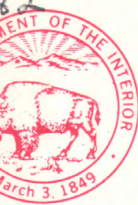
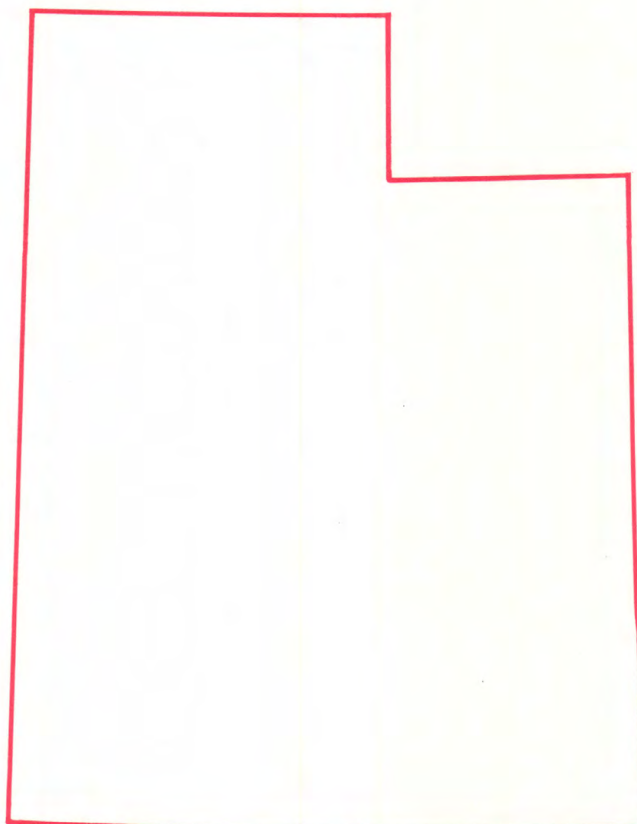
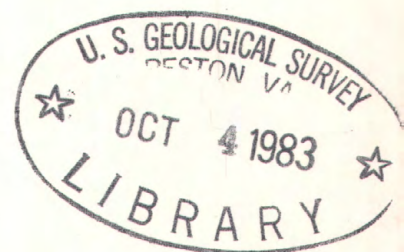


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Water Resources Data Utah Water Year 1982



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT UT-82-1
Prepared in cooperation with the State of Utah
and with other agencies

CALENDAR FOR WATER YEAR 1982

1981

OCTOBER

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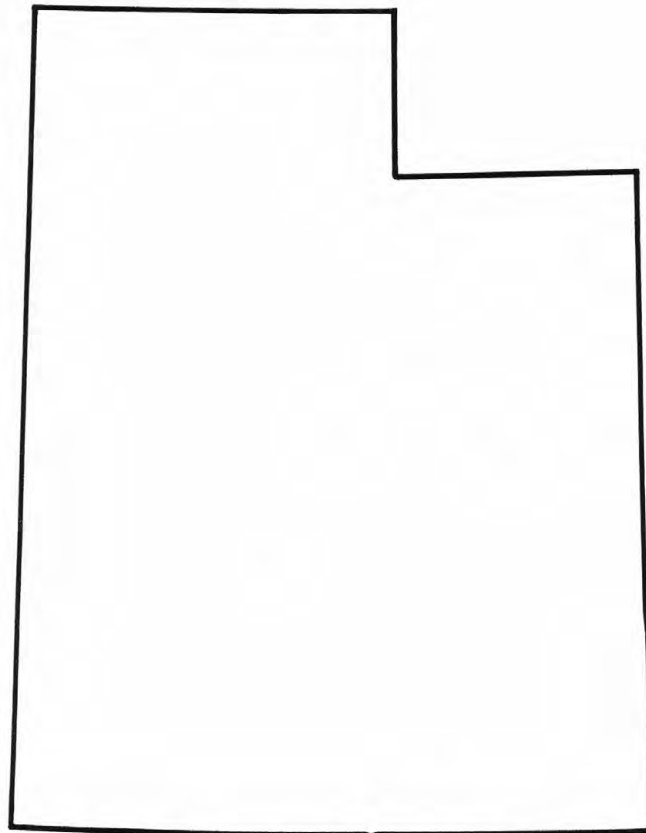
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Water Resources Data Utah

Water Year 1982

by M.D. ReMillard, G.C. Anderson, E. Hookano, Jr., and G.W. Sandberg



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT UT-82-1

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



PREFACE

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

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

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

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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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WATER RESOURCES DATA FOR UTAH, 1982

INTRODUCTION

Water resources data for the 1982 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 233 gaging stations; stage and contents for 19 lakes and reservoirs; water quality for 45 hydrologic stations, and 185 wells; miscellaneous temperature measurements and field determinations for 167 stations; and water levels for 39 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-82-1." For archiving and general distribution, the reports for water years 1971-74 are also identified as water-data reports. These water-data reports are for sale, in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161.

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

COOPERATION

The U.S. Geological Survey and organizations of the State of Utah have had cooperative agreements for the systematic collection of streamflow records

since 1909, for ground-water levels since 1935, and for water-quality records since 1941. Organizations that assisted in collecting data through cooperative agreement with the Geological Survey are:

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

Assistance in the form of funds was given by the Bureau of Reclamation, U.S. Department of the Interior, in collecting records for 15 gaging stations; by the Bureau of Land Management, U.S. Department of the Interior, for 9 gaging stations; and by the Corps of Engineers, U.S. Army, for 3 gaging stations. Records for eight gaging stations in Idaho in the Bear River basin and one in Utah were collected by the Utah Power and Light Co. under Federal Energy Regulatory Commission License.

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

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

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

Nevada District.--Virgin River at Littlefield, AZ

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

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

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

Organizations that supplied data are acknowledged in station descriptions.

Most water-quality data in this report were obtained as part of the Federal Program of the Geological Survey or in cooperation with the Bureau of Reclamation or the Bureau of Land Management, U.S. Department of the Interior, and the Environmental Protection Agency. Investigations of the quality of ground water and of some surface water were made under cooperative agreement

between the Geological Survey and the Utah Department of Natural Resources, T. A. Reynolds, Executive Director (Division of Water Rights, D. C. Hansen, State Engineer; Division of Water Resources, D. F. Lawrence, Director; Division of Wildlife Resources, D. F. Day, Director).

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

SUMMARY OF HYDROLOGIC CONDITIONS

by Russell W. Cruff

Precipitation during the water year was greater than normal throughout the State with a large part of the excess occurring in October and September. Following are October, November-August, September, and water-year precipitation and the departures from normal, at several sites (fig. 1) as reported by the National Oceanic and Atmospheric Administration; all the values are in inches and all departures are positive unless otherwise indicated:

	<u>October</u>		<u>November-August</u>		<u>September</u>		<u>Water-year</u>	
	Total	Departure	Total	Departure	Total	Departure	Total	Departure
Blanding	1.48	0.12	9.09	0.36	2.61	1.59	13.18	1.36
Callao	3.00	2.63	4.20	-.29	4.08	3.75	11.28	6.09
Cedar City	1.37	.48	10.68	1.96	1.93	1.21	13.98	3.65
Green River	1.84	1.07	4.10	-.68	1.48	.92	7.42	1.31
Hanksville	1.47	.76	4.91	.90	1.66	1.18	8.04	2.84
Logan	4.75	3.32	20.03	4.81	5.76	4.82	30.54	12.95
Milford	1.09	.31	8.20	1.19	3.64	3.03	12.93	3.45
Nephi	4.09	2.93	13.46	1.54	6.02	5.20	23.57	9.68
Roosevelt	2.90	2.00	5.21	-.66	2.44	1.77	10.55	3.11
Salt Lake City	3.91	2.75	14.20	.87	7.04	6.36	25.15	9.98
Zion National Park	1.06	.02	12.19	-.33	3.00	2.20	16.25	1.89

For the selected sites, the water-year total precipitation ranged from 1.31 to 12.95 inches greater than normal, whereas the November-August totals ranged from 0.68 inch less than normal to 4.81 inches greater than normal. September was an extremely wet month for much of the State with precipitation for the selected sites ranging from 0.92 to 6.36 inches greater than normal. The 7.04 inches reported at Salt Lake City for September was more than 10 times greater than normal.

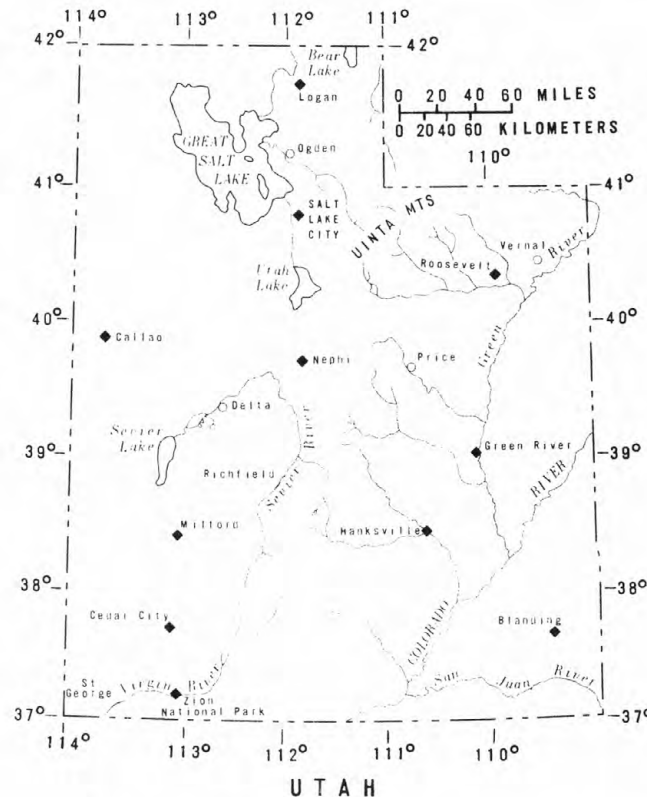


Figure 1.—Precipitation recording sites.

SURFACE WATER

By Russell W. Cruff

Streamflow as measured at seven representative gaging stations averaged 129 percent of the median streamflow for the 1951-80 water years compared to 80 percent a year ago, ranging from 105 percent for Green River at Green River to 156 percent for Beaver River near Beaver. Discharge for the 1982 water year compared with the median runoff for the 1951-80 water years at the seven representative gaging stations for which long-term records are available is shown in figure 2. The August, September, and water-year mean flows in Big Cottonwood Creek near Salt Lake City, all exceeded the maximums for the 1951-80 water years.

A major storm, which centered near Salt Lake City, caused an instantaneous peak flow of about 1,000 cubic feet per second in Big Cottonwood Creek on September 27. This is the largest peak known since records began in 1898 and is considered to be considerably greater than a 100-year flood.

The flow in Little Cottonwood Creek near Salt Lake City also was an equivalent flood both in magnitude and frequency. Big and Little Cottonwood Creeks drain into the Jordan River, which on September 27 had a maximum daily discharge of 2,480 cubic feet per second and a maximum instantaneous discharge of 2,740 cubic feet per second upstream from the diversion to the Surplus Canal. This was the largest flow recorded since records began in 1942.

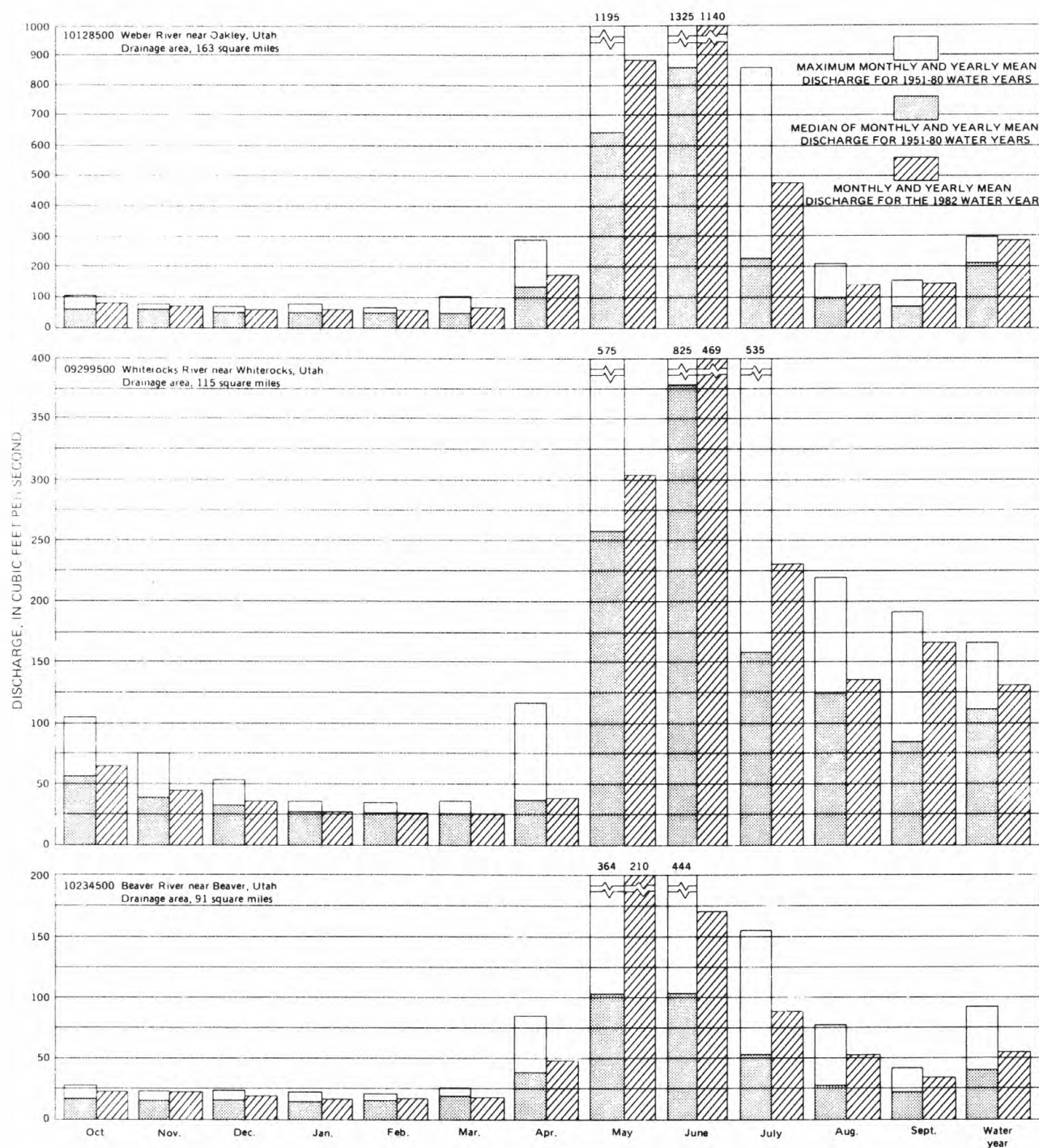


Figure 2.—Comparisons of discharge during the 1982 water year with median and maximum discharge for the 1951-80 water years at seven long-term representative gaging stations.

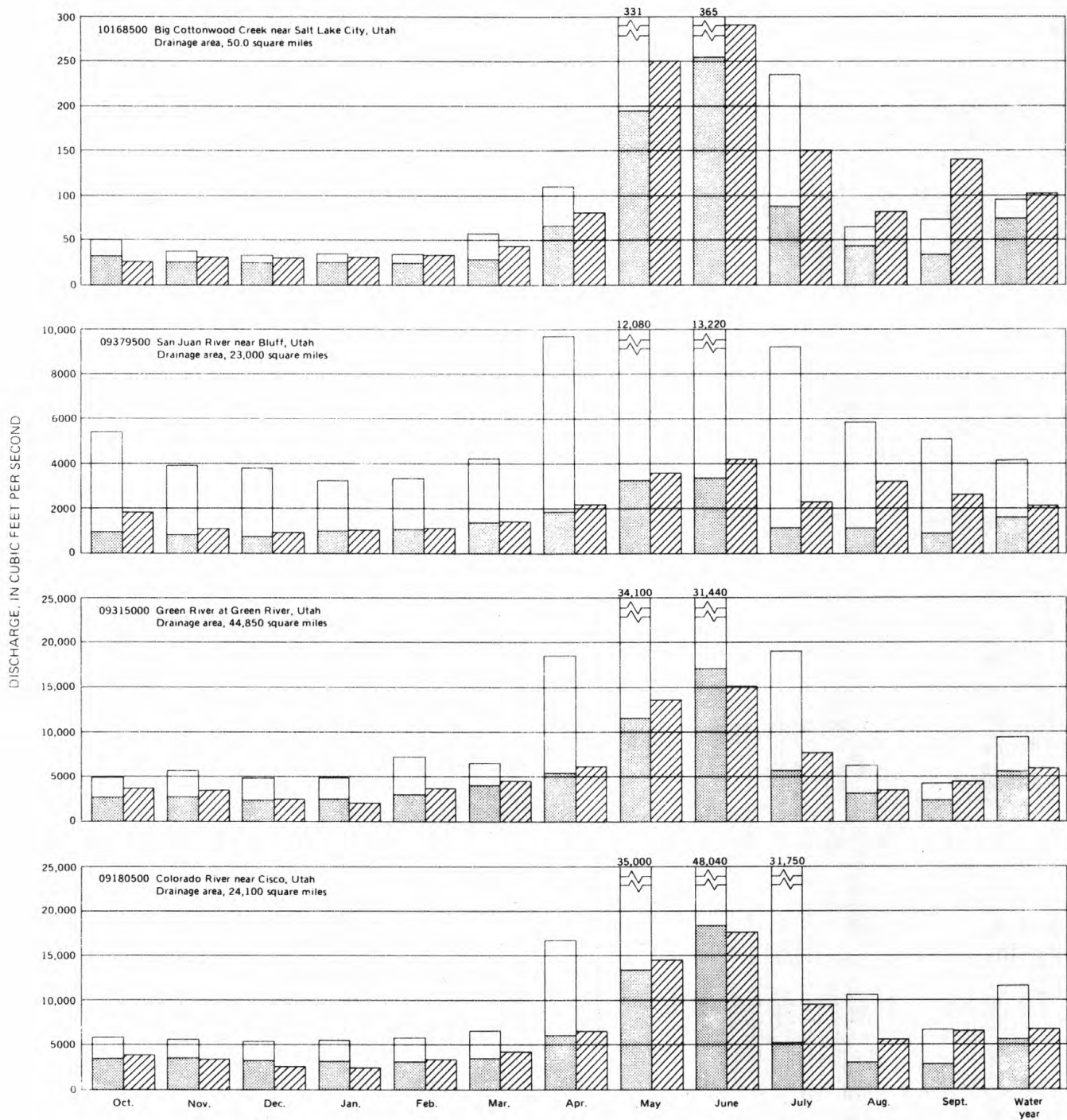


Figure 2.—Comparisons of discharge during the 1982 water year with median and maximum discharge for the 1951-80 water years at seven long-term representative gaging stations—Continued.

As of October 1, 1982, reservoir storage in 19 major irrigation reservoirs was 141 percent of the average, compared to 95 percent of the average the previous year. Much of the increase is due to the heavy September rains. The elevation of Bear Lake was 5,921.08 feet (National Geodetic Vertical Datum of 1929), with contents of 1,240,500 acre-feet, compared to 882,500 acre-feet a year ago.

Great Salt Lake reached a seasonal peak stage of 4,200.85 feet on June 1 and 15, 1982. The peak stage was 0.60 foot higher than the previous year's peak stage and was 1.40 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, 1982 was 4,200.20 feet. This was 2.00 feet higher than the level the previous year and 8.85 feet above the historic record low (4,191.35 feet) during October-November 1963.

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

WATER QUALITY

By Kendall R. Thompson

The National Stream Quality Accounting Network (NASQAN) is a series of stations at which systematic and continuing measurements are made to determine the quality of the Nation's streams. Design of the network specifies measurement of an extensive number of water-quality characteristics, which were selected to meet many of the information requests of those involved in planning and management on a national or regional scale.

Mean dissolved-solids concentrations at all except one NASQAN station for the 1982 water year were not statistically different (at a 95 percent confidence level) from the mean concentration at these stations for the 1974-81 water years (see fig. 3). The mean dissolved-solids concentration at the Bear River near Corinne, station 10126000, was statistically smaller (at a 95 percent confidence level) for the 1982 water year than for the 1974-81 water years. The Bear River at Border, station 10039500, had the smallest mean dissolved-solids concentration and also the smallest range of values for the 1982 water year. The Sevier River near Lynndyl, station 10224000, had the largest mean dissolved-solids concentration for the 1982 water year.

Trace-element concentrations were small at most NASQAN stations. Iron, manganese, and zinc were the most prevalent trace elements occurring predominantly in the suspended rather than the dissolved phase.

Results of several studies pertaining to water quality were released after the end of the 1982 water year. A study of the quantity and quality of streamflow in parts of northeastern Utah and northwestern Colorado, showed that the quality of streamflow varied considerably between the major rivers and the intra-area streams. In the major rivers, the concentrations varied seasonally but did not vary significantly from one location to another. The water in the major rivers generally was less mineralized than that in the intra-area streams.

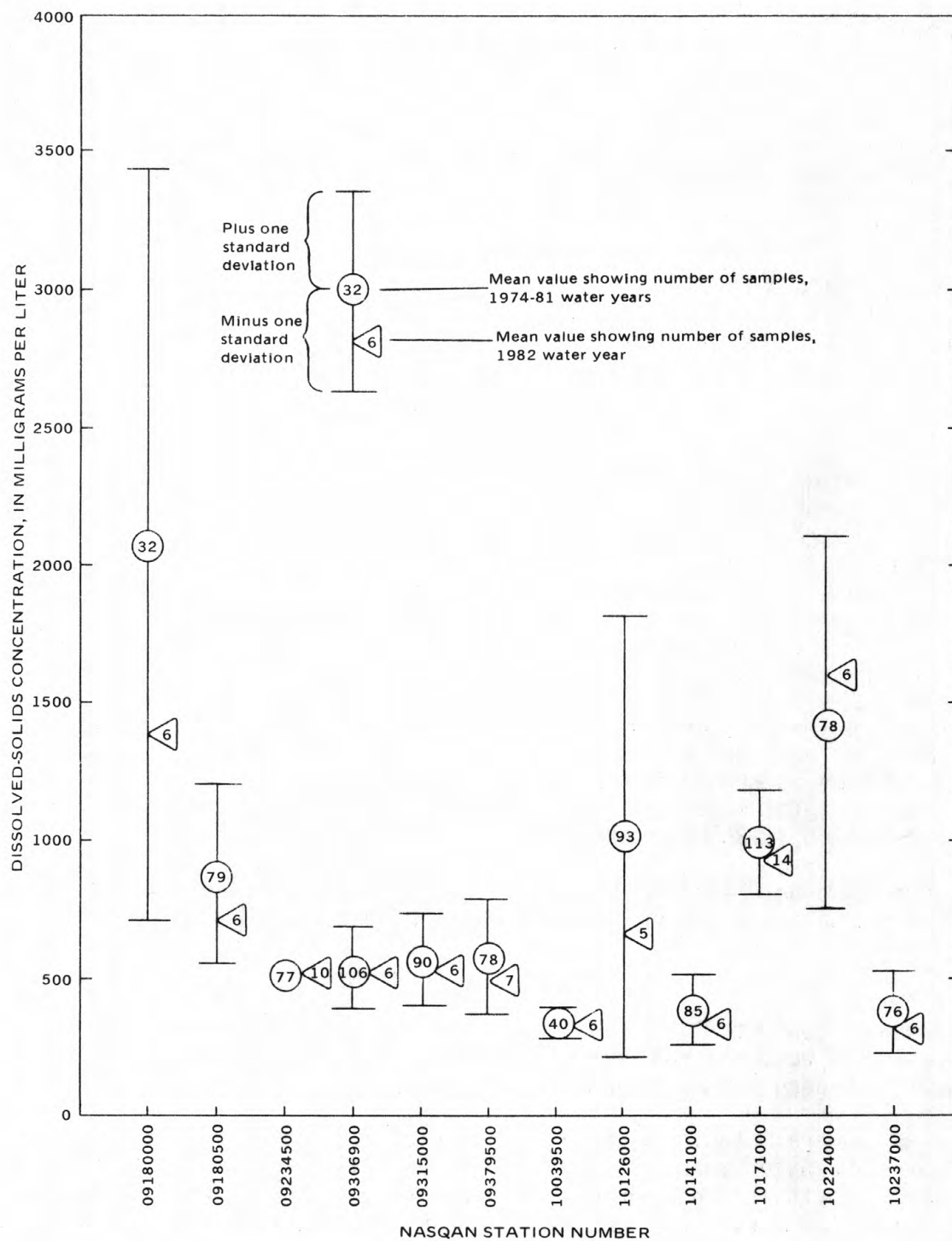


Figure 3.—Mean dissolved-solids concentrations at NASQAN stations. (See fig. 11 for locations of stations).

Dissolved-solids concentrations averaged 572 mg/L for the Green River and 500 mg/L for the White River, whereas mean concentrations for the intra-area streams ranged from 549 mg/L for the ephemeral streams to 5,320 mg/L for Bitter Creek. Dissolved-solids concentrations in base flow in short reaches of Bitter Creek can exceed 10,000 mg/L. Concentrations of major constituents generally do not exceed water-quality criteria of the U.S. Environmental Protection Agency (Quality Criteria for Water, 1976). Major exceptions are hardness and sulfate. Several trace-element concentrations exceeded the water-quality criteria in intra-area streams.

A report about the ground water in the densely populated north-central part of Utah between Nephi and Brigham City showed that in most places the ground water is fresh, containing less than 1,000 mg/L of dissolved solids. In much of the lower Bear River valley and locally in the other valleys, however, the water is slightly to moderately saline, with 1,000 to 10,000 mg/L of dissolved solids.

