT	107	113	107	108	102	116	357	1270	2030	531	170	125

CAL YR 1979 TOTAL 1860.6 MEAN 5.10 MAX 46 MIN 1.6 AC-FT 3690
WTR YR 1980 TOTAL 2592.0 MEAN 7.08 MAX 66 MIN 1.6 AC-FT 5140

10172952 DUNN CREEK NEAR PARK VALLEY, UT

LOCATION.--Lat 41°51'31", long 113°19'35", in NW1/4NW1/4 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 mi^2 (22.58 km^2).

PERIOD OF RECORD.--May 1971 to September 1973, October 1976 to current year.

GAGE.--Water-stage recorder and 3-ft (0.91-m) Parshall flume. Altitude of gage is 6,250 ft (1,905 m) from topographic map.

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

AVERAGE DISCHARGE.--6 years, 5.65 ft^3/s (0.160 m^3/s), 4,090 acre-ft/yr (5.04 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, 0.35 ft^3/s (0.01 m^3/s) Mar. 13, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum recorded discharge, 86 ft^3/s (2.43 m^3/s) June 10, 11, gage height, 2.67 ft (0.814 m); minimum daily, 1.2 ft^3/s (0.034 m^3/s) Dec. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.6	1.4	1.3	1.7	2.8	2.6	36	33	26	7.6	4.9
2	1.5	1.5	1.4	1.3	1.7	2.8	2.4	40	35	25	7.4	4.8
3	1.5	1.6	1.4	1.3	1.7	2.7	2.4	38	36	23	7.3	4.6
4	1.5	1.7	1.4	1.3	1.7	2.6	2.6	35	34	22	7.1	4.4
5	1.5	1.7	1.4	1.3	1.7	2.5	2.8	40	33	21	7.1	4.2
6	1.5	1.6	1.4	1.3	1.6	2.4	2.7	45	33	20	6.9	4.1
7	1.4	1.6	1.4	1.3	1.7	2.4	2.8	48	34	19	6.9	4.1
8	1.4	1.6	1.5	1.4	1.7	2.4	2.8	52	36	18	6.6	4.2
9	1.4	1.6	1.5	1.3	1.6	2.4	2.9	50	45	17	6.6	4.2
10	1.5	1.5	1.5	1.5	1.6	2.5	3.0	47	63	17	6.4	4.4
11	1.5	1.5	1.5	1.6	1.6	2.6	3.1	40	78	16	6.2	4.2
12	1.5	1.5	1.3	1.9	1.6	2.6	3.2	33	77	15	6.2	3.8
13	1.6	1.5	1.3	4.4	1.6	2.6	3.5	27	67	14	6.0	3.7
14	1.6	1.5	1.3	7.9	1.6	2.5	4.0	24	57	14	5.6	3.5
15	1.7	1.5	1.3	3.1	1.7	2.4	5.1	24	53	13	5.8	3.4
16	1.7	1.4	1.3	2.6	1.8	2.4	6.0	26	50	13	5.7	3.3
17	1.7	1.5	1.3	2.4	1.9	2.4	7.5	25	50	12	5.6	3.2
18	1.6	1.4	1.3	2.3	2.7	2.3	9.3	24	54	12	5.5	3.1
19	3.2	1.3	1.3	2.1	2.6	2.3	12	30	60	11	5.9	3.1
20	2.3	1.3	1.3	2.0	2.8	2.5	15	38	65	11	5.5	3.0
21	2.1	1.3	1.3	2.0	2.5	2.5	18	50	70	11	5.3	2.9
22	1.9	1.3	1.3	1.9	2.3	2.5	20	60	60	10	5.3	2.8
23	1.9	1.3	1.3	1.8	2.2	2.6	24	60	50	10	5.3	2.7
24	1.8	1.3	1.3	1.9	2.3	2.6	24	50	43	9.7	5.1	2.9
25	1.7	1.5	1.3	1.8	2.3	2.4	20	43	36	9.4	5.2	3.0
26	1.7	1.3	1.2	1.8	2.4	2.4	22	38	34	9.0	5.2	3.1
27	1.7	1.3	1.4	1.7	2.8	2.3	24	34	32	8.7	5.1	3.1
28	1.7	1.3	1.3	1.7	3.0	2.3	28	30	30	8.4	4.9	3.0
29	1.5	1.4	1.3	1.7	2.8	2.4	40	30	29	8.2	4.9	3.1
30	1.5	1.4	1.3	1.6	---	2.3	35	30	28	7.9	5.0	3.1
31	1.6	---	1.3	1.7	---	2.4	---	31	---	7.7	5.0	---
TOTAL	52.3	43.8	41.8	63.2	59.2	76.8	350.7	1178	1405	439.0	184.2	107.9
MEAN	1.69	1.46	1.35	2.04	2.04	2.48	11.7	38.0	46.8	14.2	5.94	3.60
MAX	3.2	1.7	1.5	7.9	3.0	2.8	40	60	78	26	7.6	4.9
MIN	1.4	1.3	1.2	1.3	1.6	2.3	2.4	24	28	7.7	4.9	2.7
AC-FT	104	87	83	125	117	152	696	2340	2790	871	365	214

CAL YR 1979 TOTAL 1680.2 MEAN 4.60 MAX 44 MIN 1.2 AC-FT 3330
WTR YR 1980 TOTAL 4001.9 MEAN 10.9 MAX 78 MIN 1.2 AC-FT 7940

10172965 BAR M SPRING AT LOCOMOTIVE SPRING NEAR SNOWVILLE, UTAH

LOCATION.--Lat 41°42'22", long 112°55'32", in SE1/4 sec.1, T.11 N., R. 10 W., Box Elder County, Hydrologic Unit 16020309, at Locomotive Springs National Wildlife Refuge at north end of the Great Salt Lake 20 mi (32 km) southwest of Snowville.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1968 to September 1980 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,220.9 ft (1,286.53 m).

REMARKS.--Records good.

AVERAGE DISCHARGE.--11 years, 8.14 ft^3/s (0.230 m^3/s), 5,900 acre-ft/yr (7.27 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 12 ft^3/s (0.340 m^3/s) many days in 1969, 1970, 1971; minimum daily, 3.8 ft^3/s (0.108 m^3/s) January 15, 16, 20, 21, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 5.8 ft^3/s (0.164 m^3/s) May 16, August 14-17; minimum daily, 3.8 ft^3/s (0.108 m^3/s) on January 15, 16, 20, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	4.6	4.4	4.2	4.2	4.6	5.3	5.3	5.3	5.3	5.6	5.1
2	4.6	4.6	4.4	4.2	4.2	4.9	5.1	5.3	5.6	5.3	5.6	5.1
3	4.4	4.6	4.4	4.2	4.2	5.1	5.1	5.3	5.6	5.3	5.6	5.1
4	4.4	4.9	4.4	4.2	4.2	4.9	5.1	5.3	5.3	5.3	5.6	5.1
5	4.4	4.6	4.2	4.2	4.2	4.9	5.3	5.3	5.3	5.1	5.6	5.1
6	4.6	4.6	4.2	4.2	4.2	5.1	5.3	5.3	5.3	5.1	5.6	5.1
7	4.6	4.6	4.2	4.2	4.2	4.9	5.1	5.3	5.3	5.3	5.6	5.1
8	4.6	4.9	4.2	4.2	4.2	4.9	5.1	5.6	5.3	5.3	5.6	5.1
9	4.4	4.6	4.0	4.2	4.2	4.9	5.3	5.8	5.3	5.1	5.6	5.1
10	4.4	4.6	4.4	4.2	4.2	5.1	5.3	5.8	5.3	5.1	5.6	5.1
11	4.6	4.6	4.2	4.2	4.2	5.1	5.1	5.8	5.3	5.1	5.6	4.9
12	4.6	4.4	4.2	4.0	4.2	4.9	5.1	5.6	5.3	5.3	5.6	4.9
13	4.6	4.6	4.2	4.0	4.2	5.1	5.1	5.3	5.3	5.3	5.6	4.9
14	4.6	4.6	4.2	4.0	4.2	5.1	5.3	5.3	5.3	5.3	5.8	4.9
15	4.6	4.6	4.2	3.8	4.2	5.1	5.3	5.6	5.3	5.6	5.8	4.9
16	4.6	4.6	4.2	3.8	4.0	4.9	5.1	5.8	5.3	5.6	5.8	4.9
17	4.6	4.6	4.2	4.0	4.4	4.9	5.1	5.3	5.3	5.6	5.8	4.9
18	4.6	4.6	4.2	4.0	4.6	5.3	5.3	5.3	5.3	5.3	5.6	4.9
19	5.3	4.6	4.2	4.0	4.4	5.1	5.3	5.3	5.3	5.6	5.6	4.9
20	4.9	4.6	4.4	3.8	4.4	5.1	5.3	5.3	5.3	5.3	5.3	4.9
21	4.6	4.4	4.2	3.8	4.4	5.3	5.3	5.3	5.3	5.3	5.3	4.9
22	4.6	4.4	4.2	4.0	4.4	5.1	5.3	5.3	5.3	5.3	5.3	4.9
23	4.6	4.4	4.2	4.0	4.4	5.1	5.3	5.6	5.3	5.6	5.1	4.9
24	4.6	4.4	4.2	4.0	4.2	5.1	5.3	5.6	5.1	5.6	5.1	4.9
25	4.9	4.4	4.2	4.2	4.4	5.1	5.3	5.3	5.3	5.6	5.3	4.9
26	4.6	4.4	4.2	4.2	4.4	5.1	5.3	5.3	5.1	5.3	5.1	4.9
27	4.6	4.4	4.2	4.2	4.6	5.3	5.1	5.3	4.9	5.3	5.3	4.9
28	4.9	4.4	4.2	4.2	4.6	5.1	5.1	5.3	5.1	5.6	5.1	4.9
29	4.6	4.4	4.2	4.2	4.6	5.1	5.3	5.3	5.3	5.6	5.1	4.9
30	4.6	4.4	4.2	4.2	---	5.3	5.3	5.3	5.3	5.3	5.1	4.9
31	4.6	---	4.2	4.2	---	5.3	---	5.3	---	5.6	5.1	---
TOTAL	143.2	136.4	131.2	126.8	124.8	156.8	156.6	167.8	158.6	166.3	169.4	149.0
MEAN	4.62	4.55	4.23	4.09	4.30	5.06	5.22	5.41	5.29	5.36	5.46	4.97
MAX	5.3	4.9	4.4	4.2	4.6	5.3	5.3	5.8	5.6	5.6	5.8	5.1
MIN	4.4	4.4	4.0	3.8	4.0	4.6	5.1	5.3	4.9	5.1	5.1	4.9
AC-FT	284	271	260	252	248	311	311	333	315	330	336	296

CAL YR 1979 TOTAL 2002.0 MEAN 5.48 MAX 6.8 MIN 4.0 AC-FT 3970
WTR YR 1980 TOTAL 1786.9 MEAN 4.88 MAX 5.8 MIN 3.8 AC-FT 3540

10172967 OFF SPRING AT LOCOMOTIVE SPRINGS, NEAR SNOWVILLE, UTAH

LOCATION.--Lat 41°42'12", long 112°54'40", in SW1/4 sec.6, T.11 N., R. 9 W., Box Elder County, Hydrologic Unit 16020309, at Locomotive Springs National Wildlife Refuge on the north end of the Great Salt Lake 20 mi (32 km) southwest of Snowville, Utah.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1968 to September 1980 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,208.4 ft (1,282.72 m).

REMARKS.--Records good.

AVERAGE DISCHARGE.--11 years, 1.10 ft^3/s (0.031 m^3/s) 797 acre-ft/yr (0.98 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1.9 ft^3/s (0.054 m^3/s) May 24-31, 1975; minimum daily, 0.41 ft^3/s (0.012 m^3/s) Aug. 14, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 0.79 ft^3/s (0.022 m^3/s) several days in April and May; minimum daily, 0.44 ft^3/s (0.012 m^3/s) several days in October and November.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.47	.47	.53	.57	.63	.73	.78	.79	.74	.60	.53	.53
2	.47	.47	.53	.57	.64	.75	.77	.79	.74	.60	.53	.53
3	.47	.47	.50	.57	.64	.76	.76	.79	.73	.57	.53	.53
4	.47	.47	.53	.57	.64	.76	.76	.79	.71	.57	.53	.53
5	.47	.47	.53	.57	.64	.76	.76	.79	.72	.60	.53	.53
6	.47	.47	.55	.57	.64	.76	.76	.79	.71	.57	.53	.53
7	.47	.47	.55	.60	.66	.76	.74	.79	.71	.57	.53	.53
8	.47	.47	.53	.60	.66	.76	.74	.79	.70	.57	.53	.53
9	.44	.50	.53	.60	.66	.76	.76	.79	.71	.57	.53	.53
10	.44	.47	.55	.60	.66	.76	.76	.79	.72	.57	.53	.53
11	.44	.47	.53	.57	.66	.77	.74	.79	.72	.57	.53	.53
12	.47	.47	.53	.60	.66	.75	.74	.78	.70	.57	.53	.53
13	.47	.47	.53	.60	.67	.76	.75	.77	.69	.57	.53	.53
14	.47	.47	.53	.60	.68	.77	.76	.78	.68	.57	.53	.55
15	.47	.47	.55	.60	.66	.76	.76	.79	.66	.55	.50	.55
16	.46	.47	.55	.60	.66	.76	.75	.77	.68	.56	.50	.55
17	.47	.50	.53	.60	.68	.76	.74	.76	.68	.57	.50	.55
18	.47	.50	.55	.60	.69	.78	.76	.76	.68	.57	.53	.55
19	.47	.47	.55	.57	.69	.78	.76	.76	.66	.57	.50	.55
20	.47	.44	.55	.57	.69	.76	.76	.76	.66	.55	.50	.55
21	.44	.44	.57	.57	.68	.77	.78	.76	.66	.55	.50	.53
22	.44	.47	.57	.57	.66	.76	.78	.76	.66	.55	.53	.50
23	.44	.47	.55	.57	.66	.76	.77	.77	.65	.57	.53	.53
24	.47	.47	.55	.60	.66	.76	.76	.76	.64	.57	.53	.53
25	.47	.47	.55	.62	.67	.77	.76	.74	.64	.55	.50	.53
26	.47	.50	.55	.62	.69	.77	.76	.74	.63	.55	.50	.53
27	.47	.47	.55	.62	.70	.76	.76	.74	.61	.55	.53	.53
28	.47	.47	.55	.61	.72	.75	.78	.73	.62	.55	.53	.53
29	.47	.50	.55	.62	.72	.76	.79	.73	.62	.55	.53	.50
30	.47	.50	.57	.61	---	.77	.79	.73	.62	.53	.53	.50
31	.47	---	.57	.62	---	.78	---	.74	---	.53	.53	---
TOTAL	14.38	14.22	16.86	18.36	19.37	23.62	22.84	23.82	20.35	17.49	16.19	15.95
MEAN	.46	.47	.54	.59	.67	.76	.76	.77	.68	.56	.52	.53
MAX	.47	.50	.57	.62	.72	.78	.79	.79	.74	.60	.53	.55
MIN	.44	.44	.50	.57	.63	.73	.74	.73	.61	.53	.50	.50
AC-FT	29	28	33	36	38	47	45	47	40	35	32	32

CAL YR 1979 TOTAL 307.47 MEAN .84 MAX 1.2 MIN .41 AC-FT 610
WTR YR 1980 TOTAL 223.45 MEAN .61 MAX .79 MIN .44 AC-FT 443

10172968 SPARKS SPRING AT LOCOMOTIVE SPRINGS, NEAR SNOWVILLE, UTAH

LOCATION.--Lat 41°41'50", long 112°53'32", in NE1/4 sec.8, T.11 N., R.9 W., Box Elder County, Hydrologic Unit 16020309, at Locomotive Springs National Wildlife Refuge on north end of the Great Salt Lake and 20 mi (32 km) southwest of Snowville, Utah.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1968 to September 1980 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,212.0 ft (1,283.82 m).

REMARKS.--Records good.

AVERAGE DISCHARGE.--11 years, 1.17 ft^3/s (0.033 m^3/s) 848 acre-ft/yr (1.05 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2.1 ft^3/s (0.059 m^3/s) Apr. 25, 1971; minimum daily, 0.00 ft^3/s (0.000 m^3/s) Dec. 30 to Jan. 10, 1979 when spring was completely frozen over.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1.6 ft^3/s (0.045 m^3/s) May 9-11, 16, 23; minimum daily, 0.45 ft^3/s (0.013 m^3/s) Dec. 1-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.65	.67	.45	.70	.52	1.0	1.2	1.3	1.5	.94	.76	.75
2	.68	.63	.45	.70	.57	1.1	1.2	1.3	1.5	.94	.70	.76
3	.64	.72	.45	.70	.64	1.2	1.2	1.4	1.5	.92	.74	.73
4	.65	.70	.45	.70	.77	1.2	1.2	1.3	1.5	.92	.67	.73
5	.67	.67	.45	.70	.86	1.2	1.2	1.3	1.5	.90	.71	.73
6	.67	.65	.45	.70	.86	1.2	1.3	1.4	1.4	.90	.71	.74
7	.67	.69	.45	.70	.96	1.2	1.2	1.4	1.4	.88	.70	.79
8	.67	.73	.45	.70	.94	1.1	1.1	1.4	1.4	.88	.70	.80
9	.67	.71	.47	.70	1.1	1.2	1.3	1.6	1.4	.86	.74	.76
10	.63	.58	.50	.70	1.0	1.1	1.3	1.6	1.4	.86	.70	.77
11	.65	.70	.53	.70	.94	1.2	1.3	1.6	1.4	.84	.71	.87
12	.67	.61	.58	.70	.90	1.2	1.2	1.5	1.3	.84	.72	.80
13	.65	.64	.58	.70	.90	1.1	1.1	1.4	1.2	.82	.72	.77
14	.67	.65	.61	.70	.97	1.2	1.2	1.4	1.3	.82	.70	.76
15	.67	.64	.63	.70	1.0	1.3	1.3	1.5	1.2	.80	.80	.79
16	.64	.65	.64	.70	.97	1.1	1.2	1.6	1.2	.80	.78	.77
17	.67	.70	.64	.70	1.1	1.1	1.2	1.4	1.2	.80	.70	.76
18	.68	.73	.66	.70	1.2	1.3	1.3	1.4	1.2	.74	.78	.82
19	.95	.65	.68	.70	1.1	1.1	1.3	1.4	1.2	.78	.70	.78
20	.87	.51	.70	.73	1.1	1.2	1.2	1.4	1.1	.74	.71	.76
21	.69	.56	.71	.83	1.0	1.2	1.2	1.4	1.1	.74	.71	.79
22	.65	.61	.74	.78	1.0	1.3	1.3	1.4	1.1	.76	.73	.72
23	.67	.66	.68	.80	1.0	1.1	1.3	1.6	1.1	.75	.71	.75
24	.68	.50	.68	.86	.99	1.3	1.4	1.4	.99	.77	.70	.75
25	.70	.50	.66	.90	.99	1.2	1.3	1.5	1.0	.74	.74	.76
26	.72	.50	.63	.89	1.0	1.2	1.3	1.4	1.0	.73	.77	.76
27	.61	.50	.62	.70	1.0	1.3	1.3	1.5	.94	.74	.74	.77
28	.76	.50	.61	.61	1.1	1.3	1.3	1.5	.97	.73	.73	.78
29	.78	.50	.66	.69	1.1	1.0	1.3	1.5	.96	.76	.72	.73
30	.52	.47	.69	.63	---	1.3	1.5	1.5	.96	.73	.74	.73
31	.67	---	.69	.51	---	1.3	---	1.5	---	.74	.75	---
TOTAL	21.17	18.53	18.19	22.23	27.58	36.8	37.7	44.6	36.92	25.17	22.49	22.98
MEAN	.68	.62	.59	.72	.95	1.19	1.26	1.45	1.23	.81	.73	.77
MAX	.95	.73	.74	.90	1.2	1.3	1.5	1.6	1.5	.94	.80	.87
MIN	.52	.47	.45	.51	.52	1.0	1.1	1.3	.94	.73	.67	.72
AC-FT	42	37	36	44	55	73	75	89	73	50	45	46

CAL YR 1979 TOTAL 280.20 MEAN .77 MAX 1.3 MIN .00 AC-FT 556
WTR YR 1980 TOTAL 334.56 MEAN .91 MAX 1.6 MIN .45 AC-FT 664

10173450 MAMMOTH CREEK ABOVE WEST HATCH DITCH NEAR HATCH, UTAH

LOCATION.--Lat 37°37'19", long 112°31'07", in NE1/4NW1/4SW1/4 sec.3, T.37 S., R.6 W., Garfield County, Hydrologic Unit 16030001, on left bank 0.5 mi (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.--16 years, 48.8 ft^3/s (1.382 m^3/s), 35,360 acre-ft/yr (43.6 hm^3/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 22	2330	438	12.40	3.99	1.216
June 12	0200	*594	16.82	4.61	1.405

Minimum, 2.9 ft^3/s (0.082 m^3/s) Dec. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	28	18	20	18	16	14	84	386	259	76	46
2	32	27	18	20	18	16	14	70	402	243	87	46
3	32	27	18	20	18	16	14	65	425	221	78	44
4	32	27	18	20	18	16	14	70	452	210	74	43
5	31	27	18	20	18	16	15	84	478	195	70	43
6	31	26	18	20	17	16	15	103	494	184	69	43
7	31	26	18	20	17	16	15	130	495	179	67	50
8	31	27	18	20	17	16	16	148	502	174	65	62
9	31	27	18	20	17	16	16	166	518	163	64	59
10	31	27	18	20	17	15	17	168	538	156	63	69
11	30	26	18	20	17	15	17	165	549	149	61	59
12	30	26	18	20	17	15	17	150	549	141	59	55
13	29	25	18	20	17	15	17	133	532	136	65	50
14	29	25	18	20	17	15	18	125	523	130	63	47
15	29	24	18	19	17	15	20	111	516	122	60	46
16	29	24	18	19	17	15	21	100	514	117	59	43
17	29	24	19	19	17	15	24	101	508	112	58	43
18	29	24	19	19	17	15	28	123	498	108	56	41
19	29	24	19	19	17	15	33	162	478	105	55	41
20	31	23	19	19	17	15	45	228	463	101	54	41
21	31	22	19	19	16	15	55	302	448	99	53	41
22	31	21	19	19	16	15	58	403	430	97	51	41
23	30	20	19	19	16	15	55	408	412	97	51	40
24	29	19	19	19	16	15	45	391	401	93	52	40
25	28	18	19	19	16	15	41	343	388	90	54	39
26	28	18	19	19	16	15	45	273	375	97	52	38
27	27	17	19	19	16	15	55	245	358	87	50	38
28	27	17	19	19	16	15	66	265	340	82	48	38
29	27	17	20	19	16	15	81	276	317	81	47	37
30	29	17	20	19	---	14	85	316	277	78	46	36
31	28	---	20	19	---	14	---	353	---	76	46	---
TOTAL	924	700	576	603	489	472	976	6061	13566	4182	1853	1359
MEAN	29.8	23.3	18.6	19.5	16.9	15.2	32.5	196	452	135	59.8	45.3
MAX	33	28	20	20	18	16	85	408	549	259	87	69
MIN	27	17	18	19	16	14	14	65	277	76	46	36
AC-FT	1830	1390	1140	1200	970	936	1940	12020	26910	8290	3680	2700

CAL YR 1979 TOTAL 30220.4 MEAN 82.8 MAX 587 MIN 4.6 AC-FT 59940
WTR YR 1980 TOTAL 31761.0 MEAN 86.8 MAX 549 MIN 14 AC-FT 63000

10174500 SEVIER RIVER AT HATCH, UTAH

LOCATION.--Lat 37°39'07", long 112°25'47", in SW1/4SW1/4NW1/4 sec.28, T.36 S., R.5 W., Garfield County, Hydrologic Unit 16030001, on left bank 35 ft (11 m) upstream from highway bridge, 0.2 mi (0.3 km) east of Hatch, and 2.8 mi (4.5 km) downstream from Mammoth Creek. Prior to Aug. 31, 1978 at site 260 ft (79 m) downstream.

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.

REMARKS.--Records good except those for period of no gage-height record, Dec. 11 to Mar. 5, which are fair. Small diversions for irrigation above station. No regulation since Hatchtown Dam failed in 1914.

AVERAGE DISCHARGE.--58 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 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.--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)
May 10	1130	798	22.6	3.09	0.942
May 24	1200	*1210	34.3	3.80	1.158
June 12	0930	1080	30.6	3.60	1.097

Minimum daily discharge, 69 ft^3/s (1.954 m^3/s) Jan. 19-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	94	88	80	70	80	77	508	710	474	203	141
2	109	93	86	80	70	80	78	487	700	459	208	145
3	106	92	90	80	70	80	78	482	696	436	200	150
4	107	92	91	80	70	80	80	517	710	432	180	161
5	102	92	91	80	70	80	85	568	760	432	170	163
6	99	94	90	80	70	80	90	623	820	406	162	173
7	96	94	90	80	70	81	103	673	819	406	155	207
8	94	100	91	80	70	79	104	715	872	413	152	215
9	90	97	85	79	71	82	113	734	829	384	148	215
10	92	95	86	77	71	78	128	762	824	377	146	213
11	93	91	85	75	71	78	142	765	888	391	144	141
12	93	90	84	74	71	80	148	697	910	384	143	134
13	91	91	84	73	72	79	165	633	888	363	143	130
14	92	96	83	73	72	78	188	617	888	350	145	127
15	92	95	82	73	73	80	212	597	824	340	148	127
16	93	95	82	72	74	83	236	548	837	343	155	128
17	93	96	82	72	77	76	270	547	813	322	160	130
18	94	99	82	70	78	79	280	576	763	305	157	130
19	94	97	82	69	78	82	325	622	734	301	155	130
20	97	93	82	69	79	78	363	711	705	298	150	127
21	100	93	83	69	79	82	368	834	650	289	150	127
22	96	95	83	69	80	82	367	1000	628	273	143	123
23	96	92	83	69	80	83	323	1090	633	261	141	109
24	96	89	82	69	80	80	281	1100	611	255	143	111
25	95	95	82	69	80	81	306	1000	593	255	152	113
26	94	95	81	70	80	78	356	865	589	260	145	113
27	93	90	80	70	80	78	372	780	575	245	141	115
28	93	84	80	70	80	77	371	700	546	215	141	117
29	92	86	80	70	80	78	467	646	546	200	141	113
30	94	87	80	70	---	79	455	637	483	195	134	113
31	92	---	80	70	---	74	---	668	---	197	136	---
TOTAL	2983	2792	2610	2281	2166	2465	6931	21702	21844	10261	4791	4241
MEAN	96.2	93.1	84.2	73.6	74.7	79.5	231	700	728	331	155	141
MAX	115	100	91	80	80	83	467	1100	910	474	208	215
MIN	90	84	80	69	70	74	77	482	483	195	134	109
AC-FT	5920	5540	5180	4520	4300	4890	13750	43050	43330	20350	9500	8410

CAL YR 1979 TOTAL 74872 MEAN 205 MAX 1110 MIN 47 AC-FT 148500
WTR YR 1980 TOTAL 85067 MEAN 232 MAX 1100 MIN 69 AC-FT 168700

10176300 PANGUITCH CREEK NEAR PANGUITCH, UTAH

LOCATION.--Lat 37°46'18", long 112°32'12", in SW1/4NE1/4NW1/4 sec.16, T.35 S., R.6 W., Garfield County, Hydrologic Unit 16030001, on right bank 5.8 mi (9.3 km) downstream from Panguitch Lake and 6.8 mi (10.9 km) southwest of Panguitch.

DRAINAGE AREA.--97.0 mi^2 (251 km^2).

PERIOD OF RECORD.--April 1961 to September 1980 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 7,600 ft (2,316 m) from topographic map.

REMARKS.--Records poor except for June to Sept. 30, which are good. Flow regulated by Panguitch Lake, usable capacity 17,800 acre-ft (21.9 hm^3).

AVERAGE DISCHARGE.--19 years, 23.9 ft^3/s (0.677 m^3/s), 17,320 acre-ft/yr (21.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 670 ft^3/s (19.0 m^3/s) August 25, 1961, gage height, 4.55 ft (1.387 m); from rating curve extended above 65 ft^3/s (1.84 m^3/s) on basis of velocity-area study; no flow for all or part of November 2, 1961, and several days during the winter period, 1978 WY.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 121 ft^3/s (3.43 m^3/s) June 12, gage height unknown; minimum, 1.1 ft^3/s (0.031 m^3/s) from Dahman indicator, date unknown.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	5.0	4.3	2.2	1.5	2.1	3.7	84	90	109	57	44
2	7.4	4.9	4.4	2.2	1.5	2.1	3.9	82	96	68	61	53
3	6.1	5.0	4.4	2.1	1.5	2.1	4.2	82	100	66	60	59
4	6.1	5.1	4.4	2.1	1.5	2.1	4.6	84	103	65	57	59
5	5.8	5.3	4.3	2.1	1.5	2.1	5.1	86	105	67	54	59
6	6.5	5.2	4.3	2.0	1.5	2.1	5.7	87	105	75	56	60
7	4.6	5.1	4.1	2.0	1.5	2.2	6.5	88	106	76	58	70
8	5.4	5.1	4.0	1.9	1.5	2.2	7.4	87	108	78	59	59
9	3.9	5.0	3.9	1.8	1.5	2.2	8.3	85	110	89	58	41
10	3.9	5.0	3.7	1.8	1.5	2.3	9.8	83	113	78	58	35
11	4.6	5.0	3.6	1.7	1.6	2.3	12	79	117	66	72	13
12	3.5	5.0	3.5	1.7	1.6	2.4	15	76	121	61	73	11
13	3.5	5.0	3.4	1.6	1.6	2.4	18	74	111	60	78	9.5
14	4.2	5.0	3.3	1.6	1.7	2.5	22	73	98	60	76	5.4
15	5.4	4.9	3.4	1.6	1.7	2.6	29	74	94	60	73	5.4
16	7.9	4.7	3.4	1.6	1.8	2.6	35	75	95	71	74	5.8
17	7.9	4.6	3.4	1.6	1.9	2.7	50	76	103	77	72	5.8
18	7.4	4.4	3.5	1.5	1.9	2.7	63	74	104	86	69	3.9
19	6.9	4.2	3.5	1.5	2.0	2.8	76	72	104	86	68	3.1
20	7.4	4.1	3.4	1.5	2.0	2.8	87	69	104	88	67	3.9
21	7.9	4.2	3.3	1.5	2.0	2.8	94	67	101	89	68	5.0
22	6.9	4.2	3.2	1.5	2.0	2.8	105	67	100	89	68	4.2
23	6.1	4.1	3.1	1.5	2.0	2.9	109	68	101	88	68	4.2
24	5.8	4.0	2.9	1.5	2.0	2.9	110	69	101	88	68	5.0
25	5.8	4.0	2.6	1.5	2.0	2.9	109	70	107	77	73	5.0
26	5.0	4.0	2.4	1.5	2.0	3.0	107	72	109	63	55	5.8
27	4.6	4.0	2.2	1.5	2.0	3.0	103	74	107	58	48	5.8
28	4.2	4.1	2.1	1.5	2.0	3.1	99	76	110	58	47	6.1
29	4.2	4.1	2.0	1.5	2.0	3.2	95	79	107	58	48	4.2
30	4.2	4.2	2.1	1.5	---	3.3	89	82	110	57	49	3.9
31	5.8	---	2.1	1.5	---	3.5	---	86	---	57	47	---
TOTAL	209.9	138.5	104.2	52.6	50.8	80.7	1486.2	2400	3140	2268	1939	655.0
MEAN	6.77	4.62	3.36	1.70	1.75	2.60	49.5	77.4	105	73.2	62.5	21.8
MAX	41	5.3	4.4	2.2	2.0	3.5	110	88	121	109	78	70
MIN	3.5	4.0	2.0	1.5	1.5	2.1	3.7	67	90	57	47	3.1
AC-FT	416	275	207	104	101	160	2950	4760	6230	4500	3850	1300

CAL YR 1979 TOTAL 11685.91 MEAN 32.0 MAX 157 MIN .81 AC-FT 23180
WTR YR 1980 TOTAL 12524.90 MEAN 34.2 MAX 121 MIN 1.5 AC-FT 24840

NOTE: No gage-height record Nov. 1 to June 9.

10180000 SEVIER RIVER NEAR CIRCLEVILLE, UTAH

LOCATION.--Lat 38°06'15", long 112°20'08", in NE1/4SW1/4NW1/4 sec.20, T.31 S., R.4 W., Garfield County, Hydrologic Unit 16030001, on left bank 2 mi (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.--40 years (1914-22, 1923-24, 1949-80), 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, 960 ft^3/s (27.2 m^3/s) May 25, gage height, 4.33 ft (1.320 m); minimum, 108 ft^3/s (3.06 m^3/s) Dec. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	140	161	153	152	185	150	604	614	485	189	124
2	119	148	159	158	152	180	147	603	631	404	189	122
3	118	148	159	149	153	176	142	587	642	373	270	116
4	121	150	164	151	154	172	143	567	653	333	208	115
5	121	149	167	157	153	170	154	572	665	318	179	114
6	122	148	165	152	154	170	160	582	677	300	164	115
7	121	154	166	153	156	170	172	593	689	312	143	154
8	118	164	166	156	148	169	166	737	697	341	143	278
9	117	170	166	162	142	168	177	741	729	322	143	258
10	125	160	164	167	137	167	191	745	793	300	136	278
11	124	158	162	173	139	167	210	781	797	292	132	295
12	125	154	149	180	144	167	205	815	797	278	132	245
13	123	154	160	191	148	167	199	753	797	271	134	229
14	120	154	169	210	163	167	195	681	781	253	158	219
15	123	154	155	206	215	168	190	709	777	242	147	204
16	124	155	162	202	227	167	200	624	777	227	131	200
17	128	161	155	195	215	167	225	617	769	223	131	193
18	133	171	153	188	240	166	250	607	733	210	132	172
19	136	167	154	179	282	165	290	610	697	208	141	156
20	140	162	159	174	284	163	340	638	649	201	132	143
21	143	164	160	170	266	162	395	685	614	198	132	138
22	140	165	161	165	252	162	450	725	603	187	122	138
23	143	165	150	162	240	161	540	789	586	185	131	138
24	150	168	154	161	230	161	485	850	551	193	131	134
25	146	176	154	159	219	160	450	935	547	191	170	131
26	141	182	158	157	209	160	445	900	494	198	189	129
27	140	176	152	154	200	159	475	815	485	262	154	126
28	138	162	147	153	195	159	510	729	463	252	134	124
29	138	168	146	152	190	158	578	665	444	208	129	124
30	140	159	149	152	---	157	665	621	410	210	129	124
31	141	---	167	152	---	155	---	610	---	202	127	---
TOTAL	4032	4806	4913	5193	5559	5145	8899	21490	19561	8179	4682	5036
MEAN	130	160	158	168	192	166	297	693	652	264	151	168
MAX	150	182	169	210	284	185	665	935	797	485	270	295
MIN	114	140	146	149	137	155	142	567	410	185	122	114
AC-FT	8000	9530	9740	10300	11030	10210	17650	42630	38800	16220	9290	9990

CAL YR 1979 TOTAL 82594 MEAN 226 MAX 840 MIN 80 AC-FT 163800
WTR YR 1980 TOTAL 97495 MEAN 266 MAX 935 MIN 114 AC-FT 193400

NOTE: No gage-height record Feb. 21 to Apr. 29.

10183500 SEVIER RIVER NEAR KINGSTON, UTAH

LOCATION.--Lat 38°12'22", long 112°12'25", in SE1/4NE1/4NW1/4 sec.16, T.30 S., R.3 W., Piute County, Hydrologic Unit 16030001, on left bank 1,000 ft (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) (revised).

PERIOD OF RECORD.--June 1914 to current year.

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.--66 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, 965 ft^3/s (27.3 m^3/s) May 25, gage height, 3.10 ft (0.945 m); minimum, 39.0 ft^3/s (1.10 m^3/s) Oct. 2-3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	99	167	168	169	186	150	480	469	376	94	53
2	39	103	163	175	170	184	147	488	522	387	95	53
3	39	116	174	169	171	183	139	477	498	343	110	52
4	43	123	174	163	175	188	136	418	492	308	174	47
5	44	127	181	164	176	184	139	449	552	275	139	47
6	45	126	180	171	173	182	159	504	612	260	110	47
7	50	126	181	173	176	185	165	600	630	264	85	54
8	54	130	181	179	167	176	165	734	636	275	65	187
9	58	142	182	186	157	167	171	640	660	271	57	212
10	61	146	180	192	153	161	177	639	660	260	50	248
11	57	142	174	188	150	166	197	661	718	240	47	271
12	54	141	156	187	153	176	194	738	725	230	47	219
13	51	136	151	211	159	172	184	740	751	212	46	187
14	52	127	162	225	169	163	174	686	725	219	49	171
15	59	131	166	231	246	166	177	796	699	208	65	171
16	59	140	175	218	257	169	170	695	706	187	53	174
17	56	144	171	214	249	163	188	691	692	147	50	165
18	61	154	172	223	245	158	208	645	732	110	51	150
19	69	170	172	216	317	158	240	642	624	91	56	133
20	75	171	178	197	337	153	252	630	570	87	58	112
21	97	170	181	189	293	153	321	673	516	87	57	105
22	103	166	185	180	253	156	408	758	452	80	56	107
23	106	168	174	168	231	159	442	822	436	78	55	110
24	117	171	173	163	208	159	403	848	425	80	63	110
25	120	168	175	163	198	159	334	925	387	80	68	105
26	119	167	177	168	190	153	325	835	353	73	80	103
27	114	165	176	177	185	150	361	680	329	69	74	93
28	116	165	166	180	187	150	343	576	317	109	68	80
29	108	165	149	180	187	150	392	510	304	123	55	74
30	93	165	150	190	---	147	546	458	287	105	52	76
31	94	---	155	176	---	150	---	452	---	96	40	---
TOTAL	2253	4364	5301	5784	5901	5126	7407	19890	16479	5730	2169	3716
MEAN	72.7	145	171	187	203	165	247	642	549	185	70.0	124
MAX	120	171	185	231	337	188	546	925	751	387	174	271
MIN	39	99	149	163	150	147	136	418	287	69	40	47
AC-FT	4470	8660	10510	11470	11700	10170	14690	39450	32690	11370	4300	7370

CAL YR 1979 TOTAL 69206 MEAN 190 MAX 883 MIN 28 AC-FT 137300
WTR YR 1980 TOTAL 84120 MEAN 230 MAX 925 MIN 39 AC-FT 166900

10183900 EAST FORK SEVIER RIVER NEAR RUBYS INN, UTAH

LOCATION.--Lat 37°34'33", long 112°15'54", in NE1/4SE1/4NW1/4 sec.19, T.37 S., R.4 W., Garfield County, Hydrologic Unit 16030002, Dixie National Forest, on left bank about 100 ft (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.--(Water year) WDR Utah 1974.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,860 ft (2,396 m) from river-profile map. Prior to Oct. 10, 1966, on right bank at different datum.

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

AVERAGE DISCHARGE.--19 years, 17.1 ft^3/s (0.484 m^3/s), 12,390 acre-ft/yr (15.3 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 discharges 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 10	2200	270	7.65	2.94	0.896
May 23	0030	*448	12.70	3.28	1.000
July 8	0030	66	1.87	2.21	0.674
July 27	0300	100	2.83	2.42	0.738

Minimum discharge, 2.4 ft^3/s (0.680 m^3/s) Dec 25, result of freezeup.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	8.5	6.8	5.8	12	14	17	161	221	49	24	14
2	9.2	8.5	6.8	5.9	12	15	17	155	221	48	26	14
3	8.9	8.4	6.8	6.0	12	15	17	146	217	42	27	13
4	8.9	8.4	6.7	6.1	12	15	17	161	217	38	22	13
5	9.1	8.3	6.7	5.9	12	15	18	180	221	36	21	13
6	8.9	8.2	6.8	6.0	12	15	20	191	213	35	20	14
7	8.9	8.1	6.9	6.1	12	16	24	209	194	38	18	17
8	9.0	8.1	6.9	5.8	12	16	33	221	177	49	18	21
9	9.1	8.1	6.8	5.7	12	16	29	229	161	37	18	32
10	9.1	8.2	6.7	5.6	13	16	29	233	149	33	17	36
11	9.1	8.2	6.6	9.2	14	16	34	221	138	32	17	24
12	9.3	8.1	6.6	9.6	13	16	35	188	126	31	16	19
13	9.2	8.0	6.5	9.8	13	16	35	174	116	30	17	17
14	9.3	7.9	6.5	10	14	16	38	177	108	29	18	16
15	9.2	7.4	6.5	10	14	16	46	155	100	27	17	16
16	9.5	6.8	6.4	10	14	16	51	152	93	27	16	15
17	9.8	7.4	6.4	11	14	16	61	170	88	25	15	15
18	9.9	7.5	6.3	11	14	16	68	180	81	24	16	14
19	10	7.3	6.2	11	14	16	86	205	76	23	15	14
20	10	7.2	6.0	11	14	16	104	250	72	23	15	13
21	9.9	7.2	6.0	11	14	16	112	305	67	22	15	14
22	9.7	7.2	6.0	11	14	16	112	389	63	23	15	14
23	9.3	7.2	6.0	12	14	16	100	416	59	27	16	14
24	9.3	7.2	5.6	12	13	16	94	406	56	26	17	14
25	9.2	7.1	4.8	12	13	16	123	340	54	28	22	14
26	9.0	6.9	3.1	12	14	16	146	280	50	37	20	14
27	8.8	6.8	3.6	11	14	16	143	245	48	49	16	14
28	8.8	6.8	7.2	11	14	17	155	221	46	29	15	14
29	8.8	6.7	6.8	11	14	17	170	198	44	31	15	14
30	8.8	6.7	6.4	11	---	17	161	198	44	25	15	13
31	8.6	---	6.0	11	---	17	---	205	---	24	14	---
TOTAL	285.8	228.4	193.4	286.5	383	493	2095	6963	3520	997	553	489
MEAN	9.22	7.61	6.24	9.24	13.2	15.9	69.8	225	117	32.2	17.8	16.3
MAX	10	8.5	7.2	12	14	17	170	418	221	49	27	36
MIN	8.6	6.7	3.1	5.6	12	14	17	146	44	22	14	13
AC-FT	567	453	384	568	760	978	4160	13810	6980	1980	1100	970

CAL YR 1979 TOTAL 12348.2 MEAN 33.8 MAX 229 MIN 3.1 AC-FT 24490
WTR YR 1980 TOTAL 16487.1 MEAN 45.0 MAX 418 MIN 3.1 AC-FT 32700

10187300 OTTER CREEK NEAR KOOSHAREM, UTAH

LOCATION.--Lat 38°36'40", long 111°48'40", in NW1/4 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 for winter period and period of no gage-height record, which are fair. No diversion above station.

AVERAGE DISCHARGE.--16 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 discharge (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 6	2000	54.0	1.53	2.20	0.671
May 22	2100	*77.0	2.18	2.38	0.725
June 5	2000	54.0	1.53	1.53	0.664

Minimum discharge, 6.2 ft^3/s (0.18 m^3/s) Mar. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	9.7	8.3	8.8	8.3	8.3	8.6	17	28	18	12	11
2	9.8	9.7	8.6	8.8	8.3	8.4	8.0	17	31	18	12	11
3	11	10	8.9	8.8	8.4	8.5	8.0	21	36	16	12	11
4	11	9.7	8.8	8.8	8.3	8.3	8.3	24	40	15	12	10
5	11	10	8.8	8.8	8.3	8.3	8.6	26	41	15	12	11
6	10	9.3	9.1	8.9	8.4	8.5	8.3	30	40	15	12	11
7	10	9.6	9.3	9.0	8.6	8.5	8.3	30	37	15	12	13
8	10	9.8	9.3	8.9	8.4	8.3	8.0	26	37	15	11	15
9	10	9.7	9.2	8.8	8.4	7.9	8.6	24	37	15	11	13
10	10	9.6	9.1	9.0	8.3	7.9	9.3	22	39	14	11	16
11	10	9.1	9.0	8.9	8.3	8.3	8.9	20	39	14	11	13
12	10	8.9	9.0	9.1	8.2	7.9	8.3	18	36	14	11	11
13	10	8.8	8.9	9.1	8.3	7.9	8.3	17	31	14	11	11
14	10	8.9	8.9	9.4	8.5	8.3	9.0	18	28	13	12	10
15	10	8.9	8.9	8.7	8.4	8.3	10	18	26	13	12	10
16	10	9.0	8.8	8.6	8.3	7.5	11	21	29	13	12	10
17	10	9.1	8.9	8.6	8.5	9.3	12	21	23	13	11	10
18	10	9.2	9.3	8.8	8.8	7.9	14	21	22	13	11	10
19	10	9.2	9.3	8.7	8.7	8.0	15	28	20	13	11	10
20	11	9.1	9.4	8.5	8.6	8.0	16	37	19	13	11	10
21	10	9.0	9.5	8.3	8.4	8.3	19	46	19	13	11	10
22	9.8	9.1	9.3	8.0	8.4	8.0	19	56	18	13	11	9.9
23	9.9	9.2	9.2	8.2	8.3	8.0	16	54	17	13	11	9.9
24	9.7	8.8	9.0	8.0	8.2	8.0	14	40	17	13	12	9.9
25	9.7	8.9	9.0	8.4	8.2	8.0	21	32	17	13	12	9.9
26	9.7	8.9	8.9	8.3	8.4	8.6	21	28	16	12	11	9.9
27	9.7	8.4	8.8	8.3	8.5	8.0	20	25	16	12	11	9.9
28	9.7	8.4	8.7	8.5	8.6	8.0	21	26	16	12	11	9.9
29	9.3	8.3	8.6	8.6	8.4	8.0	21	27	16	12	11	9.9
30	9.7	8.2	8.5	8.3	---	8.0	17	28	16	12	11	9.9
31	9.7	---	8.6	8.3	---	8.0	---	28	---	12	11	---
TOTAL	311.7	274.5	277.9	268.2	243.7	253.2	385.5	846	807	426	353	326.1
MEAN	10.1	9.15	8.96	8.65	8.40	8.17	12.9	27.3	26.9	13.7	11.4	10.9
MAX	11	10	9.5	9.4	8.8	9.3	21	56	41	18	12	16
MIN	9.3	8.2	8.3	8.0	8.2	7.5	8.0	17	16	12	11	9.9
AC-FT	618	544	551	532	483	502	765	1680	1600	845	700	647

CAL YR 1979 TOTAL 4549.9 MEAN 12.5 MAX 54 MIN 7.3 AC-FT 9020
WTR YR 1980 TOTAL 4772.8 MEAN 13.0 MAX 56 MIN 7.5 AC-FT 9470

10187500 OTTER CREEK ABOVE RESERVOIR, NEAR ANTIMONY, UTAH

LOCATION.--Lat 38°14'59", long 111°57'55", in SW1/4SW1/4 sec.25, T.29 S., R.2 W., in Piute County, Hydrologic Unit 16030002, on right bank 40 ft (12 m) upstream from county road bridge, 200 ft (61 m) upstream from Otter Creek Reservoir, 0.5 mi (0.8 km) east of Angle, and 9.4 mi (15.1 km) north of Antimony.

DRAINAGE AREA.--322 mi^2 (834 km^2).

PERIOD OF RECORD.--January to August 1915, October 1915 to June 1920, April 1961 to September 1964, July 1971 to September 1980 (discontinued).

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

GAGE.--Water-stage recorder. Altitude of gage is 6,380 ft (1,945 m) from topographic map. January to August 1915, October 1915 to June 1920, staff gage at same site at different datum. April 1961 to September 1964, water-stage recorder at same site at different datum.

REMARKS.--Records good except those below 10 ft^3/s (0.283 m^3/s), which are poor. Flow affected by storage in Koosharem Reservoir, capacity 3,860 acre-ft (5.76 hm^3). Diversions for irrigation above station.

AVERAGE DISCHARGE.--16 years (1915-19, 1961-64, 1972-80) 11.9 ft^3/s (0.337 m^3/s), 8,620 acre-ft/yr (10.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 145 ft^3/s (4.11 m^3/s) March 9, 1979, gage height, 4.37 ft (1.332 m); no flow for periods in several years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 135 ft^3/s (3.82 m^3/s) Feb. 20, gage height, 4.33 ft (1.320 m); minimum discharge, 0.08 ft^3/s (0.002 m^3/s) Oct. 12, Aug. 6, 7, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.21	.20	6.4	12	16	58	30	8.5	20	.48	.24	.52
2	.14	.35	8.5	14	19	52	31	10	17	.44	.25	.55
3	.16	.67	9.8	13	17	52	36	5.1	15	.45	.20	.52
4	.34	.47	10	9.9	22	55	36	6.3	13	.47	.15	.52
5	.39	.97	13	11	24	49	33	6.5	5.4	.38	.27	.52
6	.36	1.4	13	13	23	45	32	7.1	3.7	.39	.21	.56
7	.29	.53	14	14	21	45	33	9.4	3.5	.46	.12	.64
8	.25	.61	16	14	13	43	30	18	3.7	.55	.20	.64
9	.23	1.2	17	16	15	39	27	17	3.3	.53	.15	.66
10	.22	.93	18	18	18	36	27	16	2.2	.62	.16	3.5
11	.20	.86	21	15	19	35	29	15	2.3	.62	.17	2.2
12	.19	.81	12	15	21	40	28	20	2.0	.76	.14	6.7
13	.18	1.1	12	33	20	40	26	25	2.0	.75	.13	6.0
14	.25	1.4	8.1	51	22	38	22	33	1.8	.66	.18	1.4
15	.32	1.6	8.7	39	32	38	16	48	1.7	.61	.18	1.1
16	.38	2.5	9.8	40	32	39	21	56	2.3	.60	.12	1.1
17	.36	3.8	11	30	34	33	19	58	1.5	.70	.16	1.0
18	.33	7.2	11	30	48	32	15	35	1.3	.60	.20	1.2
19	.29	8.3	11	28	88	33	9.3	33	1.2	.43	.13	1.2
20	.26	11	13	23	123	32	5.7	29	1.1	.38	.13	1.2
21	.27	8.0	15	18	123	31	5.7	19	.92	.37	.17	1.1
22	.31	7.9	16	19	109	34	3.0	21	.83	.56	.23	1.1
23	.35	9.3	15	18	75	31	4.9	18	.78	.27	.24	1.0
24	.45	8.2	14	18	52	34	5.1	23	.70	.25	.24	1.0
25	.90	11	14	18	39	34	6.5	32	.58	.20	.36	1.0
26	.60	13	15	20	37	31	4.2	30	.60	.28	.54	1.0
27	.27	14	15	20	41	28	3.6	21	.57	.38	.60	1.0
28	.23	10	10	21	47	28	3.8	14	.49	.37	.53	1.0
29	.24	8.7	8.4	19	54	23	3.3	11	.46	.38	.48	1.1
30	.42	7.4	8.8	12	---	30	4.9	6.5	.45	.31	.52	1.4
31	.25	---	9.3	17	---	33	---	7.8	---	.28	.54	---
TOTAL	9.64	143.40	383.8	638.9	1204	1171	551.0	659.2	110.38	14.53	7.94	42.43
MEAN	.31	4.78	12.4	20.6	41.5	37.8	18.4	21.3	3.68	.47	.26	1.41
MAX	.90	14	21	51	123	58	36	58	20	.76	.60	6.7
MIN	.14	.20	6.4	9.9	13	23	3.0	5.1	.45	.20	.12	.52
AC-FT	19	284	761	1270	2390	2320	1090	1310	219	29	16	84

CAL YR 1979 TOTAL 4856.55 MEAN 13.3 MAX 120 MIN .01 AC-FT 9630
WTR YR 1980 TOTAL 4936.22 MEAN 13.5 MAX 123 MIN .12 AC-FT 9790

10188000 OTTER CREEK RESERVOIR NEAR ANTIMONY, UTAH

LOCATION.--Lat 38°10'15", long 112°01'25", in NW1/4 sec.28, T.30 S., R.2 W., Piute County, Hydrologic Unit 16030002, near spillway on right side of dam on Otter Creek, 3.7 mi (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, 54,690 acre-ft (67.4 hm^3) June 30, gage height, 36.8 ft (11.217m); minimum observed, 31,890 acre-ft (39.3 hm^3) Oct. 31, gage height, 26.8 ft (8.169 m).

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

25	28,400	35	50,170
30	38,550	37	55,200

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
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	---	---	---	---	---	---	---	---	---	---	---	---
10	33500	32690	35570	39430	43480	48710	---	53170	53680	54180	49440	40980
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	48220	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	32690	33910	36410	41200	45100	49190	49190	52660	54180	52660	47970	38550
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	47010	---	---	---	---	---	---	---
30	---	34740	---	---	---	---	51670	53170	54690	---	---	39870
31	31890	---	37480	42110	---	49680	---	---	---	51170	43020	---
(†)	26.8	28.2	29.5	31.6	33.7	34.8	35.6	36.2	36.8	35.4	32.0	30.6
(‡)	-2640	+2850	+2740	+4630	+4900	+2670	+1990	+1500	+1520	-3520	-8150	-3150

CAL YR 1979 . . . . . +20230
WTR YR 1980 . . . . . + 5340

(†) 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 NW1/4SW1/4SE1/4 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) (revised).

PERIOD OF RECORD.--March 1913 to current year.

REVISED RECORDS.--WSP 750: 1931-32.