GROUND WATER

By Joseph S. Gates

Another effect of the torrential rains of September 1982 (7.04 inches during September at the Salt Lake International Airport and 8.99 inches at the University of Utah) was a rise in the water table where it is near the land surface in the lower parts of the Salt Lake (Jordan) Valley. Precipitation for that period was 6.36 inches greater than normal at the Salt Lake International Airport.

Water levels were measured before and after the rainy period in 58 shallow (6-39 feet deep) wells in the valley by the Geological Survey and the Salt Lake City Water Department. Water levels in 54 of these wells either peaked after the rainy period or continued to rise throughout the rest of 1982. Rises were from less than 1 to 4 feet. The water level in one well rose 9 feet, but it is likely that some of this was caused by factors other than the September rains, such as seepage from a nearby canal. Hydrographs for three of the wells are shown in figure 4, and their locations are shown in figure 5.

The water level in well (C-1-1)28cab-1 rose about 2 feet following the September rains and then declined about 1.7 feet. The hydrograph for well (D-1-1)30aaa-1 (measurements by the Salt Lake City Water Department) represents almost all 1982 and shows that the peak after the September rains was higher than the peak in April, which probably was related to recharge from precipitation and snowmelt runoff. The hydrograph for well (D-2-1)20cac-2 is for July 1980 to December 1982; it shows a pattern of declining water levels in the last one-half of each year shown, except for 1982, when water levels reached a second peak following the September rains.

The change of water levels in the principal artesian aquifer in the Salt Lake (Jordan) Valley between February 1982 and February 1983 also may indicate recharge from the September 1982 rains (fig. 5). Water levels in most of the valley rose as much as 2 feet. Along the eastern side of the valley, however, water levels rose from 2 to 12 feet, with the greatest rise along the valley's eastern edge. This area is the principal recharge area for the valley. The

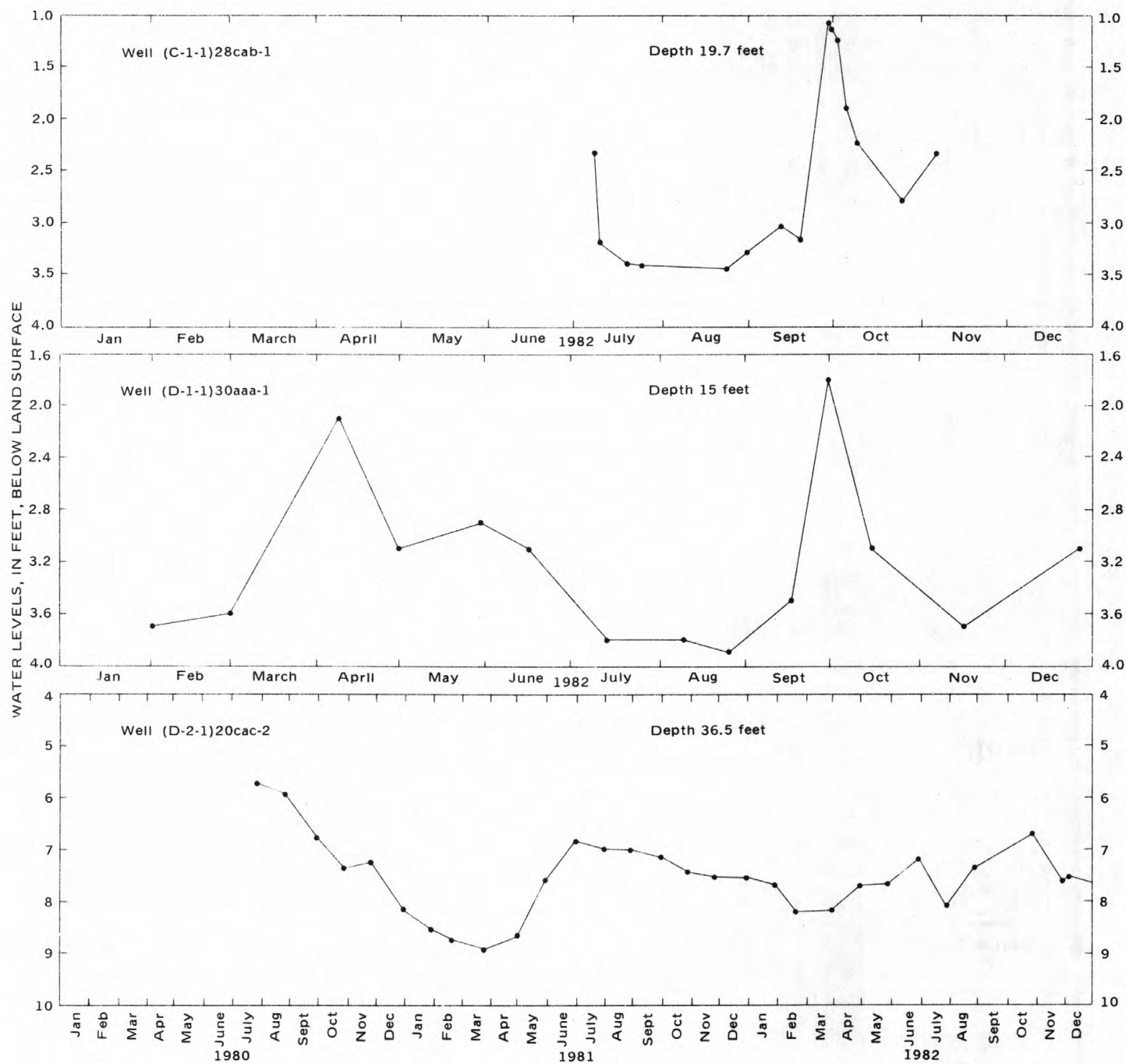


Figure 4.—Hydrographs for three wells completed in the shallow water-table zone, Salt Lake (Jordan) Valley, Utah.

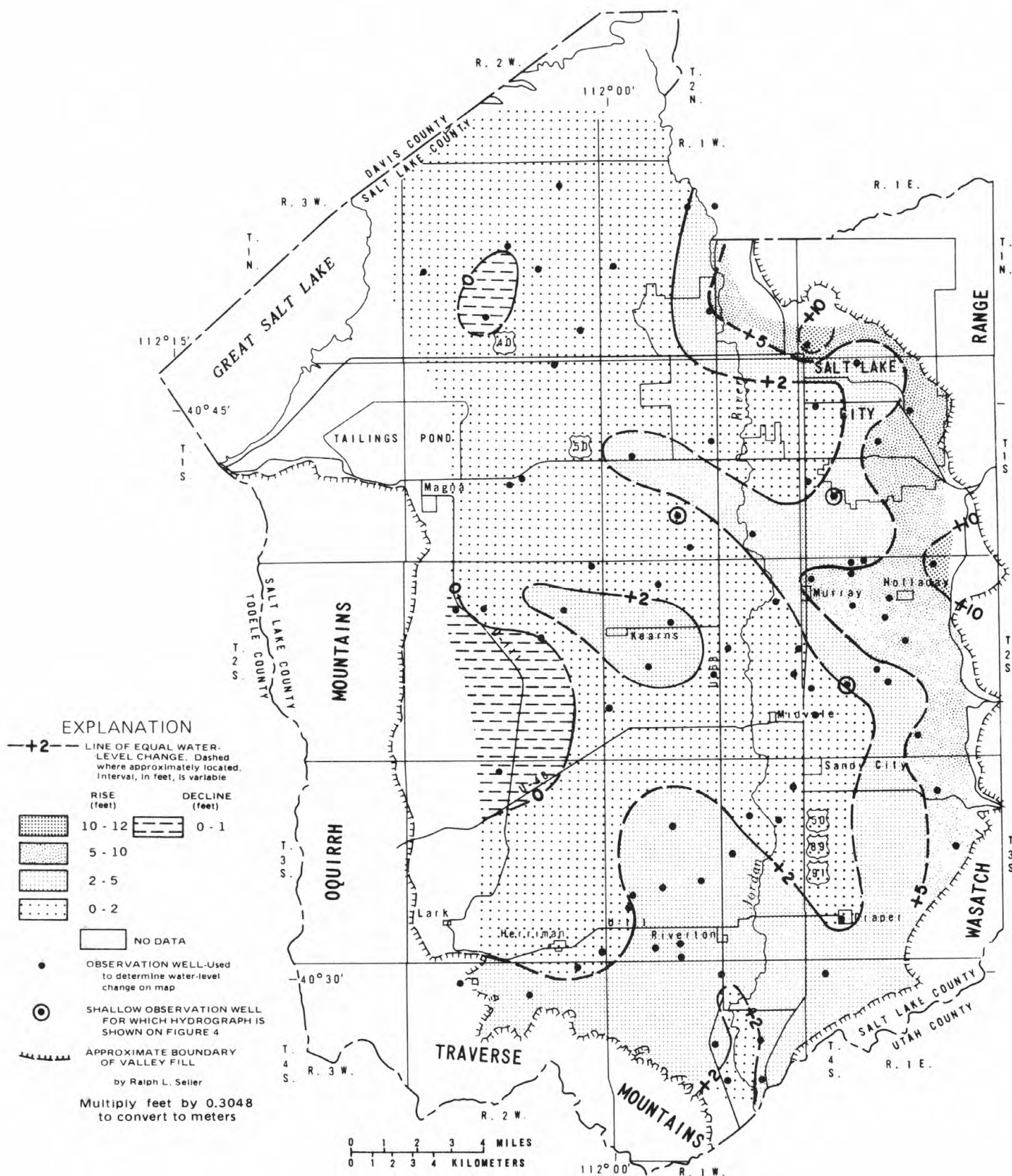


Figure 5.—Change of ground-water levels, February 1982 to February 1983 in Salt Lake (Jordan) Valley, and locations of shallow wells for which hydrographs are shown in figure 4.

addition of water indicated by the water-level rise and the location of the rise indicates recharge all along the east side of the valley, much of which may be from the September rains and storm runoff.

A map of changes in water levels in the principal artesian aquifer from February 1963 to February 1983 shows mostly rises in the Salt Lake (Jordan) Valley (fig. 6). The only significant area of decline is in the southeastern part of the valley, in the Murray-Holladay-Sandy City area, where wells withdraw large quantities of water for municipal use.

The general rise in water levels in the Salt Lake (Jordan) Valley during 1963-83 is not a result of an overall decrease in withdrawals from wells. A graph of withdrawals from wells in the valley (fig. 7) shows a general increase from 1963 to 1982. Average annual withdrawal for successive 5-year intervals increased from 110,400 acre-feet during 1963-67 to 113,000 acre-feet in 1968-72 to 124,800 acre-feet in 1973-77 to 129,600 acre-feet in 1978-82.

Precipitation in the mountains east of and tributary to the recharge area was greater than average for 1963-82. The graph of cumulative departure from average annual precipitation at Silver Lake Brighton (fig. 7) shows that precipitation generally was greater than average during 1963-75, less than average during 1976-79, and greater than average during 1980-82. Overall, the cumulative excess in precipitation for 1963-82 was about 39 inches greater than the 1931-82 average (or about 1.4 inches per year).

Greater than average precipitation undoubtedly caused the general rise in ground-water levels in the Salt Lake (Jordan) Valley during 1963-83. The water-level decline in the Murray-Holladay-Sandy City area probably is a result of increased pumping of water for municipal use in that area.

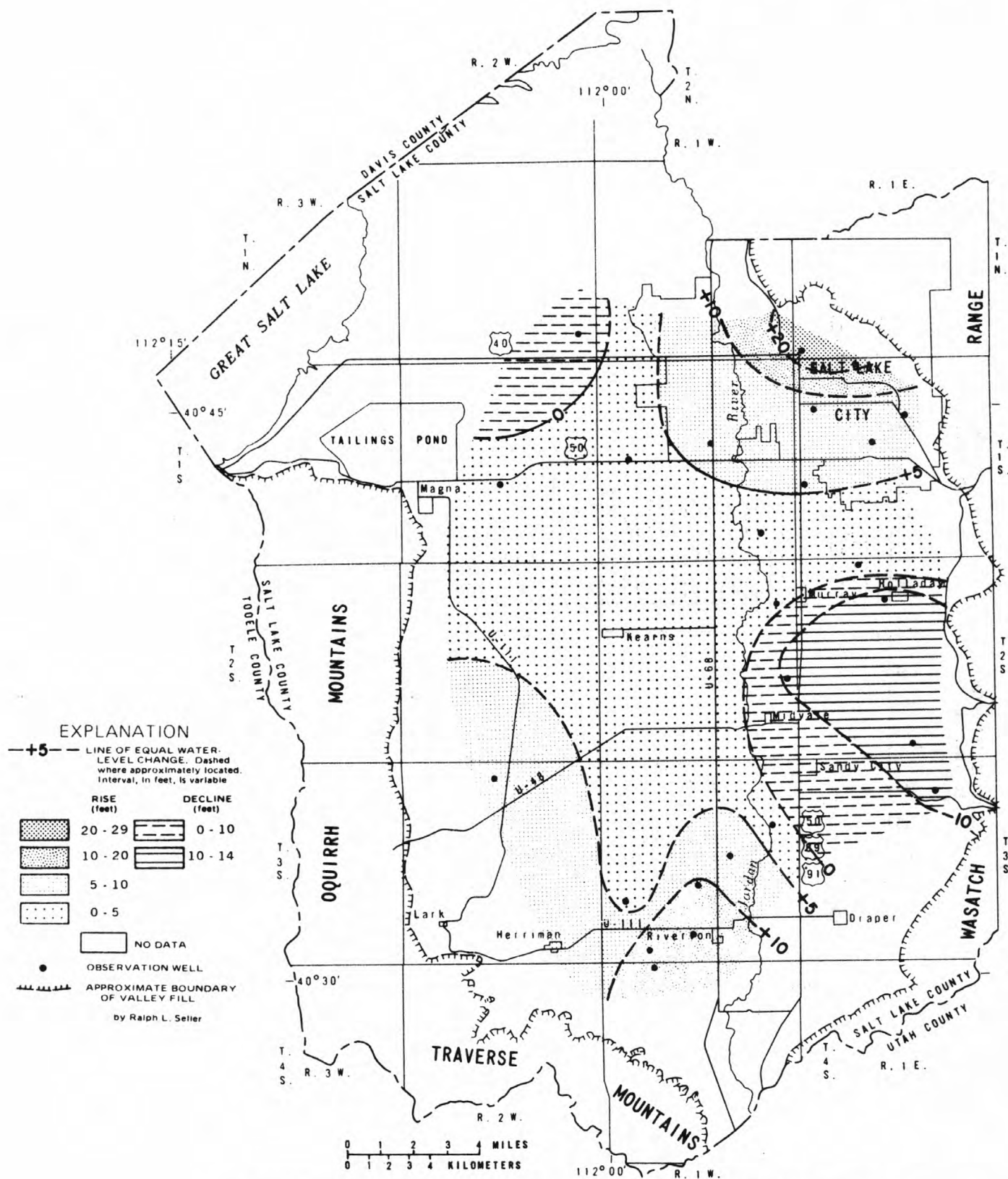


Figure 6.—Change of ground-water levels, February 1963 to February 1983 in Salt Lake (Jordan) Valley.

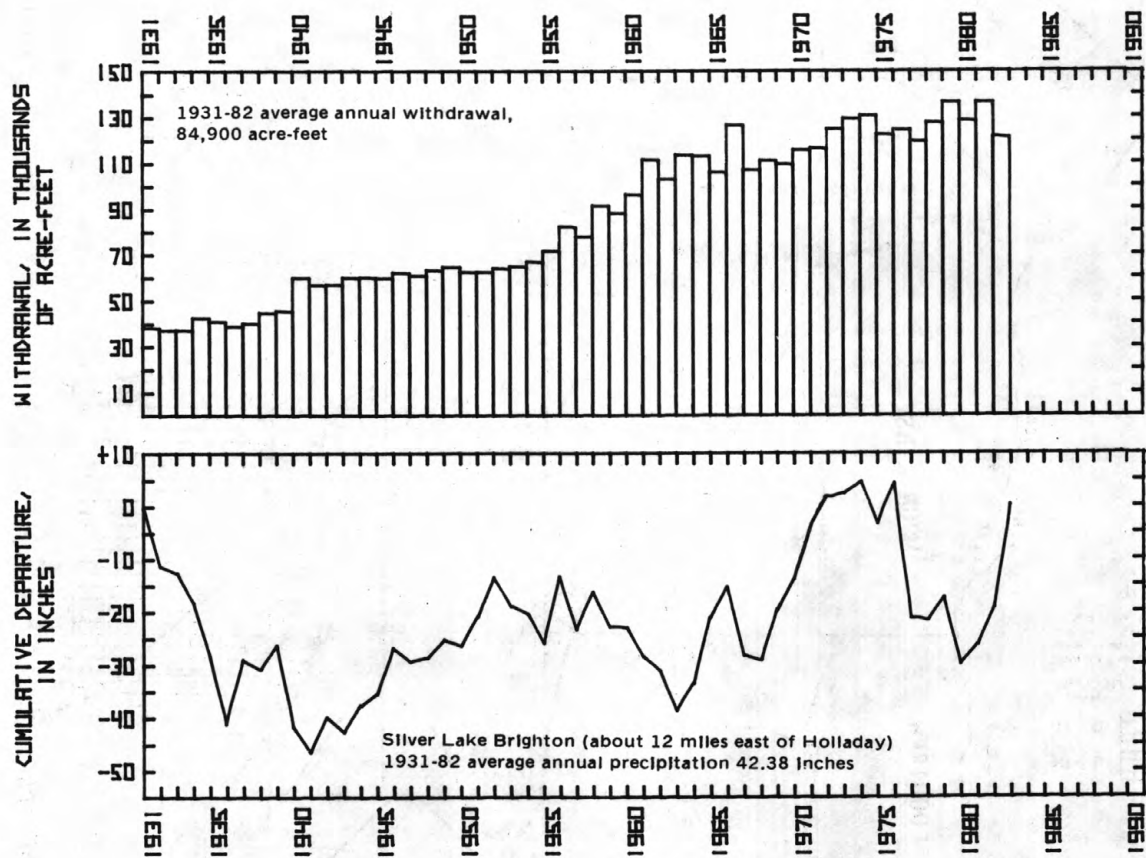


Figure 7.—Annual withdrawals from wells in Salt Lake (Jordan) Valley and cumulative departure from average annual precipitation at Silver Lake Brighton.

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 $\pm$ 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 $\pm$ 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 streptococcal 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 $35^{\circ}\text{C} \pm 1.0^{\circ}\text{C}$ 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 (FT³/s, ft³/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 (colloidal) suspended particles. Analyses are performed on filtered samples.

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

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

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

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

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

FTU is an abbreviation for "Formazin Turbidity Units."

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

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

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

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

Micrograms per gram ($\mu\text{g/g}$) 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 ($\mu\text{g/L}$, $\mu\text{g/L}$) 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 (mL) 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. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in distilled water (chemically dispersed).

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

The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay	0.00024- 0.004	Sedimentation
Silt	.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/(m². time) for periphyton and macrophytes and mg C/(m³. time)] for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon 14). The carbon 14 method

is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

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

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

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

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

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

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

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

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

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

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

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

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the work "stream-flow" 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 submerged solid surface, such as a rock or tree, upon which an organism lived.

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

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

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

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

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

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

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

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

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

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

Water Year in Geological Survey reports, is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1982 is called the "1982 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 indentation in a list of stations in the front of the report. Each indentation represents one rank. This downstream order and system of indentation 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 8.

In addition to the well number that is based on latitude and longitude given for each well, another well number is given that is based on the U.S. Bureau of Land Management's system of land subdivision. This well number is familiar to the water users of Utah and shows the location of the well by quadrant, township, range, section, and position within the section. See figure 9. The capital letter at the beginning of the location number indicates the quadrant in which the well is located. Four quadrants are formed by the intersection of the base line and the principal meridian--A indicates the northeast quadrant, B the northwest, C the southwest, and D the southeast. The

first numeral indicates the township, the second the range, and the third the section in which the well is located. Lowercase letters following the section number locate the well within the section. The first letter denotes the quarter section, the second the quarter-quarter section, and the third the quarter-quarter-quarter section. The letters are assigned within the section in a counterclockwise direction beginning with (a) in the northeast quarter of the section. Letters are assigned within each quarter section and quarter-quarter section in the same manner. Where two or more locations are within the smallest subdivision, consecutive numbers beginning with 1 are added to the letters in the order in which the wells are inventoried. For example, (C-16-9)15daa-2 indicates a well in the northeast quarter of the northeast quarter of the southeast quarter of sec. 15, T.16 S., R.9 W., and shows that this is the second well inventoried in the quarter-quarter-quarter section. The capital letter C indicates that the township is south of the Salt Lake Base Line and that the range is west of the Salt Lake Meridian.

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

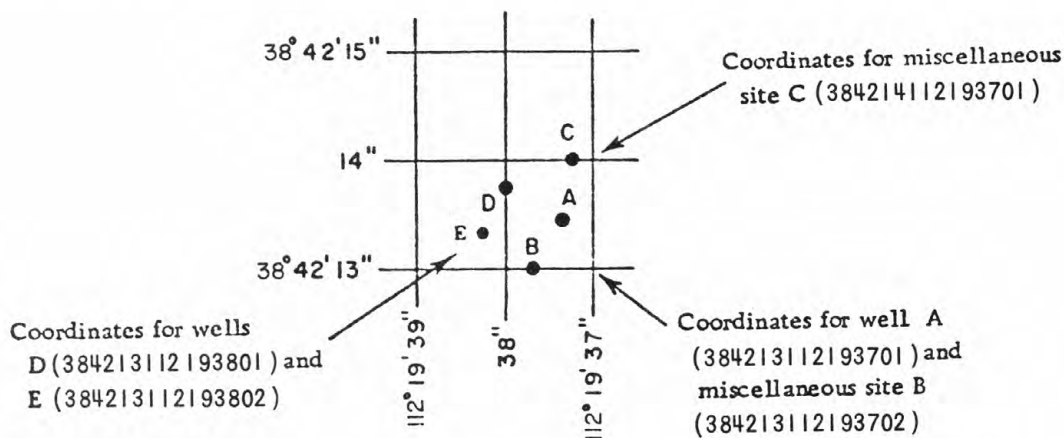


Figure 8.—System for numbering wells and miscellaneous sites (latitude and longitude).

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.

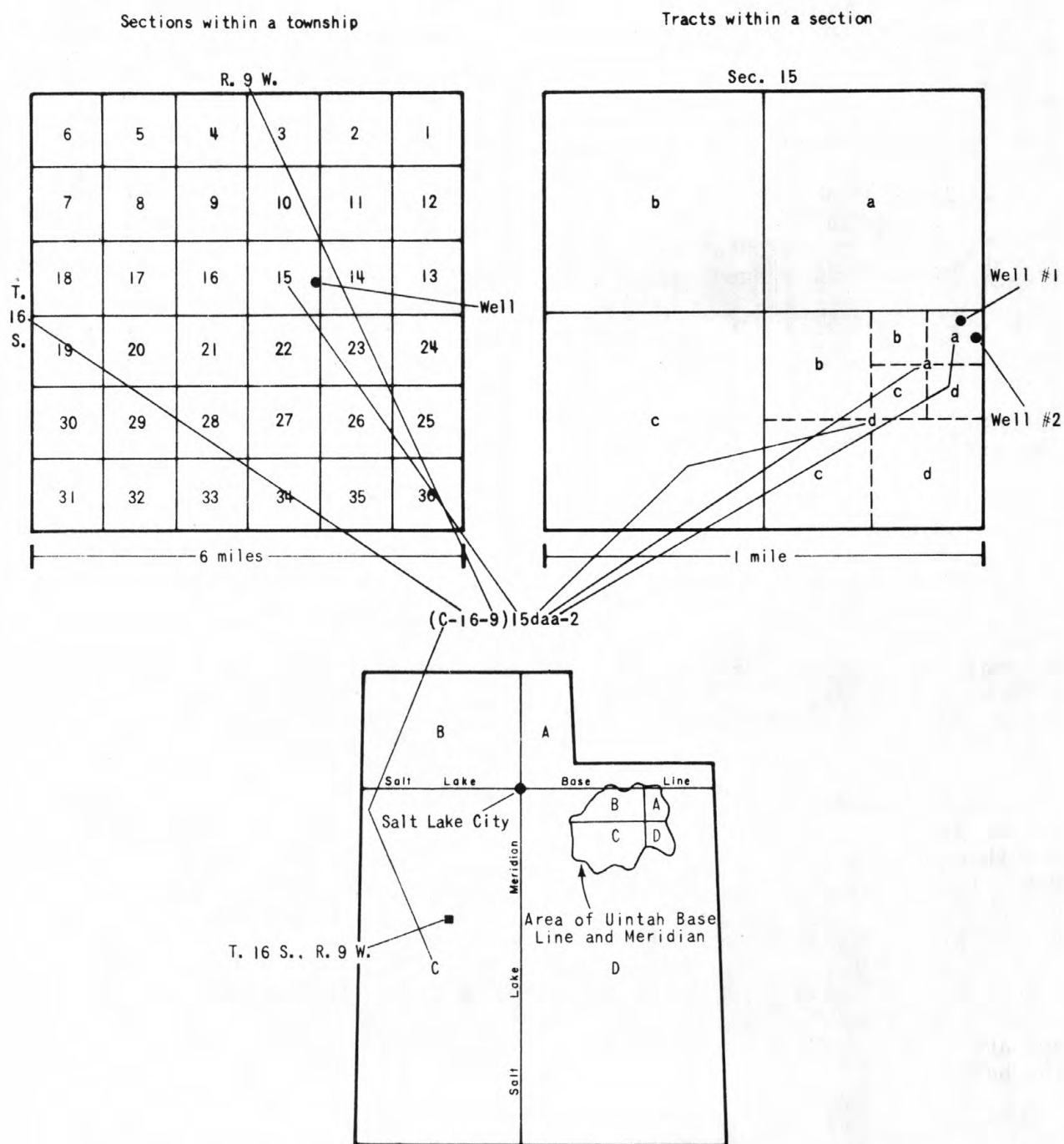


Figure 9.—System for numbering wells (township and range).