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. 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.--67 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, 637 ft^3/s (18.0 m^3/s) May 23, gage height, 3.46 ft (1.05 m); minimum, 6.3 ft^3/s (0.18 m^3/s) Dec. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	55	21	21	20	22	82	235	258	65	111	99
2	76	55	20	21	21	22	82	250	248	67	113	99
3	76	51	20	21	22	22	82	261	248	66	117	101
4	75	24	20	21	23	22	83	266	245	63	117	101
5	75	22	20	21	25	24	146	266	245	65	113	103
6	76	21	19	21	25	26	235	280	240	65	113	106
7	87	20	19	21	25	29	222	292	225	70	113	111
8	134	21	19	21	23	30	210	323	225	77	113	117
9	137	21	19	20	22	30	200	352	230	82	111	122
10	136	22	19	20	22	32	138	338	228	79	108	121
11	134	22	19	20	22	36	46	347	230	79	106	110
12	137	21	20	20	22	41	46	355	228	76	108	106
13	136	22	20	23	23	43	47	366	228	70	106	106
14	135	22	21	26	25	44	50	366	228	67	106	104
15	134	21	21	22	33	45	194	386	69	63	106	104
16	119	21	21	20	30	50	210	401	57	62	106	103
17	58	22	21	20	28	51	209	426	58	61	103	103
18	57	22	21	22	27	53	208	442	57	77	104	103
19	55	22	21	22	27	56	208	456	52	136	106	101
20	55	20	21	21	34	56	201	473	48	132	108	99
21	56	22	21	20	29	57	205	486	50	130	106	98
22	54	22	22	23	26	62	208	534	63	128	103	98
23	55	22	22	22	26	63	213	615	66	121	103	101
24	54	22	22	22	23	63	208	612	65	119	106	103
25	54	22	22	21	23	65	208	601	66	113	119	104
26	54	22	22	20	23	67	208	559	61	110	110	101
27	54	22	22	20	22	67	205	534	60	110	104	101
28	54	22	22	20	22	70	208	483	62	108	103	101
29	54	22	22	20	22	70	215	449	58	108	101	101
30	55	22	22	21	---	79	225	429	57	108	101	103
31	55	---	21	22	---	79	---	392	---	109	101	---
TOTAL	2569	747	642	655	715	1476	5002	12575	4255	2786	3345	3130
MEAN	82.9	24.9	20.7	21.1	24.7	47.6	167	406	142	89.9	108	104
MAX	137	55	22	26	34	79	235	615	258	136	119	122
MIN	54	20	19	20	20	22	46	235	48	61	101	98
AC-FT	5100	1480	1270	1300	1420	2930	9920	24940	8440	5530	6630	6210

CAL YR 1979 TOTAL 28292.9 MEAN 77.5 MAX 789 MIN 8.1 AC-FT 56120
WTR YR 1980 TOTAL 37897.0 MEAN 104 MAX 615 MIN 19 AC-FT 75170

10191000 PIUTE RESERVOIR NEAR MARYSVALE, UTAH

LOCATION.--Lat 38°19'26", long 112°11'26", in NW1/4NE1/4NW1/4 sec.3, T.29 S., R.3 W., Piute County, Hydrologic Unit 16030001, at Piute Dam on Sevier River, 9.0 mi (14.5 km) south of Marysvale.

DRAINAGE AREA.--2,438 mi^2 (6,314 km^2) (revised).

PERIOD OF RECORD.--March 1914 to current year.

REVISED RECORDS.--WRD Utah-78: Drainage area.

GAGE.--Staff gage read at irregular intervals. Datum of gage is 5,900.8 ft (1,798.56 m) National Geodetic Vertical Datum (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, 72,860 acre-ft ft (89.8 hm^3) June 15, gage height, 76.4 ft (23.29 m); minimum observed, 20,230 acre-ft (24.9 hm^3) Oct. 1, gage height, 47.7 ft (14.54 m).

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

45	16,760	65	48,170
50	23,380	70	58,030
55	30,870	75	69,260
60	39,150	77	74,400

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20230	23380	34080	45580	51230	50840	51610	---	---	71310	62070	43400
2	---	---	---	---	---	---	---	---	66850	---	---	---
3	---	---	---	---	51230	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	68060	---	---	---
5	20760	---	---	47060	---	51610	---	---	---	---	---	---
6	---	---	35740	---	---	---	50650	---	---	---	60780	41610
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	51030	---	52000	---	---	---	---	---
10	21300	26890	---	---	---	---	---	---	71830	70800	58880	43760
11	---	---	37780	---	---	50450	---	---	---	---	---	---
12	---	---	---	48930	---	---	---	---	---	---	---	---
13	---	27640	---	---	---	---	---	---	---	---	---	---
14	---	---	---	49310	---	---	54770	---	---	69260	---	---
15	21440	---	---	---	51030	49690	---	---	72860	---	---	45760
16	---	28400	39150	---	---	---	---	---	---	---	52390	---
17	---	---	---	---	51230	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	50650	---	---	---	---	---	67330	---	---
20	---	---	---	---	---	---	52790	---	---	---	---	---
21	---	---	---	---	---	48930	---	---	---	---	---	---
22	---	---	41790	---	---	---	---	---	71570	---	---	---
23	22120	---	---	---	50650	---	---	---	71310	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	63630	46680	50450
26	---	---	---	51230	---	---	51030	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	49690	---	---	---	---	---	---	---
29	---	---	---	---	a50260	---	---	---	71310	---	---	---
30	23380	33760	---	51230	---	50840	50070	---	a71310	---	---	51610
31	a23380	---	45210	a51230	---	a51220	---	a65830	---	62070	43400	---
(†)	---	56.8	63.4	---	---	---	66	---	---	71.9	62.4	66.8
(‡)	+3150	+10380	+11450	+6020	-970	+960	-1150	+15760	+5480	-9240	-18670	+8210

CAL YR 1979 . . . . . (‡) +26680
WTR YR 1980 . . . . . (‡) +31380

(†) 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°19'55", long 112°11'11", in NW1/4NW1/4SE1/4 sec.34, T.28 S., R.3 W., Piute County, Hydrologic Unit 16030003, on left bank 0.8 mi (1.3 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, nonrecording 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. One small diversion between gage and Piute Reservoir. Flow regulated by Piute Reservoir (see station 10191000).

AVERAGE DISCHARGE.--68 years (1912-80), 211 ft^3/s (5.976 m^3/s), 152,900 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, 930 ft^3/s (26.3 m^3/s) May 29, gage height, 2.18 ft (0.664 m); minimum, 3.7 ft^3/s (0.105 m^3/s) Apr. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	22	7.3	6.2	199	8.4	45	763	518	397	339	397
2	131	22	7.1	6.2	200	8.0	293	763	489	397	339	397
3	147	21	6.9	6.2	199	46	403	752	422	397	317	409
4	158	21	6.7	6.2	201	231	403	752	422	397	339	422
5	158	35	6.6	6.2	201	310	396	752	422	391	355	415
6	159	44	6.5	6.4	201	307	396	752	422	391	402	374
7	157	44	6.4	6.8	201	306	344	710	422	385	467	344
8	157	44	6.2	16	201	306	8.6	630	422	379	529	317
9	159	44	6.2	54	201	301	7.6	640	415	379	572	145
10	153	44	6.2	124	201	301	7.0	650	467	373	648	100
11	136	44	6.2	125	201	301	6.5	650	588	448	640	95
12	136	45	6.2	125	196	301	5.0	660	625	441	648	81
13	136	45	6.2	125	188	301	4.0	670	722	434	655	79
14	137	45	6.2	126	188	301	3.7	670	791	434	640	70
15	161	45	6.2	114	199	301	181	525	807	415	618	34
16	174	45	6.2	93	248	301	496	815	799	409	588	28
17	174	45	6.2	93	341	301	593	826	738	403	558	21
18	160	45	6.2	122	374	301	784	826	632	460	565	15
19	150	45	6.2	147	371	301	467	850	625	494	565	11
20	150	46	6.2	147	369	301	253	850	625	536	565	9.6
21	150	17	6.3	151	371	301	467	861	625	522	565	7.6
22	150	13	6.4	156	370	301	794	826	550	501	565	7.6
23	139	11	6.4	156	389	301	784	602	367	474	565	7.0
24	95	9.8	6.4	156	417	301	784	620	398	428	565	7.0
25	95	9.2	6.4	157	414	150	784	620	398	344	565	10
26	95	8.6	6.2	161	413	8.9	773	640	397	262	487	57
27	105	8.3	6.2	171	140	8.6	763	836	397	262	467	58
28	114	8.0	6.2	173	7.3	8.6	763	884	397	291	415	58
29	114	7.8	6.2	178	7.3	8.3	763	919	397	317	434	53
30	114	7.5	6.2	199	---	8.2	763	794	397	317	434	53
31	66	---	6.2	200	---	8.2	---	680	---	328	397	---
TOTAL	4261	891.2	197.2	3313.2	7208.6	6539.2	12534.4	22790	15696	12406	15808	4081.8
MEAN	137	29.7	6.36	107	249	211	418	735	523	400	510	136
MAX	174	46	7.3	200	417	310	794	919	807	536	655	422
MIN	66	7.5	6.2	6.2	7.3	8.0	3.7	525	367	262	317	7.0
AC-FT	8450	1770	391	6570	14300	12970	24860	45200	31130	24610	31360	8100

CAL YR 1979 TOTAL 89867.0 MEAN 246 MAX 1100 MIN 1.9 AC-FT 178300
WTR YR 1980 TOTAL 105726.6 MEAN 289 MAX 919 MIN 3.7 AC-FT 209700

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 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT									
05...	1400	150	500	8.5	23.0	16.0	8.9	210	0
DEC									
07...	1300	6.4	500	8.7	7.4	6.0	12.4	220	0
MAR									
07...	1100	313	485	8.5	3.7	5.0	11.1	230	0
APR									
03...	1200	424	540	8.5	8.4	5.0	10.7	200	0
MAY									
16...	1100	810	420	8.3	14.1	11.0	9.7	190	0
JUN									
03...	1120	418	430	8.5	18.5	14.0	10.0	190	0
JUL									
08...	1100	385	405	7.7	--	16.0	8.7	180	0
AUG									
04...	1130	337	400	8.0	23.0	20.0	8.1	190	0
SEP									
02...	1230	404	460	8.4	24.5	18.0	8.7	210	0

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
OCT									
05...	48	22	27	32	.8	32	4.5	--	--
DEC									
07...	49	23	32	35	.9	36	3.7	--	--
MAR									
07...	52	24	27	20	.8	31	3.9	290	3
APR									
03...	44	22	26	22	.8	--	3.6	270	8
MAY									
16...	42	20	19	18	.6	--	3.3	260	0
JUN									
03...	43	21	18	17	.6	--	3.1	230	14
JUL									
08...	41	18	15	15	.5	--	2.9	--	--
AUG									
04...	43	20	17	16	.5	--	3.7	250	0
SEP									
02...	47	22	21	18	.6	--	4.2	--	--

DATE	ALKA-LINITY (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									
05...	220	--	29	12	.5	20	296	.40	120
DEC									
07...	230	--	30	9.6	.3	24	311	.42	5.40
MAR									
07...	230	1.5	26	10	.3	19	301	.41	254
APR									
03...	235	1.4	26	9.7	.3	22	295	.40	338
MAY									
16...	213	2.1	21	8.2	.3	19	261	.35	571
JUN									
03...	212	1.3	16	7.7	.2	20	257	.35	290
JUL									
08...	200	--	12	12	.5	20	242	.33	252
AUG									
04...	205	4.0	14	7.8	.3	22	251	.34	228
SEP									
02...	220	--	19	9.4	.3	19	291	.40	317

10191500 SEVIER RIVER BELOW PIUTE DAM, NEAR MARYSVALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)
OCT		
05...	.11	.000
DEC		
07...	.24	.010
MAR		
07...	.06	.020
APR		
03...	.04	.020
MAY		
16...	.09	.020
JUN		
03...	.07	.020
JUL		
08...	.05	.110
AUG		
04...	.01	.040
SEP		
02...	3.7	.010

10194000 SEVIER RIVER ABOVE CLEAR CREEK, NEAR SEVIER, UTAH

LOCATION.--Lat 38°34'20", long 112°15'27", in NE1/4NW1/4NE1/4 sec.5, T.26 S., R.4 W., Sevier County, Hydrologic Unit 16030003, on right bank 0.6 mi (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.--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, nonrecording 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.--40 years (1912-16, 1939-55, 1960-80), 233 ft^3/s (6.599 m^3/s), 168,800 acre-ft/yr (208 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, 1,002 ft^3/s (28.4 m^3/s) June 17, gage height, 3.26 ft (0.99 m); minimum observed, 6.6 ft^3/s (0.187 m^3/s) Nov. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	105	36	30	244	44	33	733	689	764	346	415
2	161	58	35	30	243	41	93	735	659	816	355	401
3	162	50	35	31	243	38	350	731	613	812	349	391
4	180	47	34	30	244	81	402	727	582	784	332	387
5	191	46	34	30	244	287	407	729	616	739	334	393
6	192	50	33	31	243	328	402	734	637	696	349	393
7	192	70	32	30	243	333	417	761	649	663	374	393
8	192	69	32	29	243	325	299	740	652	646	415	390
9	192	65	31	28	243	314	57	693	665	629	461	350
10	192	62	31	65	243	311	42	696	699	609	504	258
11	189	61	29	136	242	315	36	705	743	597	559	165
12	177	61	29	144	242	325	34	711	786	596	585	123
13	171	60	29	149	238	328	31	705	900	596	595	97
14	171	61	29	154	237	323	30	703	945	584	606	86
15	171	61	29	153	245	322	148	630	965	572	612	80
16	185	60	29	126	265	319	479	654	981	555	606	56
17	206	60	29	113	322	320	517	791	1000	536	590	42
18	215	62	29	117	403	320	614	802	985	520	574	37
19	218	62	29	170	421	319	694	807	911	516	563	34
20	208	60	30	178	421	320	502	815	912	522	556	33
21	204	65	30	176	414	316	333	834	903	530	550	32
22	200	60	30	183	417	316	603	885	887	535	547	31
23	196	53	30	196	412	318	730	903	798	535	545	32
24	188	46	30	190	435	315	733	805	681	530	540	32
25	152	43	30	194	443	312	735	769	677	522	535	33
26	130	39	30	192	441	89	730	740	670	474	533	33
27	122	38	30	204	417	47	724	713	661	382	526	49
28	122	37	29	212	95	40	733	745	665	335	511	65
29	127	36	29	219	51	37	729	810	669	328	482	77
30	129	36	29	232	---	34	732	860	685	336	453	77
31	131	---	30	244	---	34	---	826	---	339	431	---
TOTAL	5388	1683	951	4016	8594	7171	12369	23492	22885	17598	15318	4985
MEAN	174	56.1	30.7	130	296	231	412	758	763	568	494	166
MAX	218	105	36	244	443	333	735	903	1000	816	612	415
MIN	122	36	29	28	51	34	30	630	582	328	332	31
AC-FT	10690	3340	1890	7970	17050	14220	24530	46600	45390	34910	30380	9890

CAL YR 1979 TOTAL 104125.8 MEAN 285 MAX 1170 MIN 5.8 AC-FT 206500
WTR YR 1980 TOTAL 124450.0 MEAN 340 MAX 1000 MIN 28 AC-FT 246800

10194200 CLEAR CREEK ABOVE DIVERSIONS, NEAR SEVIER, UTAH

LOCATION.--Lat 38°34'45", long 112°17'22", in NW1/4NW1/4SW1/4 sec.31, T.25 S., R.4 W., Sevier County, Hydrologic Unit 16030003, on left bank at south side of State Highway 13, 1.8 mi (2.9 km) west of Sevier, 2.3 mi (3.7 km) upstream from mouth, and 17.2 mi (27.7 km) southeast 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 fair. 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.--23 years, 32.9 ft^3/s (0.932 m^3/s), 23,840 acre-ft/yr (29.4 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, 610 ft^3/s (17.3 m^3/s) June 30, gage height, 4.03 ft (1.23 m); minimum observed, 1.8 ft^3/s (0.051 m^3/s) Nov. 29, result of freezeup.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	12	4.0	7.3	9.0	14	22	105	105	227	37	16
2	11	13	4.1	7.4	9.2	14	21	107	116	173	34	17
3	10	15	4.9	7.4	9.2	15	22	130	135	138	35	17
4	11	14	5.7	7.6	9.2	15	23	150	167	118	31	17
5	11	14	8.6	8.0	9.1	16	24	160	197	102	28	17
6	11	13	10	8.4	9.0	18	25	179	204	94	28	18
7	10	14	8.2	8.7	9.0	20	26	179	211	92	27	39
8	9.8	15	7.6	9.0	8.5	17	30	164	200	89	25	48
9	9.9	14	7.3	10	7.4	16	38	165	199	88	24	43
10	10	12	7.2	10	7.0	16	39	176	240	80	24	50
11	10	11	7.2	10	7.8	16	41	166	272	78	23	39
12	11	9.5	7.1	10	8.2	16	33	155	250	71	21	38
13	9.9	11	7.0	10	8.6	16	43	150	234	68	23	34
14	9.5	12	7.0	10	8.9	17	55	152	204	68	27	31
15	9.4	10	7.3	10	11	17	58	148	176	67	28	29
16	10	11	7.4	10	12	17	66	155	164	64	25	26
17	11	10	7.5	10	13	18	76	186	160	69	23	25
18	12	10	7.6	9.7	20	17	84	161	158	72	22	24
19	11	9.8	7.8	8.8	40	17	93	160	163	70	20	21
20	13	9.6	7.8	8.4	47	17	89	177	160	66	22	22
21	15	9.3	7.6	7.9	15	17	90	215	153	63	21	22
22	13	6.0	7.4	7.4	14	17	70	244	145	62	20	23
23	13	6.4	7.2	8.0	26	17	63	230	134	66	21	23
24	12	6.7	7.0	8.2	15	17	68	214	124	71	22	22
25	11	10	6.8	9.0	13	18	75	170	111	69	21	21
26	11	8.0	7.0	9.6	13	18	90	125	108	68	22	20
27	10	7.5	7.0	9.2	14	18	100	103	101	66	20	19
28	10	4.8	7.1	8.4	14	18	110	92	102	61	17	18
29	14	3.3	7.1	8.0	14	19	118	83	99	58	15	17
30	14	4.0	7.0	7.6	---	20	112	87	151	57	15	17
31	13	---	6.9	8.3	---	22	---	95	---	50	15	---
TOTAL	347.5	305.9	219.4	272.3	401.1	530	1804	4789	4943	2585	736	773
MEAN	11.2	10.2	7.08	8.78	13.8	17.1	60.1	154	165	83.4	23.7	25.8
MAX	15	15	10	10	47	22	118	244	272	227	37	50
MIN	9.4	3.3	4.0	7.3	7.0	14	21	83	99	50	15	16
AC-FT	689	607	435	540	796	1050	3580	9500	9800	5130	1460	1530

CAL YR 1979 TOTAL 19504.4 MEAN 53.4 MAX 480 MIN 1.8 AC-FT 38690
WTR YR 1980 TOTAL 17706.2 MEAN 48.4 MAX 272 MIN 3.3 AC-FT 35120

NOTE: No gage-height record Jan. 20 to Apr. 18.

10205000 SEVIER RIVER NEAR SIGURD, UTAH

LOCATION.--Lat 38°52'13", long 111°57'14", in SW1/4NE1/4SW1/4 sec.19, T.22 S., R.1 W., Sevier County, Hydrologic Unit 16030003, on left bank 200 ft (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.--66 years, 95.9 ft^3/s (2.716 m^3/s), 69,480 acre-ft/yr (85.7 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, 765 ft^3/s (21.7 m^3/s) May 24, gage height, 4.23 ft (1.308 m); minimum discharge, 2.05 ft^3/s (0.058 m^3/s) Aug. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	130	99	90	302	285	113	164	400	164	79	2.6
2	49	130	104	92	312	233	136	194	379	174	81	2.9
3	47	105	104	93	314	205	184	203	285	327	97	3.2
4	97	102	107	91	322	169	253	248	195	340	95	3.6
5	73	98	109	92	327	172	388	197	124	318	48	3.6
6	61	96	118	94	273	231	515	211	122	296	25	3.6
7	62	98	118	99	270	306	505	240	124	215	27	34
8	59	95	119	97	303	370	483	279	186	162	26	55
9	39	84	119	101	315	394	470	325	277	136	19	88
10	33	78	117	104	313	397	294	342	316	119	18	197
11	33	77	117	111	310	397	203	367	370	119	18	310
12	33	77	109	174	309	403	170	418	367	89	18	257
13	33	76	104	207	311	367	125	461	421	73	14	350
14	33	77	104	218	313	382	106	505	546	72	12	433
15	33	73	102	230	318	400	106	536	640	83	13	294
16	56	72	97	239	332	403	125	603	679	92	10	8.7
17	77	72	97	233	344	403	166	687	691	87	10	4.3
18	83	75	101	220	364	394	221	691	667	70	8.7	6.0
19	91	83	99	221	394	388	306	712	592	64	5.0	100
20	110	84	95	233	430	397	367	738	625	57	6.5	249
21	122	85	98	247	461	400	347	747	610	40	9.3	221
22	136	87	101	249	483	400	241	738	621	35	9.3	124
23	144	99	101	249	495	409	170	735	603	25	5.5	124
24	146	99	99	267	486	361	227	760	532	18	21	125
25	140	99	98	258	476	299	242	774	464	38	15	125
26	111	115	97	261	483	334	219	756	263	103	4.0	124
27	101	118	102	265	479	344	197	716	199	176	3.6	122
28	107	107	99	270	489	294	170	595	156	166	3.2	122
29	114	101	90	283	427	166	158	479	160	89	2.6	122
30	119	99	87	294	---	114	149	424	165	90	2.2	121
31	114	---	87	298	---	113	---	409	---	90	2.6	---
TOTAL	2511	2791	3198	5980	10755	9930	7356	15258	11779	3927	708.5	3735.5
MEAN	81.0	93.0	103	193	371	320	245	492	393	127	22.9	125
MAX	146	130	119	298	495	409	515	774	691	340	97	433
MIN	33	72	87	90	270	113	106	164	122	18	2.2	2.6
AC-FT	4980	5540	6340	11860	21330	19700	14590	30260	23360	7790	1410	7410

CAL YR 1979 TOTAL 51917.95 MEAN 142 MAX 691 MIN .75 AC-FT 103000
WTR YR 1980 TOTAL 77929.00 MEAN 213 MAX 774 MIN 2.2 AC-FT 154600

10205030 SALINA CREEK NEAR EMERY, UTAH

LOCATION.--Lat 38°54'43", long 111°31'47", in SE1/4SW1/4NW1/4 sec.12, T.22 S., R.3 E., Sevier County, Hydrologic Unit 16030003, on right bank, 2.5 mi (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, 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. No diversion above station. Slight regulation from small reservoirs at headwaters.

AVERAGE DISCHARGE.--17 years, 17.5 ft^3/s (0.496 m^3/s), 12,680 acre-ft/yr (15.6 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)
Apr. 28	2100	68	1.93	4.02	1.225
May 6	2100	232	6.57	4.48	1.366
May 21	2030	*316	8.95	4.65	1.417
June 3	2100	154	4.36	4.11	1.253

Minimum discharge, 4.0 ft^3/s (0.013 m^3/s) Apr. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	12	7.8	7.3	6.7	6.4	5.8	33	118	34	22	11
2	12	11	7.6	7.3	6.6	6.1	5.6	35	119	34	22	11
3	12	10	7.6	7.3	6.5	6.1	5.4	49	122	31	22	12
4	12	10	7.6	7.0	6.4	6.4	5.4	72	122	29	22	16
5	12	10	7.6	7.0	6.4	6.1	5.6	159	122	26	22	16
6	12	10	7.6	7.0	6.4	6.4	5.6	170	115	26	22	16
7	11	10	7.6	7.0	6.4	6.4	5.6	158	111	26	22	17
8	12	10	7.6	7.0	6.4	6.1	5.8	166	111	27	22	18
9	12	10	7.6	7.0	6.4	7.6	5.8	168	109	26	23	19
10	11	10	7.6	7.3	6.4	7.9	6.1	156	109	25	24	19
11	11	10	9.2	7.4	6.4	6.1	6.1	143	108	24	24	17
12	12	9.6	8.0	7.6	6.4	6.1	5.6	133	101	23	24	16
13	11	9.6	7.6	7.3	6.4	8.2	5.8	133	94	22	24	16
14	11	9.6	7.6	7.6	6.4	6.1	6.4	135	87	22	24	16
15	11	9.6	7.4	7.3	6.4	6.1	7.3	140	82	22	24	16
16	11	9.6	7.0	7.0	6.4	6.1	7.6	147	76	22	24	15
17	11	9.6	7.0	7.0	6.7	6.6	8.2	147	70	22	23	15
18	12	9.6	7.0	7.0	7.0	7.0	10	143	66	21	23	15
19	11	9.2	7.0	7.0	6.7	6.1	12	166	62	21	22	15
20	12	9.6	7.0	7.0	6.7	5.8	16	196	58	22	22	15
21	12	9.6	7.3	6.7	6.4	6.1	17	208	54	21	22	15
22	12	9.6	7.3	7.0	6.4	5.8	18	206	51	21	22	15
23	11	9.6	7.3	7.0	6.1	5.8	21	160	47	21	23	15
24	11	9.4	7.3	7.0	8.2	6.4	16	132	45	21	23	15
25	11	9.2	7.3	7.0	8.8	5.6	25	115	42	21	23	15
26	11	8.8	7.3	6.7	7.0	5.6	31	107	39	21	19	14
27	11	8.2	7.3	6.7	6.4	5.6	32	107	38	22	14	14
28	11	7.8	7.3	7.0	6.4	5.6	38	109	36	22	12	14
29	11	7.8	7.3	6.7	6.1	5.6	50	114	35	22	11	14
30	11	7.8	7.3	6.7	---	5.8	35	115	35	22	11	13
31	12	---	7.3	6.7	---	10	---	115	---	22	11	---
TOTAL	355	286.8	231.3	218.6	191.9	197.6	424.7	4137	2384	741	648	455
MEAN	11.5	9.56	7.46	7.05	6.62	6.37	14.2	133	79.5	23.9	20.9	15.2
MAX	12	12	9.2	7.6	8.8	10	50	208	122	34	24	19
MIN	11	7.8	7.0	6.7	6.1	5.6	5.4	33	35	21	11	11
AC-FT	704	569	459	434	381	392	842	8210	4730	1470	1290	902

CAL YR 1979 TOTAL 8212.8 MEAN 22.5 MAX 298 MIN 5.3 AC-FT 16290
WTR YR 1980 TOTAL 10270.9 MEAN 28.1 MAX 208 MIN 5.4 AC-FT 20370

10206000 SALINA CREEK AT SALINA, UTAH

LOCATION.--Lat 38°57'24", long 111°51'58", in SW1/4NW1/4NW1/4 sec.25, T.21 S., R.1 W., Sevier County, Hydrologic Unit 16030003, on right bank 150 ft (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: 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 fair. Diversions above and below station for irrigation.

AVERAGE DISCHARGE.--35 years (1915-16, 1917-19, 1943-55, 1960-80), 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, 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, 563 ft^3/s (15.9 m^3/s) May 22, gage height, 3.60 ft (1.097 m); minimum, 0.29 ft^3/s (0.008 m^3/s) Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.68	14	13	15	12	19	12	91	200	16	1.5	.50
2	.66	17	14	16	13	22	14	77	197	16	1.5	.50
3	.63	17	17	17	14	20	14	121	228	15	1.4	.54
4	.61	17	20	17	15	21	14	175	253	13	1.4	.83
5	.60	18	20	17	18	19	17	239	265	11	1.3	1.1
6	.58	16	20	17	19	23	20	304	267	9.4	1.3	.83
7	.56	18	20	17	20	25	17	351	231	8.2	1.2	2.8
8	.54	19	18	17	17	22	11	273	223	7.2	1.2	27
9	.52	16	17	15	18	18	13	245	228	7.2	1.1	25
10	.50	14	17	15	19	18	9.2	223	237	7.0	1.1	39
11	.57	13	18	16	19	22	2.4	206	237	6.0	1.0	13
12	.65	14	14	19	19	22	.94	161	211	5.0	1.0	5.7
13	.73	13	15	25	19	17	.94	121	181	4.5	1.0	6.0
14	1.8	14	16	22	19	23	.94	142	164	4.0	1.0	2.6
15	1.5	17	16	20	24	23	1.7	164	137	3.3	1.0	2.6
16	4.9	15	16	22	21	20	5.4	164	129	2.8	1.0	3.6
17	7.6	18	16	19	23	15	9.6	279	109	2.6	.94	2.8
18	8.4	21	17	19	30	19	19	178	98	2.5	.94	2.2
19	8.8	15	17	19	57	19	42	203	85	2.4	.90	1.8
20	12	17	17	18	40	19	68	290	70	2.3	.90	1.8
21	13	19	17	17	25	22	100	374	63	2.2	.90	4.1
22	12	21	17	17	22	20	156	433	57	2.1	.90	2.8
23	12	22	17	14	22	19	183	416	50	2.0	.94	1.5
24	12	23	17	16	15	18	52	312	41	1.9	.94	2.0
25	12	23	17	18	17	19	105	217	35	1.8	.94	2.8
26	10	23	16	21	19	14	139	156	31	1.7	.72	2.8
27	8.8	16	16	19	20	17	91	139	26	1.6	.61	2.0
28	9.2	12	16	16	23	15	100	161	23	1.6	.50	1.8
29	12	12	15	13	23	16	206	169	20	1.5	.50	1.2
30	15	12	15	12	---	14	116	186	17	1.5	.50	.94
31	14	---	15	12	---	12	---	178	---	1.5	.50	---
TOTAL	182.83	506	516	537	622	592	1540.12	6748	4113	164.8	30.63	162.14
MEAN	5.90	16.9	16.6	17.3	21.4	19.1	51.3	218	137	5.32	.99	5.40
MAX	15	23	20	25	57	25	206	433	267	16	1.5	39
MIN	.50	12	13	12	12	12	.94	77	17	1.5	.50	.50
AC-FT	363	1000	1020	1070	1230	1170	3050	13380	8160	327	61	322

CAL YR 1979 TOTAL 10427.83 MEAN 28.6 MAX 368 MIN .50 AC-FT 20680
WTR YR 1980 TOTAL 15714.52 MEAN 42.9 MAX 433 MIN .50 AC-FT 31170

10208500 OAK CREEK NEAR FAIRVEW, UTAH

LOCATION.--Lat 39°40'26", long 111°24'30", in NW1/4NE1/4SW1/4 sec.19, T.13 S., R.5 E., Sanpete County, Hydrologic Unit 16030004, on right bank 2.1 mi (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 good except for periods of no gage height, July 1 to Aug. 3, and Aug. 5 to Sept. 30, which are fair. No diversion or regulation above station.

AVERAGE DISCHARGE.--16 years, 10.9 ft^3/s (0.309 m^3/s), 7,900 acre-ft/yr (9.74 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 8	2300	82	2.32	3.37	1.027
May 23	1700	145	4.11	3.89	1.186
June 5	2100	*163	4.62	4.01	1.222

Minimum discharge, 1.2 ft^3/s (0.034 m^3/s) March 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.3	2.4	2.7	2.4	2.3	2.1	22	106	29	6.8	5.6
2	1.6	2.4	2.5	2.7	2.4	2.3	2.1	24	108	27	6.6	5.6
3	1.6	2.4	2.5	2.7	2.4	2.4	2.1	28	120	25	6.4	5.6
4	1.6	2.4	2.6	2.7	2.4	2.4	2.2	32	136	24	6.4	5.6
5	1.6	2.4	2.6	2.7	2.4	2.3	2.3	36	138	22	6.0	5.6
6	1.7	2.4	2.6	2.7	2.4	2.4	2.3	61	128	21	6.0	5.6
7	1.7	2.4	2.6	2.6	2.4	2.4	2.2	70	114	20	5.9	6.2
8	1.8	2.4	2.6	2.6	2.4	2.3	2.2	71	123	18	5.8	7.2
9	1.8	2.4	2.6	2.7	2.4	2.3	2.4	75	118	17	5.8	9.0
10	1.8	2.4	2.6	2.4	2.4	2.3	2.7	71	108	16	5.8	9.4
11	1.9	2.4	2.4	2.4	2.4	2.4	2.6	63	114	15	5.7	8.6
12	1.9	2.2	2.0	2.5	2.3	2.4	2.6	56	106	14	5.6	7.8
13	1.9	2.4	2.6	2.6	2.3	2.3	2.6	50	94	14	5.6	7.3
14	1.9	2.4	2.8	2.7	2.3	2.3	3.0	46	85	13	6.0	6.6
15	1.9	2.4	2.7	2.8	2.4	2.3	3.7	44	76	12	6.4	6.2
16	2.0	2.4	2.7	2.7	2.4	2.2	4.3	45	70	12	6.5	6.2
17	2.0	2.4	2.6	2.6	2.4	2.0	5.0	44	65	11	6.3	5.8
18	2.1	2.4	2.6	2.5	2.8	2.2	6.1	44	64	11	5.8	5.8
19	2.1	2.4	2.6	2.4	2.7	2.2	7.6	51	60	10	5.8	5.8
20	2.8	2.4	2.6	2.4	2.6	2.2	9.6	65	55	9.8	5.8	5.6
21	2.4	2.4	2.6	2.6	2.6	2.3	10	92	51	9.5	5.8	5.4
22	2.3	2.4	2.7	2.4	2.4	2.2	11	122	49	9.0	5.6	5.4
23	2.3	2.4	2.7	2.6	2.4	2.2	11	138	47	8.8	5.6	5.4
24	2.4	2.4	2.7	2.7	2.4	2.2	11	128	44	8.5	5.8	5.2
25	2.4	2.4	2.7	2.7	2.4	2.2	14	113	41	8.2	6.2	5.0
26	2.4	2.5	2.6	2.6	2.4	2.1	16	100	38	8.0	6.6	5.0
27	2.4	2.5	2.6	2.6	2.4	2.2	16	92	36	7.8	6.0	5.0
28	2.4	2.4	2.6	2.4	2.4	2.1	19	89	34	7.6	5.8	5.0
29	2.4	2.4	2.6	2.4	2.4	2.1	25	89	32	7.4	5.6	4.7
30	2.4	2.4	2.7	2.4	---	2.2	24	97	31	7.2	5.6	4.7
31	2.2	---	2.7	2.4	---	2.1	---	102	---	7.0	5.6	---
TOTAL	63.3	71.9	80.4	79.9	70.4	69.8	226.7	2162	2391	429.8	185.2	181.9
MEAN	2.04	2.40	2.59	2.58	2.43	2.25	7.56	69.7	79.7	13.9	5.97	6.06
MAX	2.8	2.5	2.8	2.8	2.8	2.4	25	136	138	29	6.8	9.4
MIN	1.6	2.2	2.0	2.4	2.3	2.0	2.1	22	31	7.0	5.6	4.7
AC-FT	126	143	159	158	140	138	450	4290	4740	853	367	361

CAL YR 1979 TOTAL 4010.9 MEAN 11.0 MAX 158 MIN 1.6 AC-FT 7960
WTR YR 1980 TOTAL 6012.3 MEAN 16.4 MAX 138 MIN 1.6 AC-FT 11930

10215700 OAK CREEK NEAR SPRING CITY, UTAH

LOCATION.--Lat 39°26'52", long 111°25'29", in SW1/4SE1/4SW1/4, sec.1, T.16 S., R.4 E., Sanpete County, on right bank about 400 ft (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 fair. No diversion above station. Flow includes discharge of Spring City tunnel (transmountain diversion from Colorado River Basin). Discharge measurements in cubic feet per second, during the water year 1979 prior to the installation of the recorder are listed below.

AVERAGE DISCHARGE.--11 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 m^3/s) Mar. 6, 1969.

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 10	-	*260	7.36	2.90	0.884
June 29	2200	88	2.49	2.48	.756

Minimum recorded discharge, ~~3.2~~ ft^3/s (0.091 m^3/s) ~~Jan. 10~~.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	24	7.1	5.2
2									---	22	7.0	5.1
3									---	20	7.1	5.0
4									46	18	6.6	5.0
5									---	17	6.6	5.0
6									---	15	6.4	5.0
7									---	15	7.1	5.0
8									---	14	6.9	4.9
9									---	13	6.3	4.9
10									---	12	6.1	5.1
11									---	12	5.9	4.8
12									---	12	6.1	4.8
13									---	11	6.5	4.8
14									---	11	7.1	4.6
15								*6.9	---	11	6.9	4.3
16						*3.3			---	11	6.3	4.4
17									---	10	6.1	4.4
18									---	9.9	5.9	4.4
19	*3.9						*3.1		---	10	6.0	4.4
20									---	9.6	6.2	4.4
21		*3.4							43	9.3	5.9	4.3
22									42	9.6	5.7	4.3
23									40	9.2	5.7	4.3
24				*4.2					40	9.0	5.5	4.3
25									45	8.3	5.5	4.3
26									40	8.5	5.5	4.3
27									28	8.2	5.5	4.3
28									27	7.9	5.3	4.3
29									26	7.9	5.3	4.3
30									26	7.4	5.2	4.3
31									---	7.3	5.2	---
TOTAL									---	370.1	190.5	138.5
MEAN									---	11.9	6.15	4.62
MAX									---	24	7.1	5.2
MIN									---	7.3	5.2	4.3
AC-FT									---	734	378	275

(*) Discharge measurement

10215700 OAK CREEK NEAR SPRING CITY, UTAH, Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	4.0	3.6	3.7	3.4	3.5	3.5	10	23	65	13	8.9
2	4.3	4.3	3.6	3.7	3.4	3.5	3.5	10	25	65	13	8.9
3	4.3	4.0	3.7	3.7	3.5	3.5	3.5	10	32	48	13	8.9
4	4.3	3.9	3.7	3.7	3.6	3.5	3.5	13	45	40	13	8.6
5	4.3	3.9	3.7	3.7	3.6	3.5	3.5	15	60	34	13	8.6
6	4.1	3.7	3.8	3.7	3.6	3.5	3.5	16	62	30	13	8.6
7	4.1	3.7	3.8	3.6	3.6	3.5	3.5	16	62	28	13	9.2
8	4.1	3.7	3.8	3.6	3.7	3.5	3.5	16	68	25	13	10
9	4.1	3.7	3.8	3.6	3.7	3.5	3.5	18	80	22	12	9.2
10	4.1	3.7	3.5	3.9	3.7	3.5	3.5	16	92	20	11	9.6
11	4.1	3.7	3.7	4.0	3.7	3.5	4.0	15	76	19	11	8.9
12	4.1	4.2	3.7	3.7	3.9	3.5	4.0	13	66	18	11	8.6
13	4.1	3.9	3.7	3.7	4.0	3.5	4.0	12	58	17	11	8.0
14	4.0	3.7	3.7	3.7	4.0	3.5	4.0	12	55	15	11	7.9
15	4.0	3.7	3.7	3.5	4.0	3.5	4.0	12	52	14	11	7.9
16	4.0	3.7	3.7	3.5	4.0	3.5	5.0	12	50	14	11	7.9
17	4.0	3.7	3.7	3.5	4.0	3.5	5.0	12	50	13	11	7.9
18	4.3	3.7	3.7	3.5	4.0	3.5	5.0	12	49	13	10	7.6
19	4.1	4.1	3.7	3.5	4.0	3.5	5.0	16	49	13	10	7.6
20	4.4	4.0	3.7	3.4	4.0	3.5	6.0	23	49	12	10	7.4
21	4.1	3.5	3.7	3.4	3.8	3.5	6.0	26	49	12	9.9	7.4
22	4.1	3.2	3.9	3.4	3.8	3.5	6.0	30	46	13	9.9	7.4
23	4.1	3.7	3.7	3.4	3.8	3.5	6.0	33	45	13	9.9	7.4
24	4.1	3.7	3.7	3.4	3.6	3.5	6.0	28	43	13	10	7.4
25	4.1	3.7	3.7	3.4	3.5	3.5	6.0	21	42	12	9.9	7.1
26	4.3	3.8	3.7	3.4	3.5	3.5	6.0	19	40	12	9.2	7.1
27	4.1	3.5	3.7	3.4	3.5	3.5	8.0	19	37	13	9.2	7.1
28	4.0	3.5	4.0	3.4	3.5	3.5	10	20	33	12	9.2	7.1
29	3.9	3.7	4.0	3.4	3.5	3.5	13	22	55	12	9.2	6.8
30	3.7	3.8	3.9	3.4	---	3.5	10	22	74	13	9.2	6.6
31	4.0	---	3.7	3.4	---	3.5	---	22	---	12	9.2	---
TOTAL	127.6	113.1	115.7	110.3	107.9	108.5	158.0	541	1567	662	338.8	241.6
MEAN	4.12	3.77	3.73	3.56	3.72	3.50	5.27	17.5	52.2	21.4	10.9	8.05
MAX	4.4	4.3	4.0	4.0	4.0	3.5	13	33	92	65	13	10
MIN	3.7	3.2	3.5	3.4	3.4	3.5	3.5	10	23	12	9.2	6.6
AC-FT	253	224	229	219	214	215	313	1070	3110	1310	672	479

WTR YR 1980 TOTAL 4191.5 MEAN 11.5 MAX 92 MIN 3.2 AC-FT 8310

10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UTAH

LOCATION.--Lat 39°15'33", long 111°34'45", in NE1/4SE1/4SE1/4 sec.9, T.18 S., R.3 E., Sanpete County Hydrologic Unit 16030004, on right bank 200 ft (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 Sept. 1974; September 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.--12 years, 29.7 ft^3/s (0.841 m^3/s), 21,520 acre-ft/yr (26.5 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 (1.73 m); 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 6	2000	232	6.57	2.20	0.671
May 22	2100	310	8.78	2.41	.735
June 11	2000	*481	13.60	2.75	.838
Aug. 24	1800	66	1.87	1.51	.460
Sept 7	2300	56	1.59	1.44	.899

Minimum daily discharge, 3.7 ft^3/s (1.05 m^3/s) Jan. 31, Feb. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	9.5	6.6	4.9	4.0	5.2	5.1	33	101	111	31	15
2	8.0	7.9	6.8	5.0	4.2	5.3	5.1	35	108	108	36	14
3	7.8	7.5	6.8	5.0	4.3	5.4	5.1	44	145	96	28	17
4	7.8	7.1	6.7	5.2	4.3	5.3	5.2	53	194	92	27	16
5	7.6	7.1	6.7	5.2	4.4	5.3	5.2	72	248	83	26	14
6	7.3	6.8	6.7	5.1	4.4	5.2	5.2	124	295	75	25	14
7	7.3	6.9	6.6	5.0	4.4	5.2	5.3	126	258	73	24	20
8	7.3	7.0	6.6	4.9	4.3	5.2	5.4	108	264	67	23	26
9	7.2	6.7	6.6	4.9	3.7	5.2	6.0	111	253	64	22	23
10	7.2	6.3	6.6	4.2	4.0	5.2	6.9	104	250	60	22	24
11	7.2	6.5	6.0	4.5	4.2	5.3	6.2	85	295	59	21	17
12	7.2	6.6	5.0	5.2	4.2	5.3	5.9	70	333	59	20	15
13	7.1	6.6	5.8	6.4	4.3	5.4	6.2	66	281	58	21	15
14	7.1	6.7	6.3	5.3	4.4	6.0	7.1	66	371	58	21	14
15	7.1	6.8	6.2	5.0	4.5	6.5	8.8	65	373	55	21	13
16	7.1	6.8	6.0	4.6	4.6	5.4	10	75	327	52	20	13
17	7.1	6.8	6.0	4.6	4.6	5.2	13	73	363	49	20	12
18	7.2	6.8	6.0	4.6	4.6	5.0	17	66	353	47	19	12
19	7.2	6.7	6.0	4.6	4.7	5.0	22	82	330	47	19	12
20	8.8	6.8	6.0	4.6	4.7	4.1	25	116	322	47	19	12
21	7.5	6.9	6.1	4.6	4.8	5.1	26	172	267	45	18	12
22	7.1	6.9	6.1	4.6	5.0	5.1	34	232	256	43	18	11
23	7.5	7.0	6.0	4.7	5.0	5.1	30	262	236	42	18	11
24	7.5	7.0	6.2	4.7	5.1	5.2	24	179	214	41	27	11
25	7.5	7.0	6.6	4.6	5.2	5.1	30	106	190	40	21	11
26	7.3	6.8	6.4	4.6	5.2	5.1	31	93	168	42	18	10
27	7.0	6.8	6.0	4.5	5.2	5.0	33	88	144	45	18	9.7
28	6.8	7.2	5.4	4.3	5.2	5.0	44	94	127	38	17	9.5
29	6.7	6.7	5.2	4.2	5.2	5.0	50	99	122	34	16	9.5
30	7.2	6.6	4.9	4.0	---	5.0	37	97	112	31	16	9.0
31	7.0	---	4.9	3.7	---	5.1	---	94	---	30	16	---
TOTAL	228.1	208.8	189.8	147.3	132.7	161.5	514.7	3094	7300	1791	668	421.7
MEAN	7.36	6.96	6.12	4.75	4.58	5.21	17.2	99.8	243	57.8	21.5	14.1
MAX	8.8	9.5	6.8	6.4	5.2	6.5	50	262	373	111	36	26
MIN	6.7	6.3	4.9	3.7	3.7	4.1	5.1	33	101	30	16	9.0
AC-FT	452	414	376	292	263	320	1020	6140	14480	3550	1320	836

CAL YR 1979 TOTAL 10756.9 MEAN 29.5 MAX 302 MIN 3.0 AC-FT 21340
WTR YR 1980 TOTAL 14857.6 MEAN 40.6 MAX 373 MIN 3.7 AC-FT 29470

10216200 GUNNISON RESERVOIR NEAR STERLING, UTAH

LOCATION.--Lat 39°12'23", long 111°42'37", in SE1/4NW1/4NE1/4 sec.32, T.18 S., R.2 E., Sanpete County, Hydrologic Unit 16030004, on right bank 250 ft (76 m) upstream from earthfill, rockfaced 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. Revised figures for contents and change in contents for the water year 1979, superseding those given in WRD 1979 are as follows: contents, Sept. 30, 4,650 acre-ft; change in contents, Aug. 31 to Sept. 30, -2,730 acre-ft; change in contents, water year 1979, +910 acre-ft.

GAGE.--Inclined staff gage. Datum of gage at top of dead storage is 5,366.2 ft (1,635.61 m) National Geodetic Vertical Datum of 1929 (levels by the U.S. Soil Conservation Service and U.S. Geological Survey).

REMARKS.--The reservoir is formed by earthfill, rockfaced 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 (801,000 m^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, 18,710 acre-ft (23.1 hm^3) Mar. 27, May 13, elevation, 5,390.0 ft (1,642.87 m); minimum contents observed, 4,610 acre-ft (5.68 hm^3) Oct. 1, 11.

Capacity table (elevation, in feet, and usable content, in acre-feet)
(Based on field survey by Soil Conservation Service in 1965)

5,375	3,960	5,385	12,720
5,380	7,750	5,390	18,710

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4610	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	12180	---	---	---	---	---	---	---
3	---	---	5470	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	7580	---	18070	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	7660
9	---	---	---	---	---	---	---	16200	---	---	---	7660
10	---	---	---	---	---	---	---	---	---	---	---	---
11	4610	---	---	---	---	---	---	---	---	---	12070	---
12	---	---	5930	---	---	---	---	---	---	17950	---	---
13	---	---	---	---	13170	---	---	18710	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	5040	---	---	---	---	---	---	---	---	11330	---
16	---	---	---	8850	---	---	---	---	---	---	---	---
17	---	---	---	---	---	16820	---	---	---	15720	---	---
18	---	---	---	---	---	---	---	---	15840	---	---	---
19	---	---	---	---	15600	---	---	---	---	---	---	---
20	---	---	---	10000	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	17690	---	18330	---	---	10300	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	9320	8940
26	---	---	---	11200	---	---	---	---	---	---	---	---
27	---	---	---	---	---	18710	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	a17050	---	---	---	---	14310	---	---
30	4680	a5400	---	---	---	---	a16730	---	a16900	---	---	a6060
31	a4700	---	a7140	a11910	---	a18480	---	a17500	---	a13840	a8870	---
(‡)	-200	+700	+1740	+4770	+5140	+1430	-1750	+770	-600	-3060	-4970	-2810

CAL YR 1979 . . . . . (‡) - 180
WTR YR 1980 . . . . . (‡) +1160

(‡) Change in contents, in acre-feet
(a) No gage-height reading, contents interpolated

10216210 SAN PITCH RIVER NEAR STERLING, UTAH

LOCATION.--Lat 39°12'20", long 111°42'37", in SE1/4NW1/4NE1/4 sec.32, T.18 S., R.2 E., Sanpete County, Hydrologic Unit 16030004, on right bank 100 ft (30 m) downstream from outlet gate of Gunnison Reservoir, 400 ft (122 m) upstream from diversion dam and head of Gunnison Canal, 1,000 ft (305 m) upstream from Six Mile Creek, 1.2 mi (1.9 km) northwest of Sterling, 5.7 mi (9.2 km) southwest of Manti, 6.8 mi (10.9 km) northeast of Gunnison, and 9.6 mi (15.4 km) upstream from mouth.

DRAINAGE AREA.--672 mi^2 (1,740 km^2).

PERIOD OF RECORD.--November 1964 to September 1980 (discontinued).

GAGE.--Water-stage recorder and artificial concrete control. Altitude of gage is 5,360 ft (1,634 m) from topographic map.

REMARKS.--Records fair. Flow regulated by Gunnison Reservoir, capacity 18,200 acre-ft (22.4 hm^3).

AVERAGE DISCHARGE.--16 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, 512 ft^3/s (14.5 m^3/s) Mar. 12, 1974; no flow at times most years when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 500 ft^3/s (14.16 m^3/s) June 12; minimum, no flow for extended periods.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	159	109	80	204	192	85	73
2	.00	.00	.00	.00	.00	168	92	80	195	196	85	71
3	.00	.00	.00	.00	.00	177	78	79	186	199	95	70
4	.00	.00	.00	.00	.00	186	64	79	177	202	97	69
5	.00	.00	.00	.00	.00	203	54	80	177	206	97	67
6	.00	.00	.00	.00	.00	212	45	79	200	210	100	12
7	.00	.00	.00	.00	.00	221	38	92	232	213	100	28
8	.00	.00	.00	.00	.00	212	31	125	275	218	100	.60
9	.00	.00	.00	.00	.00	203	26	183	310	220	98	.20
10	.00	.00	.00	.00	.00	194	24	232	270	231	95	.20
11	.00	.00	.00	.00	.00	186	21	277	425	264	88	.20
12	.00	.00	.00	.00	.00	177	35	321	500	276	82	.20
13	.00	.00	.00	.00	.00	168	79	365	420	256	73	.20
14	.00	.00	.00	.00	.00	159	18	365	340	237	71	.20
15	.00	.00	.00	.00	.00	150	12	356	275	200	71	.20
16	.00	.00	.00	.00	.00	141	34	354	230	178	71	.20
17	.00	.00	.00	.00	.00	132	43	356	190	157	70	.20
18	.00	.00	.00	.00	18	141	87	347	150	148	71	.20
19	.00	.00	.00	.00	44	159	100	347	153	139	73	.20
20	.00	.00	.00	.00	53	168	102	347	157	130	73	.25
21	.00	.00	.00	.00	62	186	105	336	160	122	74	.30
22	.00	.00	.00	.00	71	194	102	307	162	110	76	.36
23	.00	.00	.00	.00	88	212	90	265	167	102	76	.44
24	.00	.00	.00	.00	97	221	88	259	169	102	76	.54
25	.00	.00	.00	.00	106	238	90	248	172	102	76	.65
26	.00	.00	.00	.00	115	247	88	239	177	102	76	.76
27	.00	.00	.00	.00	124	265	82	230	179	104	74	.92
28	.00	.00	.00	.00	141	228	82	221	182	104	74	1.1
29	.00	.00	.00	.00	150	190	82	221	185	97	74	1.3
30	.00	.00	.00	.00	---	157	82	213	188	92	74	1.5
31	.00	---	.00	.00	---	132	---	204	---	93	73	---
TOTAL	.00	.00	.00	.00	1069.00	5786	1983	7289	6807	5202	2518	400.92
MEAN	.000	.000	.000	.000	36.9	187	66.1	235	227	168	81.2	13.4
MAX	.00	.00	.00	.00	150	265	109	365	500	276	100	73
MIN	.00	.00	.00	.00	.00	132	12	79	150	92	70	.20
AC-FT	.00	.00	.00	.00	2120	11480	3930	14460	13500	10320	4990	795

CAL YR 1979 TOTAL 12228.10 MEAN 33.5 MAX 150 MIN .00 AC-FT 24250
WTR YR 1980 TOTAL 31054.92 MEAN 84.8 MAX 500 MIN .00 AC-FT 61600

10216400 TWELVEMILE CREEK NEAR MAYFIELD, UTAH

LOCATION.--Lat 39°06'02", long 111°38'44", in SW1/4SW1/4NW1/4 sec.1, T.20 S., R.2 E., Sanpete County, Hydrologic Unit 16030004, on right bank 0.1 mi (0.2 km) east of Manti-LaSal Forest boundary, 0.5 mi (0.8 km) downstream from Clear Creek, and 3.5 mi (5.6 km) east of Mayfield.

DRAINAGE AREA.--59.4 mi^2 (155 km^2).