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

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

individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

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

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

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

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

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

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

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

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

The type of gage currently in use, the datum of the present gage referred to National Geodetic Vertical Datum of 1929; and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum of 1929 is explained in "DEFINITION OF TERMS" on page 15.

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

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES," the extremes for the period of record are given first, information available outside the period of

record is given second, and those for the current year are given last. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. Peak discharges for some stations are listed with "EXTREMES FOR THE CURRENT YEAR"; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

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

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

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

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

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

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

Accuracy of field data and computed results

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

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

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

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

Other data available

Information of a more detailed nature than that published for most of the gaging stations such as discharge measurements, gage-height records, and rating

tables is available from the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

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

Records of discharge collected by agencies other than the Geological Survey

Records of discharge not published by the Geological Survey, but for which an index is maintained by the Office of Water Data Coordination, were collected in Utah at 27 sites during the 1982 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 (fig. 11). The quality-of-water records are given immediately following the discharge records at these stations.

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

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

Water analysis

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

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

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

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

Specific conductance and temperature only were measured at 167 stations in Utah, usually at one-month intervals (fig. 12). In the tables on pages 433 to 465 a few data are shown as 50 (less than) micromhos or 8,000 (more than) micromhos. Discharge records and detailed information on locations of these stations are given in this report.

Water temperature

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

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

Sediment

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

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

water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

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

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

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

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

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

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

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

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

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

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

- 1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. *Measurement of time of travel and dispersion in streams by dye tracing*, by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.
- 3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
- 3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.
- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, edited by P. E. Greeson, T. A. Ehlike, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.
- 5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 7-C3. *A model for simulation of flow in singular and interconnected channels*, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.
- 8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

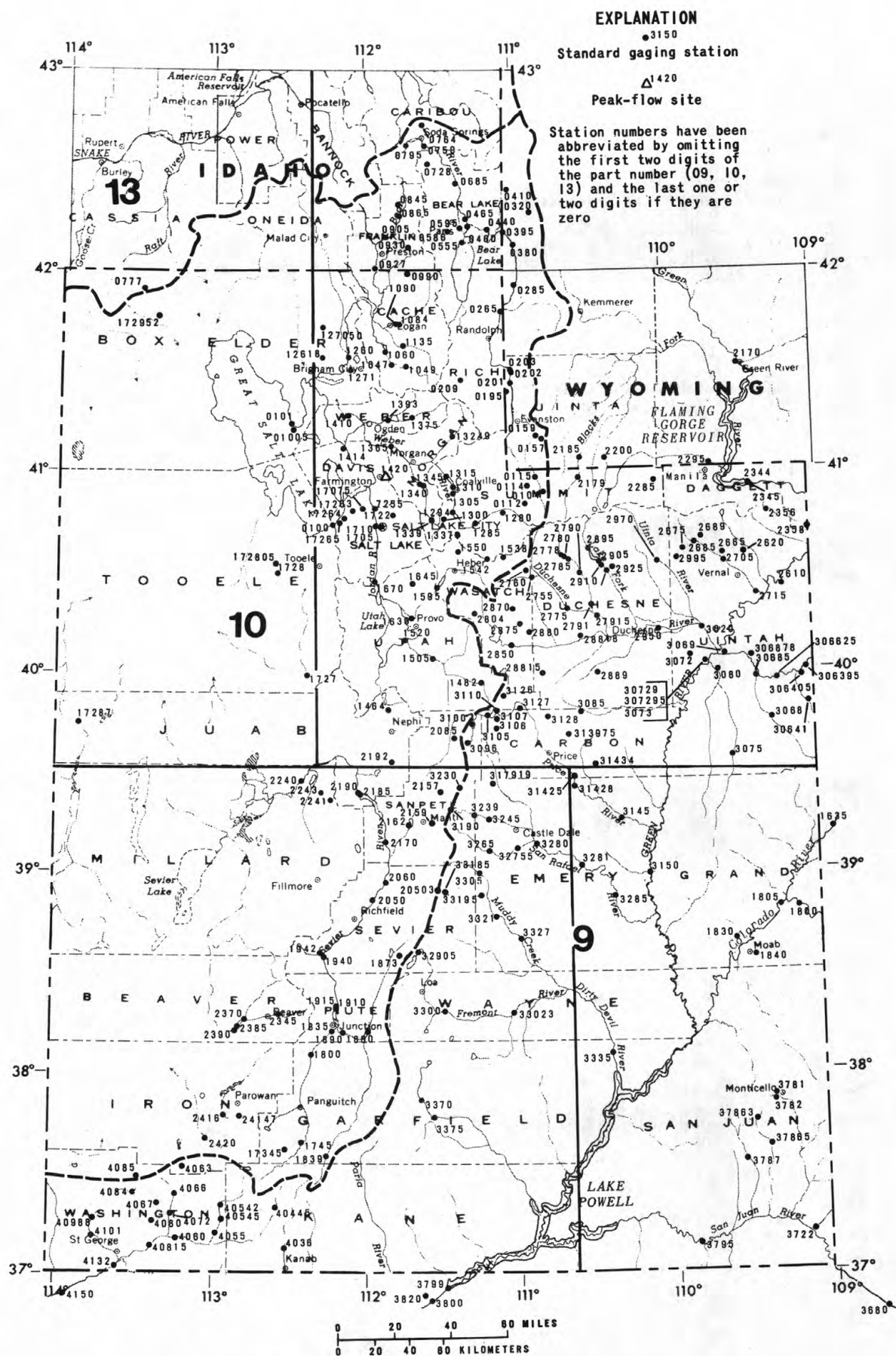
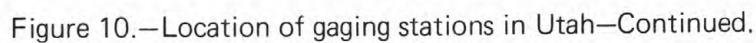
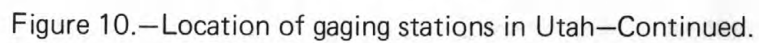
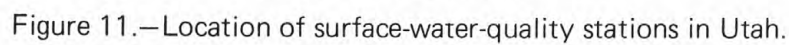


Figure 10.—Location of gaging stations in Utah.







HYDROLOGIC-DATA STATION RECORDS

41

COLORADO RIVER MAIN STEM

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 39°07'45", long 109°01'36", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.5, T.11 S., R.104 W., Mesa County, Hydrologic Unit 14010005, on right bank 0.7 mi (1.1 km) downstream from McDonald Creek, 12 mi (19 km) southwest of Mack, Colorado, and 1.5 mi (2.4 km) upstream from Colorado-Utah State line.

DRAINAGE AREA.--17,843 mi² (46,213 km²).

WATER-DISCHARGE RECORDS

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

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

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

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by trans-mountain diversions, storage reservoirs, power development, and diversions for irrigation. (Records include all return flow from irrigated areas.)

AVERAGE DISCHARGE.--31 years, 5,736 ft³/s (162.4 m³/s), 4,156,000 acre-ft/yr (5,120 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,800 ft³/s (1,610 m³/s) June 9, 1957, gage height, 16.40 ft (4.999 m), site and datum then in use; minimum daily, 960 ft³/s (27.2 m³/s) Sept. 7, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,300 ft³/s (547 m³/s) June 20, gage height, 7.74 ft (2.359 m); minimum daily, 2,280 ft³/s (64.6 m³/s) Jan. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2690	4200	3460	3380	3450	4290	3730	7850	16500	16000	6090	4450
2	2750	4080	3430	3370	3500	4410	3690	9570	16500	16300	5560	4010
3	3260	4090	3130	3250	3540	4620	3700	11900	16300	15500	5660	3750
4	3360	3800	3190	3870	3560	4830	3640	15200	15900	14400	5410	3640
5	4010	3450	3350	2760	3260	4680	3640	17100	15500	13800	5160	3780
6	4480	3500	3330	3040	2880	4380	3590	17600	16300	12900	4790	4330
7	4120	3810	3260	3080	2650	4120	3580	14300	16500	11800	4570	4490
8	3810	3680	3210	2350	2920	4020	3470	12200	15700	10900	4280	4450
9	3780	3670	3180	2280	3390	4030	3090	11200	15800	10100	4570	4770
10	3800	3610	3200	2290	3720	3850	2960	11200	15800	9960	4470	4870
11	3820	3570	3120	2840	3840	4060	3090	10900	16400	9360	4780	5530
12	3980	3470	3170	2900	4020	4260	3210	11000	16000	9070	4800	5830
13	4080	3250	3170	2950	3900	4810	4280	11600	16600	8680	4820	6670
14	4100	3150	3090	2950	3800	4830	5850	11800	17100	8210	5170	7820
15	4280	3110	2880	3000	3870	4650	6140	10500	16400	7710	5440	7360
16	5490	3100	3090	3000	3930	4670	6630	9470	16200	7340	5710	7010
17	4850	3080	3210	3000	4040	4640	6550	8380	15600	7040	5180	6750
18	4380	3610	3200	3050	4200	4540	6010	8100	16200	6800	5050	6500
19	4200	3610	3070	3000	4260	4480	6090	8420	18600	6560	5050	6500
20	4120	3520	2860	3000	4200	4400	6190	9380	18600	6200	4800	6490
21	4150	3430	3170	3000	4210	4330	5550	9610	17400	5890	4570	6600
22	4110	3410	3620	2950	4270	4320	4850	10300	16700	5620	4560	6570
23	4080	3500	3380	2900	4310	4190	4430	12300	15900	5360	4700	6160
24	4010	3520	3070	2850	4310	3950	4780	13200	16000	5300	5030	5890
25	3970	3510	2610	2800	4340	4020	4850	13900	16400	5250	5570	5910
26	4090	3450	2690	2900	4360	3710	5150	13800	16100	5260	5840	5790
27	4050	3410	2770	2920	4290	3710	5670	13900	16100	5150	6030	6410
28	4040	3440	3040	2920	4240	3770	6160	15800	16400	5420	5720	6600
29	4230	3330	2890	2960	---	3720	6730	16800	15100	6460	5510	6770
30	4140	3470	2940	3440	---	3860	7790	17600	16500	6850	5140	6360
31	4290	---	3280	3400	---	3800	---	17700	---	6650	4850	---
TOTAL	124520	105830	97060	92400	107260	131950	145090	382580	491100	271840	158880	172060
MEAN	4017	3528	3131	2981	3831	4256	4836	12340	16370	8769	5125	5735
MAX	5490	4200	3620	3870	4360	4830	7790	17700	18600	16300	6090	7820
MIN	2690	3080	2610	2280	2650	3710	2960	7850	15100	5150	4280	3640
AC-FT	247000	209900	192500	183300	212800	261700	287800	758800	974100	539200	315100	341300
CAL YR 1981 TOTAL	1281060			MEAN 3510	MAX 11200	MIN 1580	AC-FT 2541000					
WTR YR 1982 TOTAL	2280570			MEAN 6248	MAX 18600	MIN 2280	AC-FT 4524000					

DOLORES RIVER BASIN

09180000 DOLORES RIVER NEAR CISCO, UTAH

LOCATION.--Lat 38°47'50, long 109°11'40", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ 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 mi² (11,860 km²), approximately.

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Altitude of gage is 4,165 ft (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 fair. Many diversions for irrigation above station.

AVERAGE DISCHARGE.--32 years, 746 ft³/s (21.1 m³/s), 540,500 acre-ft/yr (666 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,400 ft³/s (493 m³/s) Apr. 21, 1958, gage height, 9.84 ft (3.000 m) at different datum; minimum, 3.4 ft³/s (0.096 m³/s) Sept. 23, 1956.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 3,000 ft³/s (85.0 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	(m ³ /s)	Gage height (ft)	(m)
Apr. 16	0200	5940	168	11.20	3.414
May 6	1730	*6220	176	11.32	3.450
Aug. 26	1100	3730	106	10.01	3.051
Sept. 14	1000	3560	101	9.90	3.018

Minimum daily, 100 ft³/s (2.83 m³/s) Jan. 7-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	184	218	140	170	284	314	3440	3490	1970	513	738
2	121	173	191	140	170	275	300	3740	3340	1990	563	579
3	121	174	173	140	160	275	295	3990	3360	1880	520	453
4	315	178	178	120	160	294	280	4830	3330	1720	494	387
5	1400	179	188	135	160	281	287	5310	3090	1550	416	481
6	507	187	188	120	150	266	347	5370	2900	1370	358	500
7	277	191	183	100	140	256	577	4280	2800	1150	331	446
8	250	198	181	100	160	241	798	3280	2600	1010	332	370
9	221	206	170	100	160	219	776	2820	2300	933	334	376
10	202	199	170	100	170	221	774	2530	2400	909	470	444
11	194	203	168	100	170	249	829	2360	2300	853	436	594
12	186	195	173	110	170	268	1100	2280	2400	831	424	903
13	196	194	168	110	180	323	2810	2300	2300	748	444	1250
14	207	197	160	110	180	402	4970	2150	2200	709	372	2380
15	244	181	155	130	200	568	5130	2340	2100	637	492	1540
16	793	178	147	130	190	507	5290	2500	2100	634	518	1100
17	640	161	152	130	250	452	4890	2440	2000	588	408	1120
18	350	142	129	130	268	418	3840	2380	2000	581	376	1100
19	247	152	123	150	265	365	3770	2230	2100	578	360	1160
20	204	179	131	160	259	348	3450	2230	2200	516	352	1090
21	188	187	160	150	247	338	2860	2330	2100	485	387	1430
22	170	200	173	150	259	324	2380	2360	1980	470	423	1080
23	170	229	160	140	260	299	2260	2690	1870	446	402	904
24	168	214	130	150	276	289	2120	2910	1840	473	1100	830
25	165	196	135	150	270	274	2160	2910	1850	529	1610	728
26	168	215	135	160	283	271	2250	2740	1860	520	2820	654
27	170	220	135	180	292	280	2390	2770	1950	547	2560	820
28	170	211	130	170	281	278	2600	3240	2100	572	2160	1040
29	178	213	135	170	---	286	2940	3450	2180	561	1560	910
30	179	217	140	170	---	351	3170	3450	2080	696	1200	750
31	180	---	150	160	---	339	---	3900	---	679	955	---
TOTAL	8699	5753	4929	4205	5900	9841	65957	95550	71120	27135	23690	26157
MEAN	281	192	159	136	211	317	2199	3082	2371	875	764	872
MAX	1400	229	218	180	292	568	5290	5370	3490	1990	2820	2380
MIN	118	142	123	100	140	219	280	2150	1840	446	331	370
AC-FT	17250	11410	9780	8340	11700	19520	130800	189500	141100	53820	46990	51880
CAL YR 1981	TOTAL	111195	MEAN	305	MAX	1630	MIN	94	AC-FT	220600		
WTR YR 1982	TOTAL	348936	MEAN	956	MAX	5370	MIN	100	AC-FT	692100		

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

WATER-QUALITY RECORDS

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

SPECIFIC CONDUCTANCE: March 1951 to September 1959, October 1964 to September 1981, March to September 1982.

WATER TEMPERATURES: March 1951 to September 1959, October 1964 to September 1981, March to September 1982.

SUSPENDED-SEDIMENT DISCHARGE: March 1951 to December 1953, October 1957 to September 1964, October 1978 to September 1979, quarterly, October 1979 to September 1980, periodically.

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

EXTREMES FOR PERIOD OF 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 observed, 5,740 micromhos Dec. 28; minimum daily, 325 micromhos May 31.

WATER TEMPERATURES: Maximum, 27.0°C several days during July and Aug.; minimum observed 0.0°C Dec. 28.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT 28...	1030	181	4760	7.9	14.5	8.0	22	10.4	--	--
DEC 28...	1030	131	5740	7.9	-2.5	.0	44	12.4	659	K24
FEB 22...	1030	258	2920	8.1	8.5	3.5	190	11.4	660	K20
APR 19...	1030	4380	320	7.8	9.5	8.0	660	9.7	661	--
JUN 21...	1100	2170	440	8.0	27.0	15.5	130	8.1	657	K30
AUG 27...	1100	2460	440	8.0	25.5	19.5	7500	7.3	655	--

DATE	STREP- TOCOC- CI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT 28...	--	540	400	130	53	690	72	13	32
DEC 28...	K64	530	350	120	56	920	77	17	41
FEB 22...	K36	440	290	98	47	420	66	8.7	20
APR 19...	--	120	42	36	7.7	21	27	.9	1.0
JUN 21...	K65	150	64	43	11	34	32	1.3	2.2
AUG 27...	--	190	100	56	12	50	36	1.7	5.0

DATE	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT 28...	140	340	1300	.3	8.9	2640	2640	3.6	1290
DEC 28...	180	340	1500	.3	7.5	3200	3090	4.4	1130
FEB 22...	150	340	640	.4	18	1680	1670	2.3	1170
APR 19...	80	46	23	.2	7.1	205	190	.28	2420
JUN 21...	89	79	45	.2	6.5	251	274	.34	1470
AUG 27...	89	140	59	.3	6.3	365	383	.50	2420

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

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

		NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
	DATE									
	OCT 28...	.660	.85	.94	.91	.010	.03	<.010	.020	.06
	DEC 28...	1.60	2.1	1.70	.51	.020	.06	.020	<.010	--
	FEB 22...	3.80	4.9	4.00	.55	.040	.12	.080	.010	.03
	APR 19...	.200	.26	3.40	.30	.770	2.4	.020	<.010	--
	JUN 21...	.070	.09	1.60	.19	.110	.34	.070	<.010	--
	AUG 27...	<.060	.08	17.0	.30	3.70	11	.140	.020	.06
			</							

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						3120	2180	355	330	---	1260	760
2						3280	2550	335	350	465	1160	830
3						---	2430	340	340	500	---	1060
4						3210	2710	345	340	490	1400	1180
5						3100	2910	350	355	550	1650	1370
6						2940	---	335	360	---	1380	1630
7						3050	2610	335	360	670	1710	1640
8						2900	2000	345	370	690	1970	2040
9						3000	1180	370	390	890	1950	---
10						---	1070	400	390	1010	1750	1770
11						3290	990	415	375	990	2690	1230
12						3420	980	425	365	1050	---	1710
13						3180	870	440	370	1090	1320	720
14						2980	890	470	365	1120	1320	---
15						2250	560	495	365	1160	1880	710
16						1840	430	460	400	1240	1610	780
17						1720	390	450	420	1230	---	1270
18						1560	360	475	450	1460	2320	830
19						1720	360	490	450	1510	2040	730
20						1900	---	520	430	1420	2250	---
21						2090	370	485	470	1460	2680	790
22						2150	405	490	490	1500	3370	800
23						2230	420	455	530	1570	---	810
24						2290	420	435	550	1580	2350	920
25						2570	450	415	560	1610	---	930
26						2740	430	425	560	1480	680	1060
27						2960	410	415	540	1440	690	1100
28						2990	400	390	475	1460	560	---
29						3110	380	350	410	1550	600	1140
30						3130	340	350	425	1510	640	1020
31						---	---	325	---	910	680	---
MEAN						2670	1050	409	420	1160	1610	1110

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						9.0	10.0	12.0	17.0	---	27.0	23.0
2						9.0	11.0	14.0	17.0	21.0	26.0	23.0
3						---	12.0	14.0	17.0	21.0	---	23.0
4						9.0	12.0	14.0	18.0	20.0	26.0	23.0
5						9.0	11.0	12.0	18.0	19.0	26.0	23.0
6						9.0	---	11.0	18.0	---	26.0	23.0
7						8.0	11.0	11.0	18.0	19.0	26.0	23.0
8						8.0	11.0	12.0	18.0	21.0	26.0	20.0
9						9.0	9.0	12.0	18.0	23.0	26.0	---
10						---	9.0	12.0	18.0	23.0	26.0	20.0
11						10.0	9.0	12.0	19.0	23.0	26.0	19.0
12						11.0	9.0	12.0	19.0	24.0	---	20.0
13						10.0	11.0	12.0	18.0	24.0	26.0	18.0
14						9.0	12.0	12.0	19.0	24.0	26.0	---
15						9.0	12.0	12.0	19.0	24.0	26.0	16.0
16						9.0	10.0	14.0	19.0	24.0	26.0	17.0
17						9.0	10.0	14.0	20.0	24.0	---	18.0
18						10.0	10.0	15.0	20.0	24.0	26.0	18.0
19						10.0	10.0	15.0	20.0	25.0	26.0	18.0
20						10.0	---	15.0	20.0	25.0	26.0	---
21						10.0	---	17.0	20.0	26.0	27.0	18.0
22						10.0	10.0	18.0	20.0	26.0	26.0	17.0
23						11.0	12.0	18.0	20.0	26.0	---	18.0
24						12.0	14.0	18.0	20.0	27.0	25.0	20.0
25						12.0	14.0	17.0	21.0	27.0	---	20.0
26						12.0	14.0	17.0	21.0	27.0	21.0	18.0
27						12.0	14.0	17.0	21.0	27.0	22.0	16.0
28						12.0	14.0	17.0	21.0	27.0	21.0	---
29						11.0	14.0	17.0	21.0	27.0	22.0	16.0
30						8.0	11.0	17.0	21.0	27.0	22.0	15.0
31						---	---	17.0	---	27.0	23.0	---
MEAN						10.0	11.5	14.5	19.0	24.0	25.0	19.5

DOLORES RIVER BASIN

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT 28...	1030	181	8.0	334	99	163
DEC 28...	1030	131	.0	399	96	141
FEB 22...	1030	258	3.5	490	99	341
APR 19...	1030	4380	8.0	2210	92	26100
JUN 21...	1100	2170	15.5	281	96	1650
AUG 27...	1100	2460	19.5	14400	--	95600

09180500 COLORADO RIVER NEAR CISCO, UTAH

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

DRAINAGE AREA.--24,100 mi² (62,420 km²), 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 except for winter period, Jan. 10 to Feb. 17, which is poor. 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.--71 years (1911-82), 7,491 ft³/s (212.1 m³/s), 5,427,000 acre-ft/yr (6.69 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 76,800 ft³/s (2,175 m³/s) June 19, 1917, gage height, 19.7 ft (6.00 m); minimum recorded, 558 ft³/s (15.8 m³/s) July 21, 1934, gage height, 0.44 ft (0.134 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, about 125,000 ft³/s (3,540 m³/s) July 4, 1884, from flood record at Fruita, Colo.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,700 ft³/s (643 m³/s) May 6, gage height, 8.65 ft (2.637 m); minimum daily, 2,080 ft³/s (58.9 m³/s) Jan. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2340	4090	3360	3180	3250	4260	3740	10900	19600	17500	6640	5120
2	2350	3920	3280	3270	3300	4340	3650	12200	19000	17700	6080	4560
3	2800	3910	3050	3060	3340	4550	3680	14400	18800	17100	6000	4110
4	3120	3790	2960	2700	3360	4820	3650	18200	18300	15800	5870	3870
5	4630	3340	3090	2370	3060	4780	3560	20900	17400	14900	5620	3960
6	4750	3280	3150	2810	2660	4420	3610	22200	17700	14000	5150	4480
7	4110	3600	3100	2990	2480	4140	3750	19200	18000	12800	4880	4800
8	3740	3550	3030	2500	2740	3940	3900	15900	17000	11700	4460	4670
9	3640	3520	3010	2240	3220	3980	3530	14200	16800	11000	4690	4860
10	3620	3500	3010	2080	3580	3700	3260	13600	17100	10700	4760	5080
11	3680	3430	2940	2660	3650	3980	3370	12900	17800	10200	4800	5750
12	4000	3360	2980	2700	3820	4120	3650	12500	17800	9790	5310	6640
13	3940	3100	2950	2750	3700	4670	6030	12700	18000	9480	5130	7410
14	4000	2980	2940	2750	3620	5010	11000	12900	18800	9010	5320	9930
15	4100	2890	2640	2800	3680	4970	11300	12300	18300	8570	5740	8670
16	6010	2860	2810	2800	3750	4910	11700	11700	18000	8080	6080	7800
17	5620	2820	2940	2800	3880	4890	11400	10400	16600	7780	5620	7530
18	4460	3080	2930	2850	4200	4720	10100	9860	17000	7480	5350	7250
19	4200	3460	2750	2800	4260	4530	9980	9660	19400	7360	5280	7260
20	4020	3320	2600	2800	4180	4460	9920	10200	20100	7050	5140	7240
21	3980	3250	2810	2800	4220	4380	8850	10800	18700	6510	4880	7610
22	3920	3210	3380	2750	4240	4300	7900	11100	17500	6430	4780	7370
23	3880	3340	3290	2700	4260	4200	7060	13100	17000	6000	5070	6870
24	3840	3340	2940	2650	4260	3960	6910	14800	17100	5800	5890	6500
25	3820	3340	2450	2600	4280	4100	7080	15700	17200	5700	6930	6380
26	3860	3320	2320	2700	4340	3760	7330	15400	17200	5700	8000	6240
27	3840	3300	2410	2720	4300	3650	7930	15400	17300	5700	8210	6940
28	3840	3320	2770	2720	4200	3740	8560	17500	17500	6000	7600	8200
29	4080	3250	2650	2760	---	3680	9380	19000	17900	6900	6800	7510
30	3930	3320	2720	3240	---	3840	10500	20000	18000	7200	6190	6980
31	4140	---	2980	3200	---	3900	---	20700	---	7290	5660	---
TOTAL	122260	100790	90240	85750	103830	132700	206280	450320	536900	297230	177930	191590
MEAN	3944	3360	2911	2766	3708	4281	6876	14530	17900	9588	5740	6386
MAX	6010	4090	3380	3270	4340	5010	11700	22200	20100	17700	8210	9930
MIN	2340	2820	2320	2080	2480	3650	3260	9660	16600	5700	4460	3870
AC-FT	242500	199900	179000	170100	205900	263200	409200	893200	1065000	589600	352900	380000
CAL YR 1981 TOTAL	1286520			3525	MAX 11800	MIN 1340	AC-FT 2552000					
WTR YR 1982 TOTAL	2495820			6838	MAX 22200	MIN 2080	AC-FT 4950000					

COLORADO RIVER MAIN STEM

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

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1941 to September 1952, October 1954 to September 1981, March to September 1982.