PERIOD OF RECORD.--October 1959 to September 1980 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,000 ft (1,829 m) from topographic map. After Nov. 5, 1975, at datum 1.0 ft (0.305 m) higher, at same site.

REMARKS.--Records poor. No diversion above station. Flow regulated by several small reservoirs at headwaters; combined capacity, about 930 acre-ft (1.15 hm^3).

AVERAGE DISCHARGE.--21 years, 30.9 ft^3/s (0.875 m^3/s), 22,390 acre-ft/yr (27.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,350 ft^3/s (38.2 m^3/s) Aug. 10, 1965, gage height, 4.05 ft (1.234 m); minimum 1.6 ft^3/s (0.045 m^3/s) Mar. 16, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 238 ft^3/s (6.74 m^3/s) June 15, base discharge, 250 ft^3/s (7.08 m^3/s); minimum observed, 4.2 ft^3/s (0.12 m^3/s) Dec. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	14	5.0	10	6.0	10	14	96	82	146	46	28
2	17	15	5.0	11	6.5	10	14	102	90	150	47	28
3	17	16	6.5	11	7.0	11	14	128	101	134	44	27
4	17	15	7.0	11	7.5	11	14	151	116	132	42	26
5	17	15	7.0	11	8.0	10	14	175	130	125	41	26
6	16	15	7.0	11	8.5	11	14	194	168	116	40	26
7	16	15	7.0	11	10	11	14	150	140	114	39	32
8	16	15	7.0	11	9.0	11	14	128	149	111	39	39
9	16	15	7.0	11	8.0	11	14	125	146	102	36	36
10	16	13	7.0	11	8.0	11	14	125	141	96	36	41
11	16	12	6.0	11	8.0	11	13	123	169	91	35	31
12	16	10	4.5	12	9.0	11	12	105	188	84	35	28
13	16	10	5.0	12	11	11	13	91	170	81	35	26
14	16	10	5.5	13	13	11	17	88	230	78	34	25
15	16	10	6.0	12	12	11	22	86	238	74	35	24
16	16	10	6.0	12	11	11	25	94	210	71	34	24
17	16	11	6.0	12	12	11	32	90	210	68	34	23
18	16	12	6.0	10	14	12	42	84	210	65	33	22
19	16	13	7.0	9.0	13	12	56	96	203	62	32	22
20	17	11	8.0	9.0	13	12	68	110	200	60	31	22
21	16	9.0	7.8	10	13	13	68	125	195	57	32	22
22	16	8.0	7.4	10	12	12	99	150	185	55	31	22
23	16	9.0	7.0	10	12	12	89	160	176	55	31	22
24	16	9.5	8.5	10	12	13	73	124	168	52	31	22
25	16	10	10	10	12	12	101	98	166	52	31	21
26	16	11	9.5	10	12	12	110	86	161	50	31	21
27	15	9.0	8.5	9.0	11	12	110	79	158	50	29	20
28	15	6.0	8.0	7.0	11	12	131	82	150	49	29	20
29	16	5.0	7.5	7.0	10	13	134	84	148	46	28	19
30	15	5.0	7.0	5.5	---	14	98	82	146	47	28	19
31	15	---	8.5	4.5	---	15	---	79	---	47	28	---
TOTAL	498	338.5	215.2	314.0	299.5	360	1453	3494	4944	2520	1077	764
MEAN	16.1	11.3	6.94	10.1	10.3	11.6	48.4	113	165	81.3	34.7	25.5
MAX	17	16	10	13	14	15	134	194	238	150	47	41
MIN	15	5.0	4.5	4.5	6.0	10	12	79	82	46	28	19
AC-FT	988	671	427	623	594	714	2880	6930	9810	5000	2140	1520

CAL YR 1979 TOTAL 13927.8 MEAN 38.2 MAX 252 MIN 4.5 AC-FT 27630
WTR YR 1980 TOTAL 16277.2 MEAN 44.5 MAX 238 MIN 4.5 AC-FT 32290

10217000 SEVIER RIVER BELOW SAN PITCH RIVER, NEAR GUNNISON, UTAH

LOCATION.--Lat 39°09'19", long 111°52'37", in NE1/4NE1/4SE1/4 sec.14, T.19 S., R.1 W., Sanpete County, Hydrologic Unit 16030003, on left bank 1,000 ft (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 except for period of no gage-height record May 15-29, which is fair. Flow regulated by reservoirs and many diversions for irrigation above station. Most of flow diverted above station during irrigation season.

AVERAGE DISCHARGE.--68 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, 2,620 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, 1,290 ft^3/s (36.5 m^3/s) during period of no gage-height record, 6.30 ft (1.920 m) from high-water mark; minimum, 35 ft^3/s (0.99 m^3/s) July 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138	197	238	245	429	1060	335	397	1020	456	169	82
2	138	210	236	248	440	936	366	383	1030	515	154	86
3	140	216	237	245	450	851	413	388	1050	477	150	79
4	141	206	238	238	458	784	468	440	1020	542	156	80
5	182	202	246	240	467	576	493	534	1000	542	153	81
6	166	202	275	248	473	534	582	652	980	470	121	91
7	141	195	288	246	437	647	666	799	970	410	103	107
8	114	199	276	253	421	807	677	738	980	339	109	214
9	112	199	276	254	434	938	648	726	1020	291	101	264
10	97	190	278	259	443	937	571	771	1100	238	82	347
11	100	184	277	260	449	890	447	861	1150	238	79	442
12	104	183	270	274	453	895	328	894	1170	214	76	426
13	103	183	257	340	456	886	308	1020	1160	197	72	388
14	103	182	245	386	470	852	285	1110	1160	195	74	449
15	100	190	247	403	496	840	254	1170	1200	180	76	475
16	100	190	245	400	527	841	237	1190	1230	162	79	366
17	109	183	244	405	534	782	234	1200	1240	166	79	183
18	133	210	245	407	555	672	231	1220	1240	166	78	141
19	138	218	246	396	638	629	240	1210	1220	150	78	155
20	150	218	248	388	660	609	278	1210	1190	138	76	257
21	178	218	251	397	828	620	385	1180	1160	129	75	333
22	189	223	264	401	1060	606	461	1130	1160	112	78	329
23	197	225	264	393	1170	603	448	1090	1150	106	75	283
24	202	241	260	389	1190	609	392	1060	1130	106	79	283
25	212	251	260	409	1180	578	334	1000	980	95	82	252
26	206	258	259	411	1180	495	363	1000	620	84	84	244
27	186	263	259	412	1160	510	374	1000	460	141	79	241
28	177	255	255	413	1120	514	345	1010	425	193	75	235
29	180	245	248	419	1110	476	341	1010	433	190	76	231
30	195	235	241	432	---	395	415	1020	448	154	79	236
31	200	---	236	424	---	337	---	1020	---	160	80	---
TOTAL	4631	6371	7909	10635	19688	21709	11919	28433	30096	7556	2927	7380
MEAN	149	212	255	343	679	700	397	917	1003	244	94.4	246
MAX	212	263	288	432	1190	1060	677	1220	1240	542	169	475
MIN	97	182	236	238	421	337	231	383	425	84	72	79
AC-FT	9190	12640	15690	21090	39050	43060	23640	56400	59700	14990	5810	14640

CAL YR 1979 TOTAL 97500 MEAN 267 MAX 1010 MIN 22 AC-FT 193400
WTR YR 1980 TOTAL 159254 MEAN 435 MAX 1240 MIN 72 AC-FT 315900

10218500 SEVIER BRIDGE RESERVOIR NEAR JUAB, UTAH

LOCATION.--Lat 39°22'20", long 112°01'57", in NW1/4NW1/4NW1/4 sec.1, T.17 S., R.2 W., Juab County, Hydrologic Unit 16030003, at Sevier Bridge Dam on Sevier River, 11.6 mi (18.7 km) southwest of Juab.

DRAINAGE AREA.--5,155 mi^2 (13,260 km^2).

PERIOD OF RECORD.--January 1914 to current year.

REVISED RECORDS.--WRD Utah-78: 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) National Geodetic Vertical Datum 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, 224,400 acre-ft (277 hm^3) June 19-25, gage height, 78.9 ft (24.049 m); minimum contents observed, 65,030 acre-ft (80.2 hm^3) Oct. 1, gage height, 51.2 ft (15.606 m).

Capacity table (elevation in feet and contents in acre-feet)
(Based on field survey by Soil Conservation Service in 1961)

49	58,880	62	100,600	72	161,300
52	67,330	65	114,900	75	186,500
55	76,340	68	132,600	78	215,100
58	85,880	70	146,200	80	236,145
60	92,770				

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65030	71170	82320	96960	118200	155100	193800	192000	218200	220300	177790	144800
2	65320	71470	82640	97370	118800	158200	194700	191100	219200	219200	171900	144100
3	65610	71770	82960	97780	119900	159800	194700	190200	219200	218200	176100	144100
4	65900	71770	84260	98190	120405	161330	195650	189300	220300	216100	170200	143400
5	66180	72380	84260	98600	121600	162100	195650	188400	220300	213100	172700	142000
6	66470	72680	84590	99420	122200	163700	---	188400	220300	213100	171900	140600
7	66470	72980	84910	99830	123400	164600	---	188400	220300	211100	171100	139200
8	66470	73580	85560	100200	123900	166200	---	189300	220300	209100	169390	137900
9	66760	73890	86220	100650	124500	167800	---	189300	220300	207100	167800	137900
10	66760	74200	86890	101100	125100	169390	---	189300	220300	205160	166200	138500
11	66470	74810	87220	101500	125700	171900	---	190200	221300	204200	164600	138500
12	66470	75120	87560	102400	126300	173600	---	192000	221300	203300	163700	138500
13	66180	75420	88230	102800	126900	174400	201400	192900	223400	202300	162900	139200
14	66180	75730	88560	103700	128200	176100	201400	194700	223400	200400	162100	139200
15	66180	76030	88560	104600	128800	176900	202300	195650	222300	199500	161330	139200
16	66180	76340	89230	105500	129400	177790	202300	199500	222300	198500	159800	139200
17	66180	76650	90290	106500	130700	180400	201400	201400	223400	195650	159000	140600
18	66470	76960	90650	107400	131900	181300	201400	203300	223400	193800	157500	141300
19	66470	77280	91000	108400	133200	183000	200400	200400	224400	192900	155900	142000
20	66470	77590	91710	108900	135200	183900	200400	208100	224400	192000	154400	142000
21	67050	78210	92060	109818	137200	184800	199500	210100	224400	190200	153600	142000
22	67630	78520	92420	110800	138500	185700	198500	212100	224400	189300	153600	142700
23	67920	78830	92770	111300	139900	186540	197600	214100	224400	187500	152900	142700
24	68210	79150	93150	112400	139900	187500	196600	216100	224400	186540	152100	142700
25	68510	79780	93530	112900	144100	188400	196600	217200	224400	185700	152100	143400
26	68800	80090	94280	113400	146230	189300	195650	218200	223400	185700	150700	143400
27	68800	80730	94660	114400	148400	190200	194700	218200	222300	184800	149200	143400
28	69100	81370	95040	115500	150700	191100	194700	219200	222300	183900	148400	144100
29	69390	81690	95420	116600	152900	192000	193800	219200	221300	182200	147000	144100
30	72980	82000	96170	117100	---	192900	192900	219200	220300	181300	139900	144100
31	70570	---	96550	117700	---	193800	---	218200	---	179500	144800	---
MAX	72980	82000	96550	117700	152900	193800	---	219200	224400	220300	177790	144800
MIN	65030	71170	82320	96960	118200	155100	---	188400	218200	179500	139900	137900
(†)	53.1	56.8	61.0	65.5	70.9	75.8	75.7	78.3	78.5	74.2	69.8	69.7
(‡)	+6110	+11430	+14550	+21150	+35200	+40900	-900	+25300	+2100	-40800	-34700	-700

CAL YR . . . . . +48350
WTR YR . . . . . +79640

(†) Gage height, in feet, at end of month
(‡) Change in contents in acre feet

10219000 SEVIER RIVER NEAR JUAB, UTAH

LOCATION.--Lat 39°22'29", long 112°02'20", in SE1/4SW1/4SE1/4 sec.35, T.16 S., R.2 W., Juab County, Hydrologic Unit 16030005, on right bank 0.5 mi (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.--69 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 discharge, 1,130 ft^3/s (32.0 m^3/s) June 24, gage height, 4.32 ft (1.317 m); minimum, 0.8 ft^3/s (0.023 m^3/s) Dec. 3-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	3.3	1.5	1.5	2.0	2.0	4.7	743	892	1100	665	410
2	2.0	3.3	1.5	1.5	2.0	2.0	4.7	691	711	1090	776	302
3	2.0	3.3	.80	1.5	2.0	2.0	4.7	651	570	964	858	234
4	2.0	2.6	.80	1.5	2.0	2.0	4.7	654	570	886	750	454
5	2.0	2.6	.80	1.5	2.6	2.0	4.7	706	570	881	658	658
6	2.0	2.0	1.1	1.5	2.6	3.3	4.0	680	570	881	654	658
7	29	2.0	1.1	1.5	2.6	2.6	4.0	537	572	1000	654	658
8	68	2.0	1.5	1.5	2.6	2.6	4.0	539	572	1060	651	407
9	67	2.0	1.5	2.6	2.6	2.6	4.0	540	571	1060	586	237
10	254	2.0	1.5	2.0	2.0	2.0	4.0	341	571	952	548	237
11	160	1.5	1.5	1.5	2.0	2.0	3.3	220	570	873	544	237
12	102	2.0	1.5	7.1	2.0	2.6	3.3	154	597	872	548	184
13	73	2.0	1.5	2.0	2.0	2.6	3.3	112	620	873	548	160
14	65	2.0	1.5	2.6	2.0	2.0	3.3	112	750	683	548	160
15	65	2.0	1.5	2.0	2.6	2.0	163	112	829	573	548	158
16	18	2.0	1.5	2.0	2.6	2.0	315	112	831	755	551	160
17	4.7	2.0	1.5	2.0	2.6	2.0	417	114	832	877	551	160
18	4.0	2.0	1.5	2.0	3.3	1.5	481	114	835	877	551	160
19	4.0	2.0	2.0	2.0	2.6	1.5	516	180	835	772	555	133
20	5.5	2.0	2.0	2.0	2.6	1.5	544	214	959	683	478	112
21	4.0	1.1	2.6	2.0	2.6	1.5	544	214	1090	683	407	112
22	3.3	1.1	2.0	2.0	2.6	2.6	597	541	1120	683	407	112
23	3.3	1.1	2.0	2.0	2.6	4.7	636	742	1120	551	410	112
24	3.3	1.1	2.0	2.0	2.0	4.7	636	745	1120	461	502	112
25	3.3	1.1	2.0	2.0	2.0	4.7	636	919	1120	461	555	112
26	3.3	1.5	2.0	2.0	2.0	4.7	691	1040	1120	461	555	112
27	3.3	1.5	2.0	2.0	2.0	4.7	735	1040	1120	461	555	109
28	3.3	1.5	2.0	2.6	2.0	4.7	735	1050	1110	572	555	109
29	3.3	1.5	2.0	2.0	2.0	4.7	739	1060	1110	672	555	109
30	3.3	1.5	2.0	2.0	---	4.7	739	1070	1110	672	474	112
31	3.3	---	2.0	2.0	---	4.7	---	970	---	669	410	---
TOTAL	967.7	57.6	50.70	64.4	67.1	89.2	9180.7	16917	24967	24058	17607	6990
MEAN	31.2	1.92	1.64	2.08	2.31	2.88	306	546	832	776	568	233
MAX	254	3.3	2.6	7.1	3.3	4.7	739	1070	1120	1100	858	658
MIN	1.5	1.1	.80	1.5	2.0	1.5	3.3	112	570	461	407	109
AC-FT	1920	114	101	128	133	177	18210	33550	49520	47720	34920	13860

CAL YR 1979 TOTAL 63593.20 MEAN 174 MAX 851 MIN .80 AC-FT 126100
WTR YR 1980 TOTAL 101016.40 MEAN 276 MAX 1120 MIN .80 AC-FT 200400

10219200 CHICKEN CREEK NEAR LEVAN, UTAH

LOCATION.--Lat 39°33'03", long 111°49'42", in NW1/4NE1/4SW1/4 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. Prior to Jan. 18, 1978 at site 250 ft (76 m) upstream at different datum.

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.

REMARKS.--Records fair except for winter period and period of no gage-height record, Dec. 3 to Feb. 24, which are poor. No diversion above station.

AVERAGE DISCHARGE.--18 years, 6.65 ft^3/s (0.188 m^3/s), 4,820 acre-ft/yr (5.94 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 268 ft^3/s (7.59 m^3/s) Aug. 1, 1968, gage height, 7.55 ft (2.301 m), from rating curve extended above 58 ft^3/s (1.64 m^3/s) on basis of logarithmic plotting; no flow Feb. 11, 14, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 15 ft^3/s (0.425 m^3/s), maximum discharge, 217 ft^3/s (6.15 m^3/s) May 6; minimum observed, 0.46 ft^3/s (0.013 m^3/s) Dec. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.5	1.3	1.6	1.8	4.8	5.5	73	35	14	7.7	4.6
2	2.3	2.6	1.2	1.7	1.9	4.8	5.3	62	33	13	7.3	4.2
3	2.3	2.5	1.2	1.7	2.1	4.5	5.3	65	33	12	7.1	3.7
4	2.3	2.4	1.2	1.8	2.1	4.5	5.4	76	37	12	7.0	3.5
5	2.3	2.4	1.2	1.9	2.1	4.2	5.9	79	37	11	7.1	3.6
6	2.3	2.5	1.1	2.0	2.2	4.5	6.7	108	30	11	6.9	3.6
7	2.3	2.6	1.1	2.1	2.2	4.4	7.3	125	27	11	6.6	4.4
8	2.3	2.6	1.0	2.0	2.1	4.5	7.1	112	25	11	6.3	5.9
9	2.3	2.5	.80	2.3	2.0	4.2	7.9	108	25	10	6.2	6.4
10	2.3	2.5	.70	2.4	2.0	4.2	9.4	99	24	10	5.9	6.4
11	2.3	2.5	.60	2.3	2.0	4.8	8.0	82	22	9.6	5.7	5.8
12	2.3	2.8	.46	2.5	2.0	4.7	7.8	95	20	9.5	5.6	5.9
13	2.3	2.9	.60	2.6	2.0	5.0	8.1	99	21	9.1	5.7	6.4
14	2.3	2.8	.70	3.5	2.2	5.6	10	91	21	9.0	5.8	5.5
15	2.3	2.3	.80	2.8	2.2	6.3	15	73	21	7.8	5.8	5.4
16	2.3	2.2	1.0	2.5	2.5	6.2	19	65	20	7.7	5.8	5.1
17	2.3	2.0	1.0	2.3	3.4	5.8	20	62	20	8.2	5.6	5.0
18	2.4	2.2	1.1	2.3	4.7	5.8	26	62	21	8.9	5.4	4.9
19	2.5	2.0	1.2	2.3	4.0	5.9	45	65	20	8.6	5.1	5.0
20	4.4	2.0	1.2	2.1	3.9	6.0	80	70	20	8.4	5.3	4.8
21	3.6	2.0	1.3	2.0	3.9	6.1	73	65	18	8.2	5.2	4.8
22	3.3	2.0	1.2	2.0	4.0	6.1	62	65	18	7.7	5.0	4.8
23	3.2	2.2	1.2	2.0	4.1	6.1	65	73	17	7.5	4.9	4.9
24	3.0	1.5	1.2	2.1	4.1	5.9	76	76	16	7.5	4.8	4.8
25	2.8	1.8	1.2	2.1	4.2	5.8	80	73	16	7.5	5.3	4.8
26	2.8	1.8	1.3	2.1	4.5	5.5	76	68	16	7.1	5.4	4.9
27	2.6	1.6	1.3	2.1	4.7	5.4	74	59	15	7.1	5.1	4.7
28	2.7	1.4	1.4	2.1	5.4	5.4	78	59	15	7.3	4.8	4.4
29	2.8	1.3	1.4	1.9	5.2	5.2	82	51	15	7.6	4.6	3.8
30	2.5	1.3	1.4	1.8	---	5.3	76	43	14	7.7	4.6	3.9
31	2.6	---	1.5	1.7	---	5.4	---	37	---	7.5	4.6	---
TOTAL	80.3	65.7	33.86	66.6	89.5	162.9	1046.7	2340	672	284.5	178.2	145.9
MEAN	2.59	2.19	1.09	2.15	3.09	5.25	34.9	75.5	22.4	9.18	5.75	4.86
MAX	4.4	2.9	1.5	3.5	5.4	6.3	82	125	37	14	7.7	6.4
MIN	2.3	1.3	.46	1.6	1.8	4.2	5.3	37	14	7.1	4.6	3.5
AC-FT	159	130	67	132	178	323	2080	4640	1330	564	353	289

CAL YR 1979 TOTAL 2261.86 MEAN 6.20 MAX 31 MIN .46 AC-FT 4490
WTR YR 1980 TOTAL 5166.16 MEAN 14.1 MAX 125 MIN .46 AC-FT 10250

10224000 SEVIER RIVER NEAR LYNNDYL, UTAH

LOCATION.--Lat 39°28'55", long 112°23'35", in SE1/4SW1/4SE1/4 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 2.8 mi (4.5 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 except for winter period, which are fair. 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.--43 years, 186 ft^3/s (5.268 m^3/s), 134,800 acre-ft/yr (166 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, 1,030 ft^3/s (29.2 m^3/s) May 27, gage height, 7.40 ft (2.256 m); minimum discharge, 2.4 ft^3/s (0.07 m^3/s) Jan. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	32	49	61	5.4	5.5	22	816	826	914	443	248
2	12	32	52	44	5.4	15	46	805	714	902	408	245
3	16	38	55	14	5.4	45	47	788	610	889	412	233
4	23	38	54	12	5.4	48	49	704	418	877	492	123
5	27	38	53	8.2	5.4	49	49	614	397	738	520	139
6	29	38	53	6.7	5.4	55	48	586	393	671	426	372
7	28	38	47	7.3	5.4	62	47	582	393	664	391	411
8	27	38	41	6.4	7.4	46	38	421	388	682	391	436
9	34	38	39	6.1	6.0	14	34	391	392	790	391	383
10	58	37	42	6.7	6.6	10	31	407	390	823	381	175
11	63	37	38	7.7	7.0	9.4	29	340	373	821	325	149
12	186	37	47	9.7	5.8	9.8	27	250	360	687	322	144
13	142	37	53	6.6	5.4	8.7	27	203	361	655	341	141
14	119	38	49	9.6	6.1	7.7	28	124	374	648	350	103
15	97	38	53	16	8.2	7.0	28	111	417	593	352	86
16	81	38	53	9.1	6.6	6.4	29	102	526	405	346	82
17	72	38	53	5.8	57	6.3	210	95	530	449	340	79
18	64	42	52	5.6	40	6.1	354	92	533	673	335	83
19	41	42	53	4.8	111	5.8	449	90	536	726	313	82
20	43	42	53	4.9	69	5.7	474	92	539	715	308	80
21	56	40	51	4.7	20	6.6	524	150	561	577	293	66
22	59	42	46	5.4	13	6.5	533	128	704	568	209	56
23	49	37	42	5.2	10	5.8	568	222	830	561	205	54
24	44	42	42	5.4	8.2	6.2	658	495	864	521	210	47
25	42	49	47	4.8	7.2	6.1	668	563	863	391	234	43
26	41	42	41	4.5	6.6	5.5	673	835	875	366	329	45
27	39	43	40	4.6	6.2	5.4	690	992	877	355	337	45
28	37	44	49	4.5	6.2	5.3	776	822	884	340	320	40
29	37	43	60	6.0	5.7	5.1	807	831	895	350	322	41
30	36	47	63	6.0	---	5.2	824	830	910	456	327	44
31	37	---	62	6.0	---	5.6	---	857	---	458	313	---
TOTAL	1651	1185	1532	309.3	457.0	485.7	8787	14338	17733	19265	10686	4275
MEAN	53.3	39.5	49.4	9.98	15.8	15.7	293	463	591	621	345	143
MAX	186	49	63	61	111	62	824	992	910	914	520	436
MIN	12	32	38	4.5	5.4	5.1	22	90	360	340	205	40
AC-FT	3270	2350	3040	613	906	963	17430	28440	35170	38210	21200	8480

CAL YR 1979 TOTAL 59369.0 MEAN 163 MAX 787 MIN 10 AC-FT 117800
WTR YR 1980 TOTAL 80704.0 MEAN 221 MAX 992 MIN 4.5 AC-FT 160100

10224000 SEVIER RIVER NEAR LYNNDYL, UT
(National stream-quality accounting network station)

LOCATION.--Lat 39°30'00", long 112°24'00", in SE1/4 sec.23, T.15 S., R.5 W., Millard County, Hydrologic Unit 16030005, at bridge on county road, 1.5 mi (2.4 km) upstream from gaging station, and about 2 mi (3 km) south of Lynndyl.

PERIOD OF RECORD.--March 1951 to current year.
SPECIFIC CONDUCTANCE: March 1951 to current year, once-daily.
WATER TEMPERATURES: March 1951 to current year, 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. Specific conductance values determined from observer's samples collected 1.5 mi (2.4 km) upstream from gaging station and may not reflect actual conditions.

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, 29.0°C July 21-23, 1956, Aug. 9, 10, 1963, Aug. 1, 1969; minimum, 0.0°C on many days during winter period of most years.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 6,430 micromhos Mar. 31; minimum daily, 395 micromhos Feb. 17.
WATER TEMPERATURES: Maximum, 25.0°C July 27; minimum, 0.0°C Dec. 30.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (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											
31...	1420	36	1740	8.7	6.4	7.5	1.2	9.8	.68	--	--
DEC											
04...	1430	52	1610	8.3	10.1	.5	4.6	11.7	1.0	--	--
JAN											
04...	1115	8.2	2750	8.0	2.9	.5	2.0	9.6	1.5	12	40
FEB											
15...	1000	10	5220	8.4	6.5	3.5	5.9	10.2	--	54	4800
MAR											
06...	1200	56	1860	8.5	11.3	2.5	22	4.9	.94	32	380
APR											
02...	1000	48	1920	8.2	2.5	4.0	110	9.4	1.0	110	--
MAY											
14...	1100	115	1930	8.2	13.8	13.5	55	8.2	1.2	--	--
JUN											
12...	1000	352	1690	8.3	23.0	16.5	48	7.6	1.1	300	120
JUL											
09...	1230	774	1590	8.2	30.5	19.0	50	7.2	1.5	520	--
AUG											
06...	1000	384	1530	8.2	--	9.5	--	7.5	--	94	150
SEP											
04...	1140	112	1740	8.3	22.0	17.0	39	7.5	1.1	260	390

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
OCT											
31...	500	270	69	79	200	71	3.9	210	6.4	--	--
DEC											
04...	490	220	79	71	180	66	3.5	190	5.2	--	--
JAN											
04...	730	450	110	110	370	74	6.0	380	7.4	--	--
FEB											
15...	1300	920	150	220	820	58	10	830	11	440	11
MAR											
06...	540	250	82	81	200	44	3.8	210	7.1	360	0
APR											
02...	--	--	--	--	--	--	--	--	--	340	0
MAY											
14...	510	230	78	76	260	52	5.0	--	7.6	340	0
JUN											
12...	430	150	68	64	210	51	4.4	--	6.5	340	0
JUL											
09...	390	120	64	57	190	51	4.2	--	7.5	--	--
AUG											
06...	380	140	58	56	180	51	4.0	--	6.3	330	0
SEP											
04...	420	130	62	64	200	50	4.3	--	8.5	350	0

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	ALKALINITY (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										
31...	230	--	310	300	.3	11	1110	1110	1.51	108
DEC										
04...	270	--	230	260	.3	16	1040	1010	1.41	146
JAN										
04...	280	--	500	500	.3	21	1810	1790	2.46	40.0
FEB										
15...	379	2.9	1000	1100	.5	22	--	3550	4.83	96.8
MAR										
06...	295	1.8	290	310	.2	13	1200	1160	1.63	183
APR										
02...	279	3.4	320	360	.2	13	1250	839	1.70	162
MAY										
14...	279	3.4	330	330	.4	19	1290	1270	1.75	401
JUN										
12...	279	2.7	240	250	.2	18	1050	1030	1.43	998
JUL										
09...	270	--	210	210	.5	15	981	917	1.33	2050
AUG										
06...	240	3.3	210	220	.4	13	920	889	1.25	954
SEP										
04...	287	2.8	270	310	.4	12	1040	1100	1.41	314

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA 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)
OCT								
31...	.10	.14	.000	.000	.00	.00	.71	.54
DEC								
04...	.62	.49	.020	.050	.02	.06	.45	.46
JAN								
04...	.76	.74	.120	.000	.15	.00	.59	.73
FEB								
15...	.94	--	.100	--	.12	--	.79	--
MAR								
06...	.35	.34	.100	.060	.12	.08	1.1	.54
APR								
02...	.30	.31	.060	--	.07	--	.83	--
MAY								
14...	.52	.55	.040	.040	.05	.05	.70	.65
JUN								
12...	.41	.41	.010	.000	.01	.00	.91	.73
JUL								
09...	.21	.21	.040	.010	.05	.01	2.2	1.3
AUG								
06...	.16	--	.010	--	--	--	1.1	1.0
SEP								
04...	4.9	.13	.150	.130	.18	.17	1.2	.87

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)
OCT								
31...	.71	.17	.54	.81	3.6	.010	.03	.010
DEC								
04...	.47	.00	.51	1.1	4.8	.510	1.6	.810
JAN								
04...	.71	.00	.73	1.5	6.5	.030	.09	.000
FEB								
15...	.89	--	--	1.8	8.1	.030	.09	--
MAR								
06...	1.2	.60	.60	1.6	6.9	.400	1.2	.000
APR								
02...	.89	.19	.70	1.2	5.3	.180	.55	.040
MAY								
14...	.74	.05	.69	1.3	5.6	.130	.40	.040
JUN								
12...	.92	.19	.73	1.3	5.9	.110	.34	.010
JUL								
09...	2.2	.90	1.3	2.4	11	.180	.55	.050
AUG								
06...	1.1	1.0	1.0	1.3	5.6	.090	--	.030
SEP								
04...	1.3	.30	1.0	6.2	27	.080	.25	.010

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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											
31...	1420	6	0	6	200	100	80	0	0	<1	0
FEB											
15...	1000	8	0	8	300	100	200	1	1	0	0
MAY											
14...	1100	7	0	7	100	0	100	0	0	0	0

DATE	CHRO-MIUM, SUS-PENDED RECOV. (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										
31...	0	0	0	<3	0	0	0	80	70	<10
FEB										
15...	0	2	2	0	4	3	1	210	190	20
MAY										
14...	0	1	0	1	7	0	8	1700	1700	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)
OCT										
31...	4	4	0	40	40	5	.0	.0	.1	0
FEB										
15...	3	3	0	110	0	110	.0	.0	.6	1
MAY										
14...	6	5	1	70	50	20	.9	.9	.0	7

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)	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										
31...	0	0	1	1	0	0	0	30	30	<3
FEB										
15...	1	0	2	1	1	0	0	30	10	20
MAY										
14...	4	3	1	0	1	0	0	20	0	30

DATE	TIME	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)
OCT		
31...	1420	0
DEC		
04...	1430	0
FEB		
15...	1000	0
MAR		
06...	1200	0
MAY		
14...	1100	0
JUN		
12...	1000	0
SEP		
04...	1140	0

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)
OCT				
31...	1420	--	14	.1
DEC				
04...	1430	3.6	--	--
JAN				
04...	1115	2.0	--	--
FEB				
15...	1000	--	6.8	.4
MAR				
06...	1200	5.0	--	--
APR				
02...	1000	12	--	--
MAY				
14...	1100	--	5.3	.6
JUN				
12...	1000	9.4	--	--
JUL				
09...	1230	11	--	--
AUG				
06...	1000	--	4.8	.3
SEP				
04...	1140	11	--	--

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)
OCT											
01...	1215	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)
OCT										
01...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	MAR 6,80	MAY 14,80	JUN 12,80	JUL 9,80	AUG 6,80	SEP 4,80
TIME	1255	1230	1000	1130	1040	1140
TOTAL CELLS/ML	1500	180	2300	1600	990	950
DIVERSITY: DIVISION	0.6	1.3	1.4	1.3	1.2	1.5
.CLASS	0.6	1.3	1.4	1.3	1.2	1.5
..ORDER	0.6	1.6	2.0	2.3	1.9	1.6
...FAMILY	2.6	2.7	3.4	2.5	2.9	2.6
....GENUS	2.9	2.9	3.6	2.5	3.0	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												
...CHARACIACEAE												
....SCHROEDERIA	--	-	39#	21	14	1	39	2	13	1	360#	38
...OOCYSTACEAE												
....ANKISTRODESMUS	--	-	--	-	41	2	13	1	--	-	--	-
....OOCYSTIS	--	-	--	-	190	8	260#	16	280#	29	180#	19
...SCENEDESMACEAE												
....SCENEDESMUS	--	-	26	14	--	-	--	-	52	5	26	3
..TETRASPORALES												
...PALMELLACEAE												
....SPHAEROCYSTIS	--	-	--	-	220	10	620#	38	100	10	--	-
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	--	-	--	-	14	1	26	2	--	-	13	1

See footnotes at end of table.
ND Material specifically analyzed for but not detected.

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	MAR 6,80		MAY 14,80		JUN 12,80		JUL 9,80		AUG 6,80		SEP 4,80	
TIME	1255		1230		1000		1130		1040		1140	
TOTAL CELLS/ML	1500		180		2300		1600		990		950	
DIVERSITY: DIVISION	0.6		1.3		1.4		1.3		1.2		1.5	
.CLASS	0.6		1.3		1.4		1.3		1.2		1.5	
..ORDER	0.6		1.6		2.0		2.3		1.9		1.6	
...FAMILY	2.6		2.7		3.4		2.5		2.9		2.6	
....GENUS	2.9		2.9		3.6		2.5		3.0		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
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	--	-	13	7	190	8	13	1	52	5	13	1
....MELOSIRA	--	-	--	-	--	-	--	-	26	3	--	-
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	--	-	--	-	120	5	--	-	26	3	--	-
....COCCONEIS	--	-	--	-	--	-	--	-	13	1	--	-
...CYMBELLACEAE												
....AMPHORA	--	-	--	-	55	2	--	-	--	-	--	-
....CYMBELLA	330#	22	--	-	190	8	13	1	--	-	--	-
....EPITHEMIA	--	-	--	-	14	1	--	-	--	-	--	-
...DIATOMACEAE												
....DIATOMA	55	4	--	-	27	1	--	-	--	-	--	-
...FRAGILARIACEAE												
....FRAGILARIA	--	-	26	14	55	2	--	-	210#	21	120	12
....SYNEDRA	14	1	--	-	14	1	13	1	--	-	--	-
...GOMPHONEMATACEAE												
....GOMPHONEMA	41	3	--	-	82	4	--	-	--	-	--	-
...NAVICULACEAE												
....CALONEIS	14	1	--	-	--	-	--	-	--	-	--	-
....DIPLONEIS	14	1	--	-	--	-	--	-	--	-	--	-
....ENTOMONEIS	55	4	13	7	--	-	--	-	--	-	--	-
....NAVICULA	210	14	26	14	180	8	26	2	64	6	100	11
...NITZSCHIACEAE												
....HANTZSCHIA	27	2	--	-	--	-	--	-	--	-	--	-
....NITZSCHIA	230#	15	26	14	330	14	64	4	120	12	13	1
...SURIRELLACEAE												
....CYMATOPLEURA	--	-	--	-	14	1	--	-	--	-	--	-
....SURIRELLA	290#	19	--	-	55	2	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)												
.CRYPTOPHYCEAE												
..CRYPTOMONADALES												
...CRYPTOMONADACEAE												
....CRYPTOMONAS	--	-	--	-	--	-	--	-	--	-	13	1
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....ANACYSTIS	--	-	--	-	--	-	310#	19	39	4	100	11
..HORMOGONALES												
...OSCILLATORIACEAE												
....LYNGBYA	--	-	--	-	--	-	240	15	--	-	--	-
....OSCILLATORIA	250#	16	--	-	480#	21	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....TRACHELOMONAS	--	-	--	-	14	1	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)												
.DINOPHYCEAE												
..PERIDINIALES												
...GLENODINIACEAE												
....GLENODINIUM	--	-	13	7	--	-	--	-	--	-	13	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2600	---	1830	1550	4020	6230	1850	1600	1670	1600	1470	1520
2	2610	---	1680	1710	4420	3340	2250	1620	1580	1520	1470	1480
3	2190	---	1560	2870	4100	1940	1840	1630	1690	1500	1480	1560
4	1680	---	1520	3870	3970	1830	1790	1630	1720	1600	1470	1730
5	1630	---	1510	4510	4030	1910	1870	1660	1700	1510	1480	1510
6	1650	1620	1520	4830	3890	1480	1830	1620	1620	1500	1480	1460
7	1640	1650	1420	4920	---	1420	1810	1620	1590	1470	1440	1450
8	1630	1650	1550	5070	3850	2480	2100	1680	1590	1480	1470	1480
9	1450	1900	---	5240	3960	1920	2160	---	1580	1480	1470	1530
10	1190	1590	1540	5300	4170	2220	2150	1680	---	1570	1460	1680
11	1510	1570	1460	5650	4180	2590	2130	1690	1660	1480	1450	1660
12	1550	1640	1530	5210	4180	2180	2210	1690	1580	1550	1430	1730
13	1740	1570	1730	5140	4120	---	---	1880	1580	1500	1470	1730
14	1670	1570	1730	4710	3790	4880	2200	1930	1640	1510	1490	1910
15	1730	1550	---	2400	3460	5300	2090	---	1590	1500	1470	1940
16	1690	1600	1730	2700	---	5650	2100	---	1540	1480	1450	1900
17	1960	1670	1700	3740	395	5800	1740	2060	1560	1520	1470	1880
18	---	---	1670	4690	---	5860	1730	1940	1550	1520	1500	1840
19	1650	1480	1610	5360	445	6030	1730	1990	1550	1510	1470	1840
20	---	1530	1450	5660	1290	6210	1730	2020	---	1460	1480	1850
21	1640	1540	1440	5750	1700	3490	1740	1720	1580	1420	1530	2070
22	1550	1700	1470	5930	2600	6200	1720	1800	1560	1430	1550	2140
23	1500	1690	1520	---	2120	6160	1710	1710	1560	1540	1480	2160
24	1620	1580	1370	6010	2310	3410	1710	1700	1540	---	1520	2370
25	1700	1600	1540	---	5310	---	1680	---	1610	1480	1470	2380
26	1830	1550	1660	6090	2590	6200	1710	1680	1620	1500	1420	2250
27	1860	1650	1680	6210	5870	6100	1700	1690	1510	1520	1490	2230
28	1880	1570	1640	---	5820	6220	1710	1660	1510	1520	1480	2480
29	1790	1950	1670	---	6020	6330	1710	1670	1520	1500	1480	2300
30	1820	1670	1530	---	---	6340	---	1650	1570	1440	1500	2300
31	1700	---	1700	---	---	6430	---	1620	---	1490	1530	---
MEAN	1750	---	1580	4600	3560	4350	1880	1730	1590	1500	1480	1880

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0	---	.5	5.0	3.0	9.0	10.0	14.0	16.0	20.0	24.0	20.0
2	21.0	---	.5	1.0	4.0	9.0	7.0	14.0	16.0	21.0	24.0	21.0
3	20.0	---	1.0	3.0	4.5	7.0	8.0	16.0	16.0	22.0	24.0	22.0
4	16.0	---	1.0	3.0	6.0	8.5	9.0	16.0	17.0	22.0	23.0	23.0
5	18.0	---	2.0	4.0	6.0	7.5	10.0	14.0	18.5	21.0	22.0	22.0
6	17.0	9.0	2.0	4.0	6.5	7.0	13.0	15.0	18.0	20.0	23.0	20.0
7	18.0	9.0	3.0	2.0	---	8.0	13.0	16.0	18.5	20.0	23.0	19.0
8	18.0	9.0	3.0	4.0	7.0	10.0	15.0	16.0	19.0	20.0	24.0	19.0
9	18.0	7.0	---	3.5	7.0	10.0	14.0	---	20.0	22.0	23.0	19.0
10	16.0	7.0	2.0	2.0	7.0	10.5	16.0	14.0	---	22.0	23.0	19.0
11	16.0	6.0	.5	.0	7.0	10.0	12.0	12.0	20.0	22.0	23.0	20.0
12	16.0	5.0	.5	3.0	7.0	10.0	15.0	13.0	19.5	22.0	23.0	22.0
13	16.0	4.0	1.5	5.0	7.0	---	---	17.0	18.0	20.0	23.0	20.0
14	16.0	4.0	1.5	3.0	7.0	12.0	17.0	13.5	18.0	22.0	22.0	20.0
15	15.0	5.0	---	7.0	8.0	9.0	15.0	---	19.0	22.5	21.0	18.0
16	15.0	5.5	1.0	7.0	---	10.0	17.0	---	20.0	23.0	22.0	21.0
17	15.0	5.0	1.0	8.0	7.0	8.0	14.0	16.5	19.0	23.0	22.0	21.0
18	---	---	1.0	6.0	---	12.0	14.0	18.0	19.0	22.0	21.0	18.0
19	13.0	3.0	1.5	4.0	7.0	12.0	14.0	18.0	19.0	23.0	19.0	19.0
20	---	1.0	1.0	3.0	7.0	12.0	14.0	16.0	---	23.0	20.0	19.0
21	9.0	2.0	1.5	4.0	7.0	7.0	13.0	22.0	19.0	23.0	21.0	17.0
22	10.0	1.0	2.0	4.0	8.0	10.0	12.0	20.0	19.0	23.5	22.0	17.0
23	11.0	2.0	3.0	---	9.0	10.0	12.0	14.0	19.0	24.0	21.0	18.0
24	13.0	5.0	.5	3.0	10.0	7.0	13.0	14.0	19.5	---	22.0	18.0
25	12.0	2.0	3.0	---	10.0	---	14.0	---	20.0	24.0	22.0	19.0
26	13.0	5.0	.5	4.0	10.0	7.0	14.0	14.0	20.0	24.0	21.0	17.0
27	13.0	5.0	.5	3.0	10.0	7.0	14.0	14.5	20.0	25.0	20.0	18.0
28	12.5	5.0	.5	---	10.0	7.0	14.0	16.0	21.0	24.0	20.0	20.0
29	7.0	5.0	.5	---	10.0	7.0	12.0	16.5	22.0	23.0	19.0	20.0
30	8.0	5.0	.0	---	---	6.0	---	17.5	21.0	24.0	20.0	20.0
31	5.0	---	.5	---	---	8.0	---	16.5	---	23.5	19.0	---
MEAN	14.5	---	1.5	4.0	7.5	9.0	13.0	15.5	19.0	22.5	22.0	19.5

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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						
31...	1420	36	7.5	72	56	7.0
DEC						
04...	1430	52	.5	14	70	2.0
JAN						
04...	1115	8.2	.5	40	88	.88
FEB						
15...	1000	10	3.5	56	95	1.5
MAR						
06...	1200	56	2.5	398	99	61
APR						
02...	1000	48	4.0	175	99	23
MAY						
14...	1100	115	13.5	152	61	47
JUN						
12...	1000	352	16.5	306	91	291
JUL						
09...	1230	774	19.0	403	64	842
AUG						
06...	1000	384	9.5	570	45	591
SEP						
04...	1140	112	17.0	197	91	60

10224100 OAK CREEK ABOVE LITTLE CREEK, NEAR OAK CITY, UTAH

LOCATION.--Lat 39°21'23", long 112°13'55", in NE1/4NE1/4NW1/4 sec.7, T.17 S., R.3 W., Millard County, Hydrologic Unit 16030005, Fish Lake National Forest, on right bank 0.3 mi (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 poor prior to May 7, fair thereafter. No regulation or diversion above station.

AVERAGE DISCHARGE.--16 years, 2.86 ft^3/s (0.081 m^3/s), 2,070 acre-ft/yr (2.55 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 daily discharge, 54 ft^3/s (1.529 m^3/s) May 14, base discharge 10 ft^3/s (0.28 m^3/s); minimum daily discharge, 0.30 ft^3/s (0.008 m^3/s) Nov. 20-30, Jan 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.37	.55	.33	.54	.35	4.2	4.2	30	16	3.8	1.4	.96
2	.37	.54	.38	.50	.45	4.3	4.2	30	16	3.6	1.4	.90
3	.41	.56	.45	.50	.60	4.3	4.2	32	16	3.5	1.3	.84
4	.41	.56	.52	.54	.70	4.3	4.2	34	17	3.5	1.2	.90
5	.41	.55	.60	.58	1.0	4.3	4.2	34	17	3.3	1.2	.90
6	.41	.55	.52	.52	.80	4.3	4.2	36	17	3.0	1.2	.96
7	.41	.56	.50	.54	1.0	4.3	4.2	38	16	2.9	1.2	1.2
8	.41	.56	.50	.60	.90	4.3	4.8	40	15	3.0	1.2	1.2
9	.41	.56	.50	.56	.95	4.3	5.5	46	14	3.0	1.1	1.3
10	.41	.55	.50	.50	1.0	4.1	6.4	40	14	3.0	1.1	1.0
11	.41	.55	.40	.45	1.0	4.2	7.4	40	14	2.9	1.0	1.0
12	.41	.57	.35	.52	1.2	4.3	8.4	40	13	2.6	1.0	.96
13	.41	.55	.37	.64	1.2	4.3	9.4	40	12	2.4	1.0	1.0
14	.41	.56	.40	.74	1.8	4.3	11	54	11	2.3	1.1	1.0
15	.41	.56	.40	.60	2.3	4.4	13	44	10	2.3	1.0	1.0
16	.41	.56	.40	.54	2.4	4.4	16	45	9.0	2.2	1.0	1.0
17	.41	.58	.42	.60	2.5	4.3	18	40	8.1	2.2	1.0	.96
18	.41	.62	.46	.70	3.5	4.4	21	36	7.5	2.1	.96	1.0
19	.37	.58	.50	.82	4.9	4.3	25	32	6.8	1.9	1.0	1.0
20	.61	.52	.54	.75	4.6	4.5	30	31	6.4	1.9	1.0	.96
21	.50	.46	.49	.60	4.6	4.5	35	33	5.9	1.9	1.0	.96
22	.46	.42	.44	.50	4.4	4.2	32	35	5.5	1.7	1.0	.90
23	.46	.44	.41	.50	4.4	4.2	34	39	5.5	1.7	1.0	.96
24	.46	.47	.47	.50	4.4	4.2	29	33	5.1	1.6	1.0	.96
25	.46	.48	.50	.50	4.2	4.2	29	28	4.8	1.6	1.1	.90
26	.46	.40	.48	.50	4.2	4.2	29	23	4.4	1.6	1.0	.90
27	.46	.32	.45	.56	4.2	4.0	29	19	4.1	1.6	.96	.90
28	.47	.30	.41	.70	4.2	4.0	31	17	4.0	1.6	.90	.90
29	.56	.30	.39	.50	4.2	4.0	31	16	3.8	1.5	.90	.90
30	.56	.30	.42	.40	---	4.2	31	16	3.8	1.5	.90	.90
31	.56	---	.49	.30	---	4.2	---	16	---	1.4	.96	---
TOTAL	13.69	15.08	13.99	17.30	71.95	132.0	515.3	1037	302.7	73.1	33.08	29.22
MEAN	.44	.50	.45	.56	2.48	4.26	17.2	33.5	10.1	2.36	1.07	.97
MAX	.61	.62	.60	.82	4.9	4.5	35	54	17	3.8	1.4	1.3
MIN	.37	.30	.33	.30	.35	4.0	4.2	16	3.8	1.4	.90	.84
AC-FT	27	30	28	34	143	262	1020	2060	600	145	66	58

CAL YR 1979 TOTAL 1204.83 MEAN 3.30 MAX 25 MIN .30 AC-FT 2390
WTR YR 1980 TOTAL 2254.41 MEAN 6.16 MAX 54 MIN .30 AC-FT 4470

10224300 OAK CREEK BELOW BIG SPRING, NEAR OAK CITY, UTAH

LOCATION.--Lat 39°21'11", long 112°17'07", in NE1/4NE1/4SW1/4, sec.10, T.17 S., R.4 W., Millard County, Hydrologic Unit 16030005, on right bank 0.5 mi (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 good.

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 discharge, 2.3 ft^3/s (0.065 m^3/s) several days in Oct., Nov., Dec. 1979.

EXTREMES FOR CURRENT YEAR.--Peak above base of 20 ft^3/s (0.566 m^3/s), and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage Height (ft)	Gage Height (m)
Feb. 18	2100	21	0.595	0.95	0.290
May 14	2200	*101	2.86	1.43	.436

Minimum discharge, 2.3 ft^3/s (0.065 m^3/s) several days in Oct., Nov., and Dec.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.7	2.3	2.5	4.1	14	15	59	36	24	11	7.2
2	2.3	2.3	2.3	2.5	4.1	14	16	59	35	24	11	7.2
3	2.3	2.3	2.3	2.5	4.1	14	16	62	35	22	11	6.8
4	2.3	2.3	2.3	2.5	4.1	14	16	64	35	21	11	6.4
5	2.5	2.3	2.5	2.5	4.1	14	16	64	35	21	11	6.4
6	2.5	2.3	2.5	2.5	4.4	14	16	70	35	20	11	6.4
7	2.7	2.5	2.5	2.5	4.4	14	17	76	34	20	10	6.4
8	2.7	2.5	2.5	2.5	4.4	14	17	81	32	20	9.9	6.4
9	2.7	2.5	2.5	2.5	4.4	14	18	85	31	20	9.9	6.4
10	2.7	2.5	2.5	2.5	4.4	14	20	83	30	19	9.5	6.8
11	2.7	2.5	2.5	2.5	4.4	14	22	79	29	19	9.0	6.4
12	2.7	2.5	2.3	2.7	4.4	14	23	79	28	18	9.0	6.4
13	2.7	2.5	2.3	3.0	4.4	16	25	79	26	18	8.6	6.8
14	2.7	2.5	2.3	3.8	4.7	16	27	87	25	18	9.0	6.8
15	2.7	2.5	2.3	3.5	5.7	17	30	64	29	17	9.5	6.4
16	2.7	2.5	2.3	3.5	5.7	17	32	65	28	17	9.0	6.4
17	2.5	2.5	2.3	3.5	6.1	16	39	66	28	17	9.0	6.4
18	2.5	2.7	2.3	3.8	11	17	43	56	28	15	9.0	6.4
19	2.7	2.5	2.3	3.8	17	16	48	57	28	15	8.6	6.4
20	3.2	2.5	2.3	4.1	16	16	60	56	28	15	8.6	6.4
21	2.5	2.3	2.5	3.8	16	17	73	56	28	15	8.1	6.4
22	2.5	2.3	2.7	3.8	15	16	66	56	27	15	8.1	6.1
23	2.5	2.3	2.5	3.8	15	16	71	59	27	14	8.1	6.1
24	2.5	2.3	2.5	3.8	14	16	57	56	26	13	8.1	6.1
25	2.7	2.5	2.5	3.8	14	15	56	52	26	13	8.1	5.7
26	2.7	2.5	2.5	4.1	13	15	57	50	25	12	8.1	5.7
27	2.7	2.3	2.5	4.1	13	15	57	45	25	12	7.7	5.7
28	3.0	2.3	2.5	4.1	14	14	58	42	25	12	7.7	5.7
29	3.0	2.3	2.5	4.4	14	14	62	38	25	12	7.2	5.7
30	3.0	2.3	2.5	4.1	---	15	62	37	24	12	7.2	5.7
31	3.0	---	2.5	4.1	---	14	---	37	---	12	7.2	---
TOTAL	82.2	72.8	75.1	103.1	249.9	466	1135	1919	873	522	280.2	190.1
MEAN	2.65	2.43	2.42	3.33	8.62	15.0	37.8	61.9	29.1	16.8	9.04	6.34
MAX	3.2	2.7	2.7	4.4	17	17	73	87	36	24	11	7.2
MIN	2.3	2.3	2.3	2.5	4.1	14	15	37	24	12	7.2	5.7
AC-FT	163	144	149	204	496	924	2250	3810	1730	1040	556	377

WTR YR 1980 TOTAL 5968.4 MEAN 16.3 MAX 87 MIN 2.3 AC-FT 11840

10234500 BEAVER RIVER NEAR BEAVER, UTAH

LOCATION.--Lat 38°16'49", long 112°34'01", in SE1/4SE1/4 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.

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.--66 years, 51.1 ft^3/s (1.45 m^3/s), 37,020 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)
May 4	0900	166	4.70	2.34	0.713
May 29	2000	*687	19.5	3.63	1.110

Minimum discharge, 5.1 ft^3/s (0.144 m^3/s) Feb. 5.

REVISIONS.--Revised daily discharge and peak discharges, in cubic feet per second, for the period May 4 to June 26, 1979, are given below. These figures supersede those published in WDR Utah for 1979.

May 4	152	May 18	431	June 1	472	June 14	427
5	124	19	397	2	454	15	410
6	78	20	372	3	458	16	355
7	55	21	400	4	449	17	331
8	45	22	450	5	454	18	297
9	45	23	380	6	495	19	278
10	67	24	316	7	504	20	257
11	121	25	335	8	431	21	243
12	163	26	397	9	384	22	233
13	210	27	454	10	376	23	223
14	268	28	481	11	372	24	206
15	301	29	572	12	388	25	194
16	339	30	490	13	405	26	184
17	359	31	476				

MONTH	TOTAL	MEAN	MAX	MIN	ACRE-FT
MAY	8634	279	572	45	17130
JUNE	9874	329	504	133	19590
WTR YR 1979	27183	74.5	572	15	53920

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)
May 23	0745	440	12.5	3.16	0.963
June 11	1915	748	21.2	3.81	1.161
June 30	2315	*841	23.8	4.03	1.228

NOTE: Daily discharge tables on next page.

10234500 BEAVER RIVER NEAR BEAVER, UT--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	19	17	19	17	18	25	160	250	449	104	53
2	20	19	16	18	17	17	25	190	268	339	96	53
3	22	21	16	18	17	17	22	210	331	304	98	53
4	21	21	16	18	18	16	22	225	392	264	73	55
5	20	20	16	17	18	20	23	230	418	233	62	53
6	19	20	16	17	18	21	27	230	422	213	87	64
7	18	20	16	16	18	21	29	230	397	194	89	89
8	19	21	15	16	17	21	36	225	372	181	89	69
9	17	20	16	16	17	20	49	220	388	175	89	40
10	17	16	16	17	17	19	41	200	462	166	87	48
11	18	19	16	14	17	19	31	170	623	169	84	40
12	18	19	16	16	17	19	36	140	577	169	82	40
13	17	19	16	19	17	21	46	120	577	143	84	37
14	19	20	16	21	17	19	54	114	552	135	87	35
15	18	20	16	16	18	22	62	104	603	127	91	32
16	18	19	16	17	18	19	68	98	528	116	82	30
17	17	20	17	16	18	22	86	172	500	111	76	32
18	21	21	18	16	19	21	98	181	467	104	78	34
19	19	19	18	16	20	20	110	184	472	94	78	32
20	21	20	20	15	20	20	125	236	458	89	78	31
21	23	20	22	14	15	21	135	304	431	94	65	36
22	21	20	21	14	17	21	110	355	481	106	64	38
23	22	20	19	15	18	20	100	401	490	108	65	34
24	22	20	18	16	19	20	120	359	454	104	71	33
25	22	20	18	17	20	18	140	297	427	104	73	33
26	21	20	18	17	19	22	150	257	410	101	65	32
27	20	18	19	17	19	23	140	220	380	94	60	32
28	20	18	19	17	21	24	120	194	384	94	58	31
29	20	17	19	17	19	22	115	213	380	82	56	32
30	20	17	19	17	---	21	140	226	414	111	55	32
31	19	---	19	17	---	25	---	240	---	108	53	---
TOTAL	610	583	540	516	522	629	2285	6705	13308	4881	2379	1253
MEAN	19.7	19.4	17.4	16.6	18.0	20.3	76.2	216	444	157	76.7	41.8
MAX	23	21	22	21	21	25	150	401	623	449	104	89
MIN	17	16	15	14	15	16	22	98	250	82	53	30
AC-FT	1210	1160	1070	1020	1040	1250	4530	13300	26400	9680	4720	2490

CAL YR 1979 TOTAL 27110 MEAN 74.3 MAX 572 MIN 15 AC-FT 53770
WTR YR 1980 TOTAL 34211 MEAN 93.5 MAX 623 MIN 14 AC-FT 67860

10237000 BEAVER RIVER AT ADAMSVILLE, UTAH

LOCATION.--Lat 38°15'13", long 112°46'03", in NW1/4SW1/4SW1/4 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, 1.5 mi (2.4 km) upstream from Indian Creek, and 1.5 mi (2.4 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 poor. 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.--66 years (1914-80), 36.0 ft^3/s (1.020 m^3/s), 26,080 acre-ft/yr (32.2 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, 728 ft^3/s (20.6 m^3/s) June 15, gage height, 7.04 ft (2.146 m); minimum, 1.4 ft^3/s (0.040 m^3/s) Oct. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	23	46	34	36	42	43	37	160	482	12	3.6
2	2.3	44	46	33	36	42	30	35	160	506	9.8	3.9
3	2.0	44	44	34	37	44	15	29	180	364	9.8	2.0
4	2.0	44	44	38	38	44	11	44	320	292	8.2	1.8
5	1.8	48	42	37	38	42	12	60	435	230	7.2	1.8
6	1.7	48	41	37	38	40	21	89	390	168	6.4	3.0
7	1.6	47	41	38	38	40	21	83	380	147	5.2	91
8	1.5	58	39	40	38	40	22	78	340	141	6.4	235
9	2.0	48	39	39	39	40	26	94	305	138	7.6	150
10	2.4	42	39	41	39	40	27	86	400	129	6.0	120
11	1.7	39	35	37	39	40	25	82	548	129	5.6	79
12	1.7	39	37	39	39	40	26	72	602	120	5.2	68
13	1.9	42	38	43	40	40	26	64	482	120	12	54
14	2.1	41	39	42	38	39	23	59	500	112	13	47
15	2.1	39	39	42	37	40	25	71	656	91	6.4	46
16	1.9	38	38	42	37	39	31	96	560	81	7.2	40
17	1.8	38	38	40	38	37	41	210	464	64	8.5	38
18	2.5	42	37	38	39	38	54	174	482	50	8.8	36
19	2.1	38	36	32	38	38	43	161	512	43	9.0	39
20	4.1	37	34	35	30	39	29	174	494	44	8.0	29
21	8.8	39	37	38	32	43	41	240	476	45	7.2	24
22	15	45	38	38	34	44	45	281	458	36	6.0	26
23	14	43	36	32	35	42	49	303	434	35	6.8	29
24	5.9	46	36	35	41	43	44	303	410	32	6.0	28
25	5.4	49	37	38	40	42	29	235	398	26	36	21
26	4.0	50	37	40	40	45	20	161	352	22	40	23
27	3.0	43	36	40	40	47	18	123	308	19	12	20
28	3.1	41	32	36	40	43	20	127	276	16	3.6	20
29	2.8	45	34	36	41	45	42	130	260	15	2.2	20
30	5.3	45	36	36	---	41	46	140	250	16	4.5	10
31	5.2	---	37	36	---	42	---	150	---	14	3.3	---
TOTAL	114.2	1285	1188	1166	1095	1281	905	3993	11992	3727	289.9	1309.1
MEAN	3.68	42.8	38.3	37.6	37.8	41.3	30.2	129	400	120	9.35	43.6
MAX	15	58	46	43	41	47	54	303	656	506	40	235
MIN	1.5	23	32	32	30	37	11	29	160	14	2.2	1.8
AC-FT	227	2550	2360	2310	2170	2540	1800	7920	23790	7390	575	2600

CAL YR 1979 TOTAL 24004.7 MEAN 65.8 MAX 1000 MIN 1.5 AC-FT 47610
WTR YR 1980 TOTAL 28345.2 MEAN 77.4 MAX 656 MIN 1.5 AC-FT 56220

10237000 BEAVER RIVER AT ADAMSVILLE, UT--Continued

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 1978.
WATER TEMPERATURES: October 1975 to September 1978.

INSTRUMENTATION.--Specific conductance recorder and temperature recorder since October 1975.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,130 micromhos Oct. 14, 1976; minimum, 258 micromhos Feb. 4, 1977.
WATER TEMPERATURES: Maximum, 31.5°C June 28, 1977; minimum, 0.0°C on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (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											
30...	1400	5.8	770	8.2	5.7	5.5	.90	11.9	.99	--	--
DEC											
06...	1330	41	370	8.5	6.5	4.0	5.2	10.8	.80	--	--
JAN											
03...	1515	37	340	8.2	6.7	2.0	8.3	10.1	1.7	29	68
FEB											
14...	1230	41	380	8.0	4.6	4.0	8.0	10.5	.91	130	250
MAR											
05...	1130	42	400	7.9	10.6	4.0	15	10.4	.87	76	130
APR											
01...	1100	38	400	8.1	2.3	4.0	12	10.6	1.4	25	77
MAY											
12...	1200	84	410	8.1	6.8	6.0	18	9.8	1.2	1200	1300
JUN											
11...	1045	446	160	7.4	22.5	8.5	140	8.7	.76	4300	1300
JUL											
07...	1150	156	255	6.3	23.0	14.0	11	8.4	1.0	7200	2000
AUG											
07...	1100	5.0	760	7.8	23.0	17.0	2.2	8.5	1.3	310	740
SEP											
03...	1230	2.4	920	7.9	24.0	18.0	1.3	9.0	1.0	240	140

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
OCT											
30...	260	0	71	19	62	42	1.7	70	7.8	--	--
DEC											
06...	150	6	42	10	23	31	.8	27	4.4	--	--
JAN											
03...	140	0	39	9.5	20	30	.7	24	4.4	--	--
FEB											
14...	140	0	41	9.9	23	25	.8	28	4.5	180	0
MAR											
05...	160	15	44	11	23	24	.8	28	4.6	170	0
APR											
01...	--	--	--	--	--	--	--	--	--	180	0
MAY											
12...	150	0	42	12	22	23	.8	--	6.1	200	0
JUN											
11...	64	0	18	4.6	8.8	22	.5	--	3.2	--	--
JUL											
07...	96	0	28	6.4	10	18	.4	--	3.7	130	0
AUG											
07...	250	0	68	19	65	35	1.8	--	9.1	360	0
SEP											
03...	290	0	77	23	91	40	2.3	--	11	--	--

10237000 BEAVER RIVER AT ADAMSVILLE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	ALKALINITY (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										
30...	260	--	62	51	1.0	41	416	474	.57	6.51
DEC										
06...	140	--	24	18	.5	36	240	244	.33	26.4
JAN										
03...	150	--	24	15	.5	32	238	237	.32	24.0
FEB										
14...	148	2.9	28	19	.4	34	246	251	.33	27.2
MAR										
05...	140	3.4	26	22	.5	32	248	249	.34	28.3
APR										
01...	148	2.3	30	20	.5	--	265	143	.36	27.0
MAY										
12...	164	2.5	29	15	.8	32	269	259	.37	61.1
JUN										
11...	66	--	11	5.7	.2	23	130	115	.18	157
JUL										
07...	107	104	11	11	.5	26	176	162	.24	74.1
AUG										
07...	295	9.1	50	44	1.2	43	476	477	.65	6.44
SEP										
03...	330	--	80	59	1.3	43	632	584	.86	4.10

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA 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)
OCT								
30...	.52	.53	.040	.000	.05	.00	1.3	.46
DEC								
06...	.28	.42	.010	.000	.01	.00	.99	.38
JAN								
03...	.52	.62	.040	.000	.05	.00	1.2	1.1
FEB								
14...	--	.41	--	.090	--	.12	--	.41
MAR								
05...	.42	.41	.040	.030	.05	.04	.80	.43
APR								
01...	.42	.44	.060	--	.07	--	.88	--
MAY								
12...	.31	.34	.060	.040	.07	.05	.94	.79
JUN								
11...	.15	.15	.060	.000	.07	.00	1.5	.61
JUL								
07...	.24	.23	.050	.050	.06	.06	1.2	.75
AUG								
07...	.00	.01	.000	.000	.00	.00	.62	1.3
SEP								
03...	4.6	.00	.010	.000	.01	.00	.99	1.0

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)
OCT								
30...	1.3	.84	.46	1.8	8.1	.060	.18	.050
DEC								
06...	1.0	.62	.38	1.3	5.7	.140	.43	.160
JAN								
03...	1.2	.10	1.1	1.7	7.6	.100	.31	.050
FEB								
14...	--	--	.50	--	--	--	--	.070
MAR								
05...	.84	.38	.46	1.3	5.6	.130	.40	.050
APR								
01...	.94	.00	1.0	1.4	6.0	.120	.37	.090
MAY								
12...	1.0	.17	.83	1.3	5.8	.230	.71	.120
JUN								
11...	1.6	.99	.61	1.8	7.7	.510	1.6	.080
JUL								
07...	1.2	.40	.80	1.4	6.4	.240	.74	.110
AUG								
07...	.62	.00	1.3	.62	2.7	.150	.46	.140
SEP								
03...	1.0	.00	1.0	5.6	25	.100	.31	.090

10237000 BEAVER RIVER AT ADAMSVILLE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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											
30...	1400	4	0	4	200	100	60	0	0	<1	0
FEB											
14...	1230	3	1	2	200	200	40	0	0	<1	0
MAY											
12...	1200	3	1	2	100	60	40	0	--	<1	0
AUG											
07...	1100	5	0	5	100	30	70	0	--	<1	0

DATE	CHRO-MIUM, SUS-PENDED RECOV. (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										
30...	0	1	0	<3	2	2	0	130	110	20
FEB										
14...	0	2	0	<3	15	14	1	870	840	30
MAY										
12...	0	1	--	<3	9	6	3	2800	2600	50
AUG										
07...	0	0	--	<3	8	5	3	300	260	40

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)
OCT										
30...	4	4	0	120	10	110	.0	.0	.0	1
FEB										
14...	4	2	2	150	50	100	.1	.1	.0	4
MAY										
12...	6	6	0	220	160	60	.2	.2	.0	9
AUG										
07...	3	1	2	260	10	250	.1	.1	.0	5

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)	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										
30...	1	0	0	0	0	0	0	60	60	<3
FEB										
14...	4	0	0	0	0	0	0	20	10	10
MAY										
12...	6	3	0	0	0	0	0	30	30	5
AUG										
07...	0	5	1	1	0	0	0	20	--	<3

10237000 BEAVER RIVER AT ADAMSVILLE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SILVER, TOTAL RECOVERABLE (UG/L AS AG)
NOV		
02...	1100	0
DEC		
05...	1300	0
JAN		
03...	1230	0
FEB		
13...	1530	0
MAR		
11...	1240	1
MAY		
28...	1030	0
JUN		
25...	1050	0
AUG		
21...	1214	0
SEP		
25...	1100	0

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)
NOV				
02...	1100	--	4.8	.5
DEC				
05...	1300	--	7.7	.3
JAN				
03...	1230	12	--	--
30...	1030	11	--	--
FEB				
13...	1530	--	9.9	.5
MAR				
11...	1240	8.5	--	--
APR				
16...	1055	13	--	--
MAY				
28...	1030	--	8.5	--
JUN				
25...	1050	42	--	--
JUL				
08...	1012	25	--	--
AUG				
21...	1214	--	3.6	1.5
SEP				
25...	1100	7.8	--	--

DATE	TIME	PCB TOTAL (UG/L)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	CHLOR-DANE, TOTAL (UG/L)	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
DEC											
05...	1300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB											
13...	1530	ND	--	ND	--	ND	--	ND	--	ND	--

DATE	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-AZINON, TOTAL (UG/L)	DI-AZINON, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-ELDRIN TOTAL (UG/L)	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR, TOTAL (UG/L)
DEC											
05...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB											
13...	ND	--	--	--	ND	--	ND	--	--	--	ND

ND Material specifically analyzed for but not detected.

10237000 BEAVER RIVER AT ADAMSVILLE, UT--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	MAR 5,80		MAY 12,80		JUN 11,80		JUL 7,80		AUG 7,80		SEP 3,80	
TIME	1445		1500		1050		1415		1210		1240	
TOTAL CELLS/ML	910		260		1900		140		350		1500	
DIVERSITY: DIVISION	0.1		1.0		0.7		0.0		0.6		0.5	
.CLASS	0.1		1.0		0.7		0.0		0.6		0.5	
..ORDER	0.4		1.0		0.9		0.8		0.8		0.8	
...FAMILY	2.6		1.9		2.5		1.8		2.1		0.9	
....GENUS	3.1		1.9		2.7		2.0		2.1		1.6	
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	--	-	--	-	210	11	--	-	--	-	--	-
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	7	1	52#	20	--	-	--	-	13	4	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	63	7	--	-	69	4	39#	27	13	4	--	-
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	35	4	--	-	270	15	13	9	--	-	--	-
....COCCONEIS	14	2	--	-	--	-	13	9	26	7	39	3
...CYMBELLACEAE												
....CYMBELLA	7	1	--	-	--	-	--	-	--	-	--	-
...DIATOMACEAE												
....DIATOMA	250#	27	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE												
....FRAGILARIA	35	4	--	-	--	-	--	-	--	-	--	-
....HANNAEA	150#	16	--	-	--	-	--	-	--	-	--	-
....SYNEDRA	97	11	--	-	--	-	--	-	--	-	--	-
...GOMPHONEMATACEAE												
....GOMPHONEMA	56	6	13	5	140	7	--	-	100#	30	26	2
...NAVICULACEAE												
....NAVICULA	97	11	64#	25	270	15	13	9	13	4	--	-
....PLEUROSIGMA	--	-	--	-	69	4	--	-	--	-	--	-
...NITZSCHIACEAE												
....NITZSCHIA	97	11	120#	45	690#	37	64#	45	150#	44	52	4
...SURIRELLACEAE												
....SURIRELLA	7	1	--	-	69	4	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....ANACYSTIS	--	-	--	-	--	-	--	-	26	7	77	5
..HORMOGONALES												
...OSCILLATORIACEAE												
....LYNGBYA	--	-	--	-	--	-	--	-	--	-	300#	20
....OSCILLATORIA	--	-	--	-	--	-	--	-	--	-	970#	66
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....EUGLENA	--	-	13	5	--	-	--	-	--	-	13	1
....TRACHELOMONAS	--	-	--	-	69	4	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10237000 BEAVER RIVER AT ADAMSVILLE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)
OCT				
30...	1400	--	17	.1
DEC				
06...	1330	8.8	--	--
JAN				
03...	1515	3.4	--	--
FEB				
14...	1230	--	3.0	.8
MAR				
05...	1130	3.3	--	--
APR				
01...	1100	7.1	--	--
MAY				
12...	1200	--	10	1.7
JUN				
11...	1045	16	--	--
JUL				
07...	1150	7.1	--	--
AUG				
07...	1100	--	15	.3
SEP				
03...	1230	14	--	--

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (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						
30...	1400	5.8	5.5	72	74	1.1
DEC						
06...	1330	41	4.0	20	75	2.2
JAN						
03...	1515	37	2.0	28	94	2.8
FEB						
14...	1230	41	4.0	52	80	5.8
MAR						
05...	1130	42	4.0	54	90	6.2
APR						
01...	1100	38	4.0	36	98	3.7
MAY						
12...	1200	84	6.0	156	98	35
JUN						
11...	1045	446	8.5	856	66	1030
JUL						
07...	1150	156	14.0	99	53	42
AUG						
07...	1100	5.0	17.0	73	54	.99
SEP						
03...	1230	2.4	18.0	55	71	.36

10238500 MINERSVILLE RESERVOIR NEAR MINERSVILLE, UTAH

LOCATION.--Lat 38°13'03", long 112°50'05", in SE1/4NE1/4NW1/4 sec.11, T.30 S., R.9 W., Beaver County, Hydrologic Unit 16030007, 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 Oct. 1, 1967.

REVISED RECORDS.--WRD Utah-75-1: Drainage area.

GAGE.--Staff gage. Datum of gage is at 5,452.0 ft (1,661.77 m) National Geodetic Vertical Datum 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, 24,510 acre-ft ft (30.2 hm^3) June 17, gage height, 53.6 ft (16.337 m); minimum, 10,100 acre-ft (12.4 hm^3), gage height, 37.5 ft (11.430 m) Oct. 1.

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

35.0	8,400	53.0	23,850
40.0	11,790	55.0	26,040
50.0	20,560		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10100	---	---	---	17250	---	---	19900	23300	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	14060
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	15670	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	18670	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	24510	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	24290	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	20370	---	19900	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	12680	---	---	a 20510	21880	---	a 22640	---	---	---	---
30	---	a 12750	---	---	---	---	a 20230	---	a 22040	---	---	a 14430
31	a 11410	---	a 14810	a 17170	---	a 21740	---	a 23080	---	a 17460	a 14950	---
(‡)	+1260	+1340	+2060	+2360	+3340	+1230	-1510	+2850	-1040	-4580	-2510	-520

CAL YR 1979 . . . . . (‡) +4850
WTR YR 1980 . . . . . (‡) +4280

(‡) Change in contents, in acre-feet
(a) No gage-height reading, contents interpolated

10239000 BEAVER RIVER AT ROCKY FORD DAM, NEAR MINERSVILLE, UTAH

LOCATION.--Lat 38°13'03", long 112°50'22", in SE1/4NW1/4NW1/4 sec.11, T.30 S., R.9 W., Beaver County, Hydrologic Unit 16030007, on right bank 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 good. 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.--65 years (1914-36, 1937-80), 37.0 ft^3/s (1.048 m^3/s), 26,810 acre-ft/yr (33.1 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 discharge, 762 ft^3/s (21.6 m^3/s) June 11, gage height, 3.95 ft (1.204 m); minimum, 4.8 ft^3/s (0.136 m^3/s) several days in Oct. and Nov.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	4.8	6.5	9.3	8.7	13	10	91	119	255	85	123
2	5.6	4.8	6.5	8.7	8.7	13	10	91	113	375	88	123
3	6.0	4.8	7.0	9.3	9.3	12	10	90	117	389	95	123
4	5.8	4.8	7.0	9.3	9.3	12	9.9	90	121	335	106	118
5	5.5	5.1	7.0	8.7	9.3	12	10	91	126	272	106	103
6	6.0	5.0	7.1	8.7	9.3	12	10	105	130	225	107	95
7	6.0	5.0	7.0	9.3	9.3	12	10	107	204	142	108	80
8	5.8	5.2	7.3	9.3	9.3	12	10	106	337	133	108	68
9	6.0	5.1	6.6	8.7	9.3	12	10	104	433	129	109	65
10	5.8	5.2	6.4	8.1	9.3	12	10	106	498	128	110	53
11	5.6	5.2	6.2	8.1	9.3	12	9.9	101	620	127	116	20
12	5.5	5.5	6.0	8.1	9.3	11	9.9	98	638	124	131	12
13	5.5	5.5	6.6	8.1	9.9	11	9.9	96	600	121	130	16
14	5.7	5.5	6.5	8.7	9.9	11	10	93	477	125	130	16
15	5.5	5.5	6.6	8.7	9.9	11	22	82	386	139	130	15
16	5.5	5.5	6.7	8.7	11	11	25	72	395	134	130	22
17	5.5	5.5	7.3	8.7	11	11	25	65	478	124	130	31
18	5.3	6.0	7.4	8.7	11	12	26	62	485	118	130	31
19	5.1	6.0	7.5	8.7	11	12	42	63	470	130	130	29
20	5.3	6.0	7.5	8.7	11	12	56	79	468	135	130	22
21	5.3	5.7	8.1	8.7	11	12	55	91	450	129	132	20
22	5.1	5.6	8.1	8.7	11	11	61	96	440	118	132	27
23	5.1	6.2	7.8	8.7	11	11	65	113	392	97	132	33
24	5.1	6.4	7.5	8.7	11	11	64	148	390	97	132	31
25	5.0	6.5	7.5	8.7	11	11	67	176	383	94	134	30
26	4.8	6.5	8.1	8.7	11	11	70	200	331	82	134	30
27	4.8	6.5	8.1	8.7	12	11	74	216	205	82	125	31
28	4.8	6.8	8.7	8.7	12	11	83	220	198	89	120	32
29	5.1	6.6	8.7	9.3	13	10	90	200	206	99	121	34
30	5.1	6.5	9.3	8.7	---	10	92	178	205	99	122	35
31	4.9	---	9.3	8.7	---	10	---	133	---	89	122	---
TOTAL	180.1	169.3	227.9	270.9	298.1	355	1056.6	3565	10415	4735	3715	1468
MEAN	5.81	5.64	7.35	8.74	10.3	11.5	35.2	115	347	153	120	48.9
MAX	18	6.8	9.3	9.3	13	13	92	220	638	389	134	123
MIN	4.8	4.8	6.0	8.1	8.7	10	9.9	62	113	82	85	12
AC-FT	357	336	452	537	591	704	2100	7070	20660	9390	7370	2910

CAL YR 1979 TOTAL 18988.4 MEAN 52.0 MAX 335 MIN 4.8 AC-FT 37660
WTR YR 1980 TOTAL 26455.9 MEAN 72.3 MAX 638 MIN 4.8 AC-FT 52480

10241400 LITTLE CREEK NEAR PARAGONAH, UTAH

LOCATION.--Lat 37°54'20", long 112°42'30", in SE1/4NE1/4 sec.25, T.33 S., R.8 W., Iron County, Hydrologic Unit 16030006, on right bank 0.5 mi (0.8 km) downstream from Dixie National Forest boundary, 2.2 mi (4.0 km) upstream from mouth of canyon, and 3.9 mi (5.6 km) northeast of Paragonah.

DRAINAGE AREA.--15.8 mi^2 (40.9 km^2).

PERIOD OF RECORD.--July 1959 to September 1980 (discontinued).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,740 ft (2,054 m) from topographic map.

REMARKS.--Records good. Station is above all diversions.

AVERAGE DISCHARGE.--21 years, 1.90 ft^3/s (0.054 m^3/s), 1,380 acre-ft/yr (1.70 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 351 ft^3/s (9.94 m^3/s) Aug. 3, 1961; gage height, 3.86 ft (1.177 m) from floodmarks from rating curve extended above gage height 1.4 ft (0.427 m) on basis of slope-area measurement made at gage height 3.55 ft (1.082 m); maximum gage height, 4.20 ft (1.280 m) July 31, 1968; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peaks above base of 11 ft^3/s (0.31 m^3/s); and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 21	1900	14.0	0.396	1.66	0.506
May 17	0100	*16.0	0.453	1.67	0.509

Minimum discharge, 0.21 ft^3/s (0.006 m^3/s) Nov. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.2	1.0	1.3	1.5	2.1	1.5	11	9.5	5.9	2.3	1.2
2	1.0	1.2	1.2	1.2	1.5	2.3	1.6	9.5	9.1	5.5	2.3	1.2
3	1.0	1.3	1.2	1.2	1.6	2.3	1.8	9.5	9.1	5.5	2.3	1.1
4	1.0	1.2	1.1	1.2	1.6	2.1	1.6	9.1	8.8	5.2	2.1	1.0
5	.89	1.2	1.1	1.2	1.5	2.1	1.6	10	8.8	4.6	1.9	1.0
6	.89	1.2	1.0	1.2	1.6	2.1	1.8	11	8.8	4.6	2.1	1.0
7	.89	1.5	1.1	1.3	1.6	2.1	1.9	12	8.8	4.9	1.9	2.3
8	.89	1.8	1.1	1.3	1.2	1.9	1.9	12	8.8	4.9	1.9	2.5
9	.89	1.6	1.1	1.3	1.1	1.9	2.7	12	8.1	4.3	1.8	1.8
10	.89	1.3	1.2	1.3	1.3	1.9	3.3	12	8.1	4.3	1.8	2.1
11	.89	1.1	.89	1.3	1.5	2.3	3.3	13	7.8	4.0	1.6	1.3
12	.89	1.1	.49	1.5	1.5	2.1	2.7	13	7.8	4.0	1.8	1.3
13	.89	1.3	.89	2.1	1.5	1.9	2.7	12	7.5	3.7	1.9	1.2
14	.89	1.3	.89	1.9	1.8	1.8	3.5	13	7.5	3.5	2.3	1.1
15	1.0	1.2	1.1	1.9	1.9	1.9	5.5	12	7.5	3.3	1.8	1.1
16	1.0	1.2	1.2	1.8	1.9	1.6	5.5	12	7.1	3.3	1.6	1.1
17	1.0	1.3	1.2	1.6	1.9	1.8	6.5	12	6.5	3.1	1.6	1.1
18	1.0	1.5	1.2	1.6	2.5	1.5	7.8	12	6.5	3.1	1.6	1.1
19	1.0	.63	1.2	1.5	2.6	1.8	8.8	12	6.5	2.9	1.5	1.0
20	1.3	.49	1.2	1.3	2.6	1.6	9.5	12	6.2	2.9	1.5	1.1
21	1.6	.89	1.1	1.1	2.1	1.8	11	12	6.2	2.9	1.5	1.1
22	1.3	.70	1.2	1.1	2.1	1.8	10	12	5.9	2.8	1.6	1.2
23	1.3	.70	1.2	1.2	1.9	1.6	8.4	12	5.9	2.7	1.6	1.1
24	1.2	.70	1.2	1.5	1.9	1.5	7.8	12	5.9	2.6	2.1	1.2
25	1.2	.70	1.3	1.6	1.9	1.5	7.5	11	6.2	2.5	2.9	1.2
26	1.2	.70	1.3	1.6	2.1	1.8	8.4	11	5.9	2.5	2.1	1.1
27	1.2	.70	1.2	1.6	2.1	1.6	8.4	11	5.9	2.5	1.8	1.1
28	1.2	.70	1.2	1.6	2.0	1.6	8.8	11	5.5	2.5	1.5	1.1
29	1.5	1.1	1.3	1.6	2.3	2.3	9.8	11	5.5	2.5	1.5	1.2
30	1.3	.89	1.3	1.6	---	1.6	9.5	11	5.5	2.3	1.5	1.2
31	1.2	---	1.3	1.6	---	1.5	---	9.5	---	2.3	1.3	---
TOTAL	33.40	32.40	34.96	45.1	52.6	57.7	165.1	354.6	217.2	111.6	57.0	38.1
MEAN	1.08	1.08	1.13	1.45	1.81	1.86	5.50	11.4	7.24	3.60	1.84	1.27
MAX	1.6	1.8	1.3	2.1	2.6	2.3	11	13	9.5	5.9	2.9	2.5
MIN	.89	.49	.49	1.1	1.1	1.5	1.5	9.1	5.5	2.3	1.3	1.0
AC-FT	66	64	69	89	104	114	327	703	431	221	113	76

CAL YR 1979 TOTAL 1203.73 MEAN 3.30 MAX 17 MIN .49 AC-FT 2390
WTR YR 1980 TOTAL 1199.76 MEAN 3.28 MAX 13 MIN .49 AC-FT 2380

10241470 CENTER CREEK ABOVE PAROWAN CREEK NEAR PAROWAN, UTAH

LOCATION.--Lat 37°47'35", long 112°48'55", in NE1/4NE1/4 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) (revised), 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.

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 and no gage-height record July 23 to Aug. 28, which are fair. No diversion or regulation above station.

AVERAGE DISCHARGE.--16 years, 6.30 ft^3/s (0.178 m^3/s), 4,560 acre-ft/yr (5.62 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.--Maximum discharge, 20.0 ft^3/s (0.566 m^3/s), July 5, gage height, 1.20 ft (0.366 m), no peak above base of 30 ft^3/s (0.850 m^3/s); minimum discharge, 1.6 ft^3/s (0.045 m^3/s) Nov. 24, result of freeze back.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	4.4	3.5	3.9	4.8	5.2	3.5	8.1	8.4	17	10	7.1
2	3.8	4.2	3.6	3.9	4.3	5.2	3.5	7.4	8.4	17	11	7.0
3	3.8	4.2	3.6	4.1	4.3	5.2	3.4	7.7	8.7	17	12	6.5
4	3.8	4.2	3.6	4.3	4.5	5.0	3.9	9.3	9.3	17	11	6.3
5	3.8	4.1	3.7	4.1	5.0	4.8	4.0	10	10	18	9.4	6.1
6	3.8	4.1	3.7	4.1	4.5	4.9	4.2	10	10	18	9.1	6.1
7	3.8	4.1	3.7	4.1	4.5	4.8	4.8	9.7	10	19	9.0	7.0
8	3.8	4.3	3.8	4.1	4.5	4.5	4.5	9.3	9.7	19	8.8	7.1
9	3.8	4.1	3.8	4.1	4.5	4.5	5.0	9.0	9.7	18	8.7	6.8
10	3.8	4.0	3.9	4.1	4.5	4.4	5.0	8.7	9.7	18	8.6	7.2
11	3.8	4.0	3.9	4.1	4.5	4.3	5.3	7.7	10	18	8.5	6.6
12	3.8	4.2	3.7	4.3	4.6	4.1	5.3	7.1	9.3	17	8.4	6.4
13	3.9	4.1	3.5	4.3	4.8	4.1	5.5	6.8	9.0	18	8.3	6.4
14	4.1	4.1	3.5	4.8	5.0	4.1	5.9	6.8	9.0	17	8.7	6.3
15	4.2	3.9	3.5	4.5	4.8	3.9	7.4	6.8	9.0	16	9.0	6.3
16	4.2	3.9	3.5	4.3	5.0	3.7	7.1	8.1	9.7	16	8.2	6.3
17	4.2	4.0	3.5	4.3	5.0	5.2	8.1	8.7	10	15	7.8	5.8
18	4.2	4.0	3.5	4.3	5.5	3.9	9.3	7.7	10	14	7.7	5.6
19	4.2	3.8	3.5	4.3	5.7	3.7	10	9.7	10	13	7.6	5.7
20	4.4	3.7	3.5	4.1	5.5	3.7	12	10	8.4	13	7.5	5.7
21	4.4	3.7	3.9	4.1	5.2	3.7	13	11	10	12	7.4	5.8
22	4.3	3.7	3.9	4.1	5.5	3.7	10	12	12	12	7.4	5.8
23	4.4	2.9	3.9	4.1	5.2	3.5	8.1	11	13	11	7.4	5.8
24	4.4	2.0	3.9	4.1	5.0	3.7	7.1	10	13	11	8.0	5.8
25	4.3	1.9	3.9	4.2	5.2	3.5	8.1	9.3	12	11	8.8	5.6
26	4.3	3.1	3.9	4.3	5.5	4.1	8.4	8.7	13	11	6.8	5.7
27	4.3	3.3	3.9	4.3	5.2	3.7	9.0	8.1	13	11	6.8	5.6
28	4.1	3.4	3.9	4.3	5.5	4.1	10	8.1	14	11	7.0	5.6
29	3.9	3.4	3.9	4.5	5.2	4.1	10	7.7	15	12	7.1	5.6
30	4.1	3.5	3.9	4.3	---	3.5	8.4	8.1	16	11	7.2	5.5
31	4.3	---	3.9	4.5	---	5.3	---	8.4	---	10	7.1	---
TOTAL	125.8	112.3	115.4	130.9	143.3	132.1	209.8	271.0	319.3	458	260.3	185.1
MEAN	4.06	3.74	3.72	4.22	4.94	4.26	6.99	8.74	10.6	14.8	8.40	6.17
MAX	4.4	4.4	3.9	4.8	5.7	5.3	13	12	16	19	12	7.2
MIN	3.8	1.9	3.5	3.9	4.3	3.5	3.4	6.8	8.4	10	6.8	5.5
AC-FT	250	223	229	260	284	262	416	538	633	908	516	367

CAL YR 1979 TOTAL 2371.3 MEAN 6.50 MAX 18 MIN 1.9 AC-FT 4700
WTR YR 1980 TOTAL 2463.3 MEAN 6.73 MAX 19 MIN 1.9 AC-FT 4890

10241600 SUMMIT CREEK NEAR SUMMIT, UTAH

LOCATION.--Lat 37°47'13", long 112°54'56", in NW1/4NE1/4SW1/4 sec.6, T.35 S., R.9 W., Iron County, Hydrologic Unit 16030006, on left bank about 900 ft (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) (revised).

PERIOD OF RECORD.--October 1964 to current year.

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 except for periods of no gage-height record, Oct. 10 to Nov. 15, Mar. 17 to May 5, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--16 years, 4.20 ft^3/s (0.119 m^3/s), 3,040 acre-ft/yr (3.75 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 discharges 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)
May 6	2100	37.00	1.048	2.60	0.792
May 21	2300	*86.40	2.447	2.84	.866
June 2	2100	37.00	1.048	2.64	.805

Minimum, 1.0 ft^3/s (0.028 m^3/s) Dec. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.5	1.4	1.2	1.9	2.9	3.6	26	25	8.4	2.5	1.5
2	1.4	1.5	1.4	1.1	1.9	3.0	3.6	23	26	7.7	3.5	1.4
3	1.4	1.6	1.3	1.2	1.9	2.9	3.6	24	29	7.2	4.4	1.4
4	1.4	1.5	1.3	1.2	1.9	2.9	3.6	24	28	7.0	3.0	1.3
5	1.5	1.5	1.3	1.2	2.0	2.7	3.5	26	27	6.6	2.6	1.3
6	1.5	1.5	1.3	1.2	2.2	2.8	3.5	28	23	6.4	2.5	1.4
7	1.5	1.8	1.3	1.2	2.2	2.8	3.5	23	21	6.2	2.4	3.8
8	1.5	2.1	1.3	1.2	2.2	2.6	3.7	25	19	6.2	2.3	4.5
9	1.5	1.7	1.3	1.2	2.2	2.4	3.8	22	18	5.7	2.1	3.2
10	1.5	1.5	1.3	1.3	2.2	2.5	3.5	19	17	6.0	2.1	5.2
11	1.5	1.3	1.3	1.3	2.3	3.0	3.5	19	15	5.7	2.0	3.0
12	1.5	1.3	1.3	1.3	2.3	2.8	3.5	17	14	5.3	2.0	3.4
13	1.5	1.6	1.3	1.4	2.3	2.5	4.1	15	13	5.3	2.0	2.5
14	1.5	1.8	1.3	1.9	2.4	2.9	4.6	14	12	5.1	2.2	2.2
15	1.5	1.6	1.3	1.7	2.7	2.9	3.9	14	11	4.8	2.0	2.2
16	1.5	1.6	1.3	1.9	2.7	3.2	3.2	15	11	4.6	1.9	2.2
17	1.5	1.6	1.3	1.8	2.7	3.0	4.0	21	10	4.4	1.9	2.2
18	1.5	1.6	1.3	1.9	2.7	3.0	5.4	24	9.6	4.3	1.6	2.2
19	1.5	1.4	1.3	1.8	2.7	3.0	7.0	27	9.3	4.0	1.6	2.1
20	1.8	1.3	1.3	1.6	2.7	3.0	9.0	32	8.9	3.8	1.6	2.2
21	2.1	1.2	1.3	1.6	2.7	3.5	10	39	8.6	3.8	1.6	2.2
22	1.7	1.4	1.3	1.6	2.7	3.9	9.4	50	8.6	3.6	1.6	2.2
23	1.6	1.5	1.4	1.6	3.0	3.8	8.5	41	8.5	3.3	1.6	2.2
24	1.5	1.5	1.3	1.7	3.0	4.0	8.0	30	7.9	3.3	1.9	2.2
25	1.5	1.5	1.3	1.9	3.0	3.8	11	24	7.8	3.2	2.5	2.2
26	1.5	1.5	1.3	1.9	3.2	3.6	12	20	7.8	3.2	2.0	2.2
27	1.5	1.5	1.3	1.9	3.3	3.9	13	21	7.5	3.1	1.7	2.2
28	1.5	1.4	1.2	1.9	3.3	4.1	14	23	7.4	3.1	1.6	2.2
29	1.5	1.4	1.2	1.9	3.2	3.9	16	22	7.2	3.3	1.5	2.1
30	1.7	1.4	1.2	2.0	---	3.9	20	26	7.0	2.9	1.5	2.0
31	1.5	---	1.2	1.9	---	3.6	---	27	---	2.6	1.5	---
TOTAL	47.6	45.6	40.2	48.5	73.5	98.8	206.0	761	425.1	150.1	65.2	70.9
MEAN	1.54	1.52	1.30	1.56	2.53	3.19	6.87	24.5	14.2	4.84	2.10	2.36
MAX	2.1	2.1	1.4	2.0	3.3	4.1	20	50	29	8.4	4.4	5.2
MIN	1.4	1.2	1.2	1.1	1.9	2.4	3.2	14	7.0	2.6	1.5	1.3
AC-FT	94	90	80	96	146	196	409	1510	843	298	129	141

CAL YR 1979 TOTAL 1759.44 MEAN 4.82 MAX 40 MIN .96 AC-FT 3490
WTR YR 1980 TOTAL 2032.50 MEAN 5.55 MAX 50 MIN 1.1 AC-FT 4030

10242000 COAL CREEK NEAR CEDAR CITY, UTAH

LOCATION.--Lat 37°40'20", long 113°02'02", in SE1/4SE1/4NE1/4 sec.13, T.36 S., R.11 W., Iron County, Hydrologic Unit 16030006, on right bank 600 ft (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 except those for winter period, which are fair. 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.--44 years (1935-37, 1938-80), 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, 515 ft^3/s (14.6 m^3/s) May 24, gage height, 5.59 ft (1.704 m); minimum discharge 2.1 ft^3/s (0.059 m^3/s) Dec. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	9.8	9.5	9.8	11	17	13	146	243	84	20	14
2	9.1	10	11	9.0	12	16	13	195	237	71	24	14
3	9.1	11	11	9.1	12	16	17	237	255	63	36	14
4	9.0	10	10	9.3	12	14	20	210	258	57	24	13
5	8.9	9.7	10	9.4	13	14	20	225	255	53	21	14
6	8.9	9.8	10	9.4	14	14	21	210	234	49	20	14
7	8.9	10	10	9.3	18	12	26	244	210	49	19	44
8	8.9	12	10	9.3	14	12	37	222	199	49	19	85
9	8.9	10	10	9.6	11	13	45	241	199	46	18	85
10	8.9	9.6	10	9.4	11	17	36	186	196	43	18	107
11	8.9	8.4	8.3	10	11	14	25	153	194	41	17	29
12	9.0	8.4	5.4	11	12	12	31	122	186	40	17	29
13	9.0	8.9	7.8	13	15	16	45	111	165	39	17	22
14	9.1	9.8	9.6	20	20	18	55	118	153	36	18	20
15	9.0	8.6	11	14	31	15	61	112	144	34	18	20
16	9.1	8.5	10	12	25	9.9	70	135	142	34	16	20
17	9.2	10	10	12	20	17	85	199	135	32	16	17
18	9.2	11	9.8	12	20	15	98	249	133	30	15	15
19	9.3	8.1	9.3	11	22	14	111	288	124	27	15	13
20	11	6.4	9.6	9.5	23	19	120	333	116	27	15	13
21	12	7.6	10	8.4	23	16	102	333	111	26	15	13
22	9.7	7.1	9.5	9.2	24	14	70	400	105	24	16	13
23	9.6	11	8.9	8.2	24	15	95	302	97	24	17	13
24	9.5	11	9.7	11	18	14	113	225	89	24	20	13
25	9.4	12	9.5	13	16	11	136	181	81	24	25	13
26	9.4	12	9.8	12	16	15	148	155	75	24	25	13
27	9.3	8.3	9.2	11	16	14	125	160	69	22	18	13
28	9.2	6.0	7.2	10	16	14	110	183	69	27	16	13
29	9.8	8.9	9.2	10	16	14	108	178	67	25	15	13
30	10	8.2	9.0	10	---	13	127	216	67	23	15	13
31	10	---	10	9.3	---	13	---	228	---	23	15	---
TOTAL	290.6	282.1	294.3	330.2	496	447.9	2083	6499	4608	1170	580	732
MEAN	9.37	9.40	9.49	10.7	17.1	14.4	69.4	210	154	37.7	18.7	24.4
MAX	12	12	11	20	31	19	148	400	258	84	36	107
MIN	8.9	6.0	5.4	8.2	11	9.9	13	111	67	22	15	13
AC-FT	576	560	584	655	984	888	4130	12890	9140	2320	1150	1450

CAL YR 1979 TOTAL 19093.4 MEAN 52.3 MAX 544 MIN 5.4 AC-FT 37870
WTR YR 1980 TOTAL 17813.1 MEAN 48.7 MAX 400 MIN 5.4 AC-FT 35330

13077700 GEORGE CREEK NEAR YOST, UT

LOCATION.--Lat 41°55'07", long 113°28'51", in SE1/4SW1/4SW1/4 sec.20, T.14 N., R.14 W., Box Elder County, Hydrologic Unit 17040201, on right bank 1,000 ft (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.--21 years, 7.67 ft^3/s (0.217 m^3/s), 5,560 acre-ft/yr (6.86 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, 15, 16, 17, 18, 19, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 124 ft^3/s (3.51 m^3/s) May 23, gage height, 1.66 ft (0.506 m); minimum, 1.4 ft^3/s (0.040 m^3/s) Jan. 2-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	1.7	1.7	1.5	1.5	1.6	1.7	29	39	53	9.7	5.2
2	2.0	1.7	1.7	1.5	1.5	1.6	1.7	34	46	51	9.1	4.8
3	2.0	1.8	1.7	1.4	1.5	1.6	1.7	32	48	49	8.8	4.8
4	2.1	1.9	1.7	1.4	1.5	1.6	1.8	31	44	44	8.7	4.8
5	2.0	1.8	1.7	1.4	1.5	1.6	1.8	36	44	40	8.5	4.6
6	2.0	1.8	1.7	1.4	1.5	1.6	1.8	44	43	36	8.1	4.6
7	2.0	1.8	1.7	1.4	1.5	1.7	1.8	46	43	33	7.8	5.3
8	2.0	1.8	1.7	1.4	1.5	1.7	1.8	50	44	31	7.6	4.9
9	2.0	1.8	1.7	1.4	1.5	1.7	1.9	47	55	28	7.3	4.7
10	2.0	1.7	1.7	1.5	1.5	1.7	1.9	41	64	26	7.0	7.8
11	2.0	1.8	1.6	1.6	1.6	1.7	2.0	35	80	25	6.7	8.5
12	2.0	1.7	1.6	1.9	1.6	1.7	2.0	29	104	23	6.5	6.2
13	2.0	1.8	1.6	2.0	1.6	1.7	2.2	24	101	22	6.3	5.6
14	2.1	1.7	1.6	2.4	1.6	1.7	2.6	22	88	21	5.9	5.2
15	2.2	1.7	1.6	2.0	1.6	1.7	3.0	23	77	19	5.8	4.9
16	2.1	1.7	1.6	1.8	1.6	1.6	3.5	25	61	18	5.5	4.9
17	2.1	1.7	1.6	1.7	1.7	1.6	4.6	24	60	17	5.0	4.8
18	2.1	1.7	1.6	1.8	1.7	1.6	6.4	24	76	16	5.4	4.7
19	3.9	1.7	1.6	1.7	1.7	1.6	8.1	27	88	15	6.8	4.7
20	2.4	1.6	1.6	1.7	1.7	1.6	12	47	95	15	5.3	4.8
21	1.8	1.5	1.6	1.5	1.7	1.6	15	71	102	14	4.7	4.8
22	1.8	1.6	1.6	1.5	1.6	1.6	15	85	97	14	4.5	4.9
23	1.8	1.7	1.6	1.5	1.7	1.6	18	88	87	13	4.4	4.8
24	1.8	1.7	1.6	1.5	1.7	1.6	17	64	74	13	4.3	4.8
25	1.8	1.7	1.6	1.5	1.7	1.7	14	56	66	12	4.3	4.7
26	1.9	1.8	1.6	1.5	1.7	1.7	16	43	62	11	4.3	4.6
27	1.8	1.7	1.6	1.5	1.7	1.7	21	38	59	11	5.4	4.6
28	1.8	1.8	1.6	1.5	1.7	1.7	27	35	53	11	5.3	4.7
29	1.7	1.8	1.6	1.5	1.6	1.7	33	33	48	10	5.2	4.7
30	1.7	1.8	1.6	1.5	---	1.7	28	35	48	10	5.4	4.6
31	1.7	---	1.6	1.5	---	1.7	---	35	---	10	5.5	---
TOTAL	62.6	52.0	50.6	49.4	46.5	51.2	268.3	1253	1996	711	195.1	153.0
MEAN	2.02	1.73	1.63	1.59	1.60	1.65	8.94	40.4	66.5	22.9	6.29	5.10
MAX	3.9	1.9	1.7	2.4	1.7	1.7	33	88	104	53	9.7	8.5
MIN	1.7	1.5	1.6	1.4	1.5	1.6	1.7	22	39	10	4.3	4.6
AC-FT	124	103	100	98	92	102	532	2490	3960	1410	387	303

CAL YR 1979 TOTAL 1897.5 MEAN 5.20 MAX 51 MIN 1.5 AC-FT 3760
WTR YR 1980 TOTAL 4888.7 MEAN 13.4 MAX 104 MIN 1.4 AC-FT 9700

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 than 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 are generally 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 are generally presented in two tables. However, no records at low-flow partial-record stations are available for the 1980 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	1949-1980	4-30-80	1.41	136

Compilation of data for flow through the two 15-ft (4.6-m) culverts in the Southern Pacific Transportation Co. causeway across Great Salt Lake

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	Temperatures (°C)	Discharge (ft^3/s)	Specific gravity	Temperature (°C)
Oct. 15, 1979	(a) 255	1.110	18.5	(a) 364	1.106	19.0
	(b) 273	1.212	20.0	(b) 234	1.212	20.0
	(a) 408	1.100	8.0	(a) 521	1.106	7.0
Nov. 15	(b) 140	1.210	10.0	(b) 142	1.207	8.5
	(a) 440	1.113	1.0	(a) 588	1.113	0.5
Dec. 17	(b) 128	1.201	3.0	(b) 115	1.194	2.5
	(a) 466	1.098	2.0	(a) 513	1.087	2.5
Jan. 15, 1980	(b) 116	1.202	2.5	(b) 108	1.180	2.5
	(a) 533	1.095	2.0	(a) 846	1.097	1.5
Feb. 14	(b) 77.5	1.183	1.5	(b) 39.5	1.153	1.0
	(a) 803	1.098	7.0	(a) 984	1.100	7.0
Mar. 17	(b) 72.3	1.168	6.0	(b) 83.2	1.160	6.0
	(a) 816	1.098	10.0	(a)1,000	1.098	10.5
Apr. 15	(b) 70.6	1.178	9.5	(b) 87.2	1.168	10.0
	(a) 983	1.082	16.0	(a)1,130	1.086	17.0
May 15	(b) 74.4	1.143	15.0	(b) 70.7	1.148	16.5
	(a)1,310	1.072	19.5	(a)1,390	1.076	22.0
June 16	(b) 51.8	1.135	19.0	(b) 91.7	1.151	20.0
	(a)1,010	1.086	25.5	(a)1,140	1.089	25.0
July 15	(b) 69.1	1.147	25.0	(b) 114	1.144	25.0
	(a) 596	1.094	23.0	(a) 663	1.092	23.0
Aug. 28	(b) 82.5	1.179	22.5	(b) 201	1.175	23.0
	(a) 621	1.086	20.0	(a) 656	1.088	21.0
Sept. 15	(b) 75.0	1.172	19.0	(b) 217	1.174	20.0

(a) indicates flow from south to north
(b) indicates flow from north to south

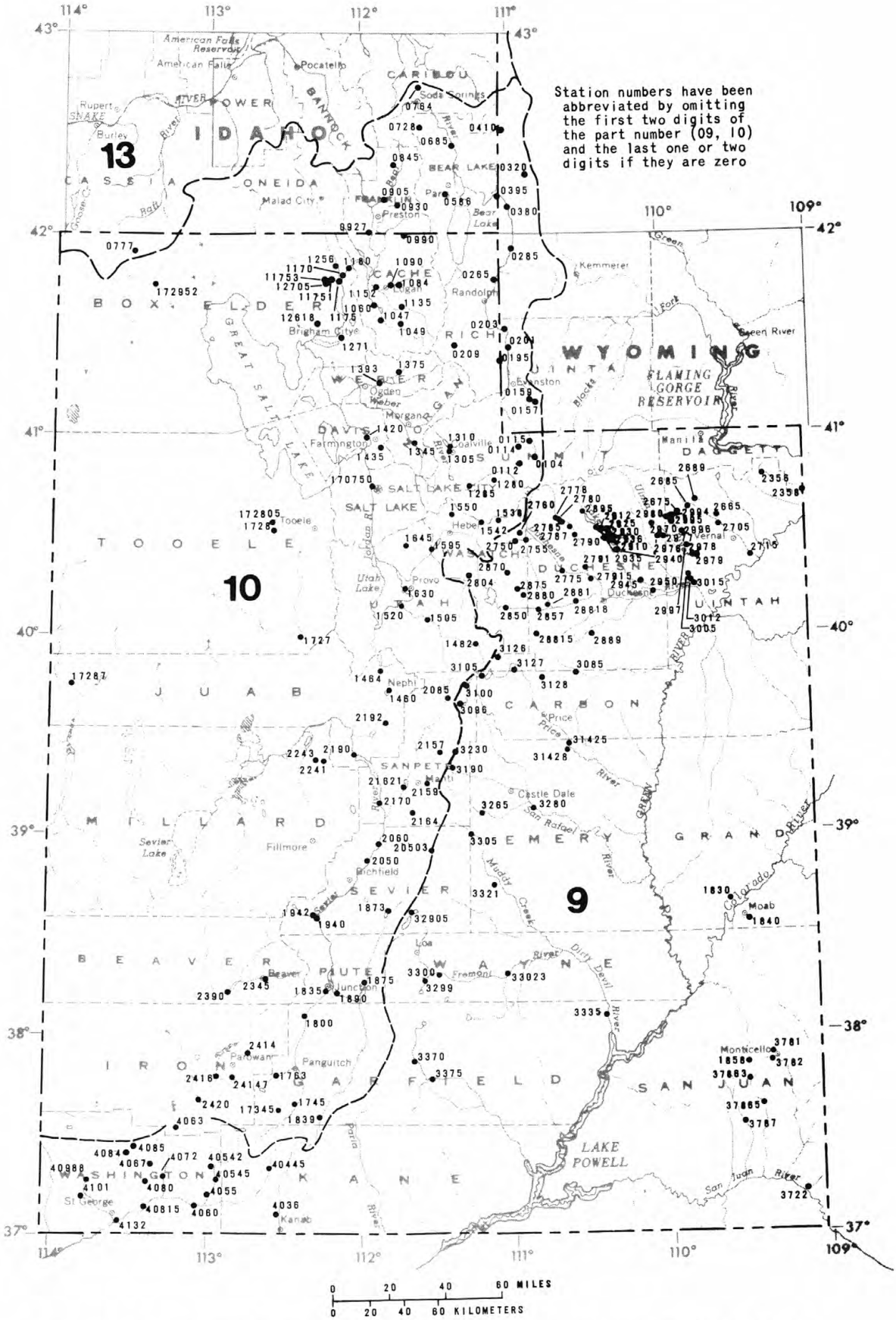

Figure 11.—Location of sites in Utah where data were obtained on the specific conductance of surface water.