WATER TEMPERATURES: May 1949 to September 1959, October 1964 to September 1981, March to September 1982.

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 observed, 1,590 micromhos Oct. 28; minimum observed, 450 micromhos June 22.

WATER TEMPERATURES: Maximum, 25.0°C Aug. 24; minimum observed, 0.0°C Dec. 28.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 14,500 mg/L Apr. 14; minimum daily mean, 7 mg/L Dec. 15.

SEDIMENT LOADS: Maximum daily, 431,000 tons (391,000 tonnes) Apr. 14; minimum daily, 50 tons (45 tonnes) Dec. 15.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT 28...	1330	3750	1590	8.0	18.0	9.0	54	9.7	--	--
DEC 28...	1330	3400	1570	8.1	.5	.0	10	--	--	K10
FEB 22...	1300	4200	1140	8.1	16.5	5.5	250	11.1	660	K18
APR 20...	1000	10100	640	8.0	5.0	6.5	210	9.6	665	--
JUN 22...	1030	18000	450	8.1	21.0	16.5	250	8.3	660	73
AUG 25...	1000	6550	860	8.1	23.5	22.0	5000	7.4	660	--

DATE	100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT 28...	--	--	460	300	120	38	160	43	3.4	6.8
DEC 28...	K46	--	430	260	105	40	180	47	3.9	6.1
FEB 22...	58	--	300	160	76	27	130	48	3.4	5.2
APR 20...	--	--	210	87	55	17	53	35	1.7	1.8
JUN 22...	140	--	180	86	49	13	30	27	1.0	1.5
AUG 25...	--	--	370	190	100	28	84	33	2.0	6.0

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

COLORADO RIVER MAIN STEM

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09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	
OCT 28...	160	360	220	.4	10	1060	1010	1.4	10700	
DEC 28...	170	340	210	.4	11	1050	995	1.4	9640	
FEB 22...	140	240	150	.5	9.7	740	723	1.0	8390	
APR 20...	120	150	43	.3	9.9	365	402	.50	9910	
JUN 22...	90	110	26	.2	9.6	307	293	.42	14900	
AUG 25...	176	300	73	.3	12	706	710	.96	12500	
	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	
OCT 28...	.130	.17	1.40	.86	.020	.06	.010	.040	.12	
DEC 28...	.260	.33	4.80	.86	.030	.09	.020	<.010	--	
FEB 22...	.460	.59	.92	.62	.030	.09	.020	.020	.06	
APR 20...	.140	.18	1.90	.64	.470	1.4	.030	.010	.03	
JUN 22...	.080	.10	1.00	.36	.120	.37	.040	.040	.12	
AUG 25...	<.060	.08	23.0	1.0	2.00	6.1	.050	.030	.09	
DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
OCT 28...	1330	3	2	1	100	40	65	<1	<1	20
FEB 22...	1300	3	1	2	200	0	270	<1	<1	20
APR 20...	1000	8	7	1	300	200	120	1	<3	20
AUG 25...	1000	23	21	2	1700	1400	290	<1	<1	50
DATE	CHRO- MIUM, SUS- PENDE RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 28...	--	<10	3	<3	5	4	1	2000	--	<10
FEB 22...	10	10	5	<3	21	11	10	12000	--	<10
APR 20...	--	<10	4	<1	33	32	1	11000	11000	36
AUG 25...	--	<10	36	<1	100	97	3	57000	57000	8

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOVERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOVERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOVERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)
OCT 28...	4	1	3	70	70	5	.1	--	<.1	3
FEB 22...	13	--	<1	250	240	11	<.1	--	<.1	19
APR 20...	18	--	<1	380	370	6	.2	.1	.1	15
AUG 25...	35	--	<1	2800	--	<1	.8	.7	.1	83

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, 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 28...	2	1	8	0	8	<1	<1	20	20	3
FEB 22...	17	2	5	0	5	<1	<1	80	0	210
APR 20...	--	<1	4	1	3	<1	<1	100	0	120
AUG 25...	--	<1	16	10	6	1	<1	330	250	79

DATE	TIME	TRITIUM IN WATER MOLE- CULES (TU)	TRITIUM WATER MOLE- CULES COUNT ERROR (TU)
OCT 01-31	--	69.6	2.9
NOV 15...	--	67.7	2.8
DEC 16...	--	71.6	3.0
JAN 25...	--	68.0	2.5
MAR 01-31	--	64.8	3.1
APR 01-30	--	51.4	2.1
MAY 01-31	--	52.1	1.9
JUN 01-30	--	51.0	2.0
JUL 25...	1915	55.3	4.2
AUG 25...	2300	51.9	5.0
SEP 30...	1730	59.1	4.7

[illegible]

COLORADO RIVER MAIN STEM

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09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	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)	PER- THANE TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	MIREX, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)
FEB 22...	0	.00	.02	.00	.00	.00	.00	.00	.00

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---		---		---	970	1030	600	470	520	900	1120
2	---		---		---	970	1070	580	495	480	910	1140
3	---		---		---	980	1060	580	495	490	980	1200
4	---		---		---	950	1080	485	500	520	1000	1260
5	---		---		---	970	1070	470	500	520	1030	1300
6	---		---		---	1000	1050	460	510	550	1040	1320
7	---		---		---	1000	1100	450	490	550	1070	1250
8	---		---		---	1020	1100	485	490	580	1110	1270
9	---		---		---	1000	1040	520	500	610	1090	1260
10	---		---		---	1010	1080	530	495	660	1170	1240
11	---		---		---	1000	1050	560	495	690	1230	1280
12	---		---		---	1000	1090	560	485	690	---	1190
13	---		---		---	1000	1190	570	490	700	1120	1150
14	---		---		---	950	960	640	485	720	1270	1170
15	---		---		---	950	770	650	490	740	1150	1070
16	---		---		---	940	720	660	490	760	1160	1040
17	---		---		---	920	640	690	500	770	1120	1060
18	---		---		---	950	660	750	500	810	1140	1020
19	---		---		---	960	670	750	495	830	1130	1020
20	---		---		---	950	670	730	475	840	1130	960
21	---		---		---	950	660	690	490	880	1130	1000
22	---		---		1140	940	710	660	500	900	1270	1010
23	---		---		---	940	730	580	520	910	---	1030
24	---		---		---	940	790	550	510	910	1290	1000
25	---		---		---	960	770	520	500	---	860	1020
26	---		---		---	1010	780	530	500	940	950	1030
27	---		---		---	1030	750	530	495	1000	970	1060
28	1590		1570		---	1080	710	485	500	1000	1020	1090
29	---		---		---	1100	680	465	500	1020	1040	1030
30	---		---		---	1120	640	465	480	1050	1070	---
31	---		---		---	1060	---	460	---	910	1120	---
MEAN	---		---		---	988	877	570	495	752	1090	1120

COLORADO RIVER MAIN STEM

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---		---		---	8.0	9.0	14.0	14.0	18.0	24.0	23.0
2	---		---		---	8.0	9.0	14.0	14.0	18.0	23.0	23.0
3	---		---		---	8.0	9.0	15.0	14.0	18.0	23.0	23.0
4	---		---		---	8.0	9.0	15.0	15.0	17.0	23.0	23.0
5	---		---		---	8.0	10.0	12.0	15.0	17.0	23.0	23.0
6	---		---		---	8.0	10.0	12.0	15.0	17.0	23.0	23.0
7	---		---		---	7.0	10.0	11.0	15.0	17.0	24.0	23.0
8	---		---		---	7.0	10.0	11.0	15.0	19.0	24.0	23.0
9	---		---		---	8.0	10.0	12.0	16.0	20.0	24.0	20.0
10	---		---		---	8.0	11.0	12.0	16.0	20.0	24.0	20.0
11	---		---		---	8.0	11.0	12.0	17.0	20.0	23.0	18.0
12	---		---		---	9.0	11.0	12.0	17.0	21.0	---	20.0
13	---		---		---	9.0	12.0	12.0	16.0	21.0	23.0	16.0
14	---		---		---	8.0	12.0	12.0	16.0	21.0	23.0	16.0
15	---		---		---	8.0	14.0	12.0	16.0	21.0	23.0	15.0
16	---		---		---	8.0	12.0	12.0	17.0	21.0	23.0	16.0
17	---		---		---	8.0	12.0	14.0	17.0	21.0	23.0	18.0
18	---		---		---	9.0	12.0	14.0	18.0	21.0	24.0	18.0
19	---		---		---	9.0	12.0	14.0	17.0	23.0	24.0	18.0
20	---		---		---	8.0	11.0	14.0	17.0	24.0	24.0	17.0
21	---		---		---	8.0	11.0	15.0	17.0	24.0	24.0	18.0
22	---		---		5.5	8.0	11.0	16.0	17.0	24.0	24.0	17.0
23	---		---		---	8.0	11.0	16.0	17.0	24.0	---	19.0
24	---		---		---	10.0	14.0	16.0	18.0	24.0	25.0	19.0
25	---		---		---	10.0	14.0	16.0	18.0	---	22.0	19.0
26	---		---		---	10.0	14.0	16.0	18.0	24.0	22.0	18.0
27	---		---		---	10.0	15.0	16.0	18.0	24.0	22.0	17.0
28	9.0		.0		---	10.0	15.0	16.0	18.0	24.0	22.0	17.0
29	---		---		---	10.0	15.0	16.0	18.0	24.0	23.0	14.0
30	---		---		---	9.0	15.0	15.0	18.0	24.0	22.0	14.0
31	---		---		---	9.0	---	14.0	---	24.0	22.0	---
MEAN	---		---		---	8.5	11.5	14.0	16.5	21.0	23.0	19.0

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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	300	1900	620	6850	209	1900	170	1460	410	3600	475	5460
2	340	2160	500	5290	208	1840	157	1390	430	3830	490	5740
3	1350	10200	320	3380	202	1660	143	1180	380	3430	665	8170
4	1970	16600	360	3680	90	719	118	860	275	2490	800	10400
5	8610	108000	280	2530	29	242	120	768	200	1650	740	9550
6	4600	59000	200	1770	153	1300	169	1280	190	1360	605	7220
7	2300	25500	270	2620	210	1760	179	1450	175	1170	430	4810
8	1320	13300	310	2970	207	1690	190	1280	210	1550	315	3350
9	990	9730	310	2950	199	1620	208	1260	175	1520	295	3170
10	600	5860	280	2650	60	488	191	1070	330	3190	255	2550
11	610	6060	252	2330	24	191	198	1420	460	4530	275	2960
12	3400	36700	207	1880	18	145	210	1530	395	4070	345	3840
13	1410	15000	202	1690	14	112	215	1600	260	2600	820	10300
14	810	8750	202	1630	11	87	250	1860	195	1910	1120	15200
15	1450	16100	209	1630	7	50	210	1590	255	2530	1130	15200
16	6110	99100	209	1610	10	76	290	2190	435	4400	1090	14500
17	6830	104000	208	1580	11	87	300	2270	895	9380	620	8190
18	4520	54400	225	1870	15	119	180	1390	660	7480	500	6370
19	2700	30600	227	2120	14	104	200	1510	435	5000	630	7710
20	1290	14000	179	1600	11	77	220	1660	490	5530	455	5480
21	620	6660	204	1790	30	228	400	3020	810	9230	320	3780
22	510	5400	223	1930	80	730	350	2600	975	11200	295	3420
23	440	4610	233	2100	59	524	280	2040	700	8050	250	2840
24	390	4040	231	2080	143	1140	200	1430	725	8340	235	2510
25	390	4020	184	1660	223	1480	210	1470	730	8440	230	2550
26	400	4170	205	1840	195	1220	255	1860	715	8380	240	2440
27	370	3840	207	1840	190	1240	300	2200	575	6680	220	2170
28	320	3320	184	1650	200	1500	335	2460	505	5730	330	3330
29	450	4960	189	1660	200	1430	330	2460	---	---	575	5710
30	910	9660	207	1860	189	1390	480	4200	---	---	440	4560
31	740	8270	---	---	182	1460	480	4150	---	---	315	3320
TOTAL	---	695910	---	71040	---	26609	---	56908	---	137270	---	186800

COLORADO RIVER MAIN STEM

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09180500 COLORADO RIVER NEAR CISCO, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

	MEAN CONCEN- TRATION		MEAN CONCEN- TRATION		MEAN CONCEN- TRATION		MEAN CONCEN- TRATION		MEAN CONCEN- TRATION		MEAN CONCEN- TRATION	
DAY	(MG/L)	LOADS (T/DAY)	(MG/L)	LOADS (T/DAY)	(MG/L)	LOADS (T/DAY)	(MG/L)	LOADS (T/DAY)	(MG/L)	LOADS (T/DAY)	(MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	365	3690	2270	66800	1040	55000	595	28100	790	14200	400	5530
2	375	3700	2690	88600	900	46200	520	24900	450	7390	350	4310
3	360	3580	3380	131000	845	42900	425	19600	420	6800	290	3220
4	340	3350	4420	217000	790	39000	380	16200	300	4750	220	2300
5	325	3120	4230	239000	550	25800	300	12100	490	7440	270	2890
6	295	2880	3190	191000	660	31500	175	6610	460	6400	1100	13300
7	430	4350	2380	123000	780	37900	325	11200	290	3820	950	12300
8	925	9740	1710	73400	730	33500	340	10700	240	2890	300	3780
9	1280	12200	1260	48300	665	30200	355	10500	760	9620	370	4860
10	1120	9860	750	27500	630	29100	605	17500	1060	13600	460	6310
11	910	8280	810	28200	650	31200	580	16000	830	10800	2380	36900
12	1130	11100	790	26700	615	29600	280	7400	3060	43900	4220	75700
13	8400	137000	775	26600	525	25500	250	6400	2880	39900	4190	83800
14	14500	431000	1300	45300	645	32700	250	6080	3150	45200	10800	290000
15	9200	281000	1100	36500	635	31400	285	6590	2020	31300	4400	103000
16	5600	177000	860	27200	610	29600	195	4250	1590	26100	1950	41100
17	3990	123000	800	22500	575	25800	195	4100	1000	15200	1630	33100
18	1720	46900	705	18800	540	24800	200	4040	580	8380	1000	19600
19	2700	72800	655	17100	775	40600	205	4070	440	6270	890	17400
20	2310	61900	650	17900	875	47500	165	3140	420	5830	2740	53600
21	950	22700	650	19000	625	31600	125	2200	430	5670	1400	28800
22	820	17500	650	19500	525	24800	155	2690	530	6840	1570	31200
23	1340	25500	900	31800	590	27100	80	1300	1490	20400	800	14800
24	1070	20000	1200	48000	555	25600	220	3450	2740	43600	400	7020
25	1000	19100	1250	53000	500	23200	220	3390	4500	84200	300	5170
26	1010	20000	965	40100	455	21100	105	1620	5720	124000	420	7080
27	1290	27600	855	35600	455	21300	395	6080	4570	101000	1850	34700
28	1340	31000	1220	57600	460	21700	740	12000	3210	65900	4780	106000
29	1460	37000	1610	82600	520	25100	1920	35800	2050	37600	3200	64900
30	2020	57300	1630	88000	705	34300	2400	46700	1000	16700	1660	31300
31	---	---	1350	75500	---	---	1980	39000	600	9170	---	---
TOTAL	---	1684150	---	2023100	---	945600	---	373710	---	824870	---	1143970
TOTAL LOAD FOR YEAR:		8169937		TONS.								

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM
OCT							
28...	1330	3750	9.0	96	268	2710	--
DEC							
28...	1330	3400	.0	87	39	358	--
FEB							
22...	1300	4200	5.5	98	707	8020	--
22...	1430	4200	5.5	--	2340	26500	60
APR							
20...	1000	10100	6.5	77	1020	27700	--
20...	1100	10100	6.5	--	2500	68200	20
MAY							
25...	1130	15800	15.5	--	1095	46700	26
JUN							
22...	1030	18000	16.5	68	403	19600	--
JUL							
29...	1045	7070	22.5	--	3260	62200	46

COLORADO RIVER MAIN STEM

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER-QUALITY DATA, OCTOBER 1981 TO SEPTEMBER 1982

	SED. SUSP. FALL DIAM. % FINER THAN 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							
28...	--	--	--	--	--	--	--
DEC							
28...	--	--	--	--	--	--	--
FEB							
22...	--	--	--	--	--	--	--
22...	62	83	98	100	--	--	--
APR							
20...	--	--	--	--	--	--	--
20...	23	32	56	75	88	98	
MAY							
25...	31	39	65	81	91	100	
JUN							
22...	--	--	--	--	--	--	--
JUL							
29...	64	85	99	100	--	--	

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

09183000 COURTHOUSE WASH NEAR MOAB, UTAH

LOCATION.--Lat 38°36'46", long 109°34'45", in NE¼NE¼SE¼ 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 mi² (420 km²).

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 fair. No regulation or diversions above station.

AVERAGE DISCHARGE.--22 years (1949-55, 1967-82), 1.87 ft³/s (0.053 m³/s), 1,350 acre-ft/yr (1.66 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,300 ft³/s (348 m³/s) Aug. 5, 1957, gage height, 9.38 ft (2.859 m), from rating curve extended above 500 ft³/s (14.2 m³/s) on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 700 ft³/s (19.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Aug. 23	2230	*4,000	113	5.10	1.554
Sept. 13	2000	1,710	48.4	3.40	1.036
Sept. 27	1300	1,360	38.5	3.07	.936

No flow at times.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	.25	.62	1.5	2.3	.53	.33	.40	.13	.07	.10	.14
2	25	.26	.64	1.8	2.4	1.1	.47	1.7	.13	.07	.08	.14
3	29	.30	.69	2.1	2.9	1.4	.34	.28	.12	.06	.06	.14
4	.34	.34	.69	.58	1.3	1.1	.33	.32	.10	.06	.06	.16
5	.18	.35	.85	1.1	1.5	.55	.36	.19	.10	.06	.04	.18
6	.18	.38	.64	1.7	1.3	.55	.40	.16	.10	.06	.04	.14
7	.15	.42	.68	.24	1.2	.65	.29	.17	.10	.07	.05	.13
8	.15	.40	.65	.21	1.2	.65	.26	.15	.09	.08	.05	.12
9	.15	.36	.66	.23	1.1	.65	.37	.12	.08	.08	.45	56
10	.15	.39	.88	.28	1.2	.65	.32	.12	.09	.08	.06	3.4
11	5.6	.40	.76	.30	1.3	.90	.45	.13	.09	.07	.05	65
12	2.5	.43	.70	.32	1.5	1.1	.38	.12	.09	.08	.06	40
13	.21	.46	.81	.35	1.6	.76	.29	.12	.09	.08	43	90
14	.15	.43	.61	.38	.90	.65	.29	.13	.10	.07	1.0	12
15	36	.34	.76	.40	1.1	.55	.28	.14	.09	.07	.10	1.0
16	68	.43	.71	.42	1.1	.55	.21	.13	.10	.07	.09	.24
17	.71	.50	.54	.50	1.1	.76	.28	.13	.09	.03	.08	.20
18	.34	.49	.51	.52	1.0	.76	.36	.12	.08	.07	.08	.18
19	.27	.35	.86	.90	.66	.55	.21	.13	.11	.12	.07	.18
20	.29	.47	.96	1.8	.78	.46	.20	.13	.09	.04	.06	.16
21	.27	.55	1.1	.98	.77	.34	.23	.14	.10	.04	48	.16
22	.26	.62	.82	2.6	.71	.29	.27	.14	.10	.05	10	.17
23	.24	.59	.43	1.4	.82	.25	.25	.13	.07	.06	220	.17
24	.26	.62	.31	2.1	.75	.29	.33	.13	.07	.72	50	.18
25	.24	.54	.42	1.8	.78	.40	.29	.14	.08	.36	100	.18
26	.22	.44	.59	1.6	.71	.55	.25	.13	.08	.20	8.0	.22
27	.25	.92	.66	.96	.71	.65	.23	.12	.08	.14	1.8	64
28	.25	1.4	1.0	.78	.58	.65	.19	.12	.07	.10	.90	2.4
29	.83	3.7	1.0	1.1	---	.55	.18	.13	.07	.88	.40	.80
30	2.4	1.2	.74	2.4	---	.41	.17	.13	.09	.28	.18	.20
31	.26	---	1.3	2.9	---	.37	---	.15	---	.12	.16	---
TOTAL	174.97	18.33	22.59	34.25	33.27	19.62	8.81	6.35	2.78	4.34	485.02	337.99
MEAN	5.64	.61	.73	1.10	1.19	.63	.29	.20	.093	.14	15.6	11.3
MAX	68	3.7	1.3	2.9	2.9	1.4	.47	1.7	.13	.88	220	90
MIN	.12	.25	.31	.21	.58	.25	.17	.12	.07	.03	.04	.12
AC-FT	347	36	45	68	66	39	17	13	5.5	8.6	962	670

CAL YR 1981 TOTAL 773.32 MEAN 2.12 MAX 195 MIN .05 AC-FT 1530
WTR YR 1982 TOTAL 1148.32 MEAN 3.15 MAX 220 MIN .03 AC-FT 2280

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

09184000 MILL CREEK NEAR MOAB, UTAH

LOCATION.--Lat 38°33'44", long 109°30'48", in NW¼NW¼NE¼ 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 mi² (194.0 km²).

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

GAGE.--Water-stage recorder and sharp-crested weir. Altitude of gage is 4,240 ft (1,290 m) from topographic map. Prior to Apr. 28, 1918, nonrecording gage and Apr. 28, 1918 to Aug. 2, 1919, July 1949 to Mar. 15, 1962, water-stage recorder, 0.4 mi (0.6 km) upstream at various datums.

REMARKS.--Records good. Diversion into Sheley Tunnel, for storage in K. E. McDougald Reservoir began in March, 1981. Diversion approximately 6.0 mi (9.6 km) above station. Records do not include approximately 3,906 acre-ft (4.82 hm³) diverted during the 1982 water year.

AVERAGE DISCHARGE.--30 years (1950-71, 1973-80), 14.3 ft³/s (0.405 m³/s), 10,360 acre-ft/yr (12.8 hm³/yr), prior to diversion to Sheley Tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded discharge, about 5,110 ft³/s (145 m³/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 ft³/s (19.8 m³/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 ft³/s (0.006 m³/s) Feb. 15, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 250 ft³/s (7.08 m³/s), and maximum (*):

Date	Time	Discharge (ft ³ /s)	(m ³ /s)	Gage height (ft)	(m)
Aug. 21	2100	345	9.77	3.10	0.945
Sept. 9	1930	*665	18.8	3.74	1.140
Sept. 27	0930	485	13.7	3.40	1.036

Minimum, 2.2 ft³/s (0.062 m³/s) Jan. 7, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	7.4	4.0	5.4	9.3	5.5	8.0	8.5	9.2	10	8.9	7.4
2	13	7.4	4.0	4.4	8.9	6.2	8.0	9.1	9.3	9.7	8.5	6.9
3	26	7.4	4.6	4.0	9.3	6.2	7.2	14	9.3	10	8.6	7.4
4	4.0	6.9	4.2	4.0	9.5	8.0	7.1	7.5	9.1	8.1	9.5	8.4
5	3.5	7.9	7.0	5.4	9.2	7.7	6.9	6.2	8.9	8.1	9.7	8.4
6	12	8.0	6.8	5.0	6.2	8.2	6.7	12	9.2	8.6	8.5	7.9
7	4.7	8.3	6.8	3.7	4.8	9.9	4.2	16	9.1	11	10	8.4
8	4.2	8.0	6.8	6.2	5.0	10	4.4	5.1	10	11	12	8.4
9	4.2	7.6	6.7	8.7	6.5	9.5	4.0	13	9.7	11	9.1	44
10	4.7	4.7	6.9	7.1	7.0	9.2	3.7	12	9.9	11	9.6	20
11	11	4.7	6.7	6.4	7.5	9.1	3.4	5.5	9.4	11	9.0	18
12	7.9	4.7	6.4	5.9	8.2	11	3.6	8.1	9.8	10	9.6	4.4
13	11	4.7	6.4	3.3	8.9	10	7.3	6.4	9.9	10	41	24
14	6.9	4.4	6.1	2.7	9.5	10	7.1	9.1	9.5	10	6.9	13
15	16	4.4	6.1	3.0	10	10	5.6	7.7	10	9.2	4.4	12
16	14	4.4	6.0	3.5	7.2	10	6.0	7.7	9.8	9.1	4.0	7.4
17	7.4	4.5	4.8	3.6	6.8	10	4.0	8.5	9.8	9.2	13	7.1
18	6.4	4.3	4.5	3.6	6.6	8.9	4.5	10	10	9.4	12	7.3
19	6.0	4.3	6.3	3.6	6.1	6.8	11	11	11	9.0	7.9	7.1
20	7.4	4.3	6.0	3.5	6.1	6.8	6.6	7.9	10	9.1	9.0	8.4
21	12	4.2	6.5	3.5	6.0	6.5	11	7.6	11	9.2	22	7.4
22	12	4.1	5.7	3.5	6.0	6.4	11	6.9	12	9.6	4.4	6.4
23	12	4.1	3.6	3.4	6.0	6.7	11	10	11	9.0	11	6.4
24	12	3.9	3.8	3.5	6.0	6.6	10	10	10	16	13	6.4
25	12	4.4	4.7	5.5	5.8	6.2	9.4	10	10	12	13	6.6
26	12	4.7	4.4	7.5	5.7	6.3	9.5	10	9.7	12	12	7.1
27	11	4.9	4.7	8.3	5.7	6.3	10	9.7	9.6	7.5	12	58
28	7.4	4.9	4.1	7.4	5.6	5.9	9.4	9.0	9.5	17	11	12
29	7.4	5.5	3.9	7.9	---	6.5	8.8	5.1	9.7	13	10	11
30	12	4.9	5.7	8.9	---	6.5	9.1	8.7	10	12	10	9.7
31	7.9	---	5.3	9.6	---	7.9	---	9.0	---	9.4	11	---
TOTAL	297.0	163.9	169.5	162.0	199.4	244.8	218.5	281.3	295.4	321.2	340.6	366.9
MEAN	9.58	5.46	5.47	5.23	7.12	7.90	7.28	9.07	9.85	10.4	11.0	12.2
MAX	26	8.3	7.0	9.6	10	11	11	16	12	17	41	58
MIN	3.5	3.9	3.6	2.7	4.8	5.5	3.4	5.1	8.9	7.5	4.0	4.4
AC-FT	589	325	336	321	396	486	433	558	586	637	676	728

CAL YR 1981	TOTAL	3038.3	MEAN 8.32	MAX 60	MIN 3.5	AC-FT 6030
WTR YR 1982	TOTAL	3060.5	MEAN 8.38	MAX 58	MIN 2.7	AC-FT 6070

GREEN RIVER BASIN

57

09217000 GREEN RIVER NEAR GREEN RIVER, WY

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

DRAINAGE AREA.--About 14,000 mi² (36,300 km²), of which 4,260 mi² (11,030 km²), including 3,959 mi² (10,254 km²) in Great Divide Basin in southern Wyoming, is probably noncontributing.