Water-quality partial-record stations are particular sites where chemical-quality, biological, and/or sediment data are collected systematically over a period of years for use in hydrologic analyses.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

COLORADO RIVER BASIN

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

09183000 COURTHOUSE WASH NEAR MOAB, UT (LAT 38°36'46", LONG 109°34'45")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
10...	1120	.11	11.5	740
NOV				
15...	0945	.16	.0	270
DEC				
06...	1150	.13	.0	780
JAN , 1980				
03...	0925	.16	.0	800
FEB				
08...	1145	.22	2.0	800
20...	1330	20	7.0	520
MAR				
18...	0930	.46	3.0	640
APR , 1980				
01...	0915	1.2	3.5	860
MAY				
06...	1030	.28	22.0	900
JUN				
04...	1145	.08	20.5	790
JUL				
03...	1300	.01	29.0	940
AUG				
04...	1030	.06	21.0	830
28...	0905	.12	16.5	860

09184000 MILL CREEK NEAR MOAB, UT (LAT 38°33'44", LONG 109°30"48")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
10...	1450	9.3	17.0	260
NOV				
15...	1140	6.3	5.0	800
DEC				
06...	1405	9.8	.0	230
JAN , 1980				
03...	1150	8.0	.0	290
FEB				
08...	0930	5.8	1.0	230
MAR				
18...	1230	5.7	13.0	300
APR				
01...	1230	6.0	8.5	310
MAY , 1980				
06...	1230	44	18.0	175
13...	0200	38	17.0	200
JUN				
04...	0945	58	10.0	165
11...	1340	72	18.0	125
JUL				
03...	0920	44	13.5	130
AUG				
04...	1225	12	24.5	190
28...	1050	12	17.0	110

09185800 INDIAN CREEK TUNNEL NEAR MONTICELLO, UT (LAT 37°50"28", LONG 109°30'17")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
23...	1130	.48	.0	400
MAR , 1980				
19...	1205	.13	1.0	265
APR				
21...	1020	3.3	7.0	285
JUN , 1980				
13...	1035	12	4.5	180
JUL				
17...	1235	3.4	8.5	180
AUG				
11...	0840	1.2	7.5	180

GREEN RIVER BASIN

09235600 POT CREEK ABOVE DIVERSIONS, NEAR VERNAL, UT (LAT 40°46'05", LONG 109°19'06")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
31...	1045	.16	.0	370
MAR , 1980				
20...	--	.00	--	--
MAY				
05...	1355	59	13.0	120
09...	1040	56	5.5	125
MAY , 1980				
16...	1045	31	9.0	250
JUL				
01...	1120	.97	17.5	170
AUG				
01...	--	.00	--	--

09235800 POT CREEK NEAR VERNAL, UT (LAT 40°40'25", LONG 109°03'03")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
31...	--	.00	--	--
MAY , 1980				
05...	1555	35	11.5	175
09...	1330	27	12.5	220
16...	1410	99	16.0	210
JUL , 1980				
01...	1330	.00	--	--
AUG				
01...	--	.00	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GREEN RIVER BASIN

09262000 BIG BRUSH CREEK NEAR VERNAL, UT (LAT 40°34'54", LONG 109°26'03")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
NOV , 1979				
09...	1530	13	7.0	570
DEC				
10...	1252	12	4.5	800
JAN , 1980				
24...	1510	15	3.0	710
MAR				
05...	0855	13	5.0	600
APR				
08...	0930	11	5.0	590
29...	1155	85	8.5	265
MAY				
05...	1510	112	7.0	235
MAY , 1980				
07...	1140	146	7.0	200
22...	1015	215	6.0	170
JUN				
02...	1145	219	5.5	160
10...	0840	258	9.0	90
17...	1020	231	10.0	125
27...	0900	64	10.0	230
AUG				
08...	1415	33	16.0	370
SEP				
12...	1335	22	13.0	500

09266500 ASHLEY CREEK NEAR VERNAL, UT (LAT 40°34'39", LONG 109°37'17")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
24...	1045	16	7.0	215
NOV				
06...	1200	11	8.0	200
DEC				
12...	1600	17	3.0	230
JAN , 1980				
25...	1005	14	6.0	195
MAR				
06...	1030	12	5.0	195
APR				
16...	0930	13	7.5	205
MAY , 1980				
02...	1205	90	9.0	125
19...	1300	192	6.0	100
23...	1600	894	4.5	120
JUN				
10...	1430	642	10.0	52
23...	1545	304	11.0	60
AUG				
13...	1315	105	14.0	125
SEP				
22...	0930	34	8.5	180

09267500 MOSBY CANAL NEAR LAPOINT, UT (LAT 40°36'30", LONG 109°53'00")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
09...	0925	2.6	4.0	50
NOV				
01...	1615	2.6	.5	50
MAY , 1980				
30...	1050	3.8	2.5	50
JUN				
16...	1640	14	11.5	50
JUL , 1980				
14...	1130	19	14.0	50
AUG				
05...	1230	16	17.0	50
SEP				
17...	1000	3.6	8.5	50

09268500 NORTH FORK OF DRY FORK NEAR DRY FORK, UT (LAT 49°38'34", LONG 109°48'37")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
10...	1310	1.5	6.5	50
NOV				
01...	1345	1.0	.5	50
DEC				
07...	0950	.65	.5	50
MAR , 1980				
20...	1035	.75	.0	50
MAY				
08...	0950	15	2.0	50
JUN , 1980				
03...	1200	41	3.0	70
13...	1230	80	5.0	50
26...	1030	44	6.0	50
JUL				
18...	1015	45	7.0	50
AUG				
07...	1000	6.8	8.0	50
SEP				
22...	1600	3.8	6.5	50

09268900 BROWNIE CANYON ABOVE SINKS, NEAR DRY FORK, UT (LAT 40°39'34", LONG 109°45'01")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
10...	1000	2.5	3.0	50
NOV				
01...	1155	2.0	.0	50
DEC				
07...	1150	1.9	.5	50
MAR , 1980				
20...	0830	1.1	.0	50
MAY				
08...	1315	35	2.0	50
JUN , 1980				
03...	0930	58	2.0	80
13...	1515	131	7.0	50
26...	1300	65	6.0	50
JUL				
18...	1400	21	11.0	50
AUG				
07...	1215	10	9.0	50
SEP				
22...	1330	5.4	5.0	50

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GREEN RIVER BASIN

09270500 DRY FORK AT MOUTH, NEAR DRY FORK, UT (LAT 40°31'35", LONG 109°36'18")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
10...	1545	.92	17.5	820
NOV				
06...	1405	2.3	7.0	900
DEC				
07...	1540	1.9	.0	900
JAN , 1980				
25...	1235	1.5	.5	1000
MAR				
06...	1450	2.8	5.5	980
APR				
16...	1120	1.1	11.5	990
MAY , 1980				
19...	1500	20	15.0	345
JUN				
03...	1445	133	11.0	210
10...	1730	590	11.0	85
JUL				
03...	1425	230	16.0	120
15...	1030	75	11.0	240
AUG				
05...	0915	5.6	14.5	560
SEP				
16...	0910	2.8	13.0	750

09271500 ASHLEY CREEK NEAR JENSEN, UT (LAT 40°22'29", LONG 109°24'27")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
23...	1235	14	7.5	2500
NOV				
16...	1400	18	3.0	2400
DEC				
03...	1050	18	.5	2600
JAN , 1980				
24...	0925	20	.5	2180
MAR				
11...	1245	40	6.0	2000
APR				
16...	1600	21	15.0	2240
MAY , 1980				
20...	1425	13	20.0	2760
JUN				
04...	1030	300	10.0	450
11...	0955	1400	9.5	345
17...	1245	495	15.0	370
AUG				
20...	1300	7.7	19.0	2890
SEP				
16...	1530	38	18.5	2000
18...	1700	28	18.0	2200

09275000 WEST FORK DUCHESNE RIVER BELOW DRY HOLLOW NEAR HANNA, UT (LAT 40°26'55", LONG 110°58'30")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
02...	1525	10	11.5	265
NOV				
06...	1220	12	.5	325
27...	1030	9.2	.0	435
JAN , 1980				
09...	1110	7.7	.0	410
MAR				
13...	1130	13	.0	385
APR				
10...	1040	10	2.0	370
JUN , 1980				
03...	1235	236	10.0	255
11...	1855	480	9.5	225
JUL				
09...	1310	69	12.0	320
AUG				
12...	1010	18	9.5	380
SEP				
17...	1200	13	7.5	380

09275500 WEST FORK DUCHESNE RIVER NEAR HANNA, UT (LAT 40°27'01", LONG 110°53'01")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
03...	1330	14	10.5	300
NOV				
27...	1415	19	.0	455
JAN , 1980				
09...	1535	10	.0	490
MAR				
13...	1200	19	.0	495
APR				
10...	1140	15	4.5	435
JUN , 1980				
03...	1640	289	10.5	290
11...	1515	356	12.0	285
JUL				
09...	1530	91	7.0	450
AUG				
12...	1525	33	17.0	410

09276000 WOLF CREEK ABOVE RHOADES CANYON, NEAR HANNA, UT (LAT 40°28'16", LONG 110°55'05")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
03...	1210	3.8	10.0	275
NOV				
06...	1320	3.3	4.0	180
27...	1225	2.9	.0	330
JAN , 1980				
09...	1300	2.8	2.5	300
MAR				
13...	1420	2.7	5.0	285
APR				
10...	1310	2.8	6.5	280
JUN , 1980				
03...	1445	19	9.0	230
11...	2030	56	7.0	180
JUL				
09...	1100	14	8.5	255
AUG				
12...	1210	8.0	9.0	300
SEP				
17...	1335	5.7	9.5	280

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GREEN RIVER BASIN

09277500 DUCHESNE RIVER NEAR TABIONA, UT (LAT 40°18'01", LONG 110°36'06")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
30...	1430	91	7.0	560
NOV				
29...	1125	104	2.0	580
JAN , 1980				
07...	1630	82	3.0	480
FEB				
14...	1300	87	2.5	510
MAR				
10...	1610	72	5.0	530
APR				
21...	1530	223	8.0	400
MAY , 1980				
20...	1400	631	10.5	245
JUN				
02...	1920	816	8.0	220
12...	1535	1760	8.0	130
JUL				
07...	1810	256	14.0	400
AUG				
11...	1430	88	17.0	570
SEP				
15...	1700	138	16.0	590

09277800 ROCK CREEK ABOVE SOUTH FORK, NEAR HANNA, UT (LAT 40°33'27", LONG 110°41'50")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
31...	0845	9.8	.0	55
NOV				
28...	1500	26	.0	50
JAN , 1980				
08...	1340	18	.0	49
APR				
24...	1315	84	4.0	40
JUN				
04...	1315	514	6.0	31
JUN , 1980				
11...	1540	1330	7.0	22
JUL				
08...	1025	386	9.0	18
AUG				
13...	1030	64	11.0	27
SEP				
16...	1025	51	7.0	31

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, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
31...	1100	.91	.0	235
NOV				
28...	1300	4.2	.0	230
JAN , 1980				
08...	1445	2.7	.0	240
MAR				
21...	1320	2.4	.5	235
APR				
24...	1420	7.1	1.0	175
JUN , 1980				
04...	1450	47	7.0	135
11...	1655	108	7.0	120
JUL				
08...	1350	42	7.5	130
AUG				
13...	1310	11	10.5	165
SEP				
16...	1145	8.4	6.5	195

09278500 ROCK CREEK NEAR HANNA, UT (LAT 40°32'44", LONG 110°39'20")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
31...	1300	24	1.5	70
NOV				
28...	1030	23	.0	85
JAN , 1980				
08...	1735	20	.0	73
MAR				
11...	1100	24	.5	72
APR				
24...	1715	102	4.0	52
JUN , 1980				
04...	1745	581	7.5	33
11...	1725	1680	8.0	29
JUL				
08...	1640	378	11.0	38
AUG				
13...	1515	80	14.5	150
SEP				
16...	1335	67	12.0	62

09278700 ROCK CREEK BELOW MINERS GULCH, NEAR HANNA, UT (LAT 40°31'57", LONG 110°37'22")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
31...	1550	21	1.5	85
NOV				
28...	1250	25	.0	90
MAR , 1980				
11...	1330	21	.5	86
APR				
23...	1415	126	2.0	55
JUN				
05...	1300	627	6.0	38
JUN , 1980				
12...	1910	1530	7.5	28
JUL				
08...	1850	391	11.5	40
AUG				
14...	1420	86	15.5	61
SEP				
16...	1720	65	12.0	66

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GREEN RIVER BASIN

09279000 ROCK CREEK NEAR MOUNTAIN HOME, UT (LAT 40°29'36", LONG 110°34'39")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
31...	1740	40	2.5	140
JAN , 1980				
08...	1130	32	.5	160
MAR				
11...	1630	40	2.5	150
APR				
23...	1800	162	4.0	41
JUN				
05...	1630	674	7.5	44
JUN , 1980				
12...	1520	1450	9.0	37
JUL				
10...	1800	374	16.0	48
AUG				
14...	1745	98	17.0	95
SEP				
18...	1235	80	9.5	105

09279100 ROCK CREEK NEAR TALMAGE, UT (LAT 40°18'40", LONG 110°29'36")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
30...	1315	48	5.0	240
NOV				
30...	1115	37	.0	375
JAN , 1980				
10...	1730	54	.0	240
FEB				
15...	0935	55	.0	280
MAR				
12...	1210	64	1.0	320
APR				
23...	1045	207	7.0	205
MAY , 1980				
20...	1710	264	16.0	125
JUN				
05...	1945	675	10.5	68
12...	1310	1530	9.0	70
JUL				
10...	1220	417	16.0	82
AUG				
14...	0930	98	15.0	160
SEP				
18...	1415	85	14.5	190

09279150 DUCHESNE RIVER ABOVE KNIGHT DIVERSION, NEAR DUCHESNE, UT (LAT 40°16'14", LONG 110°26'31")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
NOV , 1979				
02...	1135	155	3.5	490
28...	1600	168	.0	270
JAN , 1980				
11...	1030	111	.0	400
FEB				
14...	1550	140	.0	435
MAR				
10...	1820	142	5.0	465
APR				
21...	1800	328	8.5	350
MAY , 1980				
20...	1700	896	15.0	22
JUN				
06...	1045	1910	7.5	140
12...	1035	3280	7.5	135
JUL				
10...	0930	619	13.5	215
AUG				
15...	0920	162	15.0	380
SEP				
18...	1735	222	14.0	190

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, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
11...	1430	.09	11.0	205
NOV				
09...	1300	.12	1.0	220
26...	1525	.46	.0	235
JAN , 1980				
07...	1307	.19	.0	570
APR				
25...	1030	5.1	1.0	115
JUN , 1980				
02...	1530	31	4.5	61
12...	1830	70	6.0	61
JUL				
07...	1420	2.7	13.0	105
AUG				
11...	1100	.17	12.0	170
SEP				
15...	1315	.15	11.5	215

09285000 STRAWBERRY RIVER NEAR SOLDIER SPRINGS, UT (LAT 40°08'00", LONG 111°01'27")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
19...	1325	7.4	7.0	475
DEC				
04...	1515	7.1	4.0	445
MAY , 1980				
19...	1535	3.7	8.0	450
JUL , 1980				
11...	1350	7.4	9.5	460
AUG				
04...	1510	26	7.0	450

09285700 STRAWBERRY RIVER ABOVE RED CREEK, NEAR FRUITLAND, UT (LAT 40°07'01", LONG 110°48'27")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
17...	1325	33	9.0	590
NOV				
27...	1140	21	.5	630
JAN , 1980				
08...	1210	27	2.5	630
MAR				
11...	1400	26	5.0	660
APR				
30...	1735	101	9.0	600
MAY , 1980				
20...	1540	193	14.0	590
JUN				
05...	1040	200	7.0	580
JUL				
08...	1350	77	13.0	610
AUG				
06...	1410	64	16.0	590
SEP				
08...	1505	43	14.5	600

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GREEN RIVER BASIN

09287000 CURRANT CREEK BELOW RED LEDGE HOLLOW, NEAR FRUITLAND, UT (LAT 40°19'27", LONG 111°02'43")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979					MAY , 1980				
16...	1815	7.8	10.0	540	19...	1720	265	11.0	285
NOV					JUN				
26...	1630	9.8	.0	500	02...	1650	185	10.0	285
JAN , 1980					JUL				
11...	1120	11	.0	510	07...	1540	41	13.5	355
MAR					AUG				
10...	1550	11	3.0	500	04...	1810	14	17.5	425
APR					SEP				
21...	1345	75	3.0	370	07...	1720	14	14.0	460

09287500 WATER HOLLOW NEAR FRUITLAND, UT (LAT 40°14'30", LONG 110°58'48")

OCT , 1979					JUN , 1980				
16...	1705	.39	11.0	600	02...	1450	3.6	13.0	540
NOV					JUL				
26...	1430	.60	.0	580	07...	1420	2.2	16.0	610
JAN , 1980					AUG				
07...	1710	.45	.0	650	04...	1705	1.3	20.0	600
MAR					SEP				
10...	1350	.47	.5	650	07...	1640	1.3	14.5	580
APR									
21...	1610	3.5	5.0	480					

09288000 CURRANT CREEK NEAR FRUITLAND, UT (LAT 40°12'01", LONG 110°54'25")

OCT , 1979					MAY , 1980				
18...	1115	24	9.0	500	23...	1000	500	7.0	300
NOV					JUN				
30...	1455	25	1.0	550	06...	1020	262	7.0	295
JAN , 1980					JUL				
09...	1640	28	.0	485	11...	1130	60	15.0	425
FEB					AUG				
15...	1320	30	.5	435	08...	1400	45	19.0	450
MAR					SEP				
10...	1830	32	4.5	510	07...	1440	37	13.5	465
APR									
21...	1815	120	5.5	400					

09288100 RED CREEK BELOW CURRANT CREEK, NEAR FRUITLAND, UT (LAT 40°08'47", LONG 110°45'09")

OCT , 1979					MAY , 1980				
17...	1115	24	7.0	570	20...	1120	409	10.0	360
NOV					JUN				
27...	0945	7.6	.0	600	03...	1700	307	14.0	395
JAN , 1980					JUL				
08...	1000	31	.0	620	08...	1140	67	17.0	520
MAR					AUG				
11...	1605	32	5.0	720	06...	1230	45	19.0	540
APR					SEP				
30...	1050	311	5.0	435	08...	1405	52	16.0	600

09288150 WEST FORK AVINTAQUIN CREEK NEAR FRUITLAND, UT (LAT 39°59'35", LONG 110°48'51")

OCT , 1979					JUN , 1980				
17...	1655	2.8	9.5	600	05...	1430	97	13.0	485
NOV					13...	1500	70	14.0	520
27...	1450	1.9	1.0	610	JUL				
JAN , 1980					08...	1620	19	14.5	540
08...	1435	1.7	4.5	690	AUG				
MAR					06...	1700	6.5	19.0	550
11...	1050	4.1	5.5	750	SEP				
APR					08...	1735	8.8	14.0	400
30...	1420	88	7.0	530					
MAY									
20...	1815	133	13.5	500					

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GREEN RIVER BASIN

09288180 STRAWBERRY RIVER NEAR DUCHESNE, UT (LAT 40°09'17", LONG 110°33'15")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
18...	1425	70	9.5	790
NOV				
27...	1715	49	.0	820
JAN , 1980				
08...	1720	72	.0	810
MAR				
11...	1835	82	5.0	980
APR				
25...	1405	397	11.0	610
MAY , 1980				
22...	1315	1080	11.0	520
JUN				
03...	1600	688	12.0	520
JUL				
10...	1600	171	21.0	690
AUG				
05...	1535	102	21.5	750
SEP				
10...	1150	165	13.0	720

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, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
10...	1245	31	8.0	50
NOV				
02...	1125	28	.5	50
28...	1235	19	.5	50
APR , 1980				
17...	0815	22	.5	50
MAY , 1980				
19...	1100	84	4.0	50
JUN				
10...	1535	862	7.0	50
18...	1550	783	7.5	50
AUG				
15...	1015	71	10.0	50

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, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
10...	--	.00	--	--
NOV				
02...	--	.00	--	--
28...	--	.00	--	--
APR , 1980				
17...	--	.00	--	--
MAY				
19...	1530	279	4.5	50
JUN , 1980				
10...	1150	168	8.5	50
JUL				
23...	--	299	--	50
AUG				
14...	1800	336	10.5	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, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
11...	1120	9.6	10.5	310
NOV				
01...	1525	8.6	2.0	350
DEC				
04...	1525	9.6	.5	355
JAN , 1980				
03...	1300	8.6	1.0	355
MAR				
24...	--	10	--	355
APR				
17...	1240	10	12.0	355
MAY , 1980				
14...	1145	60	7.5	110
JUN				
19...	0755	62	9.0	115
JUL				
25...	1505	252	17.5	50
AUG				
14...	1400	275	16.5	50
SEP				
18...	1210	49	12.0	110

09292500 YELLOWSTONE RIVER NEAR ALTONAH, UT (LAT 40°30'43", LONG 110°20'27")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
11...	1425	55	12.5	80
NOV				
01...	1335	52	2.5	90
DEC				
04...	1305	56	.0	155
JAN , 1980				
03...	1025	37	.5	135
MAR				
24...	1150	38	3.5	245
APR				
12...	1100	45	6.5	155
MAY , 1980				
14...	0930	102	5.0	90
28...	1120	193	7.0	62
JUN				
11...	0940	1310	5.0	50
19...	1025	998	8.5	50
JUL				
25...	1120	150	13.5	62
AUG				
14...	1550	128	16.5	65
SEP				
18...	1030	98	8.5	72

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GREEN RIVER BASIN

09293000 YELLOWSTONE RIVER NEAR MOUNTAIN HOME, UT (LAT 40°26'39", LONG 110°21'49")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
10...	1600	62	13.0	90
NOV				
01...	1120	58	1.0	105
DEC				
06...	1425	64	.5	135
JAN , 1980				
16...	0910	43	.5	135
MAR				
13...	1300	54	.5	130
APR				
17...	1330	49	10.0	160
MAY				
14...	1315	86	9.0	120
MAY , 1980				
28...	1315	172	11.0	72
JUN				
11...	1235	1050	9.0	50
19...	1300	808	11.0	50
JUL				
18...	1800	52	18.5	59
31...	1030	10	16.0	50
AUG				
14...	1155	14	17.0	65
SEP				
18...	1330	17	14.0	90

09293500 LAKE FORK RIVER NEAR ALTONAH, UT (LAT 40°26'13", LONG 110°21'49")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
11...	0920	36	7.5	110
NOV				
01...	0930	57	.5	145
DEC				
06...	1155	64	.5	150
JAN , 1980				
16...	1350	62	.5	275
MAR				
13...	1050	44	.5	225
APR				
17...	1400	27	11.0	215
MAY , 1980				
14...	1325	74	10.0	120
28...	1445	145	13.0	80
JUN				
11...	1540	890	11.0	50
19...	1305	629	12.5	50
JUL				
28...	1335	216	16.5	50
AUG				
14...	1050	205	14.0	50
SEP				
18...	1430	24	16.0	110

09293600 LAKE FORK RIVER NEAR ALTAMONT, UT (LAT 40°21'28", LONG 110°18'46")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
04...	1140	13	12.5	195
NOV				
02...	1610	2.1	5.0	590
DEC				
10...	1545	5.3	1.0	410
JAN , 1980				
18...	1420	49	.5	210
MAR				
13...	1735	6.6	3.0	450
APR				
21...	1040	3.6	10.5	465
MAY , 1980				
15...	1320	7.9	13.0	395
JUN				
17...	1030	195	9.0	60
25...	1015	702	10.5	50
JUL				
18...	1015	34	15.0	77
AUG				
14...	0910	31	14.0	85
SEP				
18...	1545	3.8	19.0	240

09294000 LAKE FORK RIVER NEAR UPALCO, UT (LAT 40°15'30, LONG 110°13'18")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
04...	1245	.10	16.5	760
DEC				
10...	1355	14	.5	740
JAN , 1980				
18...	1145	50	.5	380
MAR				
06...	1445	52	3.0	570
APR				
16...	1400	.59	17.0	1110
MAY , 1980				
15...	1155	1.2	16.0	120
JUN				
02...	1425	1.7	18.0	120
17...	1220	151	14.0	115
25...	1245	635	14.5	70
JUL				
18...	0850	1.5	24.0	330
SEP				
16...	1130	1.0	17.0	740

09294500 LAKE FORK RIVER NEAR MYTON, UT (LAT 40°12'32", LONG 110°06'59")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
NOV , 1979				
16...	1115	6.1	1.0	3010
DEC				
10...	1200	11	.5	1680
JAN , 1980				
11...	1535	55	.5	650
MAR				
06...	1235	71	3.0	1210
APR				
16...	1135	9.4	10.5	2130
MAY				
15...	1020	43	13.0	1870
JUN , 1980				
02...	1235	37	14.0	1460
17...	1400	202	17.0	425
25...	1405	591	16.0	195
JUL				
28...	1105	37	20.0	1300
AUG				
08...	1125	20	21.0	1450
SEP				
16...	1030	23	14.5	1650

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GREEN RIVER BASIN

09295000 DUCHESNE RIVER AT MYTON, UT (LAT 40°12'01", LONG 110°03'47")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
NOV , 1979				
16...	1005	203	1.0	950
DEC				
05...	1310	237	.5	910
JAN , 1980				
11...	1230	108	.5	990
MAR				
06...	1040	172	3.5	1330
APR				
16...	1000	27	10.5	2600
MAY				
15...	0835	134	12.5	1310
JUN , 1980				
02...	1100	518	12.5	710
12...	1435	3200	13.5	240
23...	1440	2990	--	255
JUL				
28...	0950	64	20.5	1450
AUG				
08...	1000	42	21.0	1460
SEP				
16...	0920	205	19.5	2830

09297000 UINTA RIVER NEAR NEOLA, UT (LAT 40°32'08", LONG 110°03'46")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
NOV , 1979				
05...	1010	71	2.0	50
DEC				
04...	1345	69	1.0	55
JAN , 1980				
03...	1300	43	.5	66
MAR				
12...	1355	52	2.5	60
APR				
21...	1145	106	6.0	58
MAY				
21...	1245	231	10.5	155
JUN , 1980				
12...	1230	1300	8.0	50
16...	1250	696	8.0	50
JUL				
23...	0855	254	12.5	50
AUG				
19...	1000	164	9.5	50
SEP				
03...	1330	151	11.5	50

09297600 WEST CHANNEL UINTAH RIVER BELOW DIVERSION WORKS NEAR WHITEROCKS, UT (LAT 40°27'39", LONG 109°57'00")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
03...	1055	33	12.0	50
NOV				
05...	0955	10	2.5	55
DEC				
11...	1300	2.6	.5	65
JAN , 1980				
15...	1415	10	2.0	58
MAR				
11...	0925	18	1.0	80
APR				
21...	1325	16	12.0	70
MAY , 1980				
09...	1000	65	9.5	64
JUN				
04...	1325	147	13.0	50
13...	1120	287	9.0	50
JUL				
21...	1330	96	18.5	55
AUG				
05...	0945	72	14.5	50

09297700 EAST CHANNEL UINTAH RIVER BELOW DIVERSION WORKS NEAR WHITEROCKS, UT (LAT 40°28'19", LONG 109°57'18")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
03...	0900	1.7	10.0	50
NOV				
05...	1120	54	4.0	60
DEC				
11...	1145	41	.5	70
JAN , 1980				
15...	0920	36	.5	75
MAR				
11...	1310	12	4.0	75
APR				
21...	1430	.61	12.0	75
MAY , 1980				
09...	1135	4.9	10.5	62
JUN				
04...	1515	30	13.5	50
13...	1350	252	11.0	50
JUL				
21...	1130	15	16.0	62
SEP				
03...	1105	.89	14.5	50

09297800 EAST CHANNEL UINTAH RIVER AT HIGHWAY 121 NEAR WHITEROCKS, UT (LAT 40°27'18", LONG 109°56'09")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
09...	1215	10	12.0	405
NOV				
05...	1450	59	6.0	120
DEC				
04...	1600	51	.5	125
JAN , 1980				
03...	1500	26	.5	150
FEB				
20...	1715	61	.5	125
MAR				
12...	1130	13	3.0	210
APR , 1980				
21...	1430	4.5	12.5	365
MAY				
09...	1320	16	13.0	300
JUN				
09...	1830	628	14.0	65
JUL				
03...	1240	68	16.5	200
AUG				
05...	1315	22	18.0	250
SEP				
17...	1230	22	14.5	280

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GREEN RIVER BASIN

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979					MAY , 1980				
02...	1410	1.9	17.0	205	09...	1455	47	12.0	150
NOV					JUN				
05...	1330	56	4.5	150	04...	1115	154	12.0	120
DEC					09...	2000	764	14.0	50
11...	1545	51	.0	190	JUL				
JAN , 1980					03...	1045	113	15.0	110
04...	1151	41	.5	170	AUG				
MAR					05...	1415	13	22.0	155
05...	1515	43	4.5	220	SEP				
APR					17...	1200	11	15.0	190
18...	1445	1.6	17.0	265					

09298000 FARM CREEK NEAR WHITEROCKS, UT (LAT 40°34'03", LONG 109°57'39")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979					MAY , 1980				
09...	1710	2.7	8.0	330	21...	1020	28	5.0	50
NOV					JUN				
05...	1255	2.6	7.0	335	16...	1425	44	9.0	150
DEC					JUL				
04...	1030	2.5	2.5	335	23...	1400	5.3	12.5	300
JAN , 1980					AUG				
03...	0955	2.4	1.0	360	19...	1345	3.8	9.5	340
APR					SEP				
21...	0955	3.8	7.0	360	03...	1500	3.5	13.0	350

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, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979					MAY , 1980				
25...	1050	54	3.0	55	07...	1235	233	6.0	60
NOV					28...	1020	234	5.0	65
14...	1040	25	.5	60	JUL				
DEC					07...	1445	279	12.0	50
05...	1135	33	.5	70	AUG				
JAN , 1980					27...	1010	122	9.5	50
02...	1035	23	.5	80	SEP				
APR					23...	1055	58	7.0	50
24...	1305	60	5.0	63					

09299500 WHITEROCKS RIVER NEAR WHITEROCKS, UT (LAT 40°33'54", LONG 109°55'37")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979					APR , 1980				
25...	1355	49	6.0	65	24...	1530	62	7.0	80
NOV					MAY				
14...	1310	41	.5	75	28...	1230	241	7.5	90
DEC					JUN				
05...	1415	34	.5	55	12...	1450	1100	8.0	50
JAN , 1980					JUL				
02...	1310	24	.5	95	30...	1500	138	16.5	50
MAR					SEP				
13...	0930	10	.0	140	23...	1330	59	10.0	68

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, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979					MAY , 1980				
25...	1555	45	7.5	60	07...	1030	200	6.0	60
NOV					28...	1410	196	10.0	90
14...	1435	38	2.0	84	JUN				
DEC					19...	1130	754	9.5	50
06...	1000	32	.5	100	25...	1810	386	14.5	50
JAN , 1980					JUL				
08...	1000	21	.5	105	30...	1250	84	16.5	60
MAR					AUG				
12...	1000	23	.0	130	22...	1330	103	14.5	70
APR					SEP				
25...	1005	32	6.5	79	23...	1450	24	12.0	62

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GREEN RIVER BASIN

09299700 WHITEROCKS RIVER AT WHITEROCKS, UT (LAT 40°28'02", LONG 109°54'48")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
26...	1320	.56	12.0	68
NOV				
14...	1600	.21	3.5	85
DEC				
06...	1200	14	.5	90
JAN , 1980				
08...	1245	4.0	.5	105
MAR				
12...	1135	11	3.0	110
APR , 1980				
25...	1200	25	11.0	89
MAY				
07...	1510	65	12.0	68
JUN				
09...	1710	627	13.0	50
25...	1920	299	16.5	50
JUL				
31...	1210	52	17.0	55

09300500 UINTAH RIVER AT FORT DUCHESNE, UT (LAT 40°18'07", LONG 109°51'09")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
01...	1545	4.7	19.5	1030
NOV				
05...	1505	5.2	7.0	1420
DEC				
05...	1540	15	.5	710
JAN , 1980				
04...	1445	11	.5	840
18...	1630	39	.5	480
MAR				
03...	1210	84	3.0	380
APR				
18...	1230	6.6	14.5	1100
MAY , 1980				
08...	1350	39	17.5	1280
JUN				
09...	1340	1100	16.0	195
11...	1520	2590	15.0	200
JUL				
09...	1220	13	24.0	860
AUG				
07...	1305	12	23.5	790
SEP				
11...	1430	29	19.0	890

09301200 DRY GULCH NEAR FORT DUCHESNE, UT (LAT 40°14'20", LONG 109°51'06")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
01...	1400	28	17.5	2350
DEC				
17...	1325	14	.5	3910
JAN , 1980				
08...	1040	19	1.5	3920
MAR				
03...	1435	71	4.0	2350
APR				
15...	1255	16	15.0	3750
MAY				
08...	1130	48	16.0	3250
JUN , 1980				
06...	1320	79	19.0	1670
JUL				
22...	1250	44	23.0	2040
AUG				
07...	1145	24	21.5	2450
SEP				
10...	1610	268	17.0	2260
11...	1250	183	16.5	2110

09301500 UINTAH RIVER AT RANDLETT, UT (LAT 40°14'01", LONG 109°48'11")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
01...	1120	26	15.0	2500
DEC				
17...	1130	28	.5	2740
JAN , 1980				
08...	1350	29	.5	2940
MAR				
05...	1330	152	5.5	1480
APR				
15...	1130	34	12.0	2680
18...	1055	20	13.0	3430
MAY , 1980				
08...	1000	40	15.0	2680
JUN				
09...	1130	1080	13.5	385
12...	1145	2490	13.0	2110
JUL				
22...	1120	43	22.0	1860
AUG				
07...	1025	27	22.5	2240
SEP				
17...	1025	54	14.0	1860

09308500 MINNIE MAUD CREEK NEAR MYTON, UT (LAT 39°48'10", LONG 110°35'00")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
17...	1210	1.4	8.5	720
NOV				
19...	1305	1.6	.0	820
DEC				
12...	1215	.82	.0	880
FEB , 1980				
06...	1300	.46	.0	930
APR				
11...	1300	.91	3.5	700
MAY , 1980				
30...	1313	52	12.5	600
JUN				
20...	0940	16	10.0	720
JUL				
16...	1040	7.6	14.5	550
AUG				
15...	1030	3.9	13.0	700

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GREEN RIVER BASIN

09309600 FAIRVIEW TUNNEL NEAR FAIRVIEW UT (LAT 39°40'03", LONG 111°18'41")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
JUN , 1980				
24...	1015	12	9.0	300
JUL				
15...	1405	10	9.5	280
AUG , 1980				
04...	1630	19	19.0	270
SEP				
17...	1325	.13	14.0	280

09310000 GOOSEBERRY CREEK NEAR SCOFIELD, UT (LAT 39°42'57", LONG 111°17'58")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
NOV , 1979				
14...	1100	2.9	3.0	170
JUN , 1980				
13...	1100	150	10.0	250
JUL				
15...	1540	27	10.5	220
AUG , 1980				
04...	1515	7.2	14.0	230
SEP				
17...	1500	8.1	13.5	240

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, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
18...	1440	8.0	8.0	300
NOV				
15...	1420	.60	2.5	490
DEC				
13...	1030	11	.0	380
FEB , 1980				
06...	0925	10	.0	390
APR				
24...	1500	83	7.0	330
MAY				
28...	1155	410	6.0	330
MAY , 1980				
29...	1530	468	11.0	300
JUN				
19...	1015	227	12.5	330
JUL				
15...	1500	39	21.0	315
15...	1545	39	18.7	330
AUG				
14...	1550	18	18.0	310
20...	1020	13	8.4	330

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, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
18...	1230	3.9	8.0	600
NOV				
20...	1005	5.1	.0	500
DEC				
13...	1230	2.7	.0	670
JAN , 1980				
15...	1400	7.5	.0	500
FEB				
12...	1150	5.1	.0	570
MAR				
11...	1150	6.0	.0	570
APR , 1980				
17...	0950	66	1.0	510
MAY				
29...	1245	183	8.5	510
JUN				
19...	1255	54	16.5	520
JUL				
15...	1310	21	17.5	540
AUG				
14...	1415	8.1	18.5	540

09312700 BEAVER CREEK NEAR SOLDIER SUMMIT, UT (LAT 39°49'50", LONG 110°58'07")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
18...	1145	.11	8.0	540
NOV				
20...	1115	.14	.0	570
DEC				
13...	1120	.13	.0	600
JAN , 1980				
15...	1230	.07	.0	490
FEB				
12...	1335	.05	.0	500
MAR				
11...	1105	.06	1.0	510
APR , 1980				
17...	1140	.69	9.0	500
MAY				
29...	1130	62	10.0	335
JUN				
19...	1345	17	16.5	310
JUL				
15...	1205	3.5	17.5	445
AUG				
14...	1225	.25	16.0	550

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GREEN RIVER BASIN

09312800 WILLOW CREEK NEAR CASTLE GATE, UT (LAT 39°46'37", LONG 110°47'30")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979					APR , 1980				
18...	0945	2.0	5.0	1000	17...	1340	26	7.0	840
NOV					MAY				
20...	1240	1.2	.0	950	29...	0905	73	8.0	600
DEC					JUN				
13...	0930	.13	.0	1090	19...	1550	25	23.5	880
JAN , 1980					JUL				
15...	1140	1.2	.0	1000	15...	0950	10	12.5	400
FEB					AUG				
12...	1440	1.6	.(	1030	14...	1100	4.4	16.0	1000
MAR									
11...	1245	3.9	.5	960					

09314250 PRICE RIVER BELOW MILLER CREEK, NEAR WELLINGTON, UT (LAT 39°26'59", LONG 110°37'08")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979					APR , 1980				
19...	1050	21	12.5	3500	16...	1150	269	9.0	1330
NOV					MAY				
21...	0950	8.2	.0	3500	28...	1230	705	12.0	820
DEC					JUN				
14...	1000	21	.0	3530	18...	1330	509	18.5	840
JAN , 1980					JUL				
16...	1400	53	.0	2390	14...	1200	59	23.0	2500
MAR					AUG				
10...	1245	79	7.0	4070	13...	1300	39	24.5	2620

09314280 DESERT SEEP WASH NEAR WELLINGTON, UT (LAT 39°25'16", LONG 110°38'44")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979					MAY , 1980				
17...	1510	19	11.5	3500	28...	1640	37	17.5	3000
NOV					JUN				
19...	1545	20	1.5	5500	18...	1745	52	22.0	2290
DEC					JUL				
12...	1500	14	.0	5200	14...	1400	32	30.0	2930
FEB , 1980					AUG				
06...	1345	9.1	.0	7150	13...	1410	7.7	25.5	4490
APR									
02...	1540	24	8.0	3420					
16...	1410	11	16.0	5190					

09319000 EPHRAIM TUNNEL NEAR EPHRAIM, UT (LAT 39°19'47", LONG 111°25'51")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
JUN , 1980					AUG , 1980				
24...	1535	15	9.0	310	07...	1415	4.1	8.5	390
JUL					SEP				
11...	1230	17	6.5	320	08...	1030	1.8	5.5	340

09323000 SPRING CITY TUNNEL NEAR SPRING CITY, UT (LAT 39°25'34", LONG 111°21'51")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
JUN , 1980					AUG , 1980				
20...	1005	5.6	3.5	270	04...	1140	2.1	9.0	345
JUL					SEP				
15...	1125	6.3	6.0	280	17...	1450	1.7	7.5	320

09326500 FERRON CREEK (UPPER STATION) NEAR FERRON, UT (LAT 39°06'15", LONG 111°12'47")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979					APR , 1980				
19...	0920	14	8.0	530	17...	1425	30	11.0	470
NOV					MAY				
20...	1500	15	.0	530	29...	1620	303	11.5	385
DEC					JUN				
13...	1320	9.6	.0	690	19...	1205	583	9.0	350
JAN , 1980					JUL				
14...	1500	18	.0	490	15...	1530	140	17.0	470
FEB					AUG				
13...	1140	17	.0	540	14...	1630	82	17.5	440
MAR					SEP				
11...	1305	12	2.5	580	23...	1100	24	16.5	480

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GREEN RIVER BASIN

09328000 SAN RAFAEL RIVER NEAR CASTLE DALE, UT (LAT 39°08'37", LONG 111°53'50")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
17...	1010	50	10.0	3520
DEC				
12...	1410	30	.0	4350
FEB , 1980				
06...	1405	33	.0	3610
APR				
02...	1220	40	7.5	4220
16...	1420	54	14.5	2920
MAY , 1980				
28...	1430	315	15.5	1580
JUN				
18...	1500	1620	18.0	660
JUL				
14...	1330	152	21.0	2200
SEP				
22...	1330	72	15.0	3060

DIRTY DEVIL RIVER BASIN

09329050 SEVEN MILE CREEK NEAR FISH LAKE, UT (LAT 38°37'40", LONG 111°38'50")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
JAN , 1980				
23...	1310	7.5	.5	160
MAY				
21...	1530	82	4.0	105
JUN , 1980				
26...	1110	24	7.0	130
SEP				
04...	1440	9.4	--	120

09329900 PINE CREEK NEAR BICKNELL, UT (LAT 38°16'10", LONG 111°35'00")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
10...	1140	4.5	7.0	130
31...	1400	7.7	.5	130
DEC				
18...	0930	4.5	.5	120
FEB , 1980				
04...	1335	4.1	.5	145
APR , 1980				
16...	0810	3.1	1.0	120
MAY				
13...	1630	3.5	5.0	125
JUN				
26...	0800	3.3	10.0	135

09330000 FREMONT RIVER NEAR BICKNELL, UT (LAT 38°18'25", LONG 111°31'03")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
09...	1610	54	15.0	480
NOV				
01...	1045	50	1.0	520
DEC				
17...	1535	70	2.0	465
FEB , 1980				
04...	1245	68	3.0	470
APR , 1980				
16...	1030	65	--	520
MAY				
13...	1540	63	14.0	520
JUN				
25...	1515	45	22.0	465

09330230 FREMONT RIVER NEAR CAINEVILLE, UT (LAT 38°16'40", LONG 111°04'00")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
NOV , 1979				
01...	0915	57	1.0	860
DEC				
17...	1400	97	--	920
FEB				
04...	1500	93	2.0	580
APR , 1980				
09...	1130	79	5.0	560
MAY				
13...	1300	45	14.0	790
JUN				
25...	1245	17	22.0	810

09330500 MUDDY CREEK NEAR EMERY, UT (LAT 38°58'55", LONG 111°14'55")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
19...	1130	17	8.5	390
NOV				
21...	0940	5.6	.0	420
DEC				
14...	1005	12	.0	470
JAN , 1980				
14...	1350	20	.0	380
MAR				
12...	1015	9.7	.0	400
APR				
18...	0930	28	3.0	390
MAY , 1980				
30...	1040	150	5.5	390
JUN				
20...	1000	214	7.5	340
JUL				
16...	1030	104	10.5	340
AUG				
15...	1110	47	13.0	350
SEP				
18...	--	30	15.5	350
23...	1510	33	12.5	370

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DIRTY DEVEL RIVER BASIN

09332100 MUDDY CREEK BELOW INTERSTATE 70, NEAR EMERY, UT (LAT 38°48'44", LONG 111°11'53")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
16...	1240	2.5	14.5	3840
NOV				
21...	1140	5.9	.0	1990
DEC				
14...	1320	3.5	.0	3530
JAN , 1980				
14...	1230	16	.0	2250
MAR				
12...	1235	18	7.0	2300
APR				
03...	1305	12	9.5	1920
18...	1200	42	11.0	960
MAY , 1980				
30...	1130	111	13.0	750
JUN				
20...	1220	130	14.0	700
JUL				
16...	1220	21	21.5	1660
AUG				
15...	1300	7.0	24.0	4150
SEP				
12...	1220	21	18.0	2140

09333500 DIRTY DEVIL RIVER ABOVE POISON SPRING WASH, NEAR HANKSVILLE, UT (LAT 38°05'50", LONG 110°24'27")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
15...	1205	9.8	17.0	2660
NOV				
15...	1135	80	3.5	1200
FEB , 1980				
01...	1115	84	1.0	1590
MAR				
04...	1130	118	7.0	1640
APR				
08...	1220	93	12.5	1550
MAY , 1980				
07...	1205	211	18.0	1570
JUN				
09...	1500	111	25.5	1530
JUL				
10...	1135	46	25.0	1770
AUG				
05...	--	.00	--	--
SEP				
17...	1150	159	19.0	3380

ESCALANTE RIVER BASIN

09337000 PINE CREEK NEAR ESCALANTE, UT (LAT 37°51'45", LONG 111°38'07")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
04...	1405	2.5	13.0	350
NOV				
15...	1330	2.3	7.0	380
APR , 1980				
08...	1115	2.9	4.0	380
MAY , 1980				
06...	1200	11	3.0	350
JUN				
24...	1645	6.8	18.0	390
AUG				
06...	1640	6.2	18.0	380

09337500 ESCALANTE RIVER NEAR ESCALANTE, UT (LAT 37°46'41", LONG 111°34'26")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
04...	1250	4.1	15.5	1410
NOV				
15...	1215	5.7	5.0	1740
FEB , 1980				
05...	1100	7.2	1.0	1470
APR , 1980				
08...	1250	18	7.0	960
MAY				
06...	1450	7.0	10.0	1070
JUN				
24...	1530	17	24.0	720

09372200 McELMO CREEK NEAR BLUFF, UT (LAT 37°13'00", LONG 109°11'00")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
23...	1435	52	15.5	3000
NOV				
26...	1320	52	5.5	3100
DEC				
17...	1205	32	.0	3200
JAN , 1980				
22...	1135	90	3.5	3240
MAR				
04...	1100	291	9.0	2770
APR , 1980				
10...	1250	582	13.0	1930
MAY				
15...	1130	147	13.5	2850
AUG				
11...	1300	40	28.0	2070
28...	1200	114	22.0	1410

SAN JUAN RIVER BASIN

09378100 NORTH CREEK ABOVE RANGER STATION NEAR MONTICELLO, UT (LAT 37°52'23", LONG 109°21'57")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
MAY , 1980				
01...	1030	9.2	5.5	205
16...	1430	9.6	13.5	240
JUN				
12...	1610	29	13.0	140
JUL , 1980				
02...	1650	11	13.5	210
AUG				
12...	1020	.00	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SAN JUAN RIVER BASIN

09378200 MONTEZUMA CREEK AT GOLF COURSE, AT MONTICELLO, UT
(LAT 37°51'38", LONG 109°20'30")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
MAY , 1980				
01...	1245	49	7.0	215
16...	1330	34	10.0	270
JUN				
12...	1500	51	15.0	170
JUL , 1980				
02...	1400	11	15.5	240
AUG				
12...	1150	.00	--	--

09378630 RECAPTURE CREEK NEAR BLANDING, UT (LAT 37°45'20", LONG 109°28'33")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
23...	1635	.00	--	--
NOV				
26...	1610	.00	--	--
MAY , 1980				
16...	1110	9.3	8.0	180
JUN , 1980				
12...	1110	12	9.5	95
JUL				
01...	1100	2.2	15.0	170
AUG				
11...	1555	.02	24.5	225

09378650 RECAPTURE CREEK BELOW JOHNSON CREEK NEAR BLANDING, UT
(LAT 37°40'51", LONG 109°27'43")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
12...	1220	.00	--	--
NOV				
26...	1530	.00	--	--
DEC				
17...	1545	.00	--	--
FEB , 1980				
28...	1155	14	3.5	230
APR				
11...	1035	53	3.5	180
MAY , 1980				
15...	1430	40	10.5	200
27...	1430	54	12.5	190
JUN				
12...	1230	47	17.0	170
JUL				
01...	1330	19	19.0	190
AUG				
11...	1630	.02	27.5	450

09378700 COTTONWOOD WASH NEAR BLANDING, UT (LAT 37°33'38", LONG 109°34'41")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
23...	1540	.00	--	--
NOV				
26...	1413	4.5	2.5	700
DEC				
17...	1330	3.5	.0	730
JAN , 1980				
27...	1500	6.3	5.5	550
MAR				
04...	1515	34	10.0	590
APR , 1980				
10...	1440	52	17.0	590
MAY				
16...	0900	55	11.0	350
JUL				
02...	0820	4.9	16.0	430
AUG				
11...	1420	.00	--	--

09403600 KANAB CREEK NEAR KANAB, UT (LAT 37°06'01", LONG 112°33'09")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
09...	1540	7.1	24.0	480
23...	1305	7.6	25.0	490
NOV				
15...	1340	8.6	18.0	225
DEC				
12...	1440	22	10.0	455
JAN , 1980				
14...	1435	12	11.0	520
FEB				
19...	1425	134	8.0	710
MAR				
13...	1650	21	16.0	920
APR , 1980				
07...	1500	111	18.0	680
MAY				
02...	1400	40	21.0	1080
23...	1045	15	21.0	920
JUN				
27...	1315	8.4	28.0	475
JUL				
28...	1610	8.8	30.0	730
AUG				
20...	1920	5.3	28.0	460

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, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
09...	1315	15	11.0	510
NOV				
15...	1100	16	15.0	135
DEC				
12...	1245	17	1.0	530
JAN , 1980				
14...	1140	78	6.0	470
FEB				
19...	1220	62	3.0	540
APR , 1980				
07...	1220	73	6.0	670
MAY				
02...	--	218	12.0	580
22...	1220	95	12.0	540
JUN				
27...	1125	31	12.0	560
JUL				
28...	1555	23	20.0	540

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

VIRGIN RIVER BASIN

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, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
01...	1345	16	15.5	350
31...	1120	18	8.0	360
DEC				
04...	1310	18	3.5	390
APR , 1980				
16...	1030	54	3.0	480
MAY , 1980				
28...	1205	70	8.5	420
JUL				
08...	--	34	--	430

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, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
01...	1205	16	13.0	375
31...	1330	17	8.0	365
DEC				
04...	1210	17	4.0	390
APR , 1980				
16...	--	66	--	560
MAY , 1980				
28...	1405	66	11.0	465
JUL				
08...	--	24	--	165
AUG				
22...	1130	19	14.0	420

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, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
03...	1200	42	14.0	750
NOV				
15...	1155	48	--	840
DEC				
10...	1450	54	7.5	740
JAN , 1980				
09...	1330	57	7.0	760
FEB , 1980				
27...	1145	130	7.5	850
APR				
03...	1250	91	10.0	810
JUL				
14...	1655	94	22.0	580
AUG				
22...	1420	43	17.0	730

09406000 VIRGIN RIVER NEAR VIRGIN, UT, (LAT 37°11'55", LONG 113°12'25")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
03...	1530	78	21.5	770
NOV				
15...	1350	128	10.0	950
DEC				
11...	1335	129	6.0	820
JAN , 1980				
10...	1150	225	1.5	640
APR , 1980				
08...	1220	440	12.0	870
JUL				
15...	1135	167	18.5	760
AUG				
22...	1230	128	20.0	840
SEP				
17...	1145	120	18.0	910

09406300 KANARRA CREEK AT KANARRAVILLE, UT (LAT 37°32'13", LONG 113°10'00")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
12...	1130	2.2	8.5	460
NOV				
16...	1355	2.6	13.5	460
DEC				
14...	1525	2.7	.5	480
JAN , 1980				
14...	1300	4.0	5.5	450
FEB				
29...	1315	3.4	5.0	580
APR				
08...	1400	3.9	5.0	620
MAY , 1980				
08...	--	22	9.0	460
JUN				
24...	1230	6.8	16.0	590
JUL				
21...	1430	3.7	20.0	495
AUG				
21...	1350	3.3	16.0	510
SEP				
10...	1130	4.0	12.0	480

09406700 SOUTH ASH CREEK BELOW MILL CREEK, NEAR PINTURA, UT
(LAT 37°21'50", LONG 113°20'01")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
10...	1315	2.9	12.5	190
NOV				
14...	1110	2.8	6.5	250
DEC				
18...	1030	2.0	4.0	260
JAN , 1980				
08...	1100	2.2	4.5	240
FEB				
26...	1055	11	--	300
APR , 1980				
02...	1120	9.9	4.0	280
MAY				
30...	1050	23	17.0	185
JUL				
01...	1130	19	17.0	155
AUG				
14...	1200	7.6	19.0	185

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

VIRGIN RIVER BASIN

09407200 ASH CREEK BELOW WEST FIELD DITCH, AT TOQUERVILLE, UT
(LAT 37°15'57", LONG 113°16'15")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979					MAY , 1980				
11...	1205	12	--	670	30...	--	32	17.5	460
NOV					JUL				
20...	1215	12	--	760	14...	1410	17	20.0	510
DEC					AUG				
18...	1240	8.6	--	710	15...	1210	14	18.0	630
JAN , 1980					SEP				
16...	1245	16	--	480	18...	1045	14	23.0	650