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Altitude of gage is 6,060 ft (1,847 m) from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Some regulation by Fontenelle Reservoir since August 1963. (See station 09211150.) Natural flow of stream affected by transbasin diversions, storage reservoirs, power development, and diversions for irrigation of about 223,000 acres (902 km²) above station.

AVERAGE DISCHARGE.--31 years, 1,705 ft³/s (48.29 m³/s), 1,235,000 acre-ft/yr (1,523 hm³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft³/s (476 m³/s) Sept. 7, 1965, gage height, 8.53 ft (2.600 m), caused by emergency release from Fontenelle Reservoir; minimum daily discharge, 170 ft³/s (4.81 m³/s) Nov. 16, 1955.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed, 22,200 ft³/s (629 m³/s) June 19, 1918, at site 1.5 mi (2.4 km) upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,800 ft³/s (391 m³/s) July 5, gage height, 7.64 ft (2.329 m); minimum daily, 280 ft³/s (7.93 m³/s) Dec. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	644	644	300	700	640	1080	1450	1230	1710	8840	9040	1630
2	653	644	280	680	610	1040	1410	1210	2080	10700	8640	1630
3	653	636	360	660	590	982	1380	1220	2720	12600	8000	1640
4	661	636	475	620	570	944	1380	1260	3200	13500	7240	1640
5	677	628	420	620	580	907	1380	1360	3730	13600	6690	1630
6	644	612	570	630	620	907	1370	1460	3830	13300	6000	1630
7	636	510	700	660	640	916	1300	1530	3850	12400	5310	1640
8	620	414	800	680	660	926	1180	1560	4190	11400	4840	1630
9	620	407	900	700	660	898	1180	1580	4510	10900	4350	1630
10	628	407	940	720	700	944	1200	1570	5300	10300	3860	1650
11	686	400	940	740	720	973	1200	1590	5920	9280	3550	1680
12	728	400	900	770	750	1010	1270	1650	6490	9130	3510	1640
13	703	400	910	780	780	992	1240	1710	6670	7450	3490	1700
14	661	429	950	800	810	1040	1310	1720	6690	6670	3510	2000
15	636	443	945	820	850	1180	1500	1710	6740	5950	2840	1940
16	661	429	900	820	900	1270	1510	1710	6820	6000	1970	1930
17	677	429	840	780	940	1380	1560	1710	6850	5970	1870	1860
18	661	429	750	760	960	1430	1650	1710	6820	6040	1960	1920
19	661	393	760	730	1000	1470	1750	1730	6850	6140	1970	1920
20	644	386	790	720	1130	1440	1600	1710	6850	6220	1990	1920
21	653	386	770	700	1250	1430	1600	1730	6900	5430	2000	1920
22	653	386	600	720	1160	1430	1580	1750	6920	4240	1970	1890
23	636	386	530	730	1050	1430	1550	1750	6950	4040	1940	1870
24	628	407	510	745	1000	1430	1480	1750	7000	4060	1960	1870
25	628	400	520	745	1030	1420	1250	1750	7100	4120	1940	1920
26	628	350	550	740	1100	1380	1200	1770	7160	4200	1970	1940
27	620	345	570	760	1160	1370	1200	1790	7100	5080	1870	2360
28	628	370	590	770	1160	1380	1210	1790	7080	6640	1700	3080
29	636	395	580	750	---	1400	1240	1770	7660	7690	1650	3580
30	636	330	630	720	---	1430	1230	1730	8160	8410	1640	4350
31	644	---	680	680	---	1480	---	1720	---	8870	1630	---
TOTAL	20144	13431	20960	22450	24020	37309	41360	50230	173850	249170	110900	59640
MEAN	650	448	676	724	858	1204	1379	1620	5795	8038	3577	1988
MAX	728	644	950	820	1250	1480	1750	1790	8160	13600	9040	4350
MIN	620	330	280	620	570	898	1180	1210	1710	4040	1630	1630
AC-FT	39960	26640	41570	44530	47640	74000	82040	99630	344800	494200	220000	118300
CAL YR 1981	TOTAL	358753	MEAN	983	MAX	1700	MIN	280	AC-FT	711600		
WTR YR 1982	TOTAL	823464	MEAN	2256	MAX	13600	MIN	280	AC-FT	1633000		

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Wyoming, 1982."

GREEN RIVER BASIN

09217900 BLACKS FORK NEAR ROBERTSON, WY

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

DRAINAGE AREA.--130 mi² (337 km²), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 8,804.8 ft (2,683.70 m), NGVD of 1929 (levels by Bureau of Reclamation). Datums published from October 1968 to September 1978 are incorrect. October 1937 to July 1939, water-stage recorder at site 85 ft (26 m) upstream at different datum.

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

AVERAGE DISCHARGE.--17 years (water years 1938, 1967-82), 156 ft³/s (4.418 m³/s), 113,000 acre-ft/yr (139 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,420 ft³/s (68.5 m³/s) June 9, 1981; maximum gage height, 4.91 ft (1.500 m) June 6, 1968; minimum daily discharge, 5.5 ft³/s (0.16 m³/s) Jan. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,000 ft³/s (28.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	(m ³ /s)	Gage height (ft)	(m)
May 27	2000	1,280	36.2	2.87	0.875
June 22	2300	*1,300	36.8	2.90	.884

Minimum daily discharge, 13 ft³/s (0.37 m³/s) Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	63	40	22	18	26	23	83	464	973	350	100
2	35	63	42	21	17	25	22	120	451	730	320	96
3	34	54	44	20	16	24	23	162	518	692	301	93
4	50	50	47	19	15	23	22	207	586	672	277	90
5	45	52	48	20	14	22	22	220	521	651	256	95
6	44	63	48	19	13	22	21	205	441	495	240	104
7	39	47	45	19	14	23	21	206	446	448	226	139
8	49	42	42	20	14	24	21	185	459	460	228	103
9	47	41	39	20	15	25	22	178	460	466	222	92
10	44	47	37	21	16	23	22	169	542	454	201	104
11	72	54	36	21	17	18	24	143	667	454	190	129
12	59	55	37	22	19	18	26	129	757	466	191	101
13	55	52	38	22	20	17	27	119	774	471	181	111
14	54	39	37	23	21	18	28	132	740	471	173	120
15	50	44	35	23	23	18	28	170	671	466	165	131
16	57	42	34	22	24	19	27	192	745	454	166	155
17	54	41	34	21	24	20	26	237	891	432	204	127
18	47	40	35	19	24	19	25	319	929	404	169	111
19	49	38	37	18	25	19	24	335	940	388	159	108
20	50	37	39	18	26	18	26	299	997	378	154	191
21	49	38	41	19	27	18	28	367	1060	363	152	139
22	45	41	40	19	27	19	30	433	1050	373	148	123
23	47	41	37	18	25	20	32	582	1130	394	137	117
24	41	39	35	18	23	21	31	708	961	383	126	116
25	47	37	32	19	23	22	29	740	989	410	119	126
26	49	35	29	19	24	23	28	847	893	454	117	276
27	50	33	27	20	25	24	31	1050	1010	532	116	539
28	45	33	25	21	26	25	40	1010	1090	540	128	386
29	49	36	23	21	---	25	47	716	1070	500	151	320
30	49	38	22	20	---	24	60	577	943	450	116	266
31	55	---	23	19	---	23	---	462	---	390	105	---
TOTAL	1498	1335	1128	623	575	665	836	11302	23195	15214	5788	4708
MEAN	48.3	44.5	36.4	20.1	20.5	21.5	27.9	365	773	491	187	157
MAX	72	63	48	23	27	26	60	1050	1130	973	350	539
MIN	34	33	22	18	13	17	21	83	441	363	105	90
AC-FT	2970	2650	2240	1240	1140	1320	1660	22420	46010	30180	11480	9340

CAL YR 1981	TOTAL	54729	MEAN	150	MAX	1840	MIN	12	AC-FT	108600
WTR YR 1982	TOTAL	66867	MEAN	183	MAX	1130	MIN	13	AC-FT	132600

GREEN RIVER BASIN

59

09218500 BLACKS FORK NEAR MILLBURNE, WY

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

DRAINAGE AREA.--152 mi² (394 km²).

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

REVISED RECORDS.--WSP 929: 1940.

GAGE.--Water-stage recorder. Datum of gage is 8,512.27 ft (2,594.540 m), NGVD of 1929, Bureau of Reclamation datum. Prior to Oct. 1, 1971, at several sites about 2.0 mi (3.2 km) downstream at various datums.

REMARKS.--Records good. Flow completely regulated by Meeks Cabin Reservoir, capacity, 32,470 acre-ft (40.0 hm³), since June 1971. No diversion above station.

AVERAGE DISCHARGE.--43 years, 159 ft³/s (4.503 m³/s), 115,200 acre-ft/yr (142 hm³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,530 ft³/s (71.6 m³/s) June 7, 1957, from rating curve extended above 1,500 ft³/s (42.5 m³/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 ft³/s (0.10 m³/s) Nov. 12, 1970, due to regulation by Meeks Cabin Dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 883 ft³/s (25.0 m³/s) May 27, gage height, 4.16 ft (1.268 m); minimum daily, 7.1 ft³/s (0.20 m³/s) Dec. 12-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	38	13	7.7	8.7	8.7	9.1	9.1	841	696	410	120
2	63	38	13	7.7	8.7	9.1	9.1	9.1	839	696	410	120
3	63	38	13	7.7	8.7	9.1	9.1	9.1	769	704	382	120
4	63	39	13	7.7	8.7	9.1	9.1	9.1	713	704	354	120
5	63	38	13	7.7	8.7	9.1	9.1	9.1	712	704	359	120
6	49	38	13	7.7	8.7	9.1	8.7	9.1	719	704	272	120
7	38	38	9.9	7.7	8.7	9.1	8.7	9.1	716	704	216	123
8	38	38	7.4	7.7	8.7	9.1	8.7	9.1	648	672	212	126
9	38	38	7.4	7.7	8.7	9.1	8.7	9.1	599	582	212	126
10	38	38	7.4	7.7	8.7	9.5	8.7	9.1	609	541	205	126
11	38	38	7.4	8.0	8.7	9.9	8.7	9.1	612	541	197	126
12	38	37	7.1	8.0	8.7	9.9	8.7	9.1	616	541	194	126
13	38	37	7.1	8.0	8.7	9.9	8.7	26	621	509	197	126
14	38	37	7.1	8.0	8.7	9.9	8.7	64	626	490	194	103
15	38	37	7.1	8.4	8.7	9.9	8.7	79	635	484	197	86
16	38	37	7.1	8.4	8.7	9.5	8.7	111	639	490	193	85
17	38	37	7.1	8.4	8.7	9.5	8.4	222	644	484	163	85
18	38	37	7.1	8.4	8.7	9.5	8.4	358	650	490	141	85
19	38	37	7.1	8.4	8.7	9.5	8.4	536	666	484	139	86
20	38	37	7.1	8.4	8.7	9.5	8.4	612	673	486	140	85
21	38	37	7.1	8.7	8.7	9.5	8.4	613	656	474	141	110
22	38	36	7.4	8.7	8.7	9.5	8.4	609	641	472	141	128
23	38	36	7.4	8.7	8.7	9.5	8.4	615	649	476	141	128
24	38	32	7.4	8.7	8.7	9.5	8.5	721	656	478	141	128
25	38	28	7.4	8.7	8.7	9.5	8.7	849	656	467	141	128
26	38	28	7.4	8.7	8.7	9.5	8.9	855	664	472	141	128
27	38	28	7.4	8.7	8.7	9.1	9.1	861	672	433	141	128
28	38	28	7.4	8.7	8.7	9.1	9.1	855	680	415	141	157
29	38	27	7.4	8.7	---	9.1	9.1	861	688	410	141	182
30	38	20	7.4	8.7	---	9.1	9.1	856	688	410	141	183
31	38	---	7.4	8.7	---	9.1	---	848	---	410	131	---
TOTAL	1314	1052	262.5	255.1	243.6	290.5	262.5	10660.2	20197	16623	6328	3614
MEAN	42.4	35.1	8.47	8.23	8.70	9.37	8.75	344	673	536	204	120
MAX	63	39	13	8.7	8.7	9.9	9.1	861	841	704	410	183
MIN	38	20	7.1	7.7	8.7	8.7	8.4	9.1	599	410	131	85
AC-FT	2610	2090	521	506	483	576	521	21140	40060	32970	12550	7170

CAL YR 1981 TOTAL 53875.8 MEAN 148 MAX 1670 MIN 7.0 AC-FT 106900
WTR YR 1982 TOTAL 61102.4 MEAN 167 MAX 861 MIN 7.1 AC-FT 121200

GREEN RIVER BASIN

09220000 EAST FORK OF SMITHS FORK NEAR ROBERTSON, WY

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

DRAINAGE AREA.--53.0 mi² (137.3 km²).

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 except those for period of no gage-height record, Apr. 13 to May 22, which are poor. Flow completely regulated by State Line Reservoir, 6.1 mi (9.8 km) upstream, total capacity, 14,000 acre-ft (17.3 hm³), dead storage is about 2,000 acre-ft (2.5 hm³), since May 1979. Results of discharge measurements, in cubic feet per second, made during the period when station was not in operation, are given below:

Oct. 22 . . . 18.5

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

AVERAGE DISCHARGE.--32 years (water years 1940-71), 47.1 ft³/s (1.334 m³/s), 34,120 acre-ft/yr (42.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,450 ft³/s (41.1 m³/s) June 10, 1965, gage height, 6.75 ft (2.057 m); no flow part of each day Apr. 17-22, 24, 25, 1950; minimum gage height, 3.26 ft (0.994 m), present datum, Apr. 22, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 227 ft³/s (6.43 m³/s) May 27, gage height, 5.10 ft (1.554 m); minimum daily during period of operation, 2.9 ft³/s (0.082 m³/s) Apr. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							3.0	5.2	204	178	103	64
2							3.0	5.4	176	182	103	54
3							3.0	5.6	176	182	103	40
4							3.0	5.8	176	180	103	41
5							2.9	5.6	176	180	88	41
6							3.0	5.8	176	179	60	42
7							3.0	6.0	176	179	60	41
8							3.0	6.4	176	178	60	41
9							3.0	6.2	176	153	58	39
10							3.1	6.0	176	118	58	36
11							3.2	5.8	178	118	58	36
12							3.3	5.8	181	118	63	36
13							3.5	6.0	181	103	67	37
14							3.8	6.2	181	79	67	37
15							3.8	6.4	181	79	66	37
16							3.8	7.0	181	79	66	37
17							3.6	8.0	181	79	66	37
18							3.6	15	181	79	66	37
19							3.5	30	181	79	69	37
20							3.5	40	181	80	75	37
21							3.7	50	184	79	75	37
22							3.9	50	184	106	75	38
23							4.2	50	184	137	75	38
24							4.5	56	181	134	75	38
25							4.7	98	176	137	75	38
26							4.9	148	176	134	72	41
27							5.0	184	176	132	66	43
28							5.0	211	176	137	66	41
29							4.9	211	176	120	66	41
30							5.0	214	176	103	64	42
31							---	211	---	103	64	---
TOTAL							111.4	1671.2	5384	3924	2232	1204
MEAN							3.71	53.9	179	127	72.0	40.1
MAX							5.0	214	204	182	103	64
MIN							2.9	5.2	176	79	58	36
AC-FT							221	3310	10680	7780	4430	2390

GREEN RIVER BASIN

61

09228500 BURNT FORK NEAR BURNTFORK, WY

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

DRAINAGE AREA.--52.8 mi² (136.8 km²).

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 hm³), and Beaver Meadows Reservoir, capacity, 1,722 acre-ft (2.12 hm³). Diversion out of basin above station into Hoop Lake, capacity, 3,920 acre-ft (4.83 hm³).

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 ft³/s (0.881 m³/s), 22,530 acre-ft/yr (27.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,200 ft³/s (90.6 m³/s), June 10, 1965 (gage height, not determined), from slope-area measurement of peak flow; minimum daily, 0.65 ft³/s (0.018 m³/s) Mar. 31, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 257 ft³/s (7.28 m³/s) May 27, gage height, 2.99 ft (0.911 m); minimum daily during period of operation, 6.2 ft³/s (0.176 m³/s) Apr. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							6.9	16	99	167	70	26
2							7.2	19	99	124	64	22
3							6.9	23	97	114	73	20
4							6.6	26	114	108	64	19
5							6.6	23	106	110	56	21
6							6.9	19	91	91	52	24
7							6.3	15	95	74	60	25
8							6.2	19	99	75	66	24
9							6.4	17	101	77	60	22
10							6.6	16	114	72	54	23
11							7.2	16	132	72	50	25
12							7.6	15	140	74	48	24
13							7.6	13	146	80	48	26
14							7.6	13	137	101	52	26
15							7.3	14	117	88	49	27
16							6.9	18	114	82	47	28
17							6.7	27	137	75	43	26
18							6.5	39	137	72	44	24
19							6.4	47	127	66	40	26
20							6.7	42	135	62	46	34
21							6.8	52	137	58	45	27
22							7.0	66	137	56	39	26
23							7.1	77	124	56	37	25
24							7.4	97	117	60	35	24
25							7.6	117	135	64	33	24
26							7.8	158	112	70	30	36
27							8.2	167	132	90	29	106
28							9.0	194	155	110	29	68
29							11	137	158	100	32	47
30							11	110	152	90	29	37
31							---	101	---	80	28	---
TOTAL							220.0	1713	3696	2618	1452	912
MEAN							7.33	55.3	123	84.5	46.8	30.4
MAX							11	194	158	167	73	106
MIN							6.2	13	91	56	28	19
AC-FT							436	3400	7330	5190	2880	1810

09229500 HENRYS FORK NEAR MANILA, UTAH

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

DRAINAGE AREA.--520 mi² (1,350 km²), 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, Aug. 12 to Sept. 6, 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.--54 years, 80.3 ft³/s (2.274 m³/s), 58,180 acre-ft/yr (71.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge determined, 6,750 ft³/s (191 m³/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 ft³/s (16.1 m³/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, 2,500 ft³/s (70.8 m³/s) July 29, gage height, 7.40 ft (2.256 m); minimum daily, 6.2 ft³/s (0.18 m³/s) May 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	54	40	32	39	74	30	36	149	224	225	9.6
2	17	59	42	30	35	65	33	39	129	260	178	8.3
3	19	61	44	29	33	65	30	47	129	202	233	7.3
4	23	59	48	28	31	63	29	55	119	161	194	7.3
5	27	58	52	27	28	60	26	51	139	155	160	7.0
6	27	59	52	28	28	56	27	38	132	198	146	7.4
7	29	59	48	29	31	55	29	20	100	152	126	8.7
8	32	46	45	31	35	58	27	18	87	120	116	12
9	32	49	43	32	34	61	27	21	85	107	167	11
10	35	44	40	35	34	58	26	16	85	102	119	11
11	40	47	38	39	37	54	34	24	107	88	97	20
12	54	54	37	42	40	50	71	26	128	93	73	32
13	49	63	38	45	43	53	72	17	168	84	66	35
14	46	65	40	46	46	56	59	11	198	79	66	60
15	41	67	38	44	50	57	51	7.9	251	69	76	69
16	43	65	36	40	55	53	41	6.2	188	56	52	65
17	46	61	34	38	63	50	36	6.9	174	47	42	59
18	51	52	33	36	76	39	32	8.6	220	38	42	56
19	51	50	36	36	94	39	28	7.7	235	32	39	55
20	51	48	40	40	120	31	25	19	213	32	32	53
21	49	50	42	42	140	33	23	18	209	38	28	51
22	51	54	40	45	130	32	23	17	209	47	25	49
23	51	58	38	47	120	33	23	29	216	54	22	44
24	51	60	36	45	102	36	24	43	228	59	18	34
25	52	58	34	44	94	38	24	53	224	184	14	33
26	51	53	35	45	87	40	36	70	294	268	15	43
27	52	47	36	45	83	39	45	110	224	232	35	477
28	56	45	35	44	76	39	41	191	209	730	16	790
29	56	42	37	43	---	42	39	231	213	1230	15	156
30	61	38	35	42	---	34	39	253	209	521	13	382
31	58	---	33	40	---	27	---	236	---	329	12	---
TOTAL	1317	1625	1225	1189	1784	1490	1050	1726.3	5271	5991	2462	2652.6
MEAN	42.5	54.2	39.5	38.4	63.7	48.1	35.0	55.7	176	193	79.4	88.4
MAX	61	67	52	47	140	74	72	253	294	1230	233	790
MIN	16	38	33	27	28	27	23	6.2	85	32	12	7.0
AC-FT	2610	3220	2430	2360	3540	2960	2080	3420	10460	11880	4880	5260
CAL YR 1981	TOTAL	17457.4	MEAN	47.8	MAX	528	MIN	1.5	AC-FT	34630		
WTR YR 1982	TOTAL	27782.9	MEAN	76.1	MAX	1230	MIN	6.2	AC-FT	55110		

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Wyoming, 1982."

09234400 FLAMING GORGE RESERVOIR AT FLAMING GORGE DAM, UTAH

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

DRAINAGE AREA.--19,350 mi² (50,100 km²), of which about 4,260 mi² (11,000 km²), including 3,959 mi² (10,254 km²) in Great Divide Basin in southern Wyoming, is probably noncontributing.

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

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

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation). Prior to Jan. 1, 1964, on left bank 600 ft (180 m) upstream from face of dam.

REMARKS.--Records excellent. Reservoir is formed by concrete arch-type dam; storage began Nov. 1, 1962; mass concrete of dam completed Nov. 15, 1962. Total capacity, 3,789,000 acre-ft (4,670 hm³), consisting of the following: Dead storage, 39,700 acre-ft (49.0 hm³) below elevation 5,740 ft (1,750 m); inactive usable storage, 233,500 acre-ft (288 hm³) 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 hm³) 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. Trans-basin diversions and diversions for irrigation above station.

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 3,753,000 acre-ft (4,630 hm³) July 31, 1975, elevation, 6,040.09 ft (1,841.019 m); minimum, 582,900 acre-ft (719 hm³) Apr. 26, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 3,591,000 acre-ft (4,428 hm³) Aug. 21, elevation, 6,036.17 ft (1,839.825 m); minimum observed, 2,636,000 acre-ft (3,250 hm³) Apr. 29, 30, elevation, 6009.91 ft (1,831.821 m).