09408000 LEEDS CREEK NEAR LEEDS, UT (LAT 37°16'03", LONG 113°22'12")

OCT , 1979					APR , 1980				
10...	1130	5.6	13.0	280	02...	1410	15	8.5	310
NOV					JUL				
14...	1310	4.8	6.5	350	01...	1410	35	14.5	180
JAN , 1980					AUG				
16...	1120	6.8	7.0	320	14...	1520	15	18.0	235

09408150 VIRGIN RIVER NEAR HURRICANE, UT (LAT 37°09'45", LONG 113°23'42")

OCT , 1979					JUL , 1980				
04...	1015	79	17.5	3020	31...	0945	182	23.0	2290
NOV					SEP				
15...	1535	140	23.0	2140	02...	1140	101	20.0	2400
DEC					17...	1430	121	25.0	2290
11...	1445	163	7.0	1820					
JAN , 1980									
10...	1400	351	9.5	1240					

09408400 SANTA CLARA RIVER NEAR PINE VALLEY, UT (LAT 37°23'00", LONG 113°28'57")

OCT , 1979					APR , 1980				
09...	1215	4.8	12.0	110	07...	1320	12	7.5	87
NOV					MAY				
02...	1140	4.6	--	105	20...	1205	76	9.5	55
DEC					JUN				
04...	1605	3.7	3.5	110	30...	1445	54	11.0	64
JAN , 1980					AUG				
07...	1305	2.9	2.5	115	12...	1245	15	13.0	90
FEB									
25...	1545	7.1	5.0	120					

09408500 SANTA CLARA-PINTO DIVERSION NEAR PINTO, UT (LAT 37°28'04", LONG 113°28'21")

APR , 1980					JUN , 1980				
17...	1150	51	5.0	100	30...	1325	5.4	15.0	175
MAY					AUG				
20...	1105	25	7.0	80	12...	1130	.00	--	--

09409880 SANTA CLARA RIVER AT GUNLOCK, UT (LAT 37°16'55", LONG 113°46'00")

NOV , 1979					FEB , 1980				
16...	1345	9.3	--	590	28...	1115	159	11.0	500
DEC					AUG				
12...	1310	15	.5	530	12...	1455	26	27.0	380
JAN , 1980					SEP				
08...	1530	5.6	--	510	16...	1450	22	23.0	440
31...	1338	125	8.0	365	30...	--	25	22.0	410

09410100 SANTA CLARA RIVER BELOW WINDSOR DAM NEAR SANTA CLARA, UT
(LAT 37°11'18", LONG 113°46'01")

OCT , 1979					APR , 1980				
05...	1045	16	16.0	380	09...	1525	104	16.0	390
NOV					MAY				
16...	1230	11	21.0	500	07...	--	110	17.0	395
DEC					JUL				
12...	1355	1.4	4.5	700	08...	1300	40	18.0	385
JAN , 1980					AUG				
31...	1200	150	5.5	360	13...	1345	30	18.0	365
FEB					SEP				
28...	1320	217	10.0	300	16...	1250	19	18.0	400

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

VIRGIN RIVER BASIN

09413200 VIRGIN RIVER NEAR BLOOMINGTON, UT (LAT 37°04'10", LONG 113°35'00")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
14...	1340	85	--	3360
NOV				
16...	1015	182	--	2640
DEC				
12...	1150	184	--	2180
JAN , 1980				
10...	1620	436	--	1700
31...	1150	759	--	1090
FEB				
26...	1455	1210	--	1570
APR , 1980				
04...	1100	366	--	1760
JUL				
17...	1215	188	--	2130
SEP				
02...	1425	64	--	3120
16...	1050	72	--	2940
30...	1320	66	--	3120

BEAR RIVER BASIN

10010400 EAST FORK BEAR RIVER NEAR EVANSTON, WY, (LAT 40°52'25", LONG 110°47'00")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
10...	0950	10	8.0	155
NOV				
14...	1100	12	4.0	170
DEC				
18...	1335	7.5	9.0	180
JAN , 1980				
22...	1120	7.6	.0	180
MAR				
04...	1030	6.3	.0	190
APR , 1980				
16...	1050	14	2.5	185
JUN				
03...	1510	125	16.0	70
16...	1415	240	16.5	50
JUL				
23...	1000	62	20.0	70
AUG				
26...	1245	28	16.0	120

10011200 WEST FORK BEAR RIVER AT WHITNEY DAM, NEAR OAKLEY, UT
(LAT 40°56'40", LONG 110°51'40")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
AUG , 1980				
20...	1445	5.5	14.0	210

10011400 WEST FORK BEAR RIVER BELOW DEER CREEK NEAR EVANSTON, WY
(LAT 40°56'40", LONG 110°51'40")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
10...	1345	5.3	9.5	370
NOV				
14...	1320	8.8	.0	390
JAN , 1980				
22...	1445	11	.0	390
MAR				
04...	1520	8.0	1.0	375
APR				
15...	1310	11	6.0	355
JUN , 1980				
03...	1015	176	5.0	260
17...	1040	156	7.5	310
JUL				
23...	1155	21	15.0	305
AUG				
26...	1430	18	16.0	340

10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE (LAT 40°57'55", LONG 110°51'10")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
10...	1625	27	10.5	245
NOV				
14...	1530	33	.5	280
DEC				
18...	1025	28	.0	240
JAN , 1980				
22...	1625	34	.0	185
MAR				
04...	1745	30	1.0	195
APR , 1980				
15...	1640	52	4.0	240
30...	1030	307	2.0	250
JUN				
03...	1225	538	8.0	240
16...	1705	861	13.5	220
JUL				
23...	1415	133	18.0	195
AUG				
26...	1600	91	16.0	240

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, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
NOV , 1979				
21...	0940	.69	.0	720
DEC				
19...	1115	.58	.0	600
JAN , 1980				
23...	1005	4.5	.0	680
MAR				
05...	1135	5.2	.0	750
APR				
23...	0940	163	.5	380
APR , 1980				
29...	1010	123	4.0	435
JUN				
03...	1705	40	12.0	500
17...	0920	13	11.5	600
JUL				
23...	1545	.72	26.5	550
AUG				
26...	1005	2.0	130	570

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

BEAR RIVER BASIN

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, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
11...	1110	2.2	10.5	580
APR , 1980				
17...	1020	51	3.0	700
JUN				
04...	0840	72	10.5	410
17...	1350	22	15.0	430
JUL , 1980				
23...	1715	63	19.0	420
AUG				
26...	0830	42	6.5	440

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, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
09...	1720	.40	12.5	460
NOV				
20...	1525	14	.0	440
DEC				
17...	--	.00	--	--
MAR , 1980				
03...	--	.00	--	--
20...	0955	12	.0	495
APR , 1980				
29...	1540	33	11.0	405
JUN				
04...	1840	54	14.0	240
18...	0935	48	13.0	190
JUL				
22...	1725	2.3	24.5	470
AUG				
25...	1525	7.2	16.0	450

10020100 BEAR RIVER ABOVE RESERVOIR NEAR WOODRUFF, UT (LAT 41°26'04", LONG 111°01'01")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
11...	1440	2.2	11.0	560
NOV				
21...	1435	12	.5	540
DEC				
19...	1355	28	.0	510
JAN , 1980				
23...	1430	63	.0	500
MAR				
05...	1445	78	.0	485
APR				
17...	1435	382	4.0	440
23...	1515	1540	3.5	355
APR , 1980				
29...	1650	1220	9.5	385
JUN				
02...	1645	832	--	260
17...	1550	755	16.0	200
JUL				
22...	1620	15	24.5	450
AUG				
27...	0945	8.8	12.5	480

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, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
11...	1820	6.3	11.5	550
NOV				
21...	1705	7.1	2.0	600
DEC				
19...	1705	6.2	4.0	630
FEB , 1980				
06...	1535	12	4.0	630
MAR				
20...	1315	.96	7.0	690
APR				
11...	1635	150	3.0	510
14...	1630	467	3.0	520
APR , 1980				
17...	1635	661	4.0	520
22...	1600	1220	5.0	440
JUN				
04...	1200	787	11.0	280
18...	1030	1100	17.0	210
JUL				
22...	1400	40	23.0	290
AUG				
21...	1125	30	17.0	380
27...	1100	26	18.0	400

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, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
09...	1505	7.6	10.5	370
NOV				
20...	1330	.15	1.5	390
APR , 1980				
24...	1310	85	3.5	270
30...	1550	167	5.0	280
JUN , 1980				
04...	1630	175	9.5	315
18...	1430	66	7.5	345
JUL				
21...	1640	42	15.0	280
AUG				
25...	1400	29	15.5	260

10026500 BEAR RIVER NEAR RANDOLPH, UT (LAT 41°48'02", LONG 111°04'20")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
09...	1300	22	9.5	680
NOV				
13...	1605	44	1.0	700
DEC				
17...	1345	25	.0	730
JAN , 1980				
21...	1515	202	.0	410
MAR				
20...	1550	137	7.0	680
MAY , 1980				
01...	1055	1160	8.5	465
JUN				
02...	1130	536	11.5	600
JUL				
22...	1240	197	21.0	650
AUG				
25...	1125	55	16.0	560

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

BEAR RIVER BASIN

10028500 BEAR RIVER BELOW PIXLEY DAM NEAR COKEVILLE, WY (LAT 41°56'20", LONG 110°59'05")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
12...	1105	7.3	9.0	750
MAY , 1980				
01...	1420	1320	10.5	540
JUN				
05...	1200	785	12.0	780
JUL , 1980				
24...	0930	222	20.5	660
AUG				
27...	1420	86	18.5	650

10032000 SMITHS FORK NEAR BORDER, WY (LAT 42°17'16", LONG 110°52'14")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
12...	1330	79	8.5	340
NOV				
15...	1120	67	.0	355
DEC				
20...	1200	63	.0	375
JAN , 1980				
24...	1155	65	.0	380
MAR				
06...	1235	52	3.0	375
APR				
18...	1135	82	6.5	380
MAY , 1980				
02...	0940	698	3.0	310
JUN				
05...	--	685	--	300
05...	1405	731	8.5	300
18...	1655	718	11.5	305
JUL				
24...	1230	255	14.0	305
AUG				
27...	1615	144	16.0	320

10038000 BEAR RIVER BELOW SMITHS FORK NEAR COKEVILLE, WY (LAT 42°07'36", LONG 110°58'21")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
12...	1550	90	11.0	500
NOV				
15...	1450	139	1.0	580
DEC				
20...	1445	127	.0	600
MAR , 1980				
06...	1700	356	2.0	485
MAY , 1980				
01...	1750	2330	10.0	485
JUN				
05...	1430	1740	13.0	560
JUL				
24...	1450	473	19.5	560
AUG				
28...	0955	231	14.0	530

10039500 BEAR RIVER AT BORDER, WY (LAT 42°12'40", LONG 111°03'11")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
17...	1605	84	8.5	560
25...	0840	172	5.0	585
NOV				
15...	1730	144	.5	560
DEC				
21...	1035	120	.0	620
FEB , 1980				
07...	1335	163	.0	610
MAR				
19...	1530	410	2.0	550
APR				
18...	1450	1240	9.0	520
MAY				
02...	1330	2330	10.5	500
JUN , 1980				
06...	0900	1670	12.5	600
11...	1130	1810	16.0	600
12...	1130	1810	16.0	600
19...	1020	1380	16.5	520
JUL				
08...	1130	826	17.5	620
24...	1720	464	20.0	580
AUG				
06...	1130	269	18.0	600
28...	1305	180	15.0	540
SEP				
03...	1310	209	16.0	580

10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE (LAT 42°24'10", LONG 111°01'30")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
17...	1610	14	7.0	1180
NOV				
16...	0920	7.4	.5	1280
DEC				
21...	1200	12	.0	1380
FEB , 1980				
07...	1520	14	1.0	1500
MAR				
07...	1030	12	.5	1500
APR				
28...	1750	342	10.0	550
MAY , 1980				
02...	1605	460	8.5	455
JUN				
06...	1050	331	7.5	440
19...	0855	169	10.0	690
JUL				
25...	0845	54	11.0	770
AUG				
28...	1135	34	14.0	950

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

BEAR RIVER BASIN

10058600 BLOOMINGTON CREEK AT BLOOMINGTON, ID (LAT 42°11'05", LONG 111°25'30")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
17...	1105	19	4.5	340
NOV				
16...	1610	18	5.0	335
DEC				
21...	1635	17	3.5	335
MAR , 1980				
07...	1830	15	5.5	345
APR				
28...	1220	53	8.0	280
JUN , 1980				
06...	1615	88	8.5	240
19...	1330	88	10.0	250
JUL				
25...	1305	40	10.5	315
AUG				
29...	1125	31	10.5	340

10068500 BEAR RIVER AT PESCADERO, ID (LAT 42°24'06", LONG 111°21'22")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
17...	1320	63	10.0	700
NOV				
16...	1300	90	.5	620
DEC				
21...	1515	74	.0	680
MAR , 1980				
07...	1555	106	.0	590
APR , 1980				
28...	1420	650	16.5	450
JUN				
06...	1345	1810	13.5	680
JUL				
25...	1030	1360	21.5	610
AUG				
29...	0850	1460	16.0	650

10072800 EIGHTMILE CREEK NEAR SODA SPRINGS, ID (LAT 42°32'15", LONG 111°34'20")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
NOV , 1979				
15...	1700	4.7	.5	280
JAN , 1980				
25...	1130	3.5	1.5	280
MAR				
26...	1840	2.8	3.5	290
MAY				
15...	1615	56	9.5	240
JUN , 1980				
12...	1450	83	10.5	280
19...	1545	69	12.5	230
JUL				
22...	1230	20	15.0	280
SEP				
09...	1430	7.5	11.0	270

10076400 SODA CREEK AT FIVEMILE MEADOWS NEAR SODA SPRINGS, ID (LAT 42°43'45", LONG 111°36'55")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
05...	1500	3.5	17.5	750
NOV				
15...	1220	4.3	4.5	700
JAN , 1980				
25...	1545	.49	.0	820
MAR				
26...	1605	1.7	13.5	830
APR				
19...	1555	84	9.0	255
20...	1810	75	13.0	410
MAY , 1980				
15...	1415	23	13.5	800
JUN				
12...	1250	19	15.5	900
JUL				
22...	0945	15	10.0	900
SEP				
09...	1155	16	13.0	780

10084500 COTTONWOOD CREEK NEAR CLEVELAND, ID (LAT 42°19'57", LONG 111°46'27")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
05...	1135	2.5	6.5	340
NOV				
15...	1040	6.7	3.5	330
JAN , 1980				
16...	1255	17	3.5	315
FEB				
21...	1610	28	2.5	325
APR				
08...	1315	29	7.0	325
19...	1735	396	9.0	190
APR , 1980				
21...	1845	513	9.0	180
29...	1155	219	8.0	180
MAY				
20...	1545	131	14.0	340
JUL				
08...	1045	17	13.0	440
22...	1450	13	21.0	325
SEP				
09...	0940	10	9.5	320

10090500 BEAR RIVER NEAR PRESTON, ID (LAT 42°10'05", LONG 111°50'59")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
JAN , 1980				
04...	1550	105	3.0	900
JUN				
18...	1055	2470	16.0	560
SEP , 1980				
15...	1615	2440	17.5	580

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

BEAR RIVER BASIN

10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE (LAT 42°00'47", LONG 111°55'14")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
NOV , 1979				
16...	1655	178	3.5	1100
FEB , 1980				
20...	1510	2290	3.5	680
JUN				
10...	1500	3590	16.0	600
SEP , 1980				
11...	1000	106	18.0	1400
15...	1355	2610	16.5	700

10093000 CUB RIVER NEAR PRESTON, ID (LAT 42°08'28", LONG 111°41'19")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
03...	1435	24	9.0	275
NOV				
16...	1215	20	1.5	280
JAN , 1980				
04...	1320	15	4.0	290
FEB				
21...	1255	26	4.0	240
APR				
08...	1030	29	5.5	255
29...	1530	302	8.0	280
MAY , 1980				
16...	1235	220	5.5	260
JUN				
06...	1140	465	7.0	360
13...	1135	588	7.5	240
JUL				
23...	1250	79	11.5	280
SEP				
11...	1340	39	9.5	300

10099000 HIGH CREEK NEAR RICHMOND, UT (LAT 41°58'40", LONG 111°44'40")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
25...	1525	8.0	6.5	300
NOV				
28...	1510	5.2	.0	330
FEB , 1980				
20...	1125	15	4.0	205
APR				
09...	1435	12	7.0	240
21...	1510	72	7.0	260
MAY				
08...	1225	136	7.5	280
JUN , 1980				
05...	1210	199	9.0	285
JUL				
08...	1410	54	10.0	310
AUG				
19...	1330	20	9.0	300
SEP				
15...	1130	12	13.0	250

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, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
04...	1635	21	12.5	380
NOV				
01...	1655	24	5.0	390
JAN , 1980				
03...	1120	20	3.0	520
MAR				
31...	1815	39	6.5	325
APR				
19...	1045	177	6.5	210
23...	1630	393	7.0	180
APR , 1980				
30...	0450	276	6.5	220
MAY				
29...	0930	158	6.5	380
JUL				
03...	1215	75	14.0	350
AUG				
13...	0900	39	12.0	420
SEP				
12...	1035	38	12.5	325

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, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
02...	1750	5.7	12.0	345
NOV				
01...	1355	6.1	5.0	380
JAN , 1980				
02...	1450	5.7	3.5	365
MAR				
31...	1545	15	6.5	300
MAY				
06...	1240	263	7.5	270
MAY , 1980				
29...	1335	95	8.0	370
JUL				
03...	0945	42	11.0	400
AUG				
13...	1115	15	13.0	395
SEP				
12...	1315	12	12.0	380

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

BEAR RIVER BASIN

10106000 LITTLE BEAR RIVER NEAR PARADISE, UT (LAT 41°35'25", LONG 111°51'10")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
02...	1525	36	14.5	495
NOV				
01...	1050	45	4.5	480
30...	1440	46	.0	510
JAN , 1980				
02...	1325	39	4.0	470
15...	1325	163	3.0	325
FEB				
01...	1415	51	.0	450
19...	1100	175	3.0	265
29...	1035	67	4.5	405
MAR				
31...	1215	62	5.0	410
APR				
19...	1345	204	10.0	250
24...	1525	269	11.0	255
APR , 1980				
30...	1330	821	75.0	260
MAY				
30...	0900	217	7.0	330
30...	1400	216	11.0	330
JUN				
04...	1020	586	9.0	305
JUL				
01...	1020	64	14.0	460
AUG				
01...	0940	49	14.5	490
SEP				
02...	0910	57	13.0	500

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, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
01...	1135	33	7.5	340
NOV				
30...	1520	4.6	6.0	410
JAN , 1980				
03...	1545	3.2	2.5	465
APR				
01...	1820	.10	2.0	375
MAY , 1980				
30...	1330	39	8.0	325
JUL				
10...	1410	67	11.0	350
AUG				
12...	1310	65	10.0	350
SEP				
25...	1440	37	9.0	360

10109000 LOGAN RIVER ABOVE STATE DAM NEAR LOGAN, UT (LAT 41°44'40", LONG 111°47'00")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
01...	1400	88	9.0	335
NOV				
01...	1105	119	3.5	335
30...	1210	86	7.0	365
JAN , 1980				
03...	1640	95	3.0	475
FEB				
01...	1445	93	1.0	380
29...	1045	107	4.0	380
APR				
01...	1720	102	6.0	325
25...	1305	493	9.0	265
MAY , 1980				
01...	1535	809	8.0	260
02...	1340	791	8.0	270
30...	1235	589	8.0	325
JUN				
13...	1245	831	8.0	305
JUL				
01...	1040	559	9.5	320
AUG				
01...	1650	213	13.5	315
SEP				
02...	1430	154	12.0	340

10113500 BLACKSMITH FORK ABOVE UTAH POWER AND LIGHT COMPANY'S DAM NEAR HYRUM, UT (LAT 41°37'18", LONG 111°44'42")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
01...	1545	76	11.0	350
NOV				
01...	1420	81	3.5	360
30...	1140	42	.0	390
JAN , 1980				
02...	--	69	4.0	385
15...	1605	136	4.0	345
FEB				
01...	1110	78	.0	390
29...	1330	102	5.5	360
APR				
01...	1505	85	6.0	335
APR , 1980				
24...	1305	501	8.0	275
MAY				
01...	0930	589	6.5	200
30...	1245	247	9.0	355
JUL				
01...	1320	174	12.5	415
AUG				
01...	1120	131	12.0	360
SEP				
02...	1100	123	10.0	360

10115200 LOGAN RIVER BELOW BLACKSMITH FORK NEAR LOGAN, UT (LAT 41°43'15", LONG 111°53'08")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
16...	1455	68	14.0	460
NOV				
28...	1130	191	.5	430
JAN , 1980				
11...	1615	194	1.0	410
FEB				
20...	1830	334	5.0	410
APR				
03...	1600	230	5.0	415
25...	1640	922	12.0	320
MAY , 1980				
02...	1035	1410	8.5	280
JUN				
10...	1315	1050	15.0	340
JUL				
21...	1420	124	15.0	400
SEP				
08...	1400	92	17.0	460

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

BEAR RIVER BASIN

10117000 HAMMOND EAST SIDE CANAL NEAR COLLINSTON, UT (LAT 41°49'51", LONG 112°03'24")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979					JUN , 1980				
15...	1345	82	14.0	840	23...	1545	160	21.0	560
APR , 1980					AUG				
02...	--	.00	--	--	05...	1155	139	20.5	690
MAY					SEP				
14...	1520	3.3	17.0	400	16...	1145	92	16.0	690

10117500 WEST SIDE CANAL NEAR COLLINSTON, UT (LAT 41°49'55', LONG 112°03'36")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979					MAY , 1980				
15...	1015	494	14.0	840	12...	1620	343	10.0	430
NOV					JUN				
29...	1615	8.0	--	830	20...	0840	724	21.0	560
JAN , 1980					AUG				
11...	1244	9.8	.0	760	05...	1030	684	15.0	700
FEB					SEP				
20...	1615	.53	4.0	360	16...	0945	531	17.0	900
APR									
02...	--	.00	--	--					

10117510 WEST CANAL ABOVE SALT CREEK DIVERSION NEAR TREMONTON, UT (LAT 41°42'51", LONG 112°13'36")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979					MAY , 1980				
09...	1300	113	14.5	830	13...	1425	66	12.5	440
NOV					JUN				
14...	1140	12	1.5	720	26...	1330	103	22.0	550
DEC					AUG				
16...	1500	4.7	.0	780	06...	1055	117	21.0	700
JAN , 1980					SEP				
23...	1540	6.2	--	930	23...	1050	119	14.5	800
MAR									
05...	1410	6.5	6.0	1080					

10117530 WEST CANAL BELOW SALT CREEK DIVERSION NEAR TREMONTON, UT (LAT 41°42'47", LONG 112°13'41")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979					AUG , 1980				
09...	1545	51	16.0	810	06...	1240	107	21.0	700
NOV					SEP				
14...	1335	5.2	3.5	730	23...	1230	67	15.0	800
MAY , 1980									
13...	1445	14	13.0	440					

10118000 BEAR RIVER NEAR COLLINSTON, UT (LAT 41°50'03", LONG 112°03'16")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979					MAY , 1980				
16...	1125	17	14.5	1400	14...	1445	5300	14.0	435
NOV					JUN				
21...	1340	28	3.5	1180	20...	1405	3660	21.5	530
JAN , 1980					AUG				
17...	1510	4660	1.0	490	18...	1120	23	21.0	800
FEB					SEP				
20...	1040	4000	2.0	475	25...	1035	1530	14.0	780
APR									
02...	1550	36	7.5	1070					

10125600 MALAD RIVER NEAR PLYMOUTH, UT (LAT 41°50'19", LONG 112°08'49")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979					APR , 1980				
17...	1335	44	13.0	5500	02...	1135	124	9.0	3700
DEC					MAY				
03...	1755	70	2.0	5400	15...	1205	338	17.0	2000
JAN , 1980					JUN				
13...	1640	619	1.0	670	26...	1025	58	21.0	6500
14...	1345	1700	1.0	495	AUG				
16...	1625	1190	1.0	375	07...	1355	34	22.0	>8000
17...	1205	803	1.0	440	SEP				
18...	1150	570	--	680	16...	1410	43	19.0	>8000
23...	1045	155	.5	3600					
FEB									
28...	1450	285	7.5	2280					

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

BEAR RIVER BASIN

10126180 SULPHUR CREEK NEAR CORRINNE, UT (LAT 41°34'25", LONG 112°13'07")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
05...	1330	75	15.5	2600
NOV				
06...	1150	71	5.5	2800
DEC				
13...	1155	61	.0	3950
JAN , 1980				
14...	1635	200	1.0	730
15...	1310	211	.5	700
18...	1525	78	2.0	1760
FEB				
25...	1115	46	4.0	2500
APR , 1980				
03...	1225	38	9.0	3800
MAY				
20...	1350	147	20.0	2300
JUN				
27...	1140	65	18.0	3560
AUG				
07...	1110	77	19.0	3500
SEP				
15...	1020	120	16.0	2300

10127050 SALT CREEK BELOW SALT SPRING NEAR TREMONTON, UT (LAT 41°42'41", LONG 112°13'36")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
05...	1610	84	17.0	1300
NOV				
06...	1535	20	18.0	2900
DEC				
13...	1715	25	14.0	2900
JAN , 1980				
23...	1625	24	13.0	2700
MAR				
05...	1155	26	15.0	2920
APR , 1980				
28...	1635	21	19.5	3400
MAY				
27...	1450	89	16.0	1310
JUN				
26...	1545	25	20.0	3450
AUG				
06...	0905	35	20.0	2200
SEP				
23...	0925	75	16.0	1600

10127100 BLACK SLOUGH NEAR BRIGHAM CITY, UT (LAT 41°30'36", LONG 112°04'34")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
04...	1135	18	12.5	1450
31...	1140	48	5.0	1600
DEC				
06...	1125	35	4.5	1420
JAN , 1980				
14...	1245	90	2.0	1780
15...	1520	103	2.0	1380
FEB				
19...	1045	137	3.5	1380
APR , 1980				
03...	0955	58	4.0	2500
MAY				
19...	1020	99	14.5	1800
JUN				
27...	0945	11	14.5	2600
AUG				
07...	0925	12	19.5	1500
SEP				
22...	1420	41	14.5	1500

WEBER RIVER BASIN

10128000 SMITH AND MOREHOUSE CREEK NEAR OAKLEY, UT (LAT 40°47'09", LONG 111°06'42")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
DEC , 1979				
04...	1305	8.9	.0	320
27...	1445	9.6	.0	280
JAN , 1980				
30...	1350	14	.0	250
APR				
28...	1240	89	4.5	95
JUN				
11...	1445	475	7.5	440
JUL , 1980				
11...	1420	76	15.5	100
29...	1340	38	17.0	175
AUG				
27...	1416	18	15.0	220
SEP				
26...	1345	13	11.0	250

10128500 WEBER RIVER NEAR OAKLEY, UT (LAT 40°44'14", LONG 111°14'50")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
NOV , 1979				
16...	1420	40	1.0	330
DEC				
27...	1225	17	.0	330
JAN , 1980				
30...	1130	30	.0	310
FEB				
21...	1248	43	1.5	280
MAR				
25...	1430	48	3.0	275
MAY				
01...	0803	505	3.0	180
MAY , 1980				
29...	1215	581	6.0	165
JUN				
11...	1120	1500	--	105
26...	1120	821	8.5	105
JUL				
29...	1030	131	13.0	265
AUG				
27...	1056	89	11.5	240
SEP				
26...	1115	61	7.0	280

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

WEBER RIVER BASIN

10130500 WEBER RIVER NEAR COALVILLE, UT (LAT 40°53'43", LONG 111°24'04")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
03...	1020	195	13.0	385
26...	--	137	10.0	400
DEC				
13...	1200	160	.0	380
JAN , 1980				
15...	1013	181	2.0	470
APR				
07...	1150	185	5.0	425
MAY , 1980				
01...	1812	315	9.0	360
JUL				
11...	1135	240	14.5	260
AUG				
01...	1225	131	15.5	280
SEP				
03...	1134	151	13.0	285

10131000 CHALK CREEK AT COALVILLE, UT (LAT 40°55'14", LONG 111°24'03")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
03...	1154	5.1	20.0	790
NOV				
27...	1527	15	4.0	620
DEC				
13...	1300	12	.0	690
JAN , 1980				
15...	1230	43	2.5	500
APR				
07...	1005	32	3.0	600
MAY , 1980				
01...	1545	423	7.5	405
JUN				
03...	0800	295	8.0	320
JUL				
11...	0915	59	14.0	540
AUG				
01...	0940	13	13.0	800
SEP				
03...	0900	19	12.0	740

10134500 EAST CANYON CREEK NEAR MORGAN, UT (LAT 40°55'21", LONG 111°36'23")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
NOV , 1979				
28...	1520	4.5	4.5	370
DEC				
26...	0945	4.9	5.5	580
JAN , 1980				
09...	1525	5.2	6.0	600
MAR				
26...	1445	26	5.0	510
APR				
25...	1505	218	5.0	500
MAY , 1980				
16...	1555	137	14.0	450
JUN				
23...	1015	71	13.0	410
JUL				
24...	0905	180	11.0	470
AUG				
20...	1355	154	13.0	490
SEP				
11...	0825	75	9.0	510

10137500 SOUTH FORK OGDEN RIVER NEAR HUNTSVILLE, UT (LAT 41°16'07", LONG 111°40'24")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
17...	1400	29	11.0	330
NOV				
23...	1045	33	2.5	340
DEC				
20...	1100	35	2.0	380
JAN , 1980				
10...	1405	28	2.0	360
MAR				
13...	1115	90	3.5	260
APR				
17...	1110	248	6.0	185
MAY , 1980				
07...	1630	958	9.0	180
JUN				
17...	1030	242	12.0	265
JUL				
17...	0835	94	8.5	270
AUG				
19...	0900	101	13.0	350
SEP				
08...	0940	88	13.0	360

10139300 WHEELER CREEK NEAR HUNTSVILLE, UT (LAT 41°15'14", LONG 111°50'32")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
18...	1110	1.2	8.5	420
NOV				
23...	1415	1.1	5.0	420
DEC				
20...	1330	.67	.0	420
MAR , 1980				
13...	1340	9.2	3.0	320
APR				
17...	1430	45	9.0	180
MAY , 1980				
09...	1605	164	9.0	140
JUN				
17...	1415	34	12.0	240
JUL				
17...	1325	1.3	14.5	300
AUG				
19...	1115	3.6	12.0	370
SEP				
08...	1205	2.2	14.5	350

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

WEBER RIVER BASIN

10142000 FARMINGTON CREEK ABOVE DIVERSION NEAR FARMINGTON, UT
(LAT 41°00'05", LONG 111°52'21")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979					APR , 1980				
01...	1450	2.8	13.0	87	11...	1200	6.4	5.5	110
NOV					MAY				
02...	1440	3.4	5.0	125	09...	0850	116	3.0	70
DEC					JUN				
14...	1105	2.7	1.0	120	05...	1120	107	7.5	70
JAN , 1980					JUL				
15...	1050	6.8	3.0	100	08...	1000	18	11.0	80
FEB									
28...	1030	8.0	4.0	115					

TRIBUTARIES BETWEEN WEBER AND JORDAN RIVERS

10143500 CENTERVILLE CREEK ABOVE DIVERSIONS NEAR CENTERVILLE, UT
(LAT 40°54'59", LONG 111°51'44")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979					MAR , 1980				
01...	1635	.88	13.0	130	14...	1015	1.8	5.0	175
NOV					APR				
02...	1535	1.3	4.0	185	11...	1355	1.8	6.5	170
DEC					MAY				
14...	1400	1.2	.5	180	09...	1200	13	6.0	95
JAN , 1980					JUN				
15...	1430	1.6	4.0	200	05...	1300	13	9.5	90
FEB					JUL				
28...	1330	1.7	5.0	180	08...	1325	3.3	13.0	150

JORDAN RIVER BASIN

10146000 SALT CREEK AT NEPHI, UT (LAT 39°42'47", LONG 111°48'13")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979					APR , 1980				
02...	1535	12	16.0	920	16...	1330	55	10.0	780
NOV					MAY				
06...	1245	10	7.5	960	22...	1010	253	7.5	420
DEC					JUN				
11...	0830	10	.5	600	10...	1340	139	12.0	520
JAN , 1980					JUL				
08...	1800	10	4.5	1100	15...	1535	59	16.0	690
MAR					SEP				
05...	1335	22	7.0	1100	10...	1010	44	11.0	800

10146400 CURRANT CREEK NEAR MONA, UT (LAT 39°48'10", LONG 111°51'58")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979					MAY , 1980				
02...	1830	7.7	17.5	1000	22...	1230	67	19.0	1200
NOV					JUN				
06...	1440	9.1	8.0	1050	10...	1110	35	17.0	1700
DEC					JUL				
11...	1045	11	2.5	750	15...	1300	10	19.5	1000
JAN , 1980					AUG				
09...	0955	17	3.0	1850	05...	1115	10	19.0	980
MAR					SEP				
05...	1520	37	8.0	3500	10...	1200	14	14.0	1100
APR									
17...	1805	18	17.0	1850					

10148200 TIE FORK NEAR SOLDIER SUMMIT, UT (LAT 39°57'00", LONG 111°12'58")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979					MAY , 1980				
05...	1410	3.4	12.0	600	13...	1430	33	8.0	600
NOV					JUN				
15...	1130	3.9	.5	620	02...	1450	27	9.0	680
DEC					JUL				
10...	1100	2.7	1.5	620	03...	1005	11	8.5	520
JAN , 1980					AUG				
08...	1030	3.7	1.5	485	01...	1120	13	12.0	600
MAR					SEP				
07...	1050	2.5	4.0	620	03...	1400	4.4	14.0	740
APR									
21...	1215	9.3	12.0	540					

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

JORDAN RIVER BASIN

10150500 SPANISH FORK AT CASTILLA, UT (LAT 40°02'59", LONG 111°32'50")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
05...	1655	193	15.0	470
NOV				
15...	1300	70	5.5	800
DEC				
10...	0930	75	2.5	720
JAN , 1980				
07...	1540	70	2.5	700
MAR				
18...	1255	118	6.5	530
APR				
21...	1530	697	9.0	540
MAY , 1980				
14...	1210	811	8.0	480
JUN				
02...	1605	687	8.5	490
JUL				
03...	1310	469	8.0	510
AUG				
01...	1320	439	16.0	445
SEP				
03...	1540	217	11.5	465

10152000 SPANISH FORK NEAR LAKE SHORE, UT (LAT 40°09'30", LONG 111°43'50")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
11...	1135	22	13.0	950
NOV				
15...	1530	76	5.0	820
DEC				
11...	1310	103	2.0	710
JAN , 1980				
08...	1330	92	3.5	780
MAR				
18...	1500	156	7.0	780
APR				
22...	1340	700	9.0	400
MAY , 1980				
14...	1540	618	10.0	400
JUN				
06...	1030	240	10.0	415
JUL				
07...	1210	47	11.0	720
AUG				
05...	1140	24	17.0	720
SEP				
04...	1220	32	14.0	900

10153800 NORTH FORK PROVO RIVER NEAR KAMAS, UT (LAT 40°35'48", LONG 111°05'48")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
10...	1115	2.7	5.5	47
NOV				
20...	1430	4.0	.0	50
DEC				
06...	1200	4.3	.0	50
MAR , 1980				
19...	1150	3.6	.0	42
MAY				
15...	1110	136	4.5	48
22...	1155	235	5.5	47
JUN , 1980				
04...	1430	195	8.5	29
JUL				
09...	1330	77	6.5	40
AUG				
06...	0845	32	11.0	30
SEP				
17...	1350	5.8	11.5	40

10154200 PROVO RIVER NEAR WOODLAND, UT (LAT 40°33'28", LONG 111°10'05")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
10...	1615	41	10.5	175
NOV				
11...	1600	50	3.0	240
DEC				
06...	1430	47	3.0	230
JAN , 1980				
09...	1245	49	4.0	245
FEB				
21...	1016	51	3.0	205
MAR				
19...	1320	46	5.0	210
APR , 1980				
24...	1110	350	4.0	90
MAY				
15...	1520	479	6.0	90
22...	1520	1030	5.5	80
JUL				
09...	1525	326	8.0	270
AUG				
06...	1100	140	13.0	140
SEP				
17...	1115	74	9.5	200

10155000 PROVO RIVER NEAR HAILSTONE, UT (LAT 40°36'03", LONG 111°21'35")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
11...	1020	32	9.0	240
NOV				
16...	1200	69	.5	210
DEC				
13...	1340	65	.0	200
JAN , 1980				
09...	1415	79	1.0	210
MAR				
19...	1530	114	4.5	230
APR				
24...	1600	506	5.0	230
MAY , 1980				
15...	1810	514	6.5	240
JUN				
05...	1225	869	8.0	280
JUL				
09...	1700	393	7.5	190
AUG				
06...	1315	114	19.0	200
SEP				
17...	0920	62	9.5	200

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

JORDAN RIVER BASIN

10163000 PROVO RIVER AT PROVO, UT (LAT 40°14'16", LONG 111°41'55")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
12...	1300	86	15.0	300
NOV				
16...	1355	68	9.0	305
DEC				
13...	1600	81	4.5	450
JAN , 1980				
09...	1530	85	4.0	435
FEB				
26...	1435	127	5.0	305
MAR				
20...	1450	122	7.0	420
APR , 1980				
27...	1315	1040	12.0	370
MAY				
16...	1215	1080	9.0	400
JUN				
05...	1505	574	9.0	400
JUL				
02...	1440	767	8.5	385
AUG				
08...	1100	456	11.5	410
SEP				
03...	1150	473	14.0	325

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, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
29...	1430	25	6.5	440
DEC				
03...	1530	16	3.0	465
JAN , 1980				
17...	1540	23	1.0	445
MAR				
17...	1130	19	2.0	470
APR				
23...	0850	98	6.0	440
MAY				
08...	1055	276	6.0	430
MAY , 1980				
23...	1145	253	7.0	420
JUN				
04...	0945	265	8.0	290
19...	1130	340	6.5	350
JUL				
02...	1220	285	6.5	430
AUG				
05...	1510	72	7.5	425
SEP				
02...	1500	47	10.0	455

10170750 SURPLUS CANAL AT NORTH TEMPLE STREET, AT SALT LAKE CITY, UT (LAT 40°46'14", LONG 111°58'28")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
NOV , 1979				
15...	1425	73	11.0	1700
MAR , 1980				
20...	1500	525	9.0	1650
APR				
24...	1200	640	11.0	1400
JUN				
17...	1700	551	14.0	900
JUL , 1980				
23...	1220	148	24.0	1700
AUG				
14...	1245	78	23.0	1800
SEP				
19...	1030	151	17.0	1750

RUSH VALLEY

10172700 VERNON CREEK NEAR VERNON, UT(LAT 39°58'46", LONG 112°22'46")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
02...	1135	3.5	12.0	460
NOV				
13...	1600	3.9	7.0	450
DEC				
04...	0850	3.6	4.5	460
JAN , 1980				
08...	1545	3.5	6.0	460
MAR				
17...	1305	5.1	9.0	450
APR				
10...	1400	5.4	10.0	440
17...	2020	18	8.5	320
MAY , 1980				
22...	1540	9.5	14.5	380
JUN				
09...	2010	6.6	14.0	460
JUL				
14...	2025	4.8	14.5	480
AUG				
04...	1515	4.6	19.0	460
SEP				
12...	1440	5.0	13.0	460

TOOELE VALLEY

10172800 SOUTH WILLOW CREEK NEAR GRANTSVILLE, UT (LAT 40°29'47", LONG 112°34'25")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
03...	1405	3.1	9.0	360
NOV				
13...	1050	3.0	4.0	340
DEC				
06...	1330	2.8	5.0	350
JAN , 1980				
09...	1520	2.6	4.0	340
MAR				
18...	1405	3.1	5.5	360
APR , 1980				
28...	1620	15	8.0	300
MAY				
20...	1330	16	10.0	340
JUN				
11...	1740	40	8.0	220
SEP				
15...	1525	4.8	9.0	360

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

TOOELE VALLEY

10172805 NORTH WILLOW CREEK NEAR GRANTSVILLE, UT (LAT 40°31'58", LONG 112°34'19")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
16...	1420	2.0	10.5	320
NOV				
13...	1140	2.0	7.0	320
DEC				
06...	1215	2.0	6.0	340
JAN , 1980				
09...	1700	1.9	5.5	320
MAR				
18...	1140	2.9	6.0	300
APR				
15...	1040	4.1	8.0	290
28...	1420	15	9.0	235
MAY , 1980				
20...	1135	20	9.0	250
JUN				
11...	1550	22	10.0	210
JUL				
17...	1540	4.4	14.0	290
AUG				
12...	1435	2.9	14.0	320
SEP				
15...	1235	2.3	11.0	330

JORDAN RIVER BASIN

10172870 TROUT CREEK NEAR CALLAO, UT (LAT 39°44'39", LONG 113°53'21")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
03...	2030	1.5	11.0	85
NOV				
14...	1350	1.9	2.5	85
DEC				
04...	1450	1.9	1.5	80
JAN , 1980				
03...	1400	1.6	1.0	80
MAR				
12...	1635	2.0	2.0	90
APR				
15...	1910	4.1	6.0	90
MAY , 1980				
20...	2115	24	7.0	85
JUN				
12...	1555	62	8.0	70
JUL				
16...	1330	7.3	12.0	80
AUG				
19...	1725	3.0	11.0	85
SEP				
02...	1615	1.9	13.0	70

TRIBUTARIES BETWEEN GREAT SALT LAKE DESERT AND BEAR RIVER

10172952 DUNN CREEK NEAR PARK VALLEY, UT (LAT 41°51'31", LONG 113°19'35")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
10...	1530	1.4	15.5	230
DEC				
27...	1535	1.4	1.0	220
FEB , 1980				
27...	1735	2.6	4.0	220
MAY , 1980				
07...	1315	48	10.0	140
JUN				
12...	1125	80	9.0	150
AUG				
14...	1545	5.2	19.0	240

10172965 BAR M SPRING AT LOCOMOTIVE SPRINGS, NEAR SNOWVILLE, UT
(LAT 41°42'22", LONG 112°55'32")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
16...	0950	4.6	16.5	5420
NOV				
15...	1105	4.4	16.5	5360
JAN , 1980				
11...	1030	4.2	16.5	5300
FEB				
13...	1125	4.2	16.0	5400
MAR , 1980				
20...	1205	5.3	16.5	5300
APR				
25...	1130	5.8	16.0	5420
JUN				
10...	1150	5.3	16.5	5300
AUG				
19...	1300	5.8	16.0	5360

10172967 OFF SPRING AT LOCOMOTIVE SPRINGS, NEAR SNOWVILLE, UT
(LAT 41°42'12", LONG 112°54'40")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
16...	0940	.44	13.5	5630
NOV				
15...	1055	.47	14.0	5570
DEC				
04...	1055	.53	13.0	5540
JAN , 1980				
11...	1020	.57	13.0	5540
FEB				
13...	1040	.66	13.0	5610
MAR , 1980				
20...	1130	.76	15.5	5540
APR				
25...	1115	.74	15.5	5750
JUN				
10...	1145	.70	17.0	5600
JUL				
16...	1045	.55	15.0	5730
AUG				
19...	1225	.50	15.5	5600

10172968 SPARKS SPRING AT LOCOMOTIVE SPRINGS, NEAR SNOWVILLE, UT
(LAT 41°41'50", LONG 112°53'32")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
16...	0905	.65	13.0	6450
NOV				
15...	1030	.63	11.0	6380
DEC				
04...	1020	.45	8.0	6380
JAN , 1980				
11...	0955	.71	13.5	5540
FEB				
13...	1000	.89	9.0	6390
MAR , 1980				
20...	1040	1.1	13.0	6190
APR				
25...	1025	1.4	14.5	6170
JUN				
10...	1125	1.4	17.0	6130
JUL				
16...	1025	.87	17.5	5830
AUG				
19...	1200	.76	13.5	6750

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SEVIER LAKE BASIN

10173450 MAMMOTH CREEK ABOVE WEST HATCH DITCH NEAR HATCH, UT (LAT 37°37'19", LONG 112°31'07")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
05...	0920	33	5.5	220
NOV				
02...	1315	28	6.0	220
DEC				
03...	1130	18	.5	230
JAN , 1980				
02...	--	9.6	--	220
APR				
21...	1230	52	9.0	220
MAY , 1980				
20...	1145	202	9.0	195
JUN				
10...	1320	537	10.5	150
JUL				
10...	0920	149	7.0	195
AUG				
19...	1325	55	10.5	210

10174500 SEVIER RIVER AT HATCH, UT (LAT 37°39'07", LONG 112°25'47")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
05...	1130	98	9.5	330
NOV				
02...	1115	90	1.5	330
DEC				
03...	1314	82	4.0	320
JAN , 1980				
02...	--	79	--	320
FEB				
01...	1140	70	2.0	340
APR , 1980				
04...	1210	74	8.0	380
MAY				
05...	1145	552	8.0	360
20...	1445	704	12.0	340
JUL				
10...	1220	370	12.0	290
AUG				
19...	1155	155	12.0	320

10176300 PANGUITCH CREEK NEAR PANGUITCH, UT (LAT 37°46'18", LONG 112°32'12")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
05...	1400	7.2	14.0	280
NOV				
01...	1317	12	1.0	220
APR , 1980				
21...	1445	94	11.0	190
JUN				
04...	--	104	13.0	210
JUL , 1980				
01...	--	110	20.0	210
AUG				
01...	1640	56	19.0	210
SEP				
19...	1420	3.6	20.0	270

10180000 SEVIER RIVER NEAR CIRCLEVILLE, UT (LAT 38°06'15", LONG 112°20'08")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
NOV , 1979				
01...	1025	133	2.0	460
DEC				
04...	--	147	.5	420
JAN , 1980				
02...	--	154	--	380
FEB				
05...	--	146	3.0	400
APR , 1980				
04...	--	141	--	460
MAY				
05...	1535	615	13.5	350
JUN				
04...	--	683	--	330
AUG				
01...	1340	184	21.0	435

10183500 SEVIER RIVER NEAR KINGSTON, UT (LAT 38°12'22", LONG 112°12'25")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
01...	1300	39	13.0	620
30...	1100	91	5.5	540
NOV				
28...	1135	158	3.0	480
JAN , 1980				
14...	1030	211	3.0	490
APR				
03...	1130	144	6.0	460
MAY , 1980				
05...	1130	434	12.0	390
29...	1315	482	11.0	400
JUN				
30...	1245	298	17.0	395
JUL				
31...	1110	95	17.0	510
SEP				
03...	1100	50	15.0	560

10183900 EAST FORK SEVIER RIVER NEAR RUBYS INN, UT (LAT 37°34'33", LONG 112°15'54")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
05...	1105	9.2	8.0	450
NOV				
16...	0930	5.2	.0	540
MAY , 1980				
06...	1030	177	2.0	420
MAY , 1980				
21...	1130	271	4.0	425
JUN				
24...	1130	57	12.0	450

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SEVIER LAKE BASIN

10187300 OTTER CREEK NEAR KOOSHAREM, UT (LAT 38°36'40", LONG 111°48'40")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
02...	1510	9.5	12.0	115
31...	1045	7.2	1.0	115
JAN , 1980				
24...	1100	8.2	.5	130
APR				
15...	1210	9.0	3.0	110
MAY				
07...	1305	27	3.0	90
JUN , 1980				
26...	1320	17	18.0	90
AUG				
21...	1025	12	17.0	100
SEP				
04...	1600	10	13.0	100

10187500 OTTER CREEK ABOVE RESERVOIR NEAR ANTIMONY, UT (LAT 38°14'59", LONG 111°57'55")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
01...	1500	.15	13.0	650
30...	1300	.20	7.0	590
JAN , 1980				
14...	1300	54	2.0	500
APR				
15...	1115	13	4.0	500
MAY				
07...	1135	11	4.0	590
JUN , 1980				
27...	--	.50	--	650
JUL				
31...	--	.50	--	640
SEP				
03...	--	.50	--	630

10189000 EAST FORK SEVIER RIVER NEAR KINGSTON, UT (LAT 38°11'49", LONG 112°09'01")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
01...	1400	77	11.0	450
30...	1205	55	7.0	420
APR , 1980				
03...	1240	81	7.0	440
MAY				
05...	1300	266	14.0	430
29...	1425	445	9.0	410
JUN , 1980				
30...	1345	55	20.0	465
JUL				
31...	1155	105	19.0	440
SEP				
03...	--	101	--	435

10194000 SEVIER RIVER ABOVE CLEAR CREEK NEAR SEVIER, UT (LAT 38°34'20", LONG 112°15'27")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
03...	1005	162	13.0	510
30...	1430	135	6.0	510
JAN , 1980				
15...	1100	157	3.0	500
MAY				
22...	1000	864	11.0	420
JUL , 1980				
10...	1230	597	18.5	335
SEP				
03...	1430	389	21.0	440

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, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
03...	0915	11	9.0	260
30...	1545	13	4.5	250
NOV				
29...	1150	1.7	4.0	310
JAN , 1980				
15...	1000	11	3.0	300
APR				
10...	1245	34	5.0	260
MAY				
14...	1230	149	3.0	210
MAY , 1980				
22...	1115	252	7.0	160
JUN				
10...	--	252	6.0	120
JUL				
02...	1240	176	11.5	110
AUG				
01...	1200	39	17.0	195
SEP				
03...	1530	17	19.5	215

10205000 SEVIER RIVER NEAR SIGURD, UT (LAT 38°52'13", LONG 111°57'14")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
11...	1510	31	20.0	990
NOV				
15...	1530	76	10.0	1230
DEC				
11...	1030	119	5.0	940
JAN , 1980				
17...	1240	223	4.5	900
FEB				
27...	1625	500	9.0	650
APR , 1980				
11...	1000	210	2.0	800
MAY				
14...	1100	460	10.0	820
JUL				
03...	1030	260	20.0	620
AUG				
01...	1030	76	22.0	900
SEP				
04...	0850	4.1	12.0	1080

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SEVIER LAKE BASIN

10205030 SALINA CREEK NEAR EMERY, UT (LAT 38°54'43", LONG 111°31'47")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
10...	1445	11	11.5	400
NOV				
14...	1635	9.5	3.0	490
DEC				
11...	1330	9.2	1.5	445
MAY , 1980				
05...	--	78	9.5	395
AUG				
12...	1005	24	11.0	415

10206000 SALINA CREEK AT SALINA, UT (LAT 38°57'24", LONG 111°51'58")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
NOV , 1979				
15...	1305	9.9	4.5	1340
DEC				
11...	1535	29	1.0	580
JAN , 1980				
16...	1440	20	4.5	1020
APR				
09...	1720	4.6	14.0	1270
MAY , 1980				
05...	--	156	13.0	455
JUN				
17...	1200	123	14.0	500
AUG				
12...	1150	1.1	21.5	4600
SEP				
08...	1335	14	16.0	870

10215700 OAK CREEK NEAR SPRING CITY, UT (LAT 39°26'52", LONG 111°25'29")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
03...	1600	4.3	8.0	405
NOV				
14...	1600	3.7	5.0	440
DEC				
10...	1350	4.4	3.0	385
MAR , 1980				
21...	1100	3.4	3.0	400
MAY				
13...	1030	13	5.0	425
JUN , 1980				
03...	1120	48	7.0	425
20...	1250	50	8.0	380
JUL				
15...	1305	13	7.5	400
AUG				
04...	1020	13	7.5	400
SEP				
17...	1040	8.0	9.0	420

10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UT
(LAT 39°15'33", LONG 111°34'45")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
11...	1240	6.6	7.0	540
FEB , 1980				
26...	--	4.3	2.0	590
APR				
10...	1235	6.7	4.5	580
MAY				
06...	1430	82	8.0	460
JUN , 1980				
25...	1330	142	11.0	430
AUG				
12...	1600	18	--	430
SEP				
09...	1110	16	10.5	780

10216210 SAN PITCH RIVER NEAR STERLING, UT (LAT 39°12'20", LONG 111°42'37")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
MAY , 1980				
06...	1235	81	15.0	1430
JUN				
18...	1025	24	17.5	1350
AUG , 1980				
13...	1135	66	20.0	1310

10216400 TWELVEMILE CREEK NEAR MAYFIELD, UT (LAT 39°06'02", LONG 111°38'44")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
11...	0820	15	6.5	410
NOV				
15...	0840	8.6	--	530
DEC				
12...	--	4.2	--	670
JAN , 1980				
16...	--	11	3.5	450
FEB				
26...	--	12	5.5	460
APR , 1980				
10...	1055	14	4.5	480
JUN				
17...	1820	209	13.0	375
AUG				
13...	1320	38	16.5	390
SEP				
08...	1735	55	13.0	340

10217000 SEVIER RIVER BELOW SAN PITCH RIVER NEAR GUNNISON, UT
(LAT 39°09'19", LONG 111°52'37")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
10...	1345	88	13.5	2260
NOV				
14...	1430	183	7.0	2220
JAN , 1980				
15...	--	381	5.5	1340
APR				
09...	1400	617	12.5	960
MAY , 1980				
06...	1055	590	14.0	1130
AUG				
12...	1345	71	20.5	2800
SEP				
09...	1355	284	15.0	2360