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

6,005	2,480,000	6,025	3,157,000
6,010	2,639,000	6,030	3,346,000
6,015	2,804,000	6,035	3,543,000
6,020	2,977,000	6,040	3,749,000

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2914	2863	2816	2784	2743	2665	2663	2637	2726	3063	3486	3574
2	2911	2861	2813	2782	2735	2665	2663	2640	2731	3082	3499	3569
3	2910	2860	2811	2781	2731	2665	2664	2641	2737	3105	3512	3565
4	2910	2859	2808	2780	2725	2664	2668	2644	2743	3134	3524	3565
5	2907	2858	2806	2778	2717	2661	2668	2644	2750	3155	3535	3563
6	2904	2855	2806	2777	2716	2660	2668	2645	2758	3175	3546	3563
7	2900	2854	2805	2774	2715	2658	2667	2650	2764	3201	3553	3560
8	2899	2854	2805	2773	2712	2659	2663	2652	2770	3220	3561	3559
9	2896	2852	2804	2772	2709	2659	2659	2654	2779	3239	3565	3555
10	2896	2850	2805	2771	2706	2658	2654	2657	2787	3258	3568	3553
11	2896	2847	2805	2770	2701	2656	2658	2661	2799	3275	3572	3552
12	2893	2844	2804	2768	2696	2656	2655	2664	2812	3286	3576	3552
13	2891	2844	2804	2767	2694	2656	2653	2666	2825	3301	3580	3550
14	2887	2842	2802	2765	2692	2654	2654	2666	2840	3313	3584	3549
15	2884	2840	2801	2763	2692	2654	2651	2671	2851	3322	3585	3547
16	2882	2839	2800	2762	2688	2654	2650	2675	2861	3331	3586	3546
17	2882	2838	2798	2762	2686	2653	2650	2675	2876	3340	3586	3545
18	2880	2837	2797	2762	2684	2652	2650	2678	2890	3350	3586	3546
19	2879	2835	2795	2761	2681	2653	2648	2681	2902	3357	3586	3542
20	2878	2832	2794	2760	2677	2654	2646	2682	2915	3364	3588	3544
21	2877	2831	2793	2759	2676	2654	2644	2682	2927	3372	3591	3545
22	2875	2830	2792	2756	2673	2656	2642	2686	2940	3377	3590	3545
23	2872	2829	2790	2755	2671	2656	2641	2689	2952	3379	3590	3545
24	2871	2828	2788	2753	2668	2658	2640	2694	2965	3387	3590	3544
25	2870	2828	2789	2753	2666	2660	2641	2697	2978	3392	3590	3542
26	2868	2826	2788	2752	2663	2661	2639	2698	2994	3396	3590	3550
27	2867	2823	2788	2750	2662	2662	2639	2704	3007	3404	3589	3553
28	2865	2822	2785	2749	2664	2661	2638	2708	3021	3421	3586	3561
29	2865	2821	2783	2747	---	2663	2636	2712	3034	3439	3583	3567
30	2864	2818	2783	2747	---	2662	2636	2717	3049	3456	3580	3572
31	2864	---	2783	2747	---	2662	---	2723	---	3470	3577	---
MAX	2914	2863	2816	2784	2743	2665	2668	2723	3049	3470	3591	3574
MIN	2864	2818	2783	2747	2662	2652	2636	2637	2726	3063	3486	3542
(+)	6016.76	6015.43	6014.37	6013.31	6010.78	6010.72	6009.93	6012.58	6022.03	6033.17	6035.83	6035.72
(±)	-53	-46	-35	-36	-83	-2	-26	+87	+326	+421	+107	-5

CAL YR 1981 (±) -230

WTR YR 1982 (±) +655

(+) ELEVATION, IN FEET, AT END OF MONTH

(±) CHANGE IN CONTENTS, IN THOUSANDS OF ACRE-FEET

LOCATION.--Lat 40°54'30", long 109°25'20", in NW¼NW¼ 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 mi² (50,100 km²), approximately, including about 4,260 mi² (11,000 km²) which is probably noncontributing. This noncontributing area includes 3,959 mi² (10,254 km²) in Great Divide basin in southern Wyoming.

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 5,594.48 ft (1,705.30 m) NGVD of 1929. Prior to Sept. 2, 1959, water-stage recorder at site 2.2 mi (3.5 km) upstream at different datum.

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

AVERAGE DISCHARGE.--32 years, 2,019 ft³/s (57.2 m³/s), 1,463,000 acre-ft/yr (1.80 km³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,600 ft³/s (555 m³/s) June 12, 1957; gage height, 10.60 ft (3.231 m) site and datum then in use; minimum, 2.3 ft³/s (0.065 m³/s) Mar. 20, 22, 27, 28, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,490 ft³/s (127 m³/s) Feb. 4; gage height, 6.33 ft (1.929 m); minimum daily, 857 ft³/s (24.3 m³/s) Aug. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2020	870	1420	876	3090	894	1330	1760	1510	1450	857	3320
2	1670	1820	1700	894	4060	1560	1100	1180	1210	1270	1580	3280
3	876	1180	1430	876	3620	1640	882	1590	1150	1020	1600	3190
4	1240	1030	1390	1430	4030	2000	882	1440	1530	940	1400	1960
5	1890	1280	1240	1750	4140	2290	1550	2530	942	1090	1400	1820
6	1860	1900	870	1210	1360	1750	1210	1660	1990	1310	1450	1700
7	2100	936	1390	1860	936	1040	2770	1740	1690	1050	1730	1770
8	1620	876	1270	1460	2560	1420	3600	1170	1760	1190	989	2500
9	1810	1160	930	954	2460	1430	3270	1150	1600	1310	1850	2820
10	1160	1750	858	864	2590	2030	2950	1300	1660	915	1730	3070
11	1340	1780	1110	1540	2870	1610	2040	1270	1680	908	1800	2450
12	1450	2000	1350	1920	3240	2090	2390	1570	1110	1450	1910	1940
13	1890	1010	942	1540	1840	1680	2890	1780	1120	1310	1240	2220
14	2300	1170	1870	1450	1170	1510	2610	2390	1440	1490	1780	2580
15	1710	1130	1430	1500	1380	1860	3270	930	1640	1640	2050	2630
16	1630	1420	1690	876	2840	2170	3180	894	1470	1610	1680	2690
17	864	1130	1860	948	2770	1970	2370	2530	971	1190	1840	2690
18	1200	1010	1580	1010	2360	2160	3140	1890	1110	911	1820	1510
19	1250	1570	1940	1510	1540	1370	2680	1610	1490	1760	1650	2380
20	1250	1650	894	1410	3760	1700	2710	2430	1080	1820	1390	1660
21	1210	1290	1850	1710	3100	942	2880	2360	2160	1900	1280	1630
22	1700	870	1250	1520	3240	1370	2710	1120	1970	2030	1580	2180
23	1670	1490	954	1200	2400	864	3010	1060	1450	2100	1750	1970
24	1140	1250	966	1460	3020	864	1730	1990	1350	1530	1270	2680
25	882	1010	876	1340	3620	1090	1320	1660	1510	1260	1580	2240
26	1610	1150	876	1550	3690	996	2460	1150	958	1520	1710	1440
27	942	1160	876	1690	1360	960	2050	1210	956	2040	2110	2130
28	1060	918	1250	1610	1180	1090	2200	1390	955	1580	2770	2170
29	1090	870	1250	1580	---	1310	2840	1170	1620	1400	3190	2350
30	1300	1270	1240	1000	---	1870	2170	1510	1880	1140	2870	2530
31	1050	---	1030	1160	---	1700	---	930	---	1790	3200	---
TOTAL	44784	37950	39582	41698	74226	47230	70194	48364	42962	43924	55056	69500
MEAN	1445	1265	1277	1345	2651	1524	2340	1560	1432	1417	1776	2317
MAX	2300	2000	1940	1920	4140	2290	3600	2530	2160	2100	3200	3320
MIN	864	870	858	864	936	864	882	894	942	908	857	1440
AC-FT	88830	75270	78510	82710	147200	93680	139200	95930	85220	87120	109200	137900
CAL YR 1981	TOTAL	515254	MEAN	1412	MAX	3550	MIN	858	AC-FT	1022000		
WTR YR 1982	TOTAL	615470	MEAN	1686	MAX	4140	MIN	857	AC-FT	1221000		

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1956 to current year.

SPECIFIC CONDUCTANCE: October 1956 to September 1959, October 1963 to current year, once daily.

WATER TEMPERATURES: October 1956 to September 1959, October 1963 to current year, once daily.

SEDIMENT DATA: October 1956 to September 1959, once daily, October 1976 to current year, periodically.

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

EXTREMES FOR PERIOD OF DAILY RECORD (water years 1957-62, 1964 to current year).--

SPECIFIC CONDUCTANCE (water years 1957-58, 1960-62): Maximum daily, 1,340 micromhos Aug. 30, 1961; minimum daily, 325 micromhos June 2, 1961.

WATER TEMPERATURES (water years 1957-59): Maximum, 24.0°C July 24, 25, 1959; minimum, 0.0°C on many days during winter period each year.

SPECIFIC CONDUCTANCE (water years 1964 to current year): Maximum daily, 1,060 micromhos Nov. 9, 1971; minimum daily, 560 micromhos Mar. 1, 1977.

WATER TEMPERATURES: Maximum, 14.0°C Nov. 11, 14, 1963, July 17, Aug. 21, 28, 1978, Sept. 24, 1980; minimum, 2.0°C on several days in 1964.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 820 micromhos many days during June and July; minimum daily, 700 micromhos Sept. 16.

WATER TEMPERATURES: Maximum, 13.0°C many days during year; minimum, 4.0°C many days during Dec., Jan., and Feb.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT										
20...	1345	1070	760	7.9	13.0	12.0	1.2	8.2	627	22
JAN										
11...	1430	2040	780	7.9	1.5	4.5	.60	8.6	617	<1
FEB										
19...	1100	2040	790	*8.3	8.5	4.0	--	8.9	629	--
MAR										
22...	1100	2660	780	7.2	3.0	4.0	1.2	9.9	627	<1
APR										
15...	1130	4090	810	8.0	10.0	4.5	--	10.8	620	--
MAY										
19...	1100	2370	760	8.1	7.0	7.5	1.1	10.1	622	K2
JUN										
28...	1100	954	780	8.0	30.0	12.0	--	10.3	629	--
JUL										
28...	1130	1960	760	8.0	21.5	12.5	1.7	8.2	631	K4
SEP										
01...	0930	3330	790	8.2	17.0	12.5	--	7.0	632	--
21...	1130	1360	810	7.9	22.0	11.5	.50	7.0	629	K4

DATE	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT									
20...	31	250	110	58	25	61	35	1.8	3.0
JAN									
11...	K4	270	110	65	26	60	32	1.7	2.5
FEB									
19...	--	290	130	73	27	60	31	1.7	2.7
MAR									
22...	K9	270	110	65	25	60	33	1.7	2.7
APR									
15...	--	280	130	68	27	62	32	1.8	2.7
MAY									
19...	K8	260	110	64	25	60	33	1.8	2.6
JUN									
28...	--	270	120	65	26	62	33	1.8	2.6
JUL									
28...	K10	260	110	63	26	61	33	1.8	2.3
SEP									
01...	--	270	130	65	27	65	34	1.9	2.5
21...	<1	260	120	62	26	63	34	1.9	2.5

* Laboratory value.

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

GREEN RIVER BASIN

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

		ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	
OCT											
20...		140	230	16	.3	2.4	492	480	.67	1420	
JAN											
11...		160	220	19	.3	3.6	511	493	.69	2820	
FEB											
19...		160	230	13	.3	3.9	521	507	.71	2870	
MAR											
22...		160	220	16	.3	3.4	508	489	.69	3650	
APR											
15...		150	240	17	.3	2.9	522	511	.71	5760	
MAY											
19...		149	240	15	.3	2.0	491	499	.67	3140	
JUN											
28...		148	210	15	.2	1.5	494	471	.67	1270	
JUL											
28...		155	230	17	.3	1.6	502	494	.68	2660	
SEP											
01...		148	240	18	.3	1.6	533	509	.72	4790	
21...		144	240	18	.3	1.9	519	500	.71	1910	
DATE		NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	
OCT											
20...		<.060	.08	.47	<.09	.020	.06	.030	.020	.06	
JAN											
11...		.120	.15	.66	.18	<.010	--	.010	<.010	--	
FEB											
19...		.130	.17	--	.18	--	--	--	.010	.03	
MAR											
22...		.070	.09	.58	.15	.020	.06	.010	<.010	--	
APR											
15...		<.060	.08	--	.12	--	--	--	.040	.12	
MAY											
19...		.110	.14	.70	.11	.020	.06	<.010	<.010	--	
JUN											
28...		.120	.15	--	<.10	--	--	--	<.010	--	
JUL											
28...		.240	.31	1.10	.13	.040	.12	.040	.010	.03	
SEP											
01...		.240	.31	--	<.10	--	--	--	.020	.06	
21...		.070	.09	.60	.15	.020	.06	.020	<.010	--	
DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
OCT											
20...	1345	3	1	2	<100	--	78	1	--	<1	10
MAR											
22...	1100	2	0	3	<100	--	71	1	0	2	<10
MAY											
19...	1100	4	1	3	100	20	77	<1	--	<3	10
SEP											
21...	1130	3	0	3	<100	--	73	1	--	<1	<10

GREEN RIVER BASIN

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09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
OCT 20...	10	0	<1	<3	43	40	3	30	<10	6
MAR 22...	--	<10	<1	<1	12	9	3	20	<3	13
MAY 19...	--	<10	<1	<1	8	5	3	30	<9	4
SEP 21...	--	<10	1	<1	2	0	2	30	<3	5

DATE	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOVERABLE (UG/L AS MN)	MANGANESE, DIS- SOLVED (UG/L AS MN)	MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	MERCURY, SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY, DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)
OCT 20...	5	1	<10	--	1	.1	.1	.0	3	2
MAR 22...	9	4	20	20	2	.1	--	<.1	3	0
MAY 19...	1	3	10	--	<3	<.1	--	<.1	1	0
SEP 21...	0	7	<10	--	2	.1	--	<.1	9	6

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 20...	1	1	0	1	5	5	0	60	50	6
MAR 22...	3	2	1	1	<1	--	<1	30	20	6
MAY 19...	2	1	0	1	<1	--	<1	20	--	<12
SEP 21...	3	1	0	1	<1	--	<1	20	6	14

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
FEB 19...	1100	90
APR 15...	1130	100
JUN 28...	1100	90
SEP 01...	0930	200

GREEN RIVER BASIN

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	730	---	730	---	770	780	780	---	800	780	---	750
2	770	740	760	---	770	780	780	---	820	810	780	740
3	---	750	760	---	780	780	---	800	820	---	800	750
4	---	760	760	770	780	780	---	800	820	---	780	---
5	760	760	---	760	780	780	780	750	---	---	800	---
6	750	750	---	760	---	---	780	760	---	820	800	---
7	760	---	760	770	---	---	780	800	820	820	---	760
8	760	---	760	770	780	790	780	---	820	820	---	760
9	750	750	760	---	780	790	780	---	780	820	800	760
10	---	760	760	---	780	780	---	800	820	---	780	750
11	---	---	760	770	780	780	---	800	820	---	800	---
12	---	760	---	770	780	780	790	800	---	810	800	---
13	760	760	---	770	---	---	790	800	---	780	810	750
14	760	---	760	770	---	---	790	770	820	820	---	760
15	760	---	760	770	---	790	790	---	820	800	---	750
16	760	760	760	770	780	780	780	---	800	780	790	700
17	---	760	760	---	780	790	---	800	820	---	800	750
18	---	750	770	770	780	790	---	810	820	---	800	---
19	760	760	---	770	780	800	780	800	---	790	800	---
20	760	760	---	770	---	---	790	780	---	790	800	---
21	760	---	760	780	---	---	780	800	780	790	---	730
22	760	---	760	---	780	780	790	---	780	800	---	760
23	760	760	760	---	780	780	790	---	790	790	800	760
24	---	760	760	---	780	790	---	780	820	---	810	750
25	---	760	---	780	780	---	---	800	790	---	810	---
26	760	760	---	780	780	780	790	810	---	780	---	---
27	760	---	---	780	---	---	790	810	---	820	790	750
28	760	---	760	780	---	---	800	810	820	800	---	760
29	760	---	770	780	---	790	790	---	820	800	---	750
30	770	760	770	---	---	790	800	---	790	780	790	760
31	---	---	760	---	---	790	---	---	---	---	790	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.0	---	5.0	---	4.0	4.5	4.5	---	10.5	13.0	---	13.0
2	11.5	9.0	5.0	---	4.0	4.5	4.5	---	11.5	13.0	13.0	13.0
3	---	9.0	5.0	---	4.0	4.5	---	5.5	11.0	---	13.0	13.0
4	---	8.0	5.0	4.0	4.0	4.5	---	5.0	11.5	---	13.0	---
5	11.5	8.0	---	4.0	4.0	4.5	4.5	8.5	---	---	13.0	---
6	12.0	8.0	---	4.0	---	---	4.5	8.0	---	13.0	13.0	---
7	12.0	---	5.0	4.5	---	---	4.5	8.0	11.5	13.0	---	13.0
8	12.0	---	5.0	4.5	4.0	4.5	4.5	---	11.5	13.0	---	13.0
9	12.0	8.0	5.0	---	4.0	4.5	4.5	---	11.5	13.0	13.0	13.0
10	---	8.0	5.0	---	4.0	4.5	---	7.0	11.5	---	13.0	13.0
11	---	---	5.0	4.5	4.0	4.5	---	7.0	12.0	---	13.0	---
12	---	8.0	---	4.5	4.0	4.5	5.0	8.0	---	13.0	13.0	---
13	11.0	8.0	---	4.5	---	---	5.0	8.0	---	13.0	13.0	13.0
14	11.0	---	5.0	4.5	---	---	5.0	8.0	13.0	13.0	---	13.0
15	10.0	---	5.0	4.5	---	4.5	5.0	---	13.0	13.0	---	13.0
16	10.0	8.0	5.0	4.5	4.0	4.5	5.0	---	13.0	13.0	13.0	13.0
17	---	7.0	4.5	---	4.0	4.5	---	8.5	13.0	---	13.0	12.0
18	---	7.0	4.5	4.5	4.0	4.5	---	8.0	12.0	---	13.0	---
19	10.0	7.0	---	4.5	4.0	4.5	5.0	8.0	---	13.0	13.0	---
20	10.0	7.0	---	4.5	---	---	5.0	8.0	---	13.0	13.0	---
21	10.0	---	4.0	4.5	---	---	5.0	8.0	13.0	13.0	---	13.0
22	10.0	---	4.0	---	4.0	4.5	5.0	---	13.0	13.0	---	13.0
23	10.0	7.0	4.0	---	4.0	4.5	5.0	---	13.0	13.0	13.0	13.0
24	---	7.0	4.0	---	4.0	4.5	---	10.0	11.5	---	13.0	13.0
25	---	7.0	---	4.5	4.0	---	---	9.5	11.5	---	13.0	---
26	10.0	6.0	---	4.5	4.0	4.5	5.0	10.5	---	13.0	---	---
27	10.0	---	---	4.5	---	---	5.0	10.0	---	13.0	13.0	13.0
28	9.0	---	4.0	4.5	---	---	5.5	10.5	11.5	13.0	---	13.0
29	9.0	---	4.0	4.5	---	4.5	5.5	---	11.5	13.0	---	13.0
30	9.0	6.0	4.0	---	---	4.5	5.5	---	13.0	13.0	13.0	13.0
31	---	---	4.0	---	---	4.5	---	---	---	---	13.0	---

GREEN RIVER BASIN

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09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT 20...	1345	1070	12.0	3	45	8.7
JAN 11...	1430	2040	4.5	1	75	5.5
FEB 19...	1100	2040	4.0	4	65	22
MAR 22...	1100	2660	4.0	7	46	50
APR 15...	1130	4090	4.5	14	21	155
MAY 19...	1100	2370	7.5	4	50	26
JUN 28...	1100	954	12.0	7	--	18
JUL 28...	1130	1960	12.5	34	84	180

GREEN RIVER BASIN

09235600 POT CREEK ABOVE DIVERSIONS, NEAR VERNAL, UTAH

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

DRAINAGE AREA.--24.6 mi² (63.7 km²).

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

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

GAGE.--Water-stage recorder. Altitude of gage is 7,550 ft (2,301 m) from topographic map. Prior to Aug. 26, 1965, at site 0.2 mi (0.3 km) downstream at different datum. Prior to July 28, 1978 datum of gage 1.20 ft (0.366 m) higher at same site.

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

AVERAGE DISCHARGE.--25 years, 3.45 ft³/s (0.098 m³/s), 2,500 acre-ft/yr (3.08 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 286 ft³/s (8.10 m³/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.--Maximum discharge and peak above base of 30 ft³/s (0.85 m³/s), 160 ft³/s (4.53 m³/s) Apr. 24, gage height, 4.47 ft (1.362 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.74	.10	.00	.00	.01	.45	24	8.2	.33	.22	.00
2	.00	.75	.09	.00	.00	.02	.50	26	7.1	.22	.05	.00
3	.00	.50	.08	.00	.00	.03	.65	33	6.4	.18	.00	.00
4	.00	.40	.08	.00	.00	.04	.85	44	5.7	.17	.00	.00
5	.00	.31	.07	.00	.00	.05	1.0	29	5.0	.17	.00	.00
6	.00	.29	.06	.00	.00	.07	1.4	22	4.5	.37	.00	.00
7	.00	.28	.06	.00	.00	.10	1.7	20	4.2	.27	.00	.00
8	.00	.25	.05	.00	.00	.12	2.0	19	3.7	.27	.00	.00
9	.00	.24	.05	.00	.00	.17	2.6	19	3.3	.37	.00	.00
10	.00	.20	.04	.00	.00	.28	3.5	19	3.0	.25	.09	.00
11	.00	.20	.04	.00	.00	.27	4.5	19	2.8	.20	.09	.00
12	.60	.20	.04	.00	.00	.24	6.0	16	2.4	.18	.02	.12
13	.48	.21	.03	.00	.00	.20	8.0	13	2.2	.13	.01	.65
14	.40	.24	.03	.00	.00	.18	11	12	2.0	.11	.06	.52
15	.25	.21	.03	.00	.00	.17	13	11	2.0	.09	.04	.18
16	.40	.24	.03	.00	.00	.18	12	10	1.9	.05	.00	.11
17	.52	.24	.03	.00	.00	.20	11	10	1.8	.00	.00	.05
18	.48	.24	.02	.00	.00	.22	10	11	1.9	.00	.00	.04
19	.37	.25	.02	.00	.00	.24	9.0	16	1.5	.00	.00	.05
20	.27	.25	.01	.00	.00	.25	8.0	16	1.1	.00	.00	.04
21	.21	.24	.00	.00	.00	.29	11	14	1.0	.00	.00	.02
22	.18	.25	.00	.00	.00	.32	28	14	1.0	.00	.00	.02
23	.15	.26	.00	.00	.00	.36	76	13	.97	.00	.00	.02
24	.14	.28	.00	.00	.00	.43	94	13	.85	.00	.00	.08
25	.14	.20	.00	.00	.00	.50	64	13	.80	.00	.00	3.5
26	.14	.10	.00	.00	.00	.40	44	13	.91	.00	.00	4.4
27	.12	.12	.00	.00	.00	.32	39	12	.70	.00	.00	2.8
28	.15	.13	.00	.00	.00	.37	41	11	.48	1.8	.00	2.8
29	1.5	.11	.00	.00	---	.43	38	10	.33	3.4	.00	2.0
30	1.2	.10	.00	.00	---	.50	25	11	.20	1.0	.00	1.5
31	1.2	---	.00	.00	---	.60	---	9.8	---	.45	.00	---
TOTAL	8.90	8.03	.96	.00	.00	7.56	567.15	522.8	77.94	10.01	.58	18.90
MEAN	.29	.27	.031	.000	.000	.24	18.9	16.9	2.60	.32	.019	.63
MAX	1.5	.75	.10	.00	.00	.60	94	44	8.2	3.4	.22	4.4
MIN	.00	.10	.00	.00	.00	.01	.45	9.8	.20	.00	.00	.00
AC-FT	18	16	1.9	.00	.00	15	1120	1040	155	20	1.2	37
CAL YR 1981	TOTAL	652.34	MEAN 1.79	MAX 59	MIN .00	AC-FT 1290						
WTR YR 1982	TOTAL	1222.83	MEAN 3.35	MAX 94	MIN .00	AC-FT 2430						

GREEN RIVER BASIN

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09235800 POT CREEK NEAR VERNAL, UTAH

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

DRAINAGE AREA.--107 mi² (277 km²).

PERIOD OF RECORD.--August 1957 to September 1982 (discontinued).

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 hm³). Several diversions for irrigation above station, including one to Crouse Creek basin for irrigation of about 100 acres (405,000 m²) in Browns Park.

AVERAGE DISCHARGE.--25 years, 1.81 ft³/s (0.0513 m³/s), 1,310 acre-ft/yr (1.62 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 286 ft³/s (8.10 m³/s) Apr. 7, 1962, gage height, 3.85 ft (1.173 m) from rating curve extended above 170 ft³/s (4.81 m³/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, 40 ft³/s (1.13 m³/s) Apr. 26, gage height, 1.72 ft (0.524 m); no flow most of the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.10	.00	.00	.00	.94	3.6	20	.08	.00	.00	.00
2	.00	.09	.00	.00	.00	4.2	2.7	15	.06	.00	.00	.00
3	.00	.01	.00	.00	.00	2.7	2.3	11	.05	.00	.00	.00
4	.33	.00	.00	.00	.00	.79	2.4	4.8	.05	.00	.00	.00
5	.00	.00	.00	.00	.00	.44	1.7	2.8	.02	.00	.00	.00
6	.00	.06	.00	.00	.00	.28	1.7	2.0	.02	.00	.00	.00
7	.00	.05	.00	.00	.00	.25	1.7	1.6	.00	.00	.00	.00
8	.06	.00	.00	.00	.00	.22	1.5	1.5	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.48	1.3	1.2	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	1.2	1.2	1.4	.00	.00	.00	.00
11	.38	.00	.00	.00	.00	5.7	1.3	1.5	.00	.00	.00	.00
12	1.2	.00	.00	.00	.00	9.3	11	1.1	.00	.00	.00	.00
13	.64	.00	.00	.00	.00	2.5	9.8	.97	.00	.00	.00	.00
14	.14	.00	.00	.00	.00	2.1	9.1	.93	.00	.00	.00	.00
15	.12	.00	.00	.00	.00	12	7.8	.78	.00	.00	.00	.00
16	.65	.11	.00	.00	.00	5.0	4.0	.68	.00	.00	.00	.00
17	.26	.11	.00	.00	.02	3.4	2.9	.60	.00	.00	.00	.00
18	.11	.16	.00	.00	.04	3.1	2.5	.53	.00	.00	.00	.00
19	.03	.13	.00	.00	.06	3.4	2.1	1.0	.00	.00	.00	.00
20	.00	.23	.00	.00	.08	1.9	1.8	1.8	.00	.00	.00	.00
21	.00	.21	.00	.00	.12	1.6	1.5	.75	.00	.00	.00	.00
22	.00	.23	.00	.00	.14	1.4	1.4	.46	.00	.00	.00	.00
23	.00	.11	.00	.00	.14	1.4	1.7	.31	.00	.00	.00	.00
24	.00	.09	.00	.00	.19	1.6	2.3	.23	.00	.00	.00	.00
25	.00	.10	.00	.00	.26	2.4	5.5	.18	.00	.00	.00	.00
26	.00	.10	.00	.00	.31	3.0	34	.14	.00	.00	.00	.00
27	.00	.05	.00	.00	.36	3.1	36	.11	.00	.00	.00	.53
28	.00	.00	.00	.00	.49	6.7	30	.08	.00	.00	.00	.27
29	.35	.00	.00	.00	---	7.5	31	.07	.00	.00	.00	.23
30	.13	.00	.00	.00	---	3.2	28	.08	.00	.00	.00	.16
31	.12	---	.00	.00	---	3.5	---	.13	---	.00	.00	---
TOTAL	4.52	1.94	.00	.00	2.21	95.30	243.8	73.73	.28	.00	.00	1.19
MEAN	.15	.065	.000	.000	.079	3.07	8.13	2.38	.009	.000	.000	.040
MAX	1.2	.23	.00	.00	.49	12	36	20	.08	.00	.00	.53
MIN	.00	.00	.00	.00	.00	.22	1.2	.07	.00	.00	.00	.00
AC-FT	9.0	3.8	.00	.00	4.4	189	484	146	.6	.00	.00	2.4

CAL YR 1981 TOTAL 21.94 MEAN .060 MAX 5.1 MIN .00 AC-FT 44
WTR YR 1982 TOTAL 422.97 MEAN 1.16 MAX 36 MIN .00 AC-FT 839

09261000 GREEN RIVER NEAR JENSEN, UTAH

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

DRAINAGE AREA.--29,660 mi² (76,820 km²), approximately, including about 4,260 mi² (11,000 km²) which is probably noncontributing. This noncontributing area includes 3,959 mi² (10,254 km²) in Great Divide basin in southern Wyoming.

WATER-DISCHARGE RECORDS

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

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

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

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

AVERAGE DISCHARGE.--37 years (1903-04, 1946-82), 4,309 ft³/s (122.0 m³/s), 3,122,000 acre-ft/yr (3.85 km³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,500 ft³/s (1,030 m³/s) June 16, 1957; gage height, 13.22 ft (4.029 m); minimum observed, 102 ft³/s (2.89 m³/s) Dec. 6, 1904.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,600 ft³/s (527 m³/s) May 6, gage height, 9.30 ft (2.835 m); minimum daily, 1,170 ft³/s (33.1 m³/s) Dec. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2110	1850	1200	1810	1740	1830	3530	9880	12000	10300	3800	3610
2	2420	1830	1710	1440	3090	2340	2980	8630	11400	10000	3650	3950
3	1910	1960	1990	1300	5780	2860	2470	9970	11200	9740	2970	3800
4	1790	2330	1890	1260	5510	2960	2470	11700	10500	9160	3270	3810
5	1600	1870	1900	1380	5500	3390	2280	13400	10000	7940	2870	2770
6	1940	1730	1960	2140	5570	3920	2360	17100	9920	7430	2840	2360
7	2470	2360	1570	1890	2400	3310	2880	16100	9910	7070	2860	2300
8	2540	2120	1640	1700	1790	2360	3600	12100	11200	6950	2870	2190
9	2600	1540	1830	1900	2330	2240	4840	10400	10400	5960	2570	2710
10	2380	1590	1790	2310	3600	2330	4460	9760	10600	5690	2400	3390
11	2460	2100	1540	1750	3500	2860	4160	10400	9990	5600	2830	3680
12	2410	2460	1610	2500	3950	2620	3620	11100	10000	5250	2760	3310
13	2600	2620	1760	2620	4300	2940	3530	10300	9810	5160	3050	2580
14	2800	1900	1830	2450	3400	2960	4980	10100	9930	5270	2660	2820
15	3100	1570	1890	2300	2140	3040	5960	10500	10400	5160	2600	3320
16	3050	1700	2290	2000	2090	3110	6730	8750	10900	5040	2570	3420
17	2950	1930	2150	1740	3100	3370	7650	7600	10500	5260	3160	3770
18	3020	1880	2200	1680	4050	3570	6900	8190	10200	4400	2640	3740
19	2500	1630	2190	1870	3350	3660	6860	9080	10600	4000	2940	2900
20	2340	1790	2140	2200	2300	3100	6900	9190	11500	3920	2390	2930
21	2240	2290	2120	2250	4300	3160	6600	10400	10900	4310	2200	2820
22	2120	1950	2030	2550	4950	2740	5980	11100	11000	4160	2110	2580
23	2070	1780	2080	2250	4650	2620	5540	9880	10800	4150	2010	2320
24	2430	1690	1450	1900	4000	2140	5830	10100	10100	4160	2730	2690
25	2210	1850	1330	2100	4150	1950	5850	11300	10600	3570	1960	3460
26	1670	1880	1230	2180	4900	1960	6580	12500	10600	3380	1940	2870
27	1830	1550	1190	2300	5300	2100	8890	11500	10300	3540	2430	2990
28	1890	1580	1170	2250	2900	2070	8800	10800	10600	3590	2450	2570
29	1650	1500	1190	2130	---	2210	9190	11800	9380	3850	3200	3570
30	1760	1240	1870	1940	---	2520	9280	12600	9890	3690	3890	3770
31	1870	---	1870	1960	---	3040	---	12200	---	4200	3410	---
TOTAL	70730	56070	54610	62050	104640	85280	161700	338430	315130	171900	86030	93000
MEAN	2282	1869	1762	2002	3737	2751	5390	10920	10500	5545	2775	3100
MAX	3100	2620	2290	2620	5780	3920	9280	17100	12000	10300	3890	3950
MIN	1600	1240	1170	1260	1740	1830	2280	7600	9380	3380	1940	2190
AC-FT	140300	111200	108300	123100	207600	169200	320700	671300	625100	341000	170600	184500
CAL YR 1981 TOTAL		964790	MEAN	2643	MAX	9160	MIN	1170	AC-FT	1914000		
WTR YR 1982 TOTAL		1599570	MEAN	4382	MAX	17100	MIN	1170	AC-FT	3173000		

GREEN RIVER BASIN

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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 (discontinued).

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

EXTREMES OF 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, 1,840 micromhos Jan. 26, 28, 29; minimum observed, 205 micromhos June 22.

WATER TEMPERATURES: Maximum, 25.0°C July 20, 22, 30, Aug. 2, 4; minimum, 0.0°C many days during winter period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
OCT											
22...	1100	2200	660	8.0	10.0	9.0	10.0	653	210	75	53
NOV											
30...	1000	1230	760	7.8	-5	1.5	12.6	643	250	110	60
DEC											
31...	1130	1830	760	7.8	-4.5	.5	12.4	642	260	98	62
JAN											
29...	1100	2130	760	8.0	4.0	.0	12.6	643	260	100	64
FEB											
26...	1000	4900	690	*8.2	3.5	3.0	11.3	649	230	86	56
MAR											
25...	0845	1970	800	7.9	3.5	6.0	10.6	647	280	120	63
APR											
13...	1030	2860	760	8.1	15.5	9.0	9.9	645	260	110	61
MAY											
18...	1445	7790	330	7.9	25.0	14.0	8.6	639	130	37	32
JUN											
22...	1130	10300	205	7.9	30.0	18.0	8.2	647	82	19	22
JUL											
21...	1000	4000	485	8.1	28.5	20.5	7.8	650	170	54	41
AUG											
24...	1000	2880	740	8.1	25.0	20.0	8.0	649	230	96	56
SEP											
23...	1030	1970	710	8.2	21.0	16.5	8.4	650	240	93	57

* Laboratory value.

GREEN RIVER BASIN

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)
OCT 22...	20	65	39	2.1	3.2	140	190	24	.3	5.1
NOV 30...	24	60	34	1.8	2.8	140	200	28	.3	4.1
DEC 31...	25	62	34	1.8	2.7	160	200	23	.3	4.6
JAN 29...	25	58	32	1.7	2.8	160	200	20	.2	5.0
FEB 26...	21	59	36	1.9	2.7	140	190	22	.3	8.1
MAR 25...	29	68	35	2.0	2.8	160	250	24	.3	6.1
APR 13...	26	56	32	1.7	3.0	150	220	19	.3	3.5
MAY 18...	12	19	24	.8	1.7	92	70	7.0	<.2	11
JUN 22...	6.6	12	24	.6	1.1	63	41	4.3	.1	8.6
JUL 21...	16	38	33	1.4	2.4	114	120	11	.2	5.0
AUG 24...	23	57	34	1.8	2.7	139	180	20	.2	2.1
SEP 23...	23	61	36	1.9	2.6	144	180	21	.3	3.8
DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
OCT 22...	--	445	.61	2640	--	--	.11	.030	--	--
NOV 30...	--	464	.63	1540	--	--	.19	.020	--	--
DEC 31...	--	477	.65	2360	--	--	.15	.010	--	--
JAN 29...	--	472	.64	2710	--	--	.18	<.010	--	--
FEB 26...	461	444	.63	6100	.320	.41	.25	--	.020	.06
MAR 25...	534	542	.73	2840	.070	.09	.51	--	.030	.09
APR 13...	489	480	.67	3780	<.060	.08	.10	--	.020	.06
MAY 18...	185	209	.25	3890	.120	.15	.15	--	<.010	--
JUN 22...	128	134	.17	3560	.120	.15	<.10	--	<.010	--
JUL 21...	308	302	.42	3330	.160	.21	<.10	--	.010	.03
AUG 24...	484	425	.66	3760	.260	.33	<.10	--	.020	.06
SEP 23...	449	436	.61	2390	.100	.13	.13	--	.020	.06

GREEN RIVER BASIN

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09261000 GREEN RIVER NEAR JENSEN, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT		
22...	1100	80
NOV		
30...	1000	80
DEC		
31...	1130	80
JAN		
29...	1100	90
FEB		
26...	1000	70
MAR		
25...	0845	70
APR		
13...	1030	70
MAY		
18...	1445	30
JUN		
22...	1130	20
JUL		
21...	1000	60
AUG		
24...	1000	190
SEP		
23...	1030	90

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	770	---	810	1300	820	980	790	405	325	425	---	880
2	790	890	860	790	840	870	920	---	330	395	540	890
3	1050	820	870	---	820	890	860	405	325	395	600	880
4	---	870	900	920	820	880	---	310	325	---	750	900
5	1210	910	840	930	820	870	940	310	325	390	750	---
6	820	1340	---	930	820	880	810	310	---	395	740	870
7	1380	990	790	930	---	---	810	310	325	395	760	880
8	930	---	760	930	800	860	810	310	325	395	---	870
9	790	750	760	930	800	890	800	---	330	395	750	870
10	1290	740	760	---	790	860	800	300	330	395	740	860
11	---	760	760	1430	790	880	---	300	330	---	750	860
12	950	750	760	880	790	860	800	295	330	520	760	---
13	930	760	---	1430	790	860	810	295	---	520	750	840
14	760	750	900	880	---	---	810	295	330	520	750	1020
15	760	---	910	1440	790	830	810	300	310	520	---	760
16	760	900	920	870	800	820	800	---	540	520	730	1000
17	760	930	900	---	790	820	800	325	540	520	730	770
18	---	1030	900	1430	790	820	---	320	540	---	750	800
19	790	790	920	880	790	820	610	290	540	410	750	---
20	790	730	---	1420	790	820	610	290	---	410	740	770
21	790	800	860	880	---	---	620	485	550	410	750	770
22	790	---	870	1420	890	800	600	305	540	410	---	770
23	790	730	1340	870	900	800	630	---	540	410	850	770
24	790	720	890	---	900	800	620	290	540	410	860	770
25	---	710	860	1820	900	810	---	290	540	---	830	770
26	770	720	870	1840	900	800	410	305	540	680	860	---
27	990	720	---	1830	900	800	400	290	---	680	860	770
28	870	720	1370	1840	---	---	400	290	540	690	850	770
29	910	---	1330	1840	---	800	405	325	540	680	---	780
30	780	960	1380	1800	---	800	405	---	510	680	890	770
31	950	---	1360	---	---	800	---	300	---	690	890	---
MEAN	887	832	943	1250	827	841	695	317	432	491	768	833

GREEN RIVER BASIN

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	---	1.5	1.0	5.0	5.0	5.0	10.0	15.0	19.5	---	22.0
2	16.0	9.0	2.0	.5	4.0	6.0	6.0	---	14.5	20.0	25.0	21.0
3	15.0	9.5	1.5	---	3.0	5.5	7.5	13.0	15.0	19.5	24.0	20.0
4	---	8.0	2.0	1.0	2.0	5.0	---	12.0	15.5	---	25.0	19.5
5	12.0	7.5	1.5	.0	1.0	6.0	8.0	11.5	15.0	18.0	24.5	---
6	13.0	8.0	---	.0	.5	5.5	7.5	11.0	---	18.5	23.0	19.0
7	13.5	9.5	2.5	.0	---	---	8.5	10.0	16.0	19.0	23.5	18.5
8	14.0	---	2.0	.0	.0	5.0	8.0	10.5	15.5	19.5	---	18.0
9	13.5	8.0	2.5	.0	.5	5.5	7.5	---	16.0	19.0	24.0	17.5
10	13.0	8.5	1.5	---	.0	5.0	8.0	11.0	16.5	18.5	23.0	18.0
11	---	7.5	2.0	.0	.0	6.0	---	10.5	16.0	---	22.0	17.0
12	12.0	7.0	2.5	.5	.0	6.5	8.5	11.0	15.0	19.5	22.5	---
13	11.0	7.5	---	1.0	.5	7.0	9.0	11.5	---	21.0	21.0	13.0
14	10.0	6.5	3.0	1.5	---	---	9.5	12.0	16.0	22.0	22.0	13.5
15	9.5	---	3.5	2.0	3.0	6.5	9.0	13.0	16.0	22.5	---	11.0
16	9.0	6.0	4.0	2.5	4.0	7.0	10.0	---	16.5	22.0	23.0	12.0
17	10.0	6.5	3.0	---	5.0	7.5	11.0	13.5	16.0	23.0	23.5	13.0
18	---	7.0	3.5	3.0	4.5	6.5	---	14.0	16.5	---	24.0	13.5
19	10.5	6.0	4.0	3.5	5.0	6.5	7.0	13.0	17.0	24.0	23.5	---
20	9.0	5.0	---	4.0	6.0	6.5	6.5	14.5	---	25.0	23.0	13.0
21	10.0	4.5	3.0	4.5	---	---	6.0	15.0	17.5	24.5	24.0	13.5
22	8.5	---	3.5	5.0	5.0	7.0	7.0	13.0	17.0	25.0	---	14.0
23	9.0	4.0	3.0	4.5	5.5	8.5	7.5	---	16.5	24.0	23.0	15.0
24	10.0	3.5	2.5	---	6.0	8.5	8.0	14.0	17.0	23.5	22.5	14.5
25	---	3.0	2.0	5.0	6.5	9.0	---	13.5	18.0	---	22.0	13.0
26	9.0	2.5	1.5	4.0	7.0	10.0	9.0	14.0	17.5	24.0	23.0	---
27	11.0	2.0	---	4.5	8.0	9.5	10.0	14.5	---	23.5	22.5	13.5
28	10.5	2.5	.0	5.0	---	---	11.0	15.0	18.0	24.0	22.0	13.0
29	10.0	---	.5	6.0	---	8.0	12.0	15.5	18.5	24.5	---	12.0
30	9.0	2.0	1.0	6.5	---	9.0	11.5	---	19.0	25.0	21.5	12.5
31	9.5	---	1.5	---	---	10.0	---	14.5	---	24.0	22.0	---
MEAN	11.5	6.0	2.5	2.5	3.5	7.0	8.5	12.5	16.5	22.0	23.0	15.5

GREEN RIVER BASIN

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

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

DRAINAGE AREA.--77.2 mi² (200 km²).

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

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

REMARKS.--Records good. Water from Oaks Park Reservoir on headwaters, capacity, 6,250 acre-ft (7.70 hm³) diverted through Oaks Park Canal to Ashley Creek basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 314 ft³/s (8.89 m³/s) May 23, 1980, and Sept. 27, 1982, maximum gage height, 3.06 ft (0.933 m) May 23, 1980 at different datum; minimum daily, 9.5 ft³/s (0.27 m³/s) Feb. 5, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 314 ft³/s (8.89 m³/s) Sept. 27, gage height, 2.29 ft (0.698 m); minimum daily, 9.5 ft³/s (0.27 m³/s) Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	15	13	13	11	11	9.6	69	114	51	36	26
2	14	16	12	13	11	12	9.6	110	103	51	36	25
3	14	15	13	12	11	11	9.6	155	94	56	35	25
4	17	16	13	11	10	11	10	161	87	56	35	25
5	18	15	13	12	9.5	10	11	155	82	56	34	26
6	16	16	13	12	11	10	11	128	74	57	34	28
7	15	15	13	11	12	10	10	116	67	56	33	25
8	14	15	13	11	11	10	10	110	64	56	32	25
9	15	14	13	10	11	10	10	137	58	57	33	24
10	15	14	12	11	11	10	10	114	55	55	37	31
11	24	14	12	12	11	11	10	94	51	54	34	27
12	20	15	12	13	11	11	12	83	49	54	33	25
13	17	15	12	11	11	11	12	77	46	54	31	30
14	15	15	12	11	11	11	13	76	44	56	30	29
15	14	15	12	11	11	12	14	77	43	63	31	28
16	14	15	12	11	11	11	14	89	41	62	31	29
17	13	14	13	11	11	11	14	107	41	62	31	27
18	12	15	11	11	11	11	14	137	53	61	38	24
19	13	15	12	11	11	12	15	166	53	60	31	22
20	13	14	12	11	11	10	15	163	50	43	30	22
21	14	14	13	12	11	10	14	150	48	41	29	22
22	14	14	12	12	11	11	14	157	47	40	30	21
23	14	14	12	12	12	11	20	167	49	40	30	20
24	13	14	12	11	11	11	31	178	45	39	27	20
25	13	14	12	11	10	11	29	177	51	39	29	19
26	13	14	12	11	10	12	25	176	47	39	29	20
27	13	13	12	11	11	12	26	172	43	36	26	41
28	13	13	11	11	10	11	38	166	40	39	30	43
29	16	14	10	11	---	11	47	154	40	39	29	41
30	17	13	12	11	---	10	54	137	50	40	28	35
31	14	---	12	11	---	10	---	119	---	38	27	---
TOTAL	461	435	378	353	304.5	336	531.8	4077	1729	1550	979	805
MEAN	14.9	14.5	12.2	11.4	10.9	10.8	17.7	132	57.6	50.0	31.6	26.8
MAX	24	16	13	13	12	12	54	178	114	63	38	43
MIN	12	13	10	10	9.5	10	9.6	69	40	36	26	19
AC-FT	914	863	750	700	604	666	1050	8090	3430	3070	1940	1600

CAL YR 1981 TOTAL 9895.0 MEAN 27.1 MAX 137 MIN 10 AC-FT 19630
WTR YR 1982 TOTAL 11939.3 MEAN 32.7 MAX 178 MIN 9.5 AC-FT 23680

GREEN RIVER BASIN

09266500 ASHLEY CREEK NEAR VERNAL, UTAH

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

DRAINAGE AREA.--101 mi² (262 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 6,230.61 ft (1,899.090 m) NGVD of 1929.

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

REMARKS.--Records good. Flow increased since July 1940 by water released from Oaks Park Reservoir, capacity, 6,250 acre-ft (7.71 hm³) on Big Brush Creek and diverted to Ashley Creek basin for irrigation. City of Vernal pipeline, capacity, approximately 11 ft³/s (0.31 m³/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 ft³/s (0.14 m³/s) and the return flow entered Ashley Creek 0.5 mi (0.8 km) below station.

AVERAGE DISCHARGE.--69 years (1913-82), 98.5 ft³/s (2.790 m³/s), 71,360 acre-ft/yr (88.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 3,500 ft³/s (99.1 m³/s) June 11, 1965, from rating table extended above 1,060 ft³/s (30.1 m³/s); maximum gage height, 6.09 ft (1.856 m) June 16, 1929, present datum; minimum discharge, 3.2 ft³/s (0.091 m³/s) Mar. 16, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 600 ft³/s (17.0 m³/s), 1,330 ft³/s (37.7 m³/s) May 26, gage height, 3.65 ft (1.113 m); minimum, 8.9 ft³/s (0.25 m³/s) Apr. 10, 21, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	35	21	19	16	14	14	57	456	178	91	76
2	20	36	20	19	16	14	14	142	426	168	83	73
3	22	33	20	19	16	15	14	203	383	160	77	70
4	25	32	20	18	16	14	14	271	391	156	73	69
5	28	32	21	18	15	14	13	309	366	150	70	74
6	28	32	21	18	15	15	12	279	294	145	67	91
7	26	32	20	18	15	15	13	272	290	136	72	90
8	27	31	20	17	15	15	12	286	294	131	70	84
9	30	29	19	17	16	14	11	304	281	138	64	76
10	31	28	20	17	16	14	10	235	288	125	72	74
11	30	27	21	18	15	15	10	202	271	123	61	88
12	34	28	20	19	15	15	12	190	281	125	63	88
13	36	29	20	18	15	14	12	181	276	128	91	93
14	40	29	19	17	15	14	13	170	280	115	90	95
15	37	29	18	17	15	15	14	181	264	111	87	96
16	33	27	18	18	14	15	14	199	260	104	82	102
17	35	27	18	18	15	14	13	256	250	100	79	96
18	37	27	18	17	15	15	14	412	263	98	79	83
19	33	24	18	16	15	15	15	561	252	94	76	75
20	34	22	19	17	14	14	14	425	233	116	75	83
21	35	24	19	17	14	14	12	490	220	118	73	72
22	33	25	19	17	15	15	11	632	215	113	75	65
23	33	26	17	17	15	14	13	765	210	111	76	61
24	33	25	17	17	15	14	18	758	205	143	86	57
25	32	23	18	17	14	14	27	711	198	142	83	55
26	30	22	18	17	14	15	24	895	190	140	82	55
27	31	20	19	17	15	14	24	911	185	135	82	262
28	31	21	19	16	15	14	30	782	178	140	88	192
29	34	23	18	17	---	14	39	629	170	134	98	167
30	34	23	18	16	---	14	38	558	171	115	89	150
31	32	---	19	16	---	14	---	452	---	101	82	---
TOTAL	963	821	592	539	421	446	494	12718	8041	3993	2436	2812
MEAN	31.1	27.4	19.1	17.4	15.0	14.4	16.5	410	268	129	78.6	93.7
MAX	40	36	21	19	16	15	39	911	456	178	98	262
MIN	19	20	17	16	14	14	10	57	170	94	61	55
AC-FT	1910	1630	1170	1070	835	885	980	25230	15950	7920	4830	5580

CAL YR 1981 TOTAL 23066.5 MEAN 63.2 MAX 500 MIN 8.7 AC-FT 45750
WTR YR 1982 TOTAL 34276.0 MEAN 93.9 MAX 911 MIN 10 AC-FT 67990

09267500 MOSBY CANAL NEAR LAPOINT, UTAH

LOCATION.--Lat 40°36'30", long 109°53'00", in sec.27, T.2 S., R.18 E. (unsurveyed), Uintah County, Hydrologic Unit 14060002, on left bank 4.5 mi (7.2 km) southeast of Paradise Park Reservoir, 8 mi (13 km) downstream from diversion from Dry Fork, and 16 mi (26 km) northwest of Lapoint.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 9,500 ft (2,895 m) from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Canal began diverting in 1942 or 1943 from Dry Fork for irrigation in Deep Creek basin. Since 1975 flow regulated by Julius Park Reservoir, capacity 200 acre-ft (247 hm³).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 37 ft³/s (1.05 m³/s) June 16, 17, 1969; no flow for extended periods each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.55	4.3	.00	.00	.00	.00	.00	9.2	17	28	24	14
2	.43	4.9	.00	.00	.00	.00	.00	10	16	28	23	13
3	.46	6.8	.00	.00	.00	.00	.00	11	16	28	22	13
4	.57	8.1	.00	.00	.00	.00	.00	11	15	28	21	12
5	.44	8.3	.00	.00	.00	.00	.00	12	15	26	21	12
6	.36	8.7	.00	.00	.00	.00	.00	13	15	26	21	14
7	.31	8.5	.00	.00	.00	.00	.00	13	14	25	20	14
8	.42	8.0	.00	.00	.00	.00	.00	14	14	25	20	14
9	.34	7.4	.00	.00	.00	.00	.00	14	13	25	20	14
10	.34	6.4	.00	.00	.00	.00	.00	14	12	25	20	14
11	.38	5.5	.00	.00	.00	.00	.02	14	12	24	19	15
12	.50	4.9	.00	.00	.00	.00	.04	14	11	24	19	15
13	.48	4.8	.00	.00	.00	.00	.08	14	11	23	19	16
14	.47	4.5	.00	.00	.00	.00	.15	14	13	23	19	9.5
15	.46	4.6	.00	.00	.00	.00	.25	14	15	23	19	.17
16	1.0	4.5	.00	.00	.00	.00	.55	14	16	22	19	.10
17	1.3	4.5	.00	.00	.00	.00	1.0	14	18	21	18	.05
18	6.4	4.3	.00	.00	.00	.00	2.0	16	20	21	18	11
19	7.9	4.2	.00	.00	.00	.00	3.4	10	21	21	18	19
20	8.9	4.0	.00	.00	.00	.00	3.6	9.6	22	21	17	19
21	9.0	3.8	.00	.00	.00	.00	3.7	13	24	21	16	19
22	9.1	3.6	.00	.00	.00	.00	3.8	15	28	21	15	18
23	8.7	3.4	.00	.00	.00	.00	4.4	15	29	21	15	18
24	8.4	3.0	.00	.00	.00	.00	4.8	15	29	20	14	18
25	8.2	2.5	.00	.00	.00	.00	5.0	14	30	21	13	18
26	8.1	.50	.00	.00	.00	.00	5.8	16	30	22	13	19
27	8.7	.10	.00	.00	.00	.00	6.4	18	30	23	13	22
28	8.1	.02	.00	.00	.00	.00	6.8	18	29	25	13	14
29	8.0	.00	.00	.00	---	.00	7.4	17	29	26	14	5.7
30	6.1	.00	.00	.00	---	.00	8.4	17	28	26	14	3.5
31	4.9	---	.00	.00	---	.00	---	17	---	25	14	---
TOTAL	119.31	134.12	.00	.00	.00	.00	67.59	429.8	592	738	551	394.02
MEAN	3.85	4.47	.000	.000	.000	.000	2.25	13.9	19.7	23.8	17.8	13.1
MAX	9.1	8.7	.00	.00	.00	.00	8.4	18	30	28	24	22
MIN	.31	.00	.00	.00	.00	.00	.00	9.2	11	20	13	.05
AC-FT	237	266	.00	.00	.00	.00	134	853	1170	1460	1090	782
CAL YR 1981	TOTAL	2124.17	MEAN	5.82	MAX	30	MIN	.00	AC-FT	4210		
WTR YR 1982	TOTAL	3025.84	MEAN	8.29	MAX	30	MIN	.00	AC-FT	6000		

09268500 NORTH FORK OF DRY FORK NEAR DRY FORK, UTAH

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

DRAINAGE AREA.--8.62 mi² (22.33 km²).