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SEVIER LAKE BASIN

10219000 SEVIER RIVER NEAR JUAB, UT (LAT 39°22'29", LONG 112°02'20")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
10...	0945	270	15.5	1890
DEC				
12...	--	1.5	--	1970
JAN , 1980				
15...	--	1.9	5.0	1880
APR				
10...	1630	3.7	15.5	1840
MAY , 1980				
07...	1210	548	11.5	1660
JUN				
18...	1627	824	17.0	1600
AUG				
13...	1730	521	21.0	1400

10219200 CHICKEN CREEK NEAR LEVAN, UT (LAT 39°33'03", LONG 111°49'42")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
10...	1135	2.3	8.5	670
NOV				
14...	1220	2.8	3.0	870
DEC				
12...	--	.46	--	960
JAN , 1980				
15...	--	3.0	3.5	710
FEB				
25...	1630	4.1	8.0	640
APR , 1980				
10...	1500	8.6	9.0	510
MAY				
07...	--	122	7.0	475
JUN				
18...	1255	23	14.0	660
AUG				
13...	1530	6.2	20.5	850
SEP				
09...	1645	6.2	14.0	1370

10224100 OAK CREEK ABOVE LITTLE CREEK NEAR OAK CITY, UT
(LAT 39°21'23", LONG 112°13'55")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
04...	1020	.42	8.0	265
NOV				
01...	1155	.57	3.0	250
DEC				
05...	1030	.60	2.0	245
JAN , 1980				
08...	1617	.60	3.0	230
APR				
11...	--	7.3	4.5	150
MAY , 1980				
07...	--	38	7.0	110
JUN				
19...	--	6.6	12.0	160
AUG				
14...	1232	1.0	16.5	260
SEP				
10...	1400	1.0	14.5	260

10224300 OAK CREEK BELOW BIG SPRING NEAR OAK CITY, UT
(LAT 39°21'11", LONG 112°17'07")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
04...	1155	2.6	9.5	430
NOV				
01...	1345	2.5	6.0	470
DEC				
05...	1205	2.4	5.0	490
JAN , 1980				
08...	1820	2.6	6.0	235
APR				
11...	1130	23	7.5	320
MAY , 1980				
07...	1630	76	9.0	230
JUN				
19...	1325	30	14.0	410
AUG				
14...	1340	9.1	13.0	480
SEP				
10...	1455	6.8	13.0	460

BEAVER RIVER BASIN

10234500 BEAVER RIVER NEAR BEAVER, UT (LAT 38°16'49", LONG 112°34'01")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
25...	1205	22	16.5	130
NOV				
26...	1218	20	2.0	140
DEC				
27...	1600	19	1.0	130
MAR , 1980				
26...	--	23	--	140
APR				
22...	1625	88	7.0	100
MAY , 1980				
29...	1055	192	--	90
JUN				
17...	1000	480	7.5	70
27...	1000	347	9.5	80
AUG				
27...	1045	64	12.0	110
SEP				
29...	1250	32	10.0	120

10239000 BEAVER RIVER AT ROCKY FORD DAM NEAR MINERSVILLE, UT
(LAT 38°13'03", LONG 112°50'22")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979				
10...	1330	6.0	16.5	560
NOV				
15...	1030	5.6	5.0	660
JAN , 1980				
09...	1435	9.3	.5	580
FEB				
27...	1230	12	10.5	580
MAY , 1980				
29...	1305	188	12.0	480
JUN				
23...	1500	395	12.5	360
AUG				
18...	1530	125	20.0	375
SEP				
10...	1515	40	17.0	530

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PAROWAN VALLEY

10241400 LITTLE CREEK NEAR PARAGONAH, UT (LAT 37°54'20", LONG 112°42'30")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT , 1979					MAY , 1980				
11...	1210	.93	9.5	360	07...	1250	12	10.0	230
NOV					JUN				
15...	1315	3.1	8.0	430	24...	1205	12	15.0	275
DEC					JUL				
10...	1400	1.4	1.5	375	22...	1145	2.7	15.5	295
JAN , 1980					AUG				
10...	1030	3.8	2.0	360	20...	1050	1.6	10.0	325
FEB					SEP				
28...	1330	2.9	3.5	345	09...	0955	2.2	12.0	320
APR									
15...	0945	3.4	5.0	330					

10241470 CENTER CREEK ABOVE PAROWAN CREEK NEAR PAROWAN, UT (LAT 37°47'35", LONG 112°48'55")

OCT , 1979					MAY , 1980				
09...	1423	3.8	12.0	310	23...	1400	11	10.0	230
NOV					JUN				
15...	1510	4.0	2.0	360	23...	1435	13	15.0	220
DEC					JUL				
10...	1553	3.8	3.5	320	22...	1425	11	--	205
JAN , 1980					AUG				
10...	1230	4.1	3.5	325	26...	1240	6.8	12.0	275
FEB					SEP				
27...	1515	5.3	7.0	340	09...	1215	7.2	12.0	275
APR									
15...	--	6.1	--	365					

10241600 SUMMIT CREEK NEAR SUMMIT, UT (LAT 37°47'13", LONG 112°54'56")

OCT , 1979					MAY , 1980				
09...	1255	1.4	13.0	190	06...	1445	21	9.5	360
NOV					JUN				
16...	1120	1.2	9.0	510	27...	1215	8.2	17.0	420
DEC					JUL				
04...	1100	1.3	--	380	22...	1540	3.5	21.5	380
JAN , 1980					AUG				
10...	1645	1.2	3.5	480	26...	1425	2.0	19.0	385
FEB					SEP				
27...	1550	3.4	8.5	450	09...	1405	2.9	15.0	395
APR									
15...	--	3.2	--	450					

10242000 COAL CREEK NEAR CEDAR CITY, UT (LAT 37°40'20", LONG 113°02'02")

NOV , 1979					MAY , 1980				
14...	1350	11	5.0	740	08...	--	196	--	340
DEC					JUL				
13...	1125	7.2	.0	850	21...	1800	23	24.0	500
JAN , 1980					AUG				
15...	1520	14	5.0	680	21...	1110	15	13.0	560
FEB					SEP				
29...	1615	16	10.0	610	18...	1450	14	20.0	630
APR									
14...	1422	32	13.5	540					

RAFT RIVER BASIN

13077700 GEORGE CREEK NEAR YOST, UT (LAT 41°55'07", LONG 113°28'51")

OCT , 1979					MAY , 1980				
10...	1120	2.0	9.0	175	07...	1100	45	4.5	105
DEC					JUN				
27...	1230	1.4	2.0	165	12...	1525	94	8.5	100
FEB , 1980					AUG				
27...	1355	1.7	6.5	175	14...	1105	5.3	13.0	160

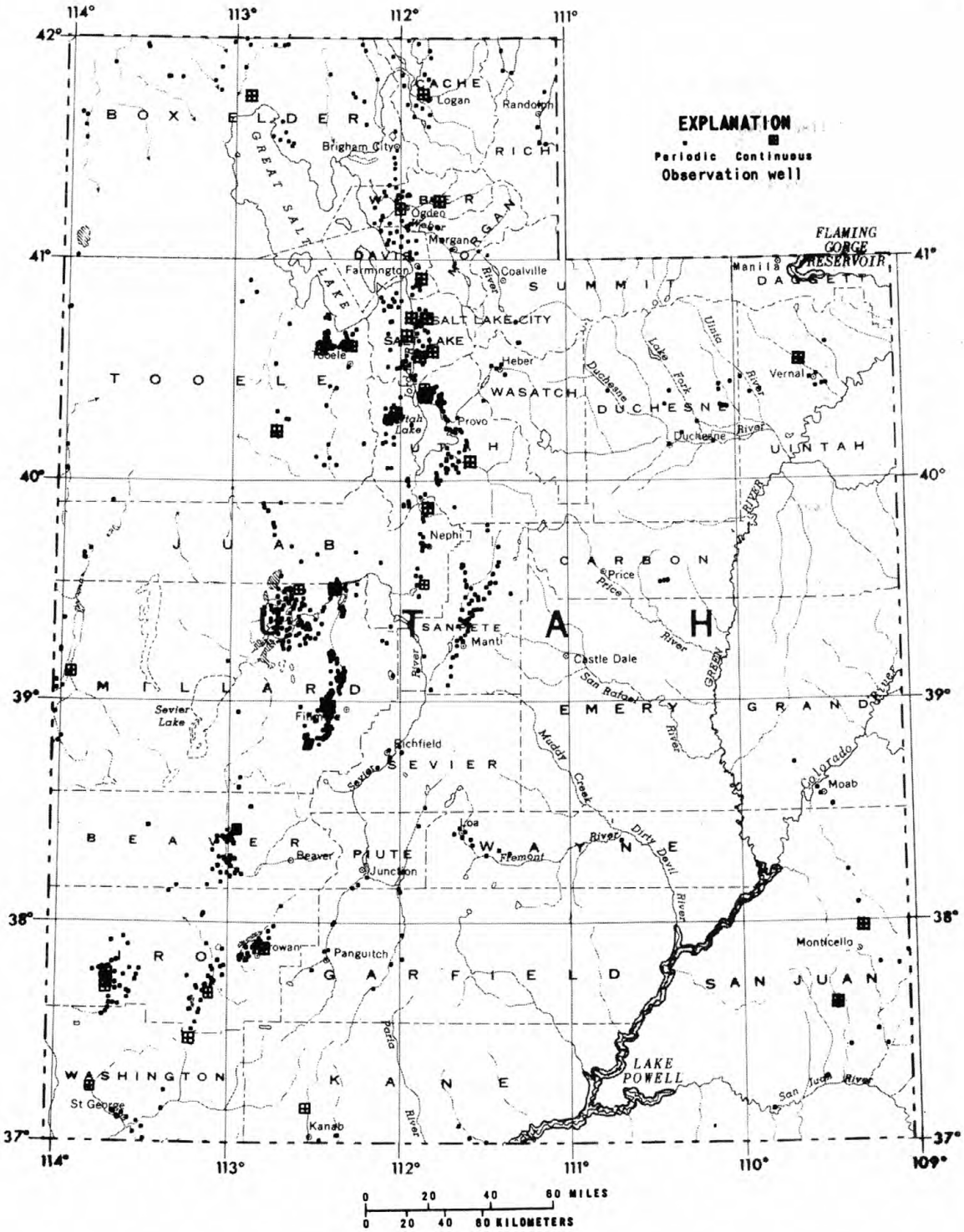

Figure 12.—Location of observation wells in Utah where data were obtained on ground-water levels.

BEAVER COUNTY

382551112555101. LOCAL NUMBER, (C-27-10)25CBD- 1.
LOCATION.--LAT 38 DEG 25 MIN 51 SEC, LONG 112 DEG 55 MIN 51 SEC, HYDROLOGIC UNIT 16030007.
OWNER: PHILLIPS PETROLEUM.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--DRILLED WELL, DIAM 6 IN (0.15 M), DEPTH 400 FT (122 M).
DATUM.--LAND SURFACE DATUM IS 5320 FT (1622 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, 325.56 FT (99.2 M) BELOW LAND SURFACE DATUM, SEPT. 6, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	325.04	325.19	324.85	325.03	325.04	325.16	325.06	325.18	325.26	325.29	325.28	325.39
10	325.05	325.06	324.76	324.84	325.02	324.91	324.97	325.14	325.19	325.31	325.33	325.33
15	325.08	325.05	324.95	325.15	325.24	325.02	325.07	325.18	325.39	325.35	325.28	325.42
20	324.87	325.06	324.95	325.22	325.02	325.00	324.99	325.21	325.31	325.34	325.42	325.30
25	324.92	324.78	325.09	324.79	325.20	325.09	325.21	325.39	325.34	325.28	325.37	325.38
EOM	324.93	324.98	325.05	325.22	325.22	325.00	425.10	325.22	325.27	325.31	325.34	325.34

BOX ELDER COUNTY

414411112543701. LOCAL NUMBER, (B-12-9)30CDA-1.
LOCATION.--LAT 41 DEG 44 MIN 11 SEC, LONG 112 DEG 54 MIN 37 SEC, HYDROLOGIC UNIT 16020309.
OWNER: U. S. GEOLOGICAL SURVEY.
AQUIFER.--BASALT.
WELL CHARACTERISTICS.--DRILLED OBSERVATION ARTESIAN WELL, DIAM 8 IN (0.20 M), DEPTH 162 FT (49.4 M), CASED TO 131 FT (39.9 M).
DATUM.--LAND SURFACE DATUM IS 4239 FT (1292 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, 25.35 FT (7.73 M) BELOW LAND SURFACE DATUM, NOV. 30, 1979, JAN. 31, FEB. 5, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.24	25.30	25.33	25.28	25.35	25.10	24.98	24.93	24.90	24.90	24.90	25.00
10	25.27	25.30	25.31	25.25	25.33	25.07	24.98	24.91	24.86	24.91	24.93	25.00
15	25.26	25.31	25.33	25.30	25.32	25.04	24.96	24.91	24.90	24.90	24.91	25.01
20	25.24	25.32	25.31	25.34	25.23	25.03	24.92	24.92	24.88	24.91	24.97	25.01
25	25.27	25.29	25.32	25.31	25.23	25.02	24.94	24.90	24.88	24.90	24.97	25.07
EOM	25.28	25.35	25.32	25.35	25.17	25.00	24.92	24.91	24.89	24.91	24.98	25.10

CACHE COUNTY

414501111520001. LOCAL NUMBER, (A-12-1)29CAB-1.
LOCATION.--LAT 41 DEG 45 MIN 01 SEC, LONG 111 DEG 52 MIN 00 SEC, HYDROLOGIC UNIT 16010203.
OWNER: EDWIN GOSSNER.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--DRILLED UNUSED ARTESIAN WELL, DIAM 2 IN (0.05 M), DEPTH 43 FT (13.1 M), CASED TO 43 FT (13.1 M).
DATUM.--LAND SURFACE DATUM IS 4442 FT (1354 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 1979 TO SEPTEMBER 1980
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.40	19.30	19.20	19.20	18.90	18.30	18.10	18.30	18.90	18.40	18.50	19.70
10	19.40	19.60	19.20	19.00	19.00	18.50	18.10	17.90	18.80	18.50	18.50	19.60
15	19.30	19.60	19.30	19.00	18.10	18.30	18.60	18.50	18.20	18.40	18.30	20.30
20	19.20	19.30	19.50	18.90	18.70	18.30	18.60	18.40	18.00	19.40	19.60	20.30
25	19.50	19.30	19.00	19.20	18.40	18.00	18.30	18.40	18.00	18.00	19.40	20.40
EOM	19.50	19.40	18.70	19.00	18.40	18.20	18.20	18.60	18.00	17.30	19.70	20.50

DAVIS COUNTY

405447111524301. LOCAL NUMBER, (A-2-1)18ABD-12.
LOCATION.--LAT 40 DEG 54 MIN 47 SEC, LONG 111 DEG 52 MIN 43 SEC, HYDROLOGIC UNIT 16020102.
OWNER: T. Q. WILLIAMS.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--JETTED UNUSED ARTESIAN WELL, DIAM 2 IN (0.05 M), DEPTH 90 FT (27.4 M), CASED TO 90 FT (27.4 M).
DATUM.--LAND SURFACE DATUM IS 4285 FT (1306 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 1979 TO SEPTEMBER 1980
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.70	19.00	15.60	14.20	16.50	16.30	16.10	15.20	16.10	16.20	15.60	15.80
10	18.30	19.20	14.90	14.40	16.50	16.30	15.90	15.00	16.40	16.00	15.60	15.80
15	18.20	18.90	15.00	14.80	16.50	16.40	15.70	15.10	16.20	16.10	15.60	15.80
20	19.00	16.20	15.00	16.40	16.50	16.40	15.70	15.60	16.10	16.30	15.70	15.90
25	18.50	15.20	15.00	16.70	16.20	16.20	15.40	15.70	15.90	16.60	15.70	15.90
EOM	18.70	15.50	14.20	16.70	16.20	16.10	15.10	16.00	15.90	15.60	15.70	16.00

IRON COUNTY

375241112471001. LOCAL NUMBER, (C-34-8)5BCA-1.
LOCATION.--LAT 37 DEG 52 MIN 41 SEC, LONG 112 DEG 47 MIN 10 SEC, HYDROLOGIC UNIT 16030006.
OWNER: PARAGONAH CANAL COMPANY.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--DRILLED UNUSED ARTESIAN WELL, DIAM 12 IN (0.30 M), DEPTH 420 FT (128 M).
DATUM.--LAND SURFACE DATUM IS 5802 FT (1768 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, 40.22 FT (12.3 M) BELOW LAND SURFACE DATUM, SEPT. 14, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	39.38	39.67	39.76	39.65	39.50	39.34	39.21	39.31	39.23	39.26	39.59	40.14
10	39.46	39.67	39.69	39.63	39.48	39.30	39.21	39.26	39.12	39.36	39.69	40.16
15	39.45	39.72	39.70	39.61	39.45	39.27	39.24	39.25	39.03	39.41	39.74	40.15
20	39.62	39.79	39.65	39.58	39.43	39.25	39.24	39.24	39.07	39.46	39.86	39.81
25	39.66	39.74	39.62	39.56	39.40	39.24	39.24	39.23	39.17	39.46	39.94	39.77
EOM	39.70	39.78	39.65	39.53	39.39	39.22	39.30	39.28	39.18	39.50	40.06	39.84

374530113422001. LOCAL NUMBER, (C-35-17)13BDC-1.
LOCATION.--LAT 37 DEG 45 MIN 30 SEC, LONG 113 DEG 42 MIN 20 SEC, HYDROLOGIC UNIT 16030006.
OWNER: AUSTIN D. MOYLE.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--DRILLED UNUSED WATER-TABLE WELL, DIAM 16 IN (0.41 M), DEPTH 100 FT (30.5 M), PERFORATED 26-35 FT (7.92-10.7 M), 60-70 FT (18.3-21.3 M), 90-100 FT (27.4-30.5 M).
DATUM.--LAND SURFACE DATUM IS 5164.80 FT (1574 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 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	75.77	74.32	73.36	72.73	72.19	71.73	70.90	71.10	73.51	75.47	75.19	79.24
10	75.49	74.10	73.17	72.57	72.10	71.56	70.77	72.69	73.99	76.03	77.13	76.13
15	75.23	73.97	73.14	72.54	72.09	71.42	70.69	72.76	74.42	76.29	77.29	75.26
20	74.98	73.81	72.96	72.48	71.95	71.27	70.53	71.73	72.95	76.90	77.76	74.77
25	74.75	73.57	72.91	72.29	71.96	71.16	70.75	73.27	74.76	77.30	78.22	74.42
EOM	74.48	73.58	72.79	72.32	71.87	71.00	70.80	73.59	74.99	76.84	78.92	74.12

374132113063601. LOCAL NUMBER, (C-36-11)8AAB-1.
LOCATION.--LAT 37 DEG 41 MIN 32 SEC, LONG 113 DEG 06 MIN 36 SEC, HYDROLOGIC UNIT 16030006.
OWNER: ARIL STRATTON.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--DRILLED UNUSED ARTESIAN WELL, DIAM 8 IN (0.20 M), DEPTH 220 FT (67.1 M).
DATUM.--LAND SURFACE DATUM IS 5563 FT (1696 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 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	89.65	83.78	79.70	76.65	68.48	69.39	68.37	67.45	67.42	71.79	75.46	79.91
10	89.87	82.78	78.91	75.19	68.63	69.54	68.12	67.35	68.27	71.95	76.17	79.44
15	89.54	82.11	77.88	73.72	68.78	69.28	68.01	67.21	68.70	72.65	76.88	77.82
20	87.93	81.16	77.14	73.31	68.93	68.95	67.68	67.03	69.97	73.35	77.84	77.51
25	86.18	81.27	76.98	72.79	69.09	68.82	67.57	66.66	70.31	74.06	78.88	77.19
EOM	84.69	80.49	76.79	71.36	69.22	68.59	67.34	66.73	70.96	74.76	79.84	76.88

374306113422501. LOCAL NUMBER, (C-36-17) 1ACC-1.
LOCATION.--LAT 37 DEG 43 MIN 06 SEC, LONG 113 DEG 42 MIN 25 SEC, HYDROLOGIC UNIT 16030006.
OWNER: SAM ARENTZ.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--DRILLED WATER-TABLE WELL, DIAM 4 IN (0.10 M), DEPTH 200 FT (61.0 M), CASED TO 200 FT (61.0 M).
DATUM.--LAND SURFACE DATUM IS 5208.41 FT (1588 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, 131.30 FT (40.0 M) BELOW LAND SURFACE DATUM, MAY 25, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	124.30	122.64	121.27	120.10	119.60	121.94	126.94	127.67	129.00	120.70	122.40	121.70
10	124.07	122.38	121.02	120.00	119.50	122.85	127.19	128.67	126.30	121.20	122.40	121.50
15	123.72	122.19	121.25	119.95	119.40	123.65	127.27	129.72	123.75	121.70	122.35	121.30
20	123.44	121.94	120.97	119.85	119.30	124.52	127.13	130.54	121.20	122.10	122.25	121.10
25	123.20	121.62	120.75	119.78	119.80	125.43	126.88	131.30	120.40	122.30	122.15	120.80
EOM	122.84	121.51	120.43	119.63	120.70	126.27	126.88	131.00	122.82	122.40	121.90	120.60

374309113415301. LOCAL NUMBER, (C-36-17)36AUD- 1.
LOCATION.--LAT 37 DEC 43 MIN 09 SEC, LONG 113 DEG 41 MIN 53 SEC, HYDROLOGIC UNIT 16030006.
OWNER: SHERWOOD BRACKEN.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--DRILLED UNUSED WATER-TABLE WELL, DIAM 14 IN (0.36 M), DEPTH 202 FT (61.6 M).
DATUM.--LAND SURFACE DATUM IS 5269.89 FT (1606 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 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	168.78	166.53	164.39	164.21	163.26	159.63	138.40	133.90	139.84	151.07	158.78	161.98
10	168.42	165.89	163.97	163.80	162.96	156.56	136.15	136.98	140.65	152.47	158.16	159.35
15	168.07	165.62	163.98	164.00	162.85	153.00	133.90	136.93	142.82	153.87	161.71	158.15
20	167.53	165.27	164.11	164.04	162.35	145.60	132.92	140.07	147.07	155.27	160.46	157.07
25	167.07	164.70	164.21	163.36	162.22	143.35	133.22	138.88	149.07	156.67	159.71	156.39
EOM	166.52	164.73	164.43	163.64	161.62	140.65	132.88	139.70	149.67	158.07	160.28	155.83

JUAB COUNTY

395242111502701. LOCAL NUMBER, (D-11-1)8AAD-1.
LOCATION.--LAT 39 DEG 52 MIN 42 SEC, LONG 111 DEG 50 MIN 27 SEC, HYDROLOGIC UNIT 16020201.
OWNER: ORVIL ANDREWS AND OTHERS.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--JETTED IRRIGATION AND STOCK ARTESIAN WELL, DIAM 6 IN (0.15 M), DEPTH 100 FT (30.5 M), CASED TO 100 FT (30.5 M).
DATUM.--LAND SURFACE DATUM IS 4929.30 FT (1502 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 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	27.77	21.88	19.14	17.08	15.61	14.01	12.64	11.73	15.30	18.60	19.02	21.50
10	27.32	21.25	18.63	16.63	15.30	13.82	12.40	11.44	15.90	18.78	19.80	20.80
15	26.00	20.82	18.43	16.53	15.06	13.57	12.24	11.20	16.53	18.55	20.00	19.53
20	24.68	20.33	18.07	16.39	14.68	13.32	11.86	11.00	16.08	19.58	20.50	18.22
25	23.48	19.70	17.80	15.97	14.58	13.17	11.73	11.46	16.92	20.34	21.00	17.40
EOM	22.50	19.59	17.47	15.88	14.37	12.89	11.78	13.90	17.60	19.12	21.00	16.80

393143111523301. LOCAL NUMBER, (C-15- 1)12ABA- 1.
LOCATION.--LAT 39 DEG 31 MIN 43 SEC, LONG 111 DEG 52 MIN 33 SEC, HYDROLOGIC UNIT 16030005.
OWNER: R. C. MANGELSON.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--DRILLED STOCK ARTESIAN WELL, DIAM 6 IN (0.15 M), DEPTH 117 FT (36 M), CASED TO 117 FT (36 M).
DATUM.--LAND SURFACE DATUM IS 5196.90 FT (1584 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 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	60.40	60.30	60.00	59.93	59.86	59.53	59.33	59.02	57.13	57.64	57.25	55.92
10	60.39	60.24	59.96	59.88	59.84	59.49	59.31	58.51	57.02	57.70	57.21	55.66
15	60.36	60.21	59.97	59.92	59.81	59.44	59.29	58.10	57.58	57.70	57.12	55.57
20	60.31	60.14	59.96	59.93	59.65	59.43	59.24	57.62	57.58	57.80	56.95	55.48
25	60.32	60.05	59.95	59.84	59.65	59.40	59.24	57.09	57.63	57.63	56.81	55.47
EOM	60.30	60.08	59.95	59.90	59.60	59.36	59.20	57.19	57.63	57.41	56.49	55.44

KANE COUNTY

370901112335001. LOCAL NUMBER, (C-42- 6)19BAA- 1.
LOCATION.--LAT 37 DEG 09 MIN 01 SEC, LONG 112 DEG 33 MIN 50 SEC, HYDROLOGIC UNIT 15010003.
OWNER: KANAB CITY.
AQUIFER.--NAVAJO SANDSTONE.
WELL CHARACTERISTICS.--DRILLED WELL, DIAM 18 IN (0.46 M), DEPTH 700 FT (213 M).
DATUM.--LAND SURFACE DATUM IS 5620 FT (1713 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, 165.51 FT (50.4 M) BELOW LAND SURFACE DATUM, FEB. 25, 1977; LOWEST, 167.40 FT (51.0 M) BELOW LAND SURFACE DATUM, APR. 8, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	166.80	166.74	166.77	166.88	166.79	165.13	167.08	166.84	166.79	167.02	166.94	167.13
10	166.82	166.65	166.60	166.47	166.72	165.21	167.09	165.89	166.77	167.08	167.04	167.08
15	166.71	167.03	166.89	166.89	166.67	166.89	167.17	166.22	166.99	167.06	167.10	167.09
20	166.33	166.66	166.74	166.96	166.62	167.04	166.85	166.76	166.96	167.02	167.14	166.89
25	166.77	166.60	166.91	166.90	166.12	166.82	166.72	166.64	166.99	167.03	167.20	167.03
EOM	166.61	166.92	167.01	166.84	165.42	166.92	166.56	166.72	167.01	167.16	167.03	167.18

MILLARD COUNTY

393046112231301. LOCAL NUMBER, (C-15-5)15DAD- 1.
LOCATION.--LAT 39 DEG 30 MIN 46 SEC, LONG 112 DEG 23 MIN 13 SEC, HYDROLOGIC UNIT 16030005.
OWNER: ANACONDA COPPER CO.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--DRILLED UNUSED ARTESIAN WELL, DIAM 12 IN (0.30 M), DEPTH 1190 FT (363 M), CASED TO 1115 FT (340 M), PERFORATED 860-1050 FT (262-320 M).
DATUM.--LAND SURFACE DATUM IS 4780 FT (1457 M) ABOVE MEAN SEA LEVEL. MEASURING POINT: TOP OF 12 IN (0.30 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 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	144.39	134.73	129.88	125.80	122.71	120.54	119.41	118.27	116.94	115.79	114.18	113.57
10	142.08	133.68	129.87	125.34	122.13	120.12	119.34	118.07	116.66	115.61	114.19	113.46
15	140.19	133.00	128.58	124.90	121.75	120.10	119.22	117.68	116.58	115.48	114.10	113.35
20	138.44	132.13	127.81	124.54	121.51	119.75	118.88	117.62	116.30	115.28	113.89	113.25
25	137.07	131.15	127.26	123.80	121.52	119.64	118.68	117.34	116.10	114.86	113.78	113.14
EOM	135.70	130.11	126.71	123.04	121.09	119.48	118.47	117.12	115.99	114.54	113.68	113.02

393020112362201. LOCAL NUMBER, (C-15- 7)23BAC- 1.
LOCATION.--LAT 39 DEG 30 MIN 20 SEC, LONG 112 DEG 36 MIN 22 SEC, HYDROLOGIC UNIT 16030007.
OWNER: U. S. GEOLOGICAL SURVEY.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--DRILLED ARTESIAN WELL, DIAM 6 IN (0.15 M), DEPTH 182 FT (55.5 M).
DATUM.--LAND SURFACE DATUM IS 4630 FT (1411 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, 12.70 FT (3.87 M) BELOW LAND SURFACE DATUM, APR. 17, 18, 1979; LOWEST, 15.91 FT (4.85 M) BELOW LAND SURFACE DATUM, OCT. 16, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.88	15.75	15.33	14.73	14.25	13.72	13.38	13.35	13.10	13.22	13.42	13.40
10	15.91	15.67	15.21	14.63	14.16	13.66	13.37	13.35	13.09	13.27	13.42	13.32
15	15.88	15.65	15.18	14.62	14.02	13.57	13.37	13.34	13.14	13.31	13.40	13.31
20	15.76	15.52	15.05	14.57	13.92	13.55	13.36	13.14	13.14	13.36	13.40	13.26
25	15.78	15.40	15.00	14.39	13.91	13.50	13.35	13.09	13.15	13.41	13.40	13.26
EOM	15.76	15.44	14.88	14.37	13.83	13.40	13.35	13.09	13.18	13.45	13.40	13.26

390758113565501. LOCAL NUMBER, (C-19-19)26ABA- 1.
LOCATION.--LAT 39 DEG 07 MIN 58 SEC, LONG 113 DEG 56 MIN 55 SEC, HYDROLOGIC UNIT 16020301.
OWNER: ESKDALE TOWN.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--DRILLED ARTESIAN WELL, DIAM 16 IN (0.41 M), DEPTH UNKNOWN.
DATUM.--LAND SURFACE DATUM IS 4948 (1508 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, 20.76 FT (6.33 M) BELOW LAND SURFACE DATUM, OCT. 10, 1979.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.67	20.17	19.74	19.45	19.26	19.04	18.84	18.80	18.72	18.53	19.09	19.12
10	20.76	20.07	19.68	19.40	19.23	19.02	18.82	18.80	18.68	18.61	19.09	19.15
15	20.70	20.02	19.64	19.39	19.20	18.97	18.79	18.77	18.66	18.83	19.18	19.10
20	20.35	19.95	19.58	19.37	19.16	18.94	18.75	18.74	18.61	18.96	19.25	19.05
25	20.35	19.90	19.54	19.32	19.15	18.91	18.76	18.61	18.57	18.76	19.37	19.00
EOM	20.26	19.80	19.50	19.30	19.11	18.88	18.74	18.78	18.58	18.98	18.97	19.00

385844112245801. LOCAL NUMBER, (C-21-5)21ABA-1.
LOCATION.--LAT 38 DEG 58 MIN 44 SEC, LONG 112 DEG 24 MIN 58 SEC, HYDROLOGIC UNIT 16030005.
OWNER: DELBERT CRAPO.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--DRILLED UNUSED ARTESIAN WELL, DIAM 6 IN (0.15 M), DEPTH 246 FT (75.0 M), CASED TO 220 FT (67.1 M).
DATUM.--LAND SURFACE DATUM IS 4744.44 FT (1446 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 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	59.18	54.77	51.46	48.44	45.67	43.38	41.82	54.84	56.17	60.15	60.91	61.65
10	58.89	54.13	50.89	47.81	45.21	43.00	43.20	54.31	56.85	60.82	61.96	53.14
15	57.91	53.66	50.44	47.49	44.74	42.66	44.67	52.40	58.43	60.57	61.13	52.55
20	56.74	53.03	49.89	47.12	44.29	42.32	49.98	54.13	59.24	60.32	62.77	53.07
25	56.02	52.48	49.56	46.36	44.19	42.09	51.60	54.81	60.36	60.07	61.42	53.09
EOM	55.20	52.07	48.93	46.16	43.84	41.78	53.23	55.49	60.32	59.84	61.88	53.11

SALT LAKE COUNTY

404403111562001. LOCAL NUMBER, (C-1-1)15BDD-11.
LOCATION.--LAT 40 DEG 44 MIN 03 SEC, LONG 111 DEG 56 MIN 20 SEC, HYDROLOGIC UNIT 16020204.
OWNER: SOUVALL BROTHERS.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--JETTED ARTESIAN WELL, DIAM 2 IN (0.05 M), DEPTH 455 FT (139 M).
DATUM.--LAND SURFACE DATUM IS 4230 FT (1289 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, 1970, JULY 25, 1970, AUG. 10, 1970 AUG. 15, 1970.

WATER LEVEL, IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.70	12.00	14.70	15.50	16.00	18.00	19.60	14.90	15.60	13.60	13.10	13.00
10	11.70	12.50	14.70	15.30	16.20	18.50	20.00	15.00	15.60	14.00	13.20	13.20
15	11.70	13.00	14.90	15.50	16.60	18.70	19.90	15.50	15.30	14.10	11.60	13.40
20	11.40	13.20	15.00	15.30	17.00	19.10	19.40	15.50	15.00	14.10	11.60	13.60
25	12.00	13.60	15.00	15.60	17.30	19.20	14.00	15.60	13.40	12.10	12.10	13.50
EOM	12.10	14.70	15.30	15.60	17.50	19.40	14.20	15.50	13.50	12.50	12.70	13.70

403916111575901. LOCAL NUMBER, (C-2-1)9CCC-1.
LOCATION.--LAT 40 DEG 39 MIN 16 SEC, LONG 111 DEG 57 MIN 59 SEC, HYDROLOGIC UNIT 16020204.
OWNER: SALT LAKE COUNTY CONSERVANCY DISTRICT.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--DRILLED ARTESIAN UNUSED PUBLIC SUPPLY WELL, DIAM 16 IN (0.41 M), DEPTH 795 FT (242 M), PERFORATED 187-372 FT (57-113 M).
DATUM.--LAND SURFACE DATUM IS 4461 FT (1360 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, 67.35 FT (20.5 M) BELOW LAND SURFACE DATUM, APR. 5, 1966.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	61.40	61.48	61.75	62.09	62.54	62.82	63.29					
10	61.40	61.49	61.77	62.04	62.59	62.94	63.38					
15	61.40	61.61	61.91	62.20	62.60	63.00	63.48					
20	61.40	61.58	61.93	62.34	62.56	63.12	---					
25	61.40	61.54	61.98	62.29	62.81	63.10	---					
EOM	61.40	61.74	62.09	62.48	62.83	63.17	---					

404357111503901. LOCAL NUMBER, (D-1-1)16CAA-1.
LOCATION.--LAT 40 DEG 43 MIN 57 SEC, LONG 111 DEG 50 MIN 39 SEC, HYDROLOGIC UNIT 16020204.
OWNER: SALT LAKE CITY CORPORATION.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--DRILLED UNUSED WATER-TABLE WELL, DIAM 20 IN (0.51 M), DEPTH 502 FT (153 M), CASED TO 502 FT (153 M), PERFORATED 90-486 FT (27.4-148 M).
DATUM.--LAND SURFACE DATUM IS 4489.69 FT (1368 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 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	58.91	58.76	58.57	58.60	58.69	58.59	58.18	57.31	56.67	56.67	56.91	56.94
10	58.92	58.71	58.57	58.58	58.69	58.59	58.05	57.17	56.62	56.67	56.94	56.92
15	58.92	58.70	58.58	58.60	58.71	58.53	57.92	57.06	56.60	56.71	56.95	56.99
20	58.93	58.68	58.59	58.60	58.63	58.53	57.75	56.95	56.60	56.76	56.96	57.01
25	58.87	58.62	58.59	58.63	58.63	58.45	57.59	56.85	56.62	56.87	56.96	57.03
EOM	58.85	58.62	58.60	58.66	58.63	58.31	57.46	56.76	56.65	56.90	56.94	---

403452111484301. LOCAL NUMBER, (D-3-1)2CCC-1.
LOCATION.--LAT 40 DEG 34 MIN 52 SEC, LONG 111 DEG 48 MIN 43 SEC, HYDROLOGIC UNIT 16020204.
OWNER: METROPOLITAN WATER DISTRICT.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--DRILLED UNUSED ARTESIAN WELL, DIAM 24 IN (0.61 M), DEPTH 1007 FT (307 M), PERFORATED 525-990 FT (160-302 M).
DATUM.--LAND SURFACE DATUM IS 5000 FT (1524 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, 559.20 FT (170 M) BELOW LAND SURFACE DATUM, AUG. 16, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	555.10	554.54	551.04	548.52	547.36	546.23	545.75	548.61	550.57	555.78	558.50	558.12
10	555.10	553.52	550.46	547.95	547.10	546.22	545.80	548.77	551.34	556.30	558.98	557.72
15	555.10	553.14	550.27	548.23	546.80	546.07	545.76	549.27	552.72	556.94	559.06	556.86
20	555.10	552.36	549.68	548.19	546.50	546.02	546.36	549.92	553.56	557.50	558.90	556.78
25	555.10	551.44	549.44	547.48	546.93	545.94	547.27	550.17	554.70	558.00	558.84	556.96
EOM	555.10	551.55	549.10	547.71	546.62	545.79	547.80	550.58	555.82	558.60	558.16	557.48

403330111531601. LOCAL NUMBER, (D-3-1)18CBA-1.
LOCATION.--LAT 40 DEG 33 MIN 30 SEC, LONG 111 DEG 53 MIN 16 SEC, HYDROLOGIC UNIT 16020204.
OWNER: SANDY CITY CORPORATION.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--DRILLED UNUSED ARTESIAN WELL, DIAM 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 741-1150 FT (226-351 M), PERFORATED 400-1150 FT (122-351 M).
DATUM.--LAND SURFACE DATUM IS 4414 FT (1345 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, 81.11 FT (24.7 M) BELOW LAND SURFACE DATUM, JULY 30, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	78.15	76.05	74.24	73.70	73.70	72.88	73.00	75.48	75.19	78.61	81.00	79.82
10	78.80	75.70	74.14	73.52	73.68	72.92	73.00	75.24	76.40	79.39	81.01	78.70
15	77.45	75.35	74.06	73.55	73.31	72.90	73.10	75.19	78.23	79.78	80.80	77.60
20	77.10	75.00	73.94	73.66	72.96	72.98	74.20	75.37	79.10	80.58	79.95	78.40
25	76.75	74.65	73.82	73.54	73.06	72.86	74.78	75.57	80.02	80.10	80.09	78.61
EOM	76.40	74.34	73.82	73.70	73.04	72.88	75.38	75.73	80.50	81.10	79.40	79.11

375802109191301. LOCAL NUMBER, (D-33-24)30DAB-1.
LOCATION.--LAT 38 DEG 58 MIN 02 SEC, LONG 109 DEG 19 MIN 13 SEC, HYDROLOGIC UNIT 14080203.
OWNER: A. E. C.
AQUIFER.--SANDSTONE.
WELL CHARACTERISTICS.--DRILLED UNUSED WELL, DIAM 10 IN (0.25 M), DEPTH 319 FT (97.2 M).
DATUM.--LAND SURFACE DATUM IS 6916 FT (2108 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 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	168.69	168.46	168.31	167.86	167.79	167.09	166.72	166.32	166.13	166.81	167.13	167.80
10	168.81	168.36	168.10	100.49	167.52	167.07	166.67	166.23	166.27	166.98	167.34	167.82
15	168.67	168.68	168.32	167.63	167.32	166.93	166.73	166.13	166.41	166.98	167.37	167.81
20	168.34	168.21	168.10	167.78	167.03	166.96	166.66	166.36	166.54	166.98	167.50	167.68
25	168.68	168.23	168.12	167.42	167.61	166.65	166.51	166.04	166.61	167.07	167.69	167.81
EOM	168.43	168.44	168.10	167.80	167.26	166.62	166.41	166.09	166.68	167.19	167.58	167.94

373830109283201. LOCAL NUMBER, (D-36-22)22DAA-1.
LOCATION.--LAT 37 DEG 38 MIN 30 SEC, LONG 109 DEG 28 MIN 32 SEC, HYDROLOGIC UNIT 14080201.
OWNER: JOSEPH L. NIELSON.
AQUIFER.--
WELL CHARACTERISTICS.--DRILLED STOCK ARTESIAN WELL, DIAM 7 IN (0.18 M), DEPTH 140 FT (42.7 M).
DATUM.--LAND SURFACE DATUM IS 6200 FT (1890 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 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	43.28	43.42	43.78	44.20	44.70	44.53	44.35	44.54	43.78	42.49	41.40	41.54
10	43.34	43.29	43.99	43.74	44.60	44.60	44.35	44.12	43.60	42.35	41.42	41.40
15	43.25	43.79	44.20	44.14	44.60	44.46	44.35	44.18	43.41	42.18	41.20	41.49
20	42.93	43.36	43.98	44.28	44.60	44.60	44.35	44.40	43.11	41.96	41.24	41.40
25	43.37	43.53	44.14	43.99	45.01	44.30	44.30	44.05	42.96	41.76	41.34	41.24
EOM	43.23	43.57	44.27	44.60	44.61	44.34	44.29	43.89	42.70	41.60	41.44	41.24

TOOELE COUNTY

403625112174801. LOCAL NUMBER, (C-2-4)33AAC-1.
LOCATION.--LAT 40 DEG 36 MIN 25 SEC, LONG 112 DEG 17 MIN 48 SEC, HYDROLOGIC UNIT 16020304.
OWNER: J. E. ENGLAND.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--JETTED UNUSED OBSERVATION ARTESIAN WELL, DIAM 4 IN (0.10 M), DEPTH 182 FT (55.5 M).
DATUM.--LAND SURFACE DATUM IS 4393.88 FT (1339 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 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.49	13.50	11.94	11.10	10.49	9.86	9.42	10.18	11.13	13.77	16.05	17.76
10	15.64	13.00	11.76	10.95	10.46	9.80	9.40	10.35	11.13	14.19	15.99	16.40
15	15.20	12.61	11.68	10.98	10.38	9.73	9.38	10.35	11.13	14.73	16.39	16.33
20	14.80	12.41	11.53	10.93	10.07	9.62	9.25	9.88	11.52	14.45	16.92	16.76
25	14.40	12.16	11.41	10.68	10.10	9.61	9.51	10.48	12.92	14.22	16.76	16.96
EOM	13.90	12.19	11.30	10.63	10.02	9.56	9.72	11.13	13.34	15.11	17.78	16.88

403539112282901. LOCAL NUMBER, (C-2-6)36DCC-1.
LOCATION.--LAT 40 DEG 35 MIN 39 SEC, LONG 112 DEG 28 MIN 29 SEC, HYDROLOGIC UNIT 16020304.
OWNER: E. C. WALK.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--DRILLED UNUSED ARTESIAN WELL, DIAM 6 IN (0.15 M), DEPTH 176 FT (53.6 M), CASED TO 166 FT (50.6 M).
DATUM.--LAND SURFACE DATUM IS 4373.70 FT (1333 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 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	97.11	96.23	95.16	94.62	93.90	93.20	92.65	92.47	89.81	89.36	92.40	94.68
10	97.07	95.95	95.08	94.47	93.80	93.13	92.71	92.41	89.58	89.74	93.15	94.82
15	96.99	95.83	94.99	94.41	93.60	92.98	92.67	91.62	89.31	90.01	93.58	94.27
20	96.78	95.70	94.91	94.34	93.50	92.78	92.73	91.17	89.34	90.51	93.90	94.03
25	96.66	95.43	94.80	94.26	93.40	92.73	92.72	90.75	89.37	91.16	94.29	93.86
EOM	96.51	95.35	94.65	94.10	93.30	92.63	92.55	90.26	89.35	91.65	94.48	93.82

401312112442301. LOCAL NUMBER, (C-7-8)10CBD-1.
LOCATION.--LAT 40 DEG 13 MIN 12 SEC, LONG 112 DEG 44 MIN 23 SEC, HYDROLOGIC UNIT 16020305.
OWNER: DUGWAY PROVING GROUND.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--DRILLED UNUSED ARTESIAN WELL, DIAM 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 4850 FT (1478 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 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	83.86	83.51	82.98	82.51	82.30	81.99	81.82	81.65	81.51	81.93	82.44	82.70
10	83.83	83.34	82.82	82.47	82.27	81.96	81.82	81.59	81.54	82.10	82.54	82.64
15	83.74	83.32	82.83	82.44	82.24	81.95	81.77	81.58	81.74	82.21	82.50	82.62
20	83.55	83.19	82.72	82.40	82.20	81.86	81.66	81.59	81.73	82.26	82.59	82.53
25	83.52	82.94	82.72	82.37	82.17	81.92	81.76	81.59	81.80	82.36	82.56	82.58
EOM	83.49	83.10	82.65	82.34	82.13	81.84	81.67	81.54	81.83	82.44	82.64	82.53

UINTAH COUNTY

403158109372201. LOCAL NUMBER, (D-3-20)25ABC-2.
LOCATION.--LAT 40 DEG 31 MIN 58 SEC, LONG 109 DEG 37 MIN 22 SEC, HYDROLOGIC UNIT 14060002.
OWNER: H. T. PELTIER.
AQUIFER.--GLACIAL OUTWASH.
WELL CHARACTERISTICS.--DRILLED UNUSED WATER-TABLE WELL, DIAM 12 IN (0.30 M), DEPTH 43 FT (13.1 M), CASED TO 32 FT (9.75 M).
DATUM.--LAND SURFACE DATUM IS 5992 FT (1826 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 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.17	5.64	5.30	5.45	5.58	4.94	5.26	5.74	5.76	3.95	3.73	4.20
10	6.17	5.57	5.28	5.47	5.58	4.86	5.43	5.49	5.41	4.41	2.59	3.56
15	6.16	5.51	5.43	5.23	5.56	4.77	5.57	5.30	5.22	2.34	3.53	4.05
20	5.71	5.43	5.47	5.30	5.07	4.69	5.72	5.63	3.72	2.47	3.86	4.38
25	5.64	5.39	5.42	5.44	5.10	4.61	5.79	5.86	1.76	3.83	3.70	4.53
EOM	5.70	5.34	5.43	5.55	5.03	5.06	5.61	5.95	2.73	4.11	4.01	4.74

401818112014501. LOCAL NUMBER, (C-6-2)14ABA-1.
LOCATION.--LAT 40 DEG 18 MIN 18 SEC, LONG 112 DEG 01 MIN 45 SEC, HYDROLODGIC UNIT 16020201.
OWNER: COOP SECURITY CORP.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--DRILLED UNUSED IRRIGATION ARTESIAN WELL, DIAM 16 IN (0.41 M), DEPTH 1258 FT (383 M), CASED TO 1254 FT (382 M).
DATUM.--LAND SURFACE DATUM IS 4865.70 FT (1483 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 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	123.06	120.91	120.11	119.69	119.50	119.06	119.01	119.06	122.45	121.95	121.67	122.63
10	123.13	120.67	119.99	119.62	119.38	119.10	119.04	120.00	122.41	121.90	122.58	121.84
15	122.46	120.59	119.99	119.55	119.40	119.07	119.16	120.77	121.96	121.85	123.10	121.32
20	121.86	120.37	119.86	119.46	119.21	119.07	119.20	121.31	121.20	121.80	123.31	121.35
25	121.53	120.19	119.79	119.57	119.26	119.01	119.14	121.69	121.27	121.75	123.50	122.47
EOM	121.13	120.24	119.78	119.41	119.18	119.01	119.07	122.11	121.87	121.70	123.47	123.22

402333111513401. LOCAL NUMBER, (D-5-1)8DCC-1.
LOCATION.--LAT 40 DEG 23 MIN 33 SEC, LONG 111 DEG 51 MIN 34 SEC, HYDROLOGIC UNIT 16020201.
OWNER: LEHI IRRIGATION CO.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--DRILLED UNUSED IRRIGATION ARTESIAN WELL, DIAM 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 4555.03 FT (1388 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 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.62	12.09	10.50	9.91	9.63	9.07	8.59	11.50	11.62	14.81	14.96	13.95
10	17.05	11.58	10.45	9.71	9.69	8.92	8.72	10.50	13.01	15.00	15.45	12.30
15	16.21	11.71	10.40	9.69	9.35	8.86	8.91	9.29	14.91	15.12	15.90	10.39
20	14.42	11.56	10.30	9.66	9.34	8.62	10.30	9.30	16.64	14.96	15.85	10.46
25	12.27	11.30	10.10	9.45	9.28	8.56	10.43	9.44	16.86	14.76	15.21	10.67
EOM	12.38	10.90	10.00	9.66	9.15	8.45	10.92	10.26	16.12	14.44	13.51	11.81

402236111511501. LOCAL NUMBER, (D-5-1)20ABA-1.
LOCATION.--LAT 40 DEG 22 MIN 36 SEC, LONG 111 DEG 51 MIN 15 SEC, HYDROLOGIC UNIT 16020201.
OWNER: JACOB G. COX.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--JETTED IRRIGATION ARTESIAN WELL, DIAM 3 IN (0.08 M), DEPTH 292 FT (89.0 M), CASED TO 292 FT (89.0 M).
DATUM.--LAND SURFACE DATUM IS 4522.10 FT (1378 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 1979 TO SEPTEMBER 1980
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	39.00	43.00	43.00	42.00	42.00	43.80	41.80		---	---	---
10	---	39.00	43.00	44.00	41.00	42.00	44.30	41.80		---	---	---
15	---	40.00	43.00	45.00	40.00	43.00	43.80	42.80		38.50	---	45.90
20	35.50	40.00	42.00	49.00	40.50	44.00	43.30	42.80		38.00	---	44.50
25	37.50	40.00	42.00	44.00	41.00	44.00	41.30	42.80		38.00	---	---
EOM	---	---	42.00	43.00	41.00	43.80	41.30	42.30		35.50	41.00	---

402234111511502. LOCAL NUMBER, (D-5-1)20ABA-2.
LOCATION.--LAT 40 DEG 22 MIN 34 SEC, LONG 111 DEG 51 MIN 15 SEC, HYDROLOGIC UNIT 16020201.
OWNER: JACOB G. COX.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--JETTED UNUSED ARTESIAN WELL, DIAM 2 1/2 TO 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 4522 FT (1378 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, 1961, JULY 25, 1961, AUG. 5, 1961.

WATER LEVEL, IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.30	22.50	24.00	25.00	25.80	26.70	28.10	55.00	23.10	16.60	16.60	20.10
10	16.80	22.60	24.20	25.20	25.90	26.90	28.20	23.50	21.00	15.70	14.90	21.70
15	18.80	23.20	24.40	25.40	25.80	27.30	28.20	26.40	15.80	18.00	15.20	26.10
20	20.10	23.50	24.50	25.60	26.10	27.50	25.50	26.90	15.60	18.00	18.30	25.70
25	22.10	24.30	24.70	25.80	26.30	27.60	25.70	25.10	13.70	17.00	19.60	24.60
EOM	22.50	24.10	24.80	25.80	26.50	28.00	25.00	24.10	14.00	16.30	20.90	23.20

400510111352201. LOCAL NUMBER, (D-8-3)34BAB-1.
LOCATION.--LAT 40 DEG 05 MIN 10 SEC, LONG 111 DEG 35 MIN 22 SEC, HYDROLOGIC UNIT 16020201.
OWNER: OLSON BROTHERS.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--DRILLED UNUSED IRRIGATION WELL, DIAM 16 IN (0.41 M), DEPTH 470 FT (143 M), CASED TO 470 FT (143 M).
DATUM.--LAND SURFACE DATUM IS 4800 FT (1463 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 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	149.07	147.85	147.10	146.77	146.69	146.59	146.73	146.09	146.02	146.02	146.44	145.45
10	148.91	147.70	147.00	146.90	146.78	146.58	146.81	145.90	146.02	146.02	147.05	145.18
15	148.67	147.60	146.90	146.85	146.78	146.76	146.85	146.02	146.02	146.02	147.08	144.91
20	148.20	147.50	146.80	147.04	146.81	146.63	146.70	146.02	146.02	146.69	146.30	144.71
25	148.07	147.35	147.07	146.63	146.81	146.70	146.65	146.02	146.02	146.80	145.95	144.44
EOM	147.95	147.25	146.96	147.03	146.62	146.65	146.49	146.02	146.02	146.71	145.65	144.46

WASHINGTON COUNTY

372815113134801. LOCAL NUMBER, (C-38-12)20CCA-1.
LOCATION.--LAT 37 DEG 28 MIN 15 SEC, LONG 113 DEG 13 MIN 48 SEC, HYDROLOGIC UNIT 15010008.
OWNER: E. GRAFF.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--DRILLED UNUSED IRRIGATION ARTESIAN WELL, DIAM 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 5150 FT (1570 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 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	37.40	37.55	37.57	37.18	36.48	36.51	35.69	34.45	34.12	34.29	34.49	34.92
10	37.46	37.57	37.54	37.03	36.53	36.31	35.51	34.79	34.05	34.33	34.55	34.94
15	37.51	37.60	37.58	36.88	36.58	36.13	35.36	34.63	34.15	34.38	34.61	35.02
20	37.47	37.59	37.56	36.56	36.63	35.99	35.16	34.42	34.19	34.40	34.70	35.04
25	37.50	37.56	37.51	36.38	36.68	35.89	34.98	34.29	34.23	34.43	34.76	35.10
EOM	37.52	37.61	37.33	36.43	36.71	35.80	34.68	34.19	34.26	34.47	34.83	35.22

371415113471501. LOCAL NUMBER, (C-41-17) 7AUA- 1.
LOCATION.--LAT 37 DEG 14 MIN 15 SEC, LONG 113 DEG 47 MIN 15 SEC, HYDROLOGIC UNIT 15010008.
OWNER: ST. GEORGE CITY.
AQUIFER.--NAVAJO SANDSTONE.
WELL CHARACTERISTICS.--DIAM 12 IN (0.30 M), DEPTH 375 FT (114 M), CASED TO 203 FT (61.9 M).
DATUM.--LAND SURFACE DATUM IS 3600 FT (1097 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 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	225.02	225.08	224.21	222.38	220.81	219.67	218.92	219.10	219.10	221.04	221.87	220.97
10	225.17	225.21	223.95	222.01	220.59	219.51	218.88	218.93	219.38	221.29	221.90	220.73
15	225.13	225.24	223.45	221.96	220.16	219.29	218.89	218.87	219.97	221.56	221.79	220.62
20	224.59	224.99	223.17	221.63	220.15	219.21	218.84	218.77	220.24	221.67	221.73	220.63
25	224.44	224.73	222.97	221.28	219.98	219.06	219.17	218.89	220.59	221.55	221.45	220.94
EOM	224.81	224.47	222.67	221.06	219.84	218.90	219.17	218.69	220.93	221.74	221.16	220.90

WEBER COUNTY

411544111461001. LOCAL NUMBER, (A-6-2)18BAD-1.
LOCATION.--LAT 41 DEG 15 MIN 44 SEC, LONG 111 DEG 46 MIN 10 SEC, HYDROLOGIC UNIT 16020102.
OWNER: U. S. BUREAU OF RECLAMATION.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--DRILLED OBSERVATION ARTESIAN WELL, DIAM 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 4924 FT (1501 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 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.74	20.70	20.55	19.64	18.55	16.67	16.55	15.96	10.01	8.63	13.18	14.71
10	22.99	20.26	20.35	19.40	18.87	16.45	16.91	13.33	10.71	8.74	13.50	14.96
15	22.45	20.06	20.26	18.09	18.98	16.50	17.90	12.37	9.02	9.48	14.30	15.05
20	21.34	20.90	20.10	17.79	18.45	16.58	20.62	11.45	8.60	10.59	13.46	15.28
25	21.11	20.80	19.96	17.81	18.07	16.04	20.20	11.10	8.50	11.19	13.88	15.45
EOM	20.86	20.72	19.82	18.30	17.57	16.58	18.62	10.86	9.00	12.24	14.30	15.73

411322112001101. LOCAL NUMBER, (B-6-1)30CCA-1.
LOCATION.--LAT 41 DEG 13 MIN 22 SEC, LONG 112 DEG 00 MIN 11 SEC, HYDROLOGIC UNIT 16020102.
OWNER: BURTON WALKER LUMBER CO.
AQUIFER.--UNCONSOLIDATED ALLUVIUM.
WELL CHARACTERISTICS.--DRILLED UNUSED ARTESIAN WELL, DIAM 10 IN (0.25 M), DEPTH 756 FT (230 M), CASED TO 756 FT (230 M), PERFORATED 224-250 FT (68.3-76.2 M).
DATUM.--LAND SURFACE DATUM IS 4317.12 FT (1316 M) ABOVE MEAN SEA LEVEL. MEASURING POINT: TOP OF CASING, AT LAND SURFACE DATUM.
REMARKS.--RECORD POOR. DISCONTINUED.
PERIOD OF RECORD.--APR. 1943 TO CURRENT YEAR.
EXTREMES FOR PERIOD OF RECORD.--HIGHEST WATER LEVEL, 26.90 FT (8.20 M) BELOW LAND SURFACE DATUM, JUNE 8, 1953; LOWEST, 42.46 FT (12.9 M) BELOW LAND SURFACE DATUM, SEPT. 5, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	42.15	40.71	40.21	39.97	39.83	39.67	39.98					
10	42.06	40.53	40.10	39.96	39.80	39.65	40.06					
15	41.84	40.53	40.12	39.93	39.78	39.72	40.14					
20	41.23	40.38	40.03	39.91	39.66	39.80	---					
25	41.07	40.35	40.00	39.87	39.77	39.83	---					
EOM	40.86	40.30	40.00	39.85	39.69	39.91	---					

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
				BEAVER COUNTY							
383101112365301	(C-26- 7)26CAC- 1		--	80-07-14	660	7.5	--	270	110	83	16
382336112592601	(C-28-10) 8ADD- 2		--	80-08-08	1070	7.6	15.5	370	230	97	30
382138113035302	(C-28-11)23CBB- 3	100VLFL	--	80-08-08	1570	--	16.0	--	--	--	--
382020113015701	(C-28-11)25DCD- 1	100VLFL	--	80-08-08	1610	--	18.0	--	--	--	--
381435112471401	(C-29- 8)31ADD- 1	100VLFL	--	80-07-14	740	7.1	13.5	--	--	--	--
381835113000001	(C-29-10) 5CDD- 5	100VLFL	--	80-08-08	1070	7.2	13.5	440	180	130	28
381901113014101	(C-29-11) 1ADD- 2	100VLFL	--	80-08-08	300	7.8	19.5	90	0	22	8.5
381657113033601	(C-29-11)14CDB- 1	100VLFL	--	80-08-08	380	7.8	18.5	120	30	32	9.6
				BOX ELDER COUNTY							
412214112023301	(B- 7- 2) 2CBA- 5	100VLFL	--	80-08-05	460	8.0	15.5	10	5	52	11
412405112022501	(B- 8- 2)26BCD- 1	100VLFL	--	80-08-06	480	--	12.0	--	--	--	--
413057112023901	(B- 9- 2)15DAA- 1	100VLFL	--	80-08-06	630	--	17.0	--	--	--	--
413637113545401	(B-10-18) 4DCC- 1	100VLFL	--	80-07-31	1190	--	10.5	--	--	--	--
413821113542901	(B-11-18)33AAA- 1	100VLFL	--	80-07-31	720	--	10.0	--	--	--	--
413806113543401	(B-11-18)33ADB- 1		--	80-07-31	770	--	11.5	--	--	--	--
413758113551501	(B-11-18)33BDC- 1	100VLFL	--	80-07-31	1160	--	15.5	--	--	--	--
414618112164101	(B-12- 4)14CBC- 1		--	80-07-17	1130	--	16.5	--	--	--	--
414454112173101	(B-12- 4)27DBD- 1		--	80-07-31	1350	7.2	15.5	370	170	85	39
414406112173601	(B-12- 4)34BBD- 1	100VLFL	--	80-07-17	1600	7.3	16.5	540	350	120	58
414339112173401	(B-12- 4)34CBD- 1	100VLFL	--	80-07-17	1870	--	13.0	--	--	--	--
		100VLFL	--	80-07-31	1620	--	16.0	--	--	--	--
414813113075401	(B-12-11) 5BBB- 1	100VLFL	--	80-06-18	2030	7.6	15.5	--	--	--	--
414747113072701	(B-12-11) 5BDC- 1	100VLFL	--	80-06-18	2080	7.5	16.5	--	--	--	--
414710113070601	(B-12-11) 8ABB- 1	100VLFL	--	80-06-18	2280	7.2	15.5	--	--	--	--
414721113072601	(B-12-11) 8BAA- 1	100VLFL	--	80-06-18	2200	--	14.0	--	--	--	--
415320112290901	(B-13- 6) 1DBB- 1		--	80-06-17	730	7.2	19.5	--	--	--	--
415737112431601	(B-14- 8)11BCA- 1	100VLFL	--	80-08-01	2800	7.1	12.0	--	--	--	--
415847112540401	(B-14- 9) 5BBB- 1	100VLFL	--	80-06-17	640	7.3	17.5	--	--	--	--
415754112551301	(B-14- 9) 7BBB- 1		--	80-06-17	790	7.2	19.0	--	--	--	--
415850112481201	(B-15- 8)31CCC- 1		--	80-08-01	1470	76.0	20.0	--	--	--	--
415956112525201	(B-15- 9)28CBB- 1	100VLFL	--	80-06-17	520	7.4	24.5	--	--	--	--
				CACHE COUNTY							
414216111511001	(A-11- 1) 8DDA- 3	100VLFL	--	80-07-31	480	--	11.0	--	--	--	--
415020111520401	(A-13- 1)29BCD- 1	100VLFL	--	80-07-31	420	--	14.5	--	--	--	--
				DAVIS COUNTY							
405535111525101	(A- 2- 1) 7ABA- 4	100VLFL	--	80-08-05	270	--	17.5	--	--	--	--
405451111540801	(B- 2- 1)24BAD- 3	100VLFL	--	80-08-05	480	--	15.5	--	--	--	--
405959111564101	(B- 3- 1)15BAC- 1	100VLFL	--	80-08-04	440	6.9	19.0	84	0	28	3.4
410340112030001	(B- 4- 2)27ABA- 1		--	80-08-04	790	8.2	13.0	10	0	2.7	1.4
410354112135201	(B- 4- 3)19CAA- 3		--	80-08-04	1240	7.0	22.0	170	17	47	12
410830111584001	(B- 5- 1)29BDC- 1		--	80-08-05	520	7.6	14.5	250	3	70	19
				GARFIELD COUNTY							
375924112234001	(C-32- 5)35BAB- 1		--	80-08-27	320	7.0	14.0	120	0	35	7.4
				GRAND COUNTY							
383539109340501	(D-25-21)26DCC- 1	100VLFL	--	80-09-02	610	7.5	28.0	280	110	80	20
				IRON COUNTY							
375852112440801	(C-32- 8)35BCB- 1	100VLFL	--	80-07-21	240	8.0	13.0	72	0	19	5.9
375257112483501	(C-33- 8)31CCC- 2		--	80-07-21	480	--	16.0	--	--	--	--
375033112561101	(C-34-10)13CBD- 2	100VLFL	--	80-07-21	520	--	12.0	--	--	--	--
374619113053101	(C-35-11) 9DBA- 1		--	80-07-18	710	--	14.5	--	--	--	--
374550113040601	(C-35-11)11CCC- 1		--	80-07-18	890	7.4	14.0	410	240	77	52
374248113075201	(C-35-11)31DBB- 1		--	80-07-18	640	7.3	12.5	350	190	71	41
374623113381301	(C-35-16) 9ADD- 1		--	80-07-22	910	7.2	12.5	360	180	110	21
374412113384503	(C-35-16)21DCC- 3	100VLFL	--	80-07-22	540	--	12.0	--	--	--	--
374227113394101	(C-35-16)32DCD- 1	100VLFL	--	80-07-22	850	7.1	16.0	360	120	110	20
373915113125601	(C-36-12)21CBB- 1	100VLFL	--	80-07-18	330	7.7	14.0	150	23	40	13
374212113394501	(C-36-16) 5L 1- 1	100VLFL	--	80-07-22	2200	7.0	12.0	880	550	270	51
373854113411501	(C-36-16)19ABB- 1	100VLFL	--	80-07-22	470	--	11.5	180	11	9.9	--
373710113381201	(C-36-16)27CDC- 1	100VLFL	--	80-07-22	650	7.1	16.5	270	67	82	15
373407113100801	(C-37-12)23ACB- 1	100VLFL	--	80-07-18	780	--	14.5	--	--	--	--
373234113111601	(C-37-12)34ABB- 1	100VLFL	--	80-07-18	940	--	10.5	--	--	--	--
373551113391101	(C-37-16) 4BDC- 1		--	80-07-22	390	--	19.5	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
112OTSH - OUTWASH, PLEISTOCENE AGE.
112PLCN - PLEISTOCENE SERIES, PLEISTOCENE AGE.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	ALKA- LINITY (CACO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED BORON (B) (UG/L)
BEAVER COUNTY												
24	3.3	160	33	95	0.4	43	400	1.8	0.05	20	0	30
61	4.1	140	200	120	0.6	36	637	0.93	0.02	0	1	180
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33	5.6	260	110	99	0.4	35	616	4.3	0.05	0	1	120
27	2.8	90	31	12	0.7	30	189	0.20	0.02	20	5	100
25	4.7	89	36	26	0.6	44	237	1.3	0.02	10	2	120
BOX ELDER COUNTY												
16	2.8	170	16	14	0.1	18	240	2.4	0.03	180	40	10
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150	3.8	200	47	320	0.5	24	800	1.9	0.02	0	2	70
170	4.9	190	120	440	0.4	21	1060	2.9	0.02	0	1	80
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CACHE COUNTY												
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DAVIS COUNTY												
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58	2.4	180	0.5	18	0.4	28	248	0.03	0.05	330	120	40
210	100	430	0.7	33	0.5	26	540	0.01	0.54	70	5	450
190	6.0	150	8.2	310	0.6	44	709	0.00	0.02	820	130	100
23	2.4	250	31	22	0.5	12	330	0.55	0.88	20	0	50
GARFIELD COUNTY												
11	4.1	120	7.0	15	0.2	51	207	0.83	0.24	20	2	10
GRAND COUNTY												
20	3.1	170	110	21	0.2	13	370	0.11	0.01	--	--	60
IRON COUNTY												
22	--	95	7.6	15	0.4	41	170	0.50	0.01	0	0	70
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28	4.6	170	240	26	0.3	33	600	8.2	0.02	0	3	90
9.5	2.1	160	170	11	0.3	20	425	1.1	0.05	0	0	70
21	7.0	180	50	130	0.3	48	510	3.1	0.04	0	0	60
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22	--	240	37	90	0.3	48	490	2.5	0.02	0	0	20
11	2.5	130	37	9.3	0.0	43	235	0.41	0.03	10	0	50
32	9.9	330	120	350	0.2	37	1110	8.4	0.04	0	0	50
18	--	170	15	28	0.4	34	280	2.1	0.05	0	0	30
19	--	200	25	51	0.2	44	370	3.0	0.04	0	0	60
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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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
				JUAB COUNTY							
395315113430301	(C-11-17)12BDC- 1	100VLFL	--	80-08-19	320	--	17.0	--	--	--	--
394545111531001	(C-12- 1)24BAA- 1	100VLFL	--	80-08-05	1200	--	13.0	--	--	--	--
394418113442201	(C-12-17)34AAB- 1		--	79-10-03	320	--	15.5	--	--	--	--
394215111530501	(C-13- 1) 1CDD- 1		--	80-08-05	1080	--	11.0	--	--	--	--
393327112185101	(C-14- 4)32DBD- 1	100VLFL	--	80-06-24	3000	7.3	22.0	840	610	180	95
393235111525201	(C-15- 1) 1BAA- 1	100VLFL	--	80-08-11	820	--	12.5	--	--	--	--
393142111523501	(C-15- 1)12ABA- 2	100VLFL	--	80-08-11	1320	--	17.0	--	--	--	--
395244111502501	(D-11- 1) 9BBB- 1		--	80-08-04	530	--	12.0	--	--	--	--
395207111501401	(D-11- 1) 9CCA- 1	100VLFL	--	80-08-04	500	--	13.0	--	--	--	--
395100111503501	(D-11- 1)20AAB- 1	100VLFL	--	80-08-04	600	--	12.0	--	--	--	--
395059111501901	(D-11- 1)21BBB- 1	100VLFL	--	80-08-05	460	--	13.0	--	--	--	--
394518111515801	(D-12- 1)19DBB- 1	100VLFL	--	80-08-05	1200	--	13.0	--	--	--	--
394421111505001	(D-12- 1)29CAA- 1		--	80-08-11	1070	--	13.5	--	--	--	--
394130111512601	(D-12- 1)30ADD- 1		--	80-08-11	1110	--	12.0	--	--	--	--
394225111495701	(D-13- 1) 4CCA- 1	100VLFL	--	80-08-06	1500	--	12.0	--	--	--	--
394226111501601	(D-13- 1) 5DDA- 1	100VLFL	--	80-08-06	1500	--	12.0	--	--	--	--
394224111502601	(D-13- 1) 5DDB- 2	100VLFL	--	80-08-06	1600	--	11.0	--	--	--	--
394203111521701	(D-13- 1) 7BBD- 2	100VLFL	--	80-08-07	1600	--	11.0	--	--	--	--
394137111515001	(D-13- 1) 7DBC- 1		--	80-08-07	1400	--	12.0	--	--	--	--
394132111512001	(D-13- 1) 7DDA- 1	100VLFL	--	80-08-07	1600	--	11.0	--	--	--	--
		100VLFL	--	80-08-07	1600	7.3	11.0	440	54	110	41
394124111512001	(D-13- 1) 7DDD- 1		--	80-08-07	1750	--	11.0	--	--	--	--
393400111511501	(D-14- 1)30ADD- 1	100VLFL	--	80-08-11	640	--	13.0	--	--	--	--
393315111511601	(D-14- 1)31ADA- 1	100VLFL	--	80-08-07	1300	--	12.5	--	--	--	--
				KANE COUNTY							
370843112340602	(C-42- 6)19BDC- 2	220NVJO	--	80-08-21	270	8.0	14.0	120	9	23	15
				MILLARD COUNTY							
393154112192901	(C-15- 4) 8CBA- 1	100VLFL	--	80-06-26	3400	7.3	14.5	1200	860	260	130
393102112194501	(C-15- 4)18DAA- 1	100VLFL	406	80-06-24	2900	7.3	16.0	1200	980	270	130
392854112154601	(C-15- 4)26DCC- 1		--	80-08-19	750	7.7	15.0	360	200	98	29
392850112162101	(C-15- 4)34AAA- 1	100VLFL	--	80-08-19	2000	--	15.0	--	--	--	--
392928112382201	(C-15- 7)28BAD- 1	100VLFL	--	80-01-21	550	--	17.5	--	--	--	--
392821112384001	(C-15- 7)33BCD- 1		--	80-01-21	480	--	14.5	--	--	--	--
392846112371301	(C-15- 7)34BAA- 1		--	80-03-31	640	--	13.0	--	--	--	--
392437112200601	(C-16- 4)19DBD- 1	100VLFL	--	80-08-19	1720	7.6	14.5	870	700	210	85
392344112203801	(C-16- 4)30CAC- 1	100VLFL	--	80-06-25	750	7.8	14.5	280	57	68	26
392316112204001	(C-16- 4)31BBD- 1	100VLFL	--	80-08-19	520	7.8	13.0	230	1	58	21
392650112345101	(C-16- 7) 1DCD- 1	100VLFL	--	80-08-18	610	7.9	13.0	180	40	26	28
392717112372301	(C-16- 7) 3ACC- 1	100VLFL	--	80-03-31	520	--	17.0	--	--	--	--
392636112372401	(C-16- 7)10BAD- 1	100VLFL	--	80-08-18	400	8.0	17.5	80	0	17	9.1
392559112364601	(C-16- 7)11CCD- 1		--	80-03-31	450	--	16.0	--	--	--	--
392558112352401	(C-16- 7)12CCD- 1	100VLFL	--	80-06-26	440	8.3	16.0	100	0	19	13
392445112353201	(C-16- 7)24BCA- 1	100VLFL	--	80-06-26	420	8.4	22.0	72	0	16	7.9
392456112441401	(C-16- 8)22BAD- 2	100VLFL	--	80-06-25	640	8.5	20.0	17	0	3.9	1.7
392043112321701	(C-17- 6)17AAA- 1	100VLFL	--	80-06-25	370	8.2	27.5	65	0	13	7.8
391808112332301	(C-17- 6)29CCC- 1	100VLFL	--	80-06-25	400	8.2	28.0	44	0	10	4.6
392135113585501	(C-17-19) 4ADD- 1	100VLFL	--	80-09-04	460	--	16.0	--	--	--	--
391405112235901	(C-18- 5)22CAA- 1		--	80-06-26	1100	--	19.0	--	--	--	--
391341112241402	(C-18- 5)27BAB- 2	100VLFL	--	80-06-26	1100	--	19.0	--	--	--	--
391303112243201	(C-18- 5)28DDA- 1	100VLFL	--	80-06-26	1000	--	17.0	--	--	--	--
391224112220201	(C-18- 5)36BCD- 1		--	80-07-08	650	--	16.5	--	--	--	--
391212112221301	(C-18- 5)36CBC- 1		--	80-07-08	650	--	17.0	--	--	--	--
391714112300301	(C-18- 6) 2BBB- 2	100VLFL	--	80-08-19	580	7.9	16.5	150	0	25	21
391710112334701	(C-18- 6) 6ABA- 2	100VLFL	--	80-06-25	430	8.2	27.5	32	0	7.4	3.4
391553112332601	(C-18- 6) 8CBB- 1	100VLFL	--	80-08-19	410	8.0	16.5	58	0	13	6.3
391623112412601	(C-18- 8) 1DDD- 1	100VLFL	--	80-08-19	2000	8.6	14.5	11	0	2.0	1.5
390807112192501	(C-19- 4)29ACB- 1		--	80-07-07	740	--	14.5	--	--	--	--
390759112194801	(C-19- 4)29BCD- 1	100VLFL	--	80-07-07	800	--	14.0	--	--	--	--
390757112202001	(C-19- 4)30DAB- 1		--	80-07-09	990	--	15.0	--	--	--	--
390714112200201	(C-19- 4)31ADA- 1	100VLFL	--	80-07-09	1600	--	14.5	--	--	--	--
390700112203101	(C-19- 4)31DBB- 1	100VLFL	--	80-07-09	1300	--	14.5	--	--	--	--
390647112194601	(C-19- 4)32CCA- 1	100VLFL	--	80-07-09	1750	--	14.0	--	--	--	--
391145112212801	(C-19- 5) 1ABD- 1		--	80-07-08	550	--	16.0	--	--	--	--
391147112221801	(C-19- 5) 2AAD- 1	100VLFL	--	80-07-09	610	--	16.0	--	--	--	--
391153112232601	(C-19- 5) 3AAA- 1	100VLFL	--	80-07-08	1000	--	16.0	--	--	--	--
391053112222001	(C-19- 5)11ADD- 1		--	80-07-08	680	--	16.0	--	--	--	--
391043112220001	(C-19- 5)12BAD- 1		--	80-07-08	540	--	16.0	--	--	--	--
390828112223901	(C-19- 5)23DCD- 1	100VLFL	--	80-07-09	570	--	19.5	--	--	--	--
390827112220301	(C-19- 5)24CCD- 1	100VLFL	--	80-07-09	670	--	16.5	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
112OTSH - OUTWASH, PLEISTOCENE AGE.
112PLCN - PLEISTOCENE SERIES, PLEISTOCENE AGE.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
JUAB COUNTY												
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360	14	230	430	660	0.3	9.3	1890	0.00	0.00	20	0	440
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180	3.7	390	110	260	0.3	26	990	4.8	0.04	0	0	90
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KANE COUNTY												
3.8	2.8	110	5.1	4.9	0.1	14	150	3.0	0.04	10	3	70
MILLARD COUNTY												
310	11	320	470	690	0.4	21	2090	1.3	0.00	200	560	380
150	8.3	230	410	600	0.7	20	1740	2.5	0.01	90	30	170
32	1.5	160	110	84	0.4	13	517	12	0.01	10	1	90
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87	3.8	170	440	290	0.1	14	1330	22	0.01	40	10	170
54	1.5	220	51	66	0.6	13	412	0.00	0.00	0	3	80
33	0.9	230	22	26	0.1	13	330	3.9	0.01	0	2	70
60	4.7	140	56	88	0.1	28	377	0.35	0.01	0	10	80
--	--	--	--	--	--	--	--	--	--	--	--	--
59	4.8	110	41	45	0.5	24	267	0.00	0.01	10	20	100
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50	3.5	110	42	48	1.0	25	268	0.06	0.01	0	7	90
62	2.1	120	37	42	0.8	27	267	0.00	0.00	0	8	70
130	1.1	180	43	63	0.7	26	378	0.00	0.01	0	3	200
50	2.3	110	23	32	1.4	31	227	0.00	0.00	0	3	80
73	2.1	140	20	30	1.4	33	258	0.00	0.00	0	4	120
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67	16	240	43	30	0.4	60	407	0.00	0.01	240	20	350
83	1.9	150	18	28	0.4	32	264	0.00	0.00	0	4	140
69	10	170	16	20	1.5	24	262	0.00	0.02	120	10	190
540	1.2	550	340	210	0.9	18	1450	0.63	0.25	120	0	3700
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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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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							
390715112213001	(C-19- 5)36ACA- 1	100VLFL	--	80-07-09	2200	--	13.5	--	--	--	--
390730112214501	(C-19- 5)36BAA- 1	100VLFL	--	80-07-09	710	--	15.0	--	--	--	--
390854113565801	(C-19-19)14DCD- 1		--	80-08-21	1700	--	12.0	--	--	--	--
390646113570701	(C-19-19)35CAA- 1	100VLFL	--	80-09-04	1000	--	12.5	--	--	--	--
390617113571601	(C-19-19)35CDD- 1	100VLFL	--	80-08-21	470	--	12.5	--	--	--	--
390614112193101	(C-20- 4) 5CAA- 1		--	80-07-09	820	--	13.0	--	--	--	--
390557112194501	(C-20- 4) 5CCA- 1	100VLFL	--	80-07-09	1400	--	15.0	--	--	--	--
390628112201401	(C-20- 4) 6AAC- 1	100VLFL	506	80-07-09	2200	7.8	14.0	1000	770	240	98
390523112225001	(C-20- 5)11BDD- 1		--	80-07-09	2000	--	16.5	--	--	--	--
390216112211701	(C-20- 5)26DDD- 1	100VLFL	--	80-07-10	620	--	14.0	--	--	--	--
390255112243301	(C-20- 5)28AAD- 1	100VLFL	--	80-07-10	1750	--	18.5	--	--	--	--
390502114013001	(C-20-19) 7ABC- 1		--	80-08-20	370	--	14.0	--	--	--	--
390416113573801	(C-20-19)14BBC- 1		--	80-08-21	420	--	13.0	--	--	--	--
390100112263001	(C-21- 5) 5BAC- 1		--	80-07-10	1100	--	14.5	--	--	--	--
390027112264001	(C-21- 5) 7BBB- 1	100VLFL	--	80-07-10	1590	--	12.0	--	--	--	--
385939112272301	(C-21- 5) 7CDD- 3	100VLFL	--	80-07-10	1450	7.6	13.0	510	150	110	57
390002112261401	(C-21- 5) 8DBB- 2	100VLFL	--	80-07-10	700	--	17.0	--	--	--	--
385941112275801	(C-21- 5)12BAD- 1		--	80-07-10	660	--	14.0	--	--	--	--
385919112253801	(C-21- 5)16BCB- 1		--	80-07-10	590	--	13.5	--	--	--	--
385846112252001	(C-21- 5)16CDC- 2		--	80-07-10	650	--	13.0	--	--	--	--
385916112261401	(C-21- 5)17BDD- 3		--	80-07-15	650	--	14.0	--	--	--	--
385848112261501	(C-21- 5)17CDD- 3		--	80-07-15	760	--	14.0	--	--	--	--
385937112270601	(C-21- 5)18ABA- 1	100VLFL	--	80-07-10	1450	--	13.0	--	--	--	--
385918112264902	(C-21- 5)18ADA- 2		--	80-07-15	1000	--	13.0	--	--	--	--
385911112270501	(C-21- 5)18DBA- 1		--	80-07-15	780	--	13.0	--	--	--	--
385853112264901	(C-21- 5)18DDA- 1		--	80-07-15	800	--	17.0	--	--	--	--
385822112264801	(C-21- 5)19ADD- 1		--	80-07-15	1100	--	18.0	--	--	--	--
385754112273901	(C-21- 5)19CCD- 3		--	80-07-15	2600	--	14.0	--	--	--	--
385839112263101	(C-21- 5)20BBA- 1		--	80-07-15	800	--	16.0	--	--	--	--
385806112263201	(C-21- 5)20CCA- 2	100VLFL	--	80-07-15	830	--	16.5	--	--	--	--
385806112254001	(C-21- 5)20DAD- 1		--	80-07-15	640	--	14.0	--	--	--	--
385725112261501	(C-21- 5)29BDD- 2		--	80-07-15	950	--	18.0	--	--	--	--
385715112271201	(C-21- 5)30DBC- 3	100VLFL	--	80-07-23	2200	7.6	19.0	790	550	200	71
385650112243601	(C-21- 5)33AAD- 1		--	80-07-16	500	--	15.0	--	--	--	--
385611112252801	(C-21- 5)33CCD- 1	100VLFL	--	80-07-16	1050	--	15.0	--	--	--	--
390045112281201	(C-21- 6) 1DDB- 1	100VLFL	--	80-07-10	2110	7.7	12.5	860	490	200	88
385724112275601	(C-21- 6)25DAA- 1		--	80-07-15	1900	--	18.0	--	--	--	--
385612112383201	(C-21- 6)36CDD- 1		--	80-07-15	1100	--	15.5	--	--	--	--
385650114010601	(C-21-19)31ACD- 1	100VLFL	--	80-08-20	720	--	10.5	--	--	--	--
385426112262101	(C-22- 5) 8CDD- 3		--	80-07-16	880	--	16.0	--	--	--	--
385438112251401	(C-22- 5) 9CAD- 2	100VLFL	--	80-07-16	2700	--	19.5	--	--	--	--
385348112260401	(C-22- 5)17DBD- 2	100VLFL	--	80-07-16	800	--	15.0	--	--	--	--
385239112265701	(C-22- 5)19DDD- 1		--	80-07-16	720	--	14.0	--	--	--	--
385319112254701	(C-22- 5)20AAD- 1		--	80-07-16	700	--	15.0	--	--	--	--
385311112261101	(C-22- 5)20ACD- 1	100VLFL	--	80-07-16	750	--	14.0	--	--	--	--
385310112255601	(C-22- 5)20ADC- 1	100VLFL	--	80-07-16	900	--	12.0	--	--	--	--
385311112262001	(C-22- 5)20BDD- 1		--	80-07-16	770	--	15.0	--	--	--	--
385308112250301	(C-22- 5)21ACD- 1		--	80-07-16	910	--	14.0	--	--	--	--
385324112252301	(C-22- 5)21BAB- 2	100VLFL	--	80-07-16	950	--	11.5	--	--	--	--
385714112264701	(C-22- 5)29CBC- 1	100VLFL	--	80-07-11	2900	--	20.0	--	--	--	--
385053112262501	(C-22- 5)32CDD- 1	100VLFL	--	80-07-17	1150	--	12.0	--	--	--	--
385107112261201	(C-22- 5)32DBD- 2		--	80-07-17	1100	--	13.0	--	--	--	--
385129112244101	(C-22- 5)33ADA- 1	100VLFL	--	80-07-16	460	--	14.0	--	--	--	--
385132112251901	(C-22- 5)33BAD- 1		--	80-07-17	1400	--	13.0	--	--	--	--
385053112253101	(C-22- 5)33CCD- 1		--	80-07-17	1080	--	14.0	--	--	--	--
385710112250201	(C-22- 5)33CCD- 2		--	80-07-17	1050	--	14.0	--	--	--	--
385612114013901	(C-22-19) 6BDB- 1		--	80-08-20	500	--	11.0	--	--	--	--
385623114021501	(C-22-20) 1ABA- 1	100VLFL	--	80-08-20	390	--	12.0	--	--	--	--
385026112261001	(C-23- 5) 5ACD- 1	100VLFL	--	80-07-17	830	7.8	--	320	60	82	28
385023112270001	(C-23- 5) 6DAA- 1	100VLFL	--	80-07-17	840	--	12.0	--	--	--	--
384956112265501	(C-23- 5) 7AAA- 1		--	80-07-17	750	--	12.0	--	--	--	--
384958112324501	(C-23- 6) 8AAB- 1		--	80-07-17	8000	--	15.0	--	--	--	--
384029112315901	(C-23- 6)16CDA- 1		--	80-07-17	5700	--	16.0	--	--	--	--
384748112312301	(C-23- 6)21ADD- 1		--	80-07-17	1400	--	14.0	--	--	--	--
384748112315801	(C-23- 6)21BDD- 1	100VLFL	--	80-07-17	9040	7.4	13.5	3200	3000	650	380
384818114002801	(C-23-19)20BAC- 1		--	80-08-20	1050	--	16.0	--	--	--	--
384815114003701	(C-23-19)20BCD- 1	100VLFL	--	80-08-20	1000	--	9.0	--	--	--	--
385511112243501	(C-25- 5)10BBB- 2		--	80-07-11	1200	--	15.5	--	--	--	--
			--	80-07-11	1200	7.7	15.5	330	100	88	27
395110111502101	(D-11- 1)16CCB- 1	100VLFL	--	80-08-05	460	--	12.5	--	--	--	--
394225111502201	(D-13- 1) 5DDB- 1	100VLFL	--	80-08-06	1600	--	11.0	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
112OTSM - OUTWASH, PLEISTOCENE AGE.
112PLCN - PLEISTOCENE SERIES, PLEISTOCENE AGE.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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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78	4.6	230	380	390	0.4	15	1370	4.7	0.01	30	10	110
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140	6.2	360	180	170	0.3	26	925	4.2	0.02	0	0	370
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170	16	240	440	330	0.4	13	1390	0.86	0.04	40	10	610
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190	6.7	370	350	350	0.3	19	1450	4.8	0.02	30	10	390
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47	2.5	260	65	67	0.2	21	485	3.1	0.02	0	0	160
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820	46	220	1100	2400	0.3	41	5680	24	0.09	0	3	1900
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120	16	230	110	190	1.0	12	705	0.78	0.01	0	0	810
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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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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							
394226111502101	(D-13- 1) 5DDB- 3	100VLFL	--	80-08-06	1700	--	11.0	--	--	--	--
				PIUTE COUNTY							
381440111584001	(C-29- 2)35BAD- 1	122BRHD	--	80-08-28	500	7.4	13.0	220	18	61	16
				RICH COUNTY							
415048111194001	(A-13- 6)30BBB- 1		--	80-09-19	410	--	10.0	--	--	--	--
				SALT LAKE COUNTY							
405057112014301	(B- 1- 2) 2DCA- 2		--	80-08-19	810	--	26.0	--	--	--	--
404659112005601	(B- 1- 2)36BAA- 1	100VLFL	--	80-08-13	6000	--	26.5	--	--	--	--
404607112060701	(C- 1- 2) 6AAA- 4	100VLFL	--	80-08-13	3500	--	23.0	--	--	--	--
404306112031201	(C- 1- 2)22BDD- 4	100VLFL	--	80-08-13	1820	--	13.0	--	--	--	--
403952111541101	(C- 2- 1)12BAC- 1	100VLFL	--	80-05-13	240	8.0	13.0	100	17	26	8.9
403408111543201	(C- 3- 1)12CCB- 1	100VLFL	--	80-08-20	870	--	20.0	--	--	--	--
403147111593201	(C- 3- 1)30ACD- 1	100VLFL	--	80-08-25	1220	--	12.0	--	--	--	--
402721111550801	(C- 4- 1)23DBB- 1	100VLFL	--	80-08-20	1080	--	18.0	--	--	--	--
404506111523301	(D- 1- 1) 7ADB- 6	100VLFL	--	80-08-13	1030	--	14.0	--	--	--	--
403116111524801	(D- 3- 1)31ABB- 1	100VLFL	--	80-08-20	480	--	19.0	--	--	--	--
				SAN JUAN COUNTY							
371716109325501	(D-40-22)30BBB- 1		--	80-09-04	770	8.6	20.0	10	0	2.7	0.8
				SANPETE COUNTY							
391230111515001	(C-18- 1)25DDC- 1		--	80-08-27	1800	--	17.0	--	--	--	--
				SEVIER COUNTY							
385910111510301	(C-21- 1)13ABD- 1		--	80-08-27	750	8.1	18.0	150	25	30	17
383140111522001	(C-26- 1)23DDB- 1	100VLFL	--	80-08-28	230	7.7	12.0	69	0	22	3.3
				TOOELE COUNTY							
405951113584301	(B- 3-19) 1CCC- 1		--	80-08-18	380	8.0	16.0	110	20	26	11
404118112393201	(C- 1- 7)32BDD- 1	100VLFL	--	80-07-28	5680	--	16.5	--	--	--	--
403831112185401	(C- 2- 4)17DAD- 1	100VLFL	--	80-09-30	1280	--	17.0	--	--	--	--
403818112191201	(C- 2- 4)17DCD- 1		--	80-09-19	1300	--	14.5	--	--	--	--
403634112171501	(C- 2- 4)27CDC- 1	100VLFL	--	80-07-02	1300	--	13.5	--	--	--	--
403716112174801	(C- 2- 4)28AAC- 1	100VLFL	--	80-07-02	1020	--	13.0	--	--	--	--
403646112183001	(C- 2- 4)28CBD- 2	100VLFL	--	80-07-17	1100	--	15.5	--	--	--	--
403632112181801	(C- 2- 4)28CDD- 1	100VLFL	--	80-07-17	870	--	15.5	--	--	--	--
403656112174901	(C- 2- 4)28DAB- 1	100VLFL	--	80-07-17	800	--	14.0	--	--	--	--
403646112174101	(C- 2- 4)28DAB- 2		--	80-08-22	690	--	14.5	--	--	--	--
403648112185001	(C- 2- 4)29ADC- 1		--	80-09-30	1170	--	13.5	--	--	--	--
403701112195001	(C- 2- 4)29BCC- 1	100VLFL	--	80-09-30	960	--	13.0	--	--	--	--
403606112195401	(C- 2- 4)31ADD- 6	100VLFL	--	80-07-24	920	--	16.0	--	--	--	--
403605112204901	(C- 2- 4)31BCD- 1	100VLFL	--	80-07-02	1000	--	18.0	--	--	--	--
403550112203601	(C- 2- 4)31CDA- 2	100VLFL	--	80-07-02	1300	--	17.0	--	--	--	--
403556112195401	(C- 2- 4)31DAD- 2	100VLFL	--	80-07-02	1010	--	18.0	--	--	--	--
403554112202701	(C- 2- 4)31DBC- 1	100VLFL	--	80-07-17	950	--	16.5	--	--	--	--
403557112201601	(C- 2- 4)31DBD- 1	100VLFL	--	80-07-02	1020	--	17.0	--	--	--	--
403624112193801	(C- 2- 4)32BAC- 1		--	80-07-24	1300	--	17.5	--	--	--	--
403557112193401	(C- 2- 4)32CAC- 1	100VLFL	--	80-07-24	1000	--	17.5	--	--	--	--
403557112193701	(C- 2- 4)32CBD- 1	100VLFL	--	80-07-17	1000	--	16.5	--	--	--	--
403608112174301	(C- 2- 4)33ADD- 1	100VLFL	--	80-07-17	750	--	15.0	--	--	--	--
403617112184002	(C- 2- 4)33BBC- 3	100VLFL	--	80-06-20	1250	--	16.5	--	--	--	--
403607112182201	(C- 2- 4)33BDC- 1	100VLFL	--	80-06-20	820	--	15.0	--	--	--	--
403555112174901	(C- 2- 4)33DAC- 1	100VLFL	--	80-07-02	710	--	14.5	--	--	--	--
403608112170302	(C- 2- 4)34BDD- 2	100VLFL	--	80-07-17	1050	--	13.0	--	--	--	--
403559112162201	(C- 2- 4)35CBC- 1		--	80-06-20	1050	--	14.0	--	--	--	--
403846112262001	(C- 2- 5)17BDA- 1	100VLFL	--	80-09-30	1800	--	12.5	--	--	--	--
403748112261201	(C- 2- 5)20ACC- 1	100VLFL	--	80-09-19	1120	--	13.5	--	--	--	--
403800112243601	(C- 2- 5)21AAD- 1		--	80-09-30	2300	--	15.0	--	--	--	--
403745112253701	(C- 2- 5)21CBB- 1	100VLFL	--	80-09-30	1900	--	13.5	--	--	--	--
403655112255501	(C- 2- 5)29ADC- 2	100VLFL	--	80-09-30	2000	--	15.0	--	--	--	--
403653112275201	(C- 2- 5)30BCC- 1	100VLFL	--	80-09-30	580	--	14.5	--	--	--	--
403643112274601	(C- 2- 5)30CBD- 1	100VLFL	--	80-09-30	900	--	12.0	--	--	--	--
403650112265001	(C- 2- 5)30DAA- 1	100VLFL	--	80-09-30	440	--	14.0	--	--	--	--
403626112271801	(C- 2- 5)30DCC- 1	100VLFL	--	80-07-01	630	--	14.0	--	--	--	--
		100VLFL	--	80-09-30	550	--	14.0	--	--	--	--
403609112264701	(C- 2- 5)32BCB- 1	100VLFL	--	80-08-22	470	--	15.0	--	--	--	--
403609112261701	(C- 2- 5)32BDA- 1		--	80-08-22	850	--	15.0	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
112OTSM - OUTWASH, PLEISTOCENE AGE.
112PLCN - PLEISTOCENE SERIES, PLEISTOCENE AGE.

DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	ALKA-LINITY (CACO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS (P) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED BORON (B) (UG/L)
MILLARD COUNTY												
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PIUTE COUNTY												
14	6.0	200	24	30	0.2	46	321	0.76	0.07	0	1	10
RICH COUNTY												
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SALT LAKE COUNTY												
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8.5	1.5	85	23	5.0	0.3	11	137	0.44	0.04	10	0	20
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SAN JUAN COUNTY												
190	1.8	340	54	17	0.5	11	480	0.00	0.05	--	--	170
SANPETE COUNTY												
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SEVIER COUNTY												
93	5.3	120	90	110	0.6	41	460	0.22	0.03	0	1	230
8.3	4.9	84	0.9	8.1	0.2	42	141	0.19	0.03	30	2	20
TOOELE COUNTY												
32	3.8	90	18	59	0.1	12	215	0.19	0.00	0	0	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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
				TOOELE COUNTY							
403615112253301	(C- 2- 5)33BBC- 1	100VLFL	--	80-07-24	2300	--	17.0	--	--	--	--
403550112243202	(C- 2- 5)33DAD- 4	100VLFL	--	80-07-24	2000	--	16.5	--	--	--	--
403547112244401	(C- 2- 5)33DCD- 1	100VLFL	--	80-07-01	1700	--	19.5	--	--	--	--
403605112221301	(C- 2- 5)35ADD- 1		--	80-08-22	3000	--	16.0	--	--	--	--
403559112224301	(C- 2- 5)35DBB- 2		--	80-07-17	3500	--	20.0	--	--	--	--
403605112214201	(C- 2- 5)36BDD- 1	100VLFL	--	80-06-20	1700	--	19.0	--	--	--	--
403552112211401	(C- 2- 5)36DAC- 1	100VLFL	--	80-07-02	1900	--	17.5	--	--	--	--
403539112212401	(C- 2- 5)36DCD- 1	100VLFL	--	80-06-20	4200	--	19.5	--	--	--	--
		100VLFL	--	80-07-02	4220	6.5	19.5	540	350	140	47
403802112301201	(C- 2- 6)23CBB- 1	100VLFL	--	80-07-24	1320	--	20.0	--	--	--	--
403718112295601	(C- 2- 6)23CDC- 2	100VLFL	--	80-08-22	950	--	16.5	--	--	--	--
403740112290501	(C- 2- 6)24CBB- 2		--	80-09-30	450	--	13.0	--	--	--	--
403624112290101	(C- 2- 6)36BBB- 1	100VLFL	--	80-06-17	1000	--	14.0	--	--	--	--
404016112403801	(C- 2- 7) 6CAC- 1	100VLFL	--	80-07-15	4680	--	17.0	--	--	--	--
403447112184401	(C- 3- 4) 8AAA- 1	100VLFL	--	80-07-15	2400	6.7	17.0	330	110	82	30
403524112244801	(C- 3- 5) 4ABD- 1	100VLFL	--	80-08-22	1570	--	17.5	--	--	--	--
403532112253601	(C- 3- 5) 4BBB- 2	100VLFL	--	80-06-17	1600	--	15.5	--	--	--	--
		100VLFL	--	80-07-01	1600	6.8	16.0	360	220	88	34
403533112255701	(C- 3- 5) 5ABA- 1		--	80-07-01	1150	--	14.0	--	--	--	--
403429112272001	(C- 3- 5) 7ABC- 1	100VLFL	--	80-07-01	510	--	12.0	--	--	--	--
403514112283701	(C- 3- 6) 1BDB- 1	100VLFL	--	80-07-15	850	--	14.0	--	--	--	--
403126112444501	(C- 3- 8)28DDB- 1		--	80-07-15	530	--	13.5	--	--	--	--
402514112254301	(C- 4- 5)32DCD- 1	100VLFL	--	80-07-10	1300	--	12.5	--	--	--	--
402525112251502	(C- 4- 5)33CCB- 2		--	80-07-10	1080	7.2	12.0	--	--	--	--
402757112440401	(C- 4- 8)15CDA- 1	100VLFL	--	80-07-15	1190	--	16.5	--	--	--	--
402024112254601	(C- 5- 5)32DBB- 1	100VLFL	--	80-07-15	790	--	12.0	--	--	--	--
401829112422401	(C- 6- 8)11DAD- 1	100VLFL	--	80-07-15	2350	7.4	12.5	530	350	100	68
401816112425201	(C- 6- 8)11DCB- 1	100VLFL	--	80-07-15	1260	--	14.0	--	--	--	--
400418112271701	(C- 8- 5)31CCD- 5		--	80-07-11	820	--	13.5	--	--	--	--
400407112263601	(C- 9- 5) 6AAB- 2	100VLFL	--	80-07-11	680	--	12.5	--	--	--	--
395644113584201	(C-10-19)22BCA- 1	100VLFL	--	80-09-03	260	--	13.0	--	--	--	--
395319113431201	(C-11-17)11AAA- 1		--	80-08-19	450	--	15.5	--	--	--	--
				UINTAH COUNTY							
403116109360601	(D- 3-21)30DCD- 1	220NVJO	--	80-07-17	580	8.4	--	29	0	3.8	4.7
402726109582601	U(B- 1- 1)27ADA- 1	112OTSH	--	80-07-17	160	7.2	12.0	69	3	20	4.7
				UTAH COUNTY							
401739111593401	(C- 6- 1)18DCA- 1	100VLFL	--	80-07-10	700	7.1	30.0	--	--	--	--
401607112023401	(C- 6- 2)26CBB- 1	100VLFL	--	80-07-10	460	7.4	11.5	230	15	39	31
401610112053101	(C- 6- 2)29BDD- 1	100VLFL	--	80-07-10	400	7.4	11.5	--	--	--	--
400502111581201	(C- 8- 1)20CDB- 3		--	80-07-30	1290	--	24.0	--	--	--	--
400315111572001	(C- 9- 1) 4CCC- 1	100VLFL	--	80-07-31	1210	--	15.5	--	--	--	--
		100VLFL	--	80-09-03	1200	7.6	15.0	270	130	66	25
400309111565101	(C- 9- 1) 4DDC- 1	100VLFL	--	80-07-31	1800	--	16.5	--	--	--	--
400040111572501	(C- 9- 1)20DDD- 1		--	80-07-31	720	--	17.0	--	--	--	--
395955111572001	(C- 9- 1)28CCB- 1		--	80-07-31	1120	--	19.5	--	--	--	--
400014111575201	(C- 9- 1)29ACC- 1		--	80-07-31	960	--	17.0	--	--	--	--
395855111561201	(C- 9- 1)34CCC- 1	100VLFL	--	80-09-03	1700	7.1	17.5	590	400	130	65
395848111571801	(C-10- 1) 4BBB- 1		--	80-08-01	1200	--	19.5	--	--	--	--
395825111571801	(C-10- 1) 4CBB- 1	100VLFL	--	80-08-01	1510	--	19.0	--	--	--	--
		100VLFL	--	80-09-03	1500	7.6	--	480	340	120	43
395710111571801	(C-10- 1) 9CCC- 1	100VLFL	--	80-08-04	2100	--	17.0	--	--	--	--
395519111525501	(C-10- 1)25AAB- 1		--	80-08-04	2150	--	17.5	--	--	--	--
395339111581601	(C-10- 1)32CCC- 1	100VLFL	--	80-08-04	1150	--	19.5	--	--	--	--
402610111480901	(D- 4- 1)26CDD- 1	100VLFL	--	80-07-22	500	--	16.5	--	--	--	--
402525111495201	(D- 4- 1)35DAD- 1		--	80-07-22	1500	--	21.5	--	--	--	--
402325111501801	(D- 5- 1)16ABB- 1		--	80-07-24	440	--	16.0	--	--	--	--
402323111525101	(D- 5- 1)18BAB- 1		--	80-07-24	230	--	14.0	--	--	--	--
402258111525101	(D- 5- 1)18CAB- 2	100VLFL	--	80-08-02	320	7.9	18.0	110	0	24	13
402147111530701	(D- 5- 1)19CCC- 2	100VLFL	--	80-08-21	260	7.4	14.5	110	0	25	11
402215111454201	(D- 5- 2)19ACC- 1		--	80-07-08	500	--	11.5	--	--	--	--
402112111461701	(D- 5- 2)30CCB- 2	100VLFL	--	80-08-27	820	7.5	12.0	340	120	77	36
401740111440201	(D- 6- 2)17DAD- 1		--	80-07-25	590	--	13.0	--	--	--	--
401103111364201	(D- 7- 3)28BDB- 1	100VLFL	--	80-09-03	1120	8.4	25.0	--	--	--	--
400941111352701	(D- 7- 3)34CDB- 1	112PLCN	--	80-09-02	530	--	17.0	--	--	--	--
400431111480001	(D- 8- 1)35CAC- 2		--	80-09-04	850	--	15.5	--	--	--	--
400751111392201	(D- 8- 2)12DDC- 2	100VLFL	--	80-09-04	530	--	15.0	--	--	--	--
400438111435501	(D- 8- 2)32DAA- 1		--	80-09-05	850	--	16.5	--	--	--	--
400210111471001	(D- 9- 1)14ADA- 2		--	80-09-04	760	--	13.0	--	--	--	--
400042111472001	(D- 9- 1)26AAB- 1		--	80-09-04	750	--	15.5	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
112OTSH - OUTWASH, PLEISTOCENE AGE.
112PLCN - PLEISTOCENE SERIES, PLEISTOCENE AGE.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
						TOOELE COUNTY						
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640	8.4	190	52	1200	0.3	13	2220	1.6	0.02	50	20	150
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410	6.2	220	51	630	0.5	11	1370	2.9	0.02	90	10	150
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180	3.6	140	39	400	0.2	22	856	1.2	0.02	20	3	90
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270	10.0	180	120	580	0.7	34	1290	0.00	0.00	80	90	180
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						UINTAH COUNTY						
130	4.1	240	63	2.4	0.9	7.1	360	0.00	0.01	340	5	170
2.6	0.8	66	11	4.0	0.2	8.9	93	0.18	0.01	20	3	30
						UTAH COUNTY						
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19	3.4	210	25	23	0.5	58	325	0.08	0.04	0	10	80
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130	11	140	80	240	0.3	60	717	4.7	0.00	0	1	150
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100	14	190	120	360	0.3	65	983	3.2	0.00	40	5	170
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110	12	140	88	360	0.2	65	898	3.6	0.01	0	1	120
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17	2.0	120	8.9	21	0.4	16	175	0.26	0.02	30	0	50
6.6	1.0	110	11	6.9	0.3	12	140	0.00	0.04	20	20	30
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32	1.7	220	150	25	0.3	14	480	2.6	0.01	0	2	70
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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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

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)
				UTAH COUNTY							
400120111452001	(D- 9- 2)19ACB- 1		--	80-09-05	490	--	14.5	--	--	--	--
400407111375101	(D- 9- 3) 5BBD- 1		--	80-09-04	600	--	15.5	--	--	--	--
395841111472401	(D-10- 1) 2ADB- 1		--	80-07-30	530	--	11.0	--	--	--	--
395553111522601	(D-10- 1)19BDC- 1		--	80-09-04	2000	--	21.5	--	--	--	--
				WASHINGTON COUNTY							
371305113470401	(C-41-17)17CBA- 1		--	80-07-16	470	--	18.0	--	--	--	--
				WAYNE COUNTY							
382717111365601	(D-27- 3)19AAA- 1		--	80-08-28	1550	--	10.0	--	--	--	--
392717111365601	(D-27- 3)19AAA- 1		--	80-08-28	1550	--	10.0	--	--	--	--
				WEBER COUNTY							
411153112064602	(B- 5- 2) 6BDD- 3	100VLFL	--	80-08-05	480	--	17.5	--	--	--	--
411153112064601	(B- 5- 2) 6BDD- 4	100VLFL	--	80-08-05	380	--	17.0	--	--	--	--
411726111565301	(B- 6- 1) 4ADA- 1	100VLFL	--	80-08-06	600	7.4	15.0	310	22	72	32
411400112033001	(B- 6- 2)27BBA- 2		--	80-08-06	1290	--	19.5	--	--	--	--
411824112060101	(B- 7- 2)32BBB- 1		--	80-08-05	2380	--	18.0	--	--	--	--
411821112034601	(B- 7- 2)34BBB- 2	100VLFL	--	80-08-05	1590	7.7	22.0	370	230	98	31
411810112131802	(B- 7- 3)31AAC- 2		--	80-08-06	1730	7.6	39.5	180	0	57	9.3

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
112OTSH - OUTWASH, PLEISTOCENE AGE.
112PLCN - PLEISTOCENE SERIES, PLEISTOCENE AGE.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-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)
						UTAH COUNTY						
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						WASHINGTON COUNTY						
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						WAYNE COUNTY						
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						WEBER COUNTY						
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12	1.8	290	28	17	0.1	11	353	0.98	0.00	20	2	20
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190	7.0	140	0.7	480	0.3	22	914	0.00	0.01	10	260	140
290	23	260	2.9	420	0.7	55	1020	0.05	0.02	120	130	430

GEOLOGICAL UNIT (AQUIFER)--CONTINUED

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.
220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.

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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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