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

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

GAGE.--Water-stage recorder. Datum of gage is 8,284.28 ft (2,525.048 m) NGVD of 1929 (levels by Utah Water and Power Board).

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

AVERAGE DISCHARGE.--36 years, 6.62 ft³/s (0.187 m³/s), 4,800 acre-ft/yr (5.92 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 169 ft³/s (4.79 m³/s) June 5, 1968, gage height, 3.34 ft (1.018 m); maximum gage height, 3.60 ft (1.097 m) May 7, 1947; no flow for part of Apr. 21, 1961, May 1, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 50 ft³/s (1.42 m³/s), 80 ft³/s (2.27 m³/s) May 27, gage height, 2.93 ft (0.893 m); minimum daily, 0.95 ft³/s (0.027 m³/s) Mar. 16, 30, Apr. 3, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	2.6	1.8	1.6	1.3	1.1	1.0	8.2	47	23	8.5	3.0
2	2.8	2.6	1.7	1.6	1.3	1.1	1.0	12	44	22	8.3	3.0
3	3.0	2.6	1.7	1.5	1.3	1.1	.95	15	41	22	7.9	3.0
4	3.3	2.6	1.8	1.5	1.2	.96	1.0	18	40	21	7.4	2.8
5	3.1	2.6	1.8	1.5	1.2	1.1	.95	20	39	21	7.1	3.5
6	3.2	2.5	1.8	1.5	1.2	1.1	1.0	19	35	21	6.8	3.4
7	3.0	2.4	1.7	1.4	1.3	1.1	1.1	19	35	20	6.5	3.4
8	3.3	2.4	1.7	1.4	1.3	1.1	.99	19	35	19	6.4	3.4
9	3.0	2.4	1.6	1.4	1.3	1.1	.96	18	34	18	6.2	3.2
10	2.9	2.3	1.7	1.5	1.2	1.1	1.1	16	33	17	5.9	3.4
11	3.2	2.3	1.8	1.5	1.2	1.1	1.1	15	34	16	5.7	3.9
12	3.5	2.4	1.7	1.5	1.2	1.1	1.1	13	35	16	5.7	3.5
13	3.2	2.4	1.7	1.4	1.2	1.0	1.1	12	35	15	5.7	3.7
14	3.1	2.3	1.6	1.4	1.2	1.0	1.2	12	35	14	5.6	3.5
15	3.0	2.3	1.6	1.4	1.2	1.0	1.3	12	33	14	5.4	3.7
16	2.8	2.3	1.6	1.5	1.2	.95	1.4	12	32	13	5.1	4.6
17	3.1	2.3	1.6	1.4	1.2	1.0	1.1	14	35	13	5.0	4.6
18	2.9	2.0	1.5	1.4	1.2	1.1	1.3	20	32	13	4.9	4.2
19	2.8	1.8	1.6	1.4	1.2	1.1	1.1	25	30	12	4.7	4.0
20	2.8	2.0	1.6	1.4	1.2	.98	1.1	24	29	12	4.5	4.9
21	2.8	2.2	1.6	1.4	1.2	1.2	1.1	27	28	12	4.7	4.0
22	2.7	2.2	1.6	1.4	1.2	1.2	1.3	38	28	11	4.5	3.9
23	2.6	2.3	1.5	1.4	1.2	1.2	1.4	48	27	11	4.5	3.8
24	2.6	2.2	1.5	1.4	1.2	1.1	1.6	49	26	11	4.2	3.9
25	2.5	2.2	1.5	1.4	1.1	1.2	1.8	52	26	10	4.1	4.2
26	2.6	2.0	1.6	1.4	1.1	1.1	1.9	63	25	10	4.1	8.3
27	2.6	1.8	1.6	1.3	1.1	1.1	2.1	68	24	10	3.9	25
28	2.6	1.8	1.6	1.4	1.1	1.1	3.2	67	23	11	4.1	15
29	2.7	1.9	1.5	1.3	---	1.1	4.8	60	23	10	4.1	15
30	2.5	1.9	1.6	1.3	---	.95	6.3	52	24	9.8	3.7	14
31	2.3	---	1.6	1.3	---	1.0	---	46	---	9.1	3.4	---
TOTAL	89.3	67.6	50.8	44.2	33.8	33.44	47.35	893.2	967	456.9	168.6	169.8
MEAN	2.88	2.25	1.64	1.43	1.21	1.08	1.58	28.8	32.2	14.7	5.44	5.66
MAX	3.5	2.6	1.8	1.6	1.3	1.2	6.3	68	47	23	8.5	25
MIN	2.3	1.8	1.5	1.3	1.1	.95	.95	8.2	23	9.1	3.4	2.8
AC-FT	177	134	101	88	67	66	94	1770	1920	906	334	337
CAL YR 1981	TOTAL	2158.03	MEAN 5.91	MAX 43	MIN .64	AC-FT 4280						
WTR YR 1982	TOTAL	3021.99	MEAN 8.28	MAX 68	MIN .95	AC-FT 5990						

GREEN RIVER BASIN

81

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

LOCATION.--Lat 40°39'34", long 109°45'01', in NE¼NE¼SE¼ 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 mi² (21.34 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 8,300 ft (2,530 m) from topographic map. Prior to July 28, 1978 at 0.53 ft (0.162 m) higher datum.

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

AVERAGE DISCHARGE.--22 years, 12.7 ft³/s (0.360 m³/s), 9,200 acre-ft/yr (11.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 395 ft³/s (11.2 m³/s) June 10, 1965, gage height, 2.12 ft (0.646 m), from rating curve extended above 160 ft³/s (4.53 m³/s); no flow for part of Apr. 23, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 100 ft³/s (2.83 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 27	1900	182	5.15	*2.86	0.872
Sept. 27	0100	*205	5.81	2.76	.841

Minimum daily, 0.92 ft³/s (0.026 m³/s) Apr. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	2.6	2.4	2.2	1.8	1.7	1.5	5.7	73	47	13	5.5
2	3.4	2.4	2.4	2.2	1.8	1.7	1.5	8.8	71	44	12	5.4
3	3.6	2.7	2.4	2.1	1.8	1.6	1.4	20	68	42	12	5.2
4	4.0	3.2	2.5	2.0	1.7	1.4	1.5	31	70	39	11	5.0
5	3.8	3.3	2.5	2.0	1.7	1.7	1.4	31	64	38	11	6.3
6	3.6	3.2	2.5	2.0	1.8	1.7	1.4	23	57	36	11	5.7
7	3.6	3.2	2.4	1.9	1.8	1.7	1.4	19	59	32	10	5.4
8	4.0	3.2	2.3	1.9	1.8	1.7	1.3	18	62	30	10	4.9
9	3.8	3.2	2.4	2.0	1.7	1.7	1.4	18	62	28	10	4.8
10	3.4	3.4	2.4	2.0	1.7	1.7	1.3	14	61	26	9.7	5.0
11	3.6	3.6	2.4	2.0	1.7	1.7	1.2	12	60	24	9.2	6.0
12	4.0	3.4	2.4	2.0	1.7	1.6	1.2	10	62	23	9.2	5.1
13	3.6	3.0	2.3	1.9	1.7	1.6	1.2	9.4	62	22	9.0	5.2
14	3.6	3.0	2.2	1.9	1.7	1.5	1.2	8.8	60	20	8.8	5.2
15	3.6	3.0	2.2	2.0	1.7	1.5	1.3	8.6	56	19	8.2	5.9
16	3.4	3.0	2.1	2.0	1.7	1.4	1.3	8.8	57	19	7.9	9.2
17	3.8	3.0	2.2	1.9	1.7	1.5	1.2	11	59	18	7.7	8.8
18	3.6	2.9	2.2	1.8	1.7	1.6	1.2	20	54	17	7.6	7.4
19	3.8	2.5	2.2	1.9	1.7	1.6	1.2	32	51	17	7.4	6.6
20	3.8	2.8	2.2	1.9	1.7	1.5	1.1	24	50	16	7.1	8.8
21	3.8	3.0	2.2	1.9	1.7	1.6	1.2	32	50	16	6.9	6.9
22	3.6	3.1	2.1	1.9	1.7	1.6	.92	55	53	15	7.1	6.4
23	3.6	3.1	2.1	1.9	1.7	1.6	1.2	76	55	15	6.9	6.2
24	3.6	3.0	2.1	1.9	1.7	1.5	1.7	77	53	14	6.6	6.2
25	3.4	2.8	2.1	1.9	1.7	1.6	2.2	83	52	14	6.2	6.4
26	3.4	2.6	2.2	1.9	1.7	1.6	1.9	112	50	14	6.2	26
27	3.4	2.6	2.2	1.9	1.7	1.6	2.0	135	48	14	6.7	84
28	3.4	2.6	2.2	1.9	1.7	1.6	3.0	111	47	15	6.8	40
29	3.6	2.7	2.2	1.8	---	1.5	3.8	92	46	15	6.7	32
30	3.6	2.6	2.1	1.8	---	1.4	4.4	72	47	14	5.8	32
31	2.0	---	2.1	1.8	---	1.5	---	62	---	13	5.6	---
TOTAL	111.0	88.7	70.2	60.2	48.2	49.2	48.52	1240.1	1719	716	263.3	367.5
MEAN	3.58	2.96	2.26	1.94	1.72	1.59	1.62	40.0	57.3	23.1	8.49	12.3
MAX	4.0	3.6	2.5	2.2	1.8	1.7	4.4	135	73	47	13	84
MIN	2.0	2.4	2.1	1.8	1.7	1.4	.92	5.7	46	13	5.6	4.8
AC-FT	220	176	139	119	96	98	96	2460	3410	1420	522	729

CAL YR 1981 TOTAL 3290.44 MEAN 9.01 MAX 76 MIN .78 AC-FT 6530
WTR YR 1982 TOTAL 4781.92 MEAN 13.1 MAX 135 MIN .92 AC-FT 9480

GREEN RIVER BASIN

09270500 DRY FORK AT MOUTH, NEAR DRY FORK, UTAH

LOCATION.--Lat 40°31'35", long 109°36'18", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ 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 mi² (298 km²).

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

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

GAGE.--Water-stage recorder. Datum of gage is 5,842.9 ft (1,780.92 m) NGVD of 1929.

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

AVERAGE DISCHARGE.--28 years, 25.3 ft³/s (0.716 m³/s), 18,330 acre-ft/yr (22.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,210 ft³/s (34.3 m³/s) Aug. 25, 1955, from rating curve extended above 450 ft³/s (12.7 m³/s) on basis of comparison with Ashley Creek at Sign of the Maine; maximum gage height, 6.00 ft (1.829 m) June 12, 1965; no flow for several periods in 1956-61, 1963, 1966, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 250 ft³/s (7.08 m³/s), 610 ft³/s (17.3 m³/s) May 27, gage height, 5.05 ft (1.539 m); minimum daily, 0.55 ft³/s (0.016 m³/s) Sept. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	2.1	2.0	1.5	1.6	2.3	1.9	.77	248	91	4.9	1.5
2	1.0	2.0	2.1	1.5	1.6	3.0	1.8	.75	257	87	3.9	1.4
3	1.3	1.9	2.1	1.1	1.3	2.9	1.7	1.0	268	81	3.9	1.4
4	1.7	1.9	2.1	1.2	1.1	2.3	1.7	.99	287	78	3.1	1.3
5	1.5	1.8	2.0	1.4	.92	2.2	1.6	.75	275	78	2.9	.70
6	1.4	1.8	2.0	1.3	.97	2.1	1.6	2.1	214	78	2.8	.55
7	1.4	1.8	2.0	1.1	1.0	2.1	1.7	9.1	202	73	2.7	.65
8	1.5	1.8	1.9	.92	1.4	2.1	1.7	17	197	71	2.7	.75
9	1.5	1.8	1.9	1.3	1.6	2.0	1.7	23	212	69	2.7	.75
10	1.5	1.8	1.9	1.5	1.5	2.0	1.5	27	238	67	2.6	1.0
11	5.6	1.8	1.9	1.5	1.5	2.1	1.6	25	229	64	2.4	1.8
12	4.3	1.8	1.9	1.6	1.5	2.4	1.6	25	249	59	2.6	1.4
13	3.0	1.8	1.8	1.6	1.5	1.9	1.4	24	252	56	2.9	4.2
14	2.3	1.8	1.8	1.6	1.5	2.0	1.2	24	229	52	2.9	3.9
15	2.2	1.8	1.8	1.6	1.5	3.9	1.4	17	188	49	2.6	4.4
16	4.2	1.8	1.8	1.7	1.5	2.9	1.3	15	184	46	2.2	3.0
17	4.5	1.8	1.6	1.6	1.4	3.1	1.2	12	230	40	2.1	2.3
18	4.2	1.7	1.6	1.6	1.4	3.0	1.3	14	210	33	2.2	2.0
19	3.2	1.7	1.6	1.6	1.4	2.7	1.1	20	172	30	2.1	1.8
20	2.4	1.7	1.4	1.7	1.4	2.3	1.2	29	157	28	2.0	2.7
21	2.1	1.6	1.3	1.6	1.3	2.1	1.1	34	145	27	14	2.1
22	2.0	1.7	1.4	1.5	1.4	1.9	1.1	39	137	27	4.2	1.6
23	2.0	1.7	1.5	1.5	2.0	1.9	1.1	45	130	21	3.2	1.1
24	1.9	1.7	1.5	1.6	2.4	1.9	1.1	159	120	22	3.0	.95
25	1.8	1.7	1.5	1.6	2.6	1.8	1.0	216	124	17	2.8	1.4
26	1.8	1.6	1.5	1.6	2.4	1.8	.89	345	118	12	2.5	2.6
27	1.9	1.6	1.4	1.5	2.4	1.9	.93	510	107	17	2.8	8.4
28	1.9	1.7	1.2	1.5	2.4	1.8	.88	505	104	21	4.0	16
29	3.0	2.1	1.2	1.6	---	2.2	.83	440	99	14	3.5	34
30	2.7	2.1	1.3	1.6	---	2.1	.76	349	89	11	2.2	38
31	2.2	---	1.4	1.6	---	2.0	---	259	---	7.2	1.8	---
TOTAL	73.0	53.9	52.4	46.12	44.49	70.7	39.89	3188.46	5671	1426.2	100.2	143.65
MEAN	2.35	1.80	1.69	1.49	1.59	2.28	1.33	103	189	46.0	3.23	4.79
MAX	5.6	2.1	2.1	1.7	2.6	3.9	1.9	510	287	91	14	38
MIN	1.0	1.6	1.2	.92	.92	1.8	.76	.75	89	7.2	1.8	.55
AC-FT	145	107	104	91	88	140	79	6320	11250	2830	199	285
CAL YR 1981	TOTAL	4417.66	MEAN	12.1	MAX	270	MIN	.51	AC-FT	8760		
WTR YR 1982	TOTAL	10910.01	MEAN	29.9	MAX	510	MIN	.55	AC-FT	21640		

GREEN RIVER BASIN

83

09271500 ASHLEY CREEK NEAR JENSEN, UTAH

LOCATION.--Lat 40°22'29", long 109°24'27", in NE¼NW¼NE¼ sec.23, T.5 S., R.22 E., Uintah County, Hydrologic Unit 14060002, on right bank just downstream from bridge on U.S. Highway 40, 3 mi (5 km) upstream from mouth, and 3 mi (5 km) west of Jensen.

DRAINAGE AREA.--383 mi² (992 km²).

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

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

REMARKS.--Records good 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 hm³) 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 hm³). Records of Steinaker Reservoir diversion are in the Bureau of Reclamation office at Provo, Utah.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,790 ft³/s (79.0 m³/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, 630 ft³/s (17.8 m³/s) May 27, gage height, 4.26 ft (1.300 m); minimum daily, 4.0 ft³/s (0.11 m³/s) Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	34	27	21	23	30	25	11	207	42	36	14
2	8.4	33	26	21	24	38	23	11	209	43	32	16
3	10	33	27	21	23	42	21	11	202	39	34	16
4	32	31	25	20	21	39	21	15	227	34	31	15
5	29	29	25	22	20	34	20	13	225	34	28	15
6	21	30	25	21	21	31	21	16	153	42	21	14
7	18	30	25	19	23	30	21	13	139	39	19	17
8	20	29	24	20	24	30	20	8.9	130	38	16	17
9	20	28	23	22	25	28	19	8.2	130	32	17	15
10	18	27	24	22	25	28	18	9.3	151	27	20	17
11	104	27	22	21	24	28	18	9.3	149	24	17	32
12	160	26	22	20	25	35	18	11	158	28	19	27
13	76	26	23	21	26	28	17	13	176	34	22	61
14	54	26	22	22	26	27	17	12	184	27	21	103
15	52	26	22	22	27	52	16	10	166	21	22	80
16	64	25	23	23	27	44	15	12	155	18	21	74
17	73	25	22	22	27	42	15	11	191	17	22	74
18	48	28	21	23	26	35	14	11	235	17	18	68
19	42	25	20	23	27	33	13	18	184	17	14	56
20	39	26	20	22	28	30	13	21	158	16	11	65
21	35	25	20	22	28	28	13	18	170	15	11	69
22	33	25	21	23	28	27	12	20	156	17	8.4	57
23	32	25	22	23	31	27	13	26	146	12	5.6	45
24	32	26	20	23	31	29	12	144	120	13	4.0	40
25	32	27	18	23	32	27	11	67	87	13	5.0	41
26	33	28	20	23	33	26	12	202	96	15	6.6	48
27	32	27	21	22	33	26	13	410	80	14	8.7	198
28	34	28	17	23	32	26	12	344	69	22	8.7	290
29	41	30	19	23	---	32	13	407	64	57	16	290
30	50	29	20	23	---	32	11	372	53	54	15	255
31	38	---	19	23	---	26	---	230	---	38	17	---
TOTAL	1287.2	834	685	679	740	990	487	2484.7	4570	859	547.0	2129
MEAN	41.5	27.8	22.1	21.9	26.4	31.9	16.2	80.2	152	27.7	17.6	71.0
MAX	160	34	27	23	33	52	25	410	235	57	36	290
MIN	6.8	25	17	19	20	26	11	8.2	53	12	4.0	14
AC-FT	2550	1650	1360	1350	1470	1960	966	4930	9060	1700	1080	4220
CAL YR 1981	TOTAL	7061.2	MEAN 19.3	MAX 160	MIN 3.1	AC-FT 14010						
WTR YR 1982	TOTAL	16291.9	MEAN 44.6	MAX 410	MIN 4.0	AC-FT 32310						

GREEN RIVER BASIN

09275500 WEST FORK DUCHESNE RIVER NEAR HANNA, UTAH

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

DRAINAGE AREA.--61.6 mi² (159.6 km²).

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 those for winter periods, which are poor. One small diversion for irrigation of about 100 acres (405,000 hm²) above station.

AVERAGE DISCHARGE.--38 years (1922-23, 1945-82), 48.3 ft³/s (1.368 m³/s), 34,990 acre-ft/yr (43.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 758 ft³/s (21.5 m³/s) June 5, 1967, maximum gage height, 4.40 ft (1.341 m) June 4, 1952; minimum discharge recorded, 0.19 ft³/s (0.005 m³/s) Mar. 29, 1975, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 300 ft³/s (8.5 m³/s), 602 ft³/s (17.0 m³/s) May 28, gage height, 3.84 ft (1.170 m); minimum daily, 8.4 ft³/s (0.24 m³/s) Jan. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	21	17	12	11	15	18	160	376	207	51	29
2	18	22	18	11	10	15	19	196	352	183	48	28
3	20	20	19	10	10	15	19	232	341	170	48	28
4	23	19	19	9.0	10	14	18	245	366	160	44	27
5	22	20	20	10	9.0	14	17	231	385	152	42	27
6	19	20	20	9.0	9.0	15	17	199	344	144	40	30
7	19	20	19	8.4	9.0	16	17	195	330	135	38	29
8	21	20	19	8.4	9.0	17	17	202	344	125	40	28
9	23	18	18	8.8	9.0	18	17	192	328	121	41	27
10	22	17	18	9.0	10	18	17	178	317	111	43	28
11	38	18	18	9.2	11	19	20	157	341	105	40	31
12	34	18	18	9.6	12	19	38	147	341	98	42	27
13	29	20	18	9.6	13	19	34	154	328	92	40	30
14	26	21	18	10	14	19	40	170	320	86	39	31
15	24	21	18	10	14	19	43	196	314	84	37	32
16	25	21	18	11	15	18	46	212	314	75	37	35
17	25	20	18	12	15	18	45	233	336	70	36	31
18	25	19	17	11	15	17	43	254	317	67	35	29
19	24	17	16	11	14	16	38	263	300	66	34	30
20	23	17	17	11	14	16	35	249	298	64	33	35
21	22	17	17	11	14	16	29	268	284	61	33	32
22	21	18	15	11	14	16	35	295	292	60	34	29
23	21	19	14	12	14	16	43	328	276	58	33	28
24	21	19	14	12	14	17	54	368	263	56	32	29
25	21	19	14	11	14	18	69	371	249	55	32	27
26	20	17	14	11	15	18	75	424	236	58	32	42
27	20	14	14	11	15	18	86	476	233	70	33	51
28	20	14	13	11	15	18	107	513	223	62	32	40
29	24	15	13	11	---	18	128	432	212	59	33	38
30	22	16	13	11	---	17	123	409	207	55	32	44
31	20	---	13	11	---	17	---	366	---	51	32	---
TOTAL	710	557	517	323.0	348.0	526	1307	8315	9167	2960	1166	952
MEAN	22.9	18.6	16.7	10.4	12.4	17.0	43.6	268	306	95.5	37.6	31.7
MAX	38	22	20	12	15	19	128	513	385	207	51	51
MIN	18	14	13	8.4	9.0	14	17	147	207	51	32	27
AC-FT	1410	1100	1030	641	690	1040	2590	16490	18180	5870	2310	1890

CAL YR 1981 TOTAL 12437.0 MEAN 34.1 MAX 189 MIN 13 AC-FT 24670
WTR YR 1982 TOTAL 26848.0 MEAN 73.6 MAX 513 MIN 8.4 AC-FT 53250

09276000 WOLF CREEK ABOVE RHOADES CANYON, NEAR HANNA, UTAH

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

DRAINAGE AREA.--10.6 mi² (27.5 km²).

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 those of no gage-height record, Nov. 27 to Mar. 10, which are fair. No diversions above station.

AVERAGE DISCHARGE.--37 years, 7.48 ft³/s (0.212 m³/s) 5,420 acre-ft/yr (6.68 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 82 ft³/s (2.32 m³/s) June 8, 1952, gage height, 2.64 ft (0.805 m); minimum, 0.2 ft³/s (0.01 m³/s) sometime during Jan. 2-31, 1962, probably result of temporary obstruction upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 25 ft³/s (0.71 m³/s), and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 27	2200	*74	2.10	2.48	0.756
June 23	2400	70	1.98	2.45	.747

Minimum recorded, 1.4 ft³/s (0.040 m³/s), Apr. 13, 14. May have been lower during period of no gage-height record.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	3.6	2.5	2.5	2.3	2.3	2.3	2.7	38	37	12	8.6
2	4.5	3.6	2.5	2.5	2.3	2.3	2.3	2.8	34	33	12	8.0
3	4.0	3.6	2.5	2.5	2.3	2.3	2.3	3.0	37	31	12	7.9
4	3.8	3.6	2.5	2.5	2.3	2.3	2.3	3.6	42	30	12	8.0
5	3.8	3.6	2.5	2.5	2.3	2.3	2.3	4.1	40	30	12	8.2
6	3.8	3.6	2.5	2.3	2.3	2.3	2.3	4.3	33	29	12	8.1
7	3.8	3.6	2.5	2.3	2.3	2.3	2.3	4.6	31	28	13	8.0
8	3.8	3.6	2.5	2.3	2.3	2.3	2.3	4.4	32	27	13	7.7
9	3.8	3.6	2.5	2.3	2.3	2.3	2.3	4.2	34	26	13	7.8
10	3.8	3.6	2.5	2.3	2.3	2.3	2.3	4.1	36	25	13	7.8
11	4.1	3.4	2.5	2.3	2.3	2.3	2.3	3.8	41	24	13	7.7
12	3.9	3.4	2.5	2.3	2.3	2.3	2.5	3.6	43	24	12	7.9
13	3.9	3.4	2.5	2.3	2.3	2.3	2.3	3.5	41	24	11	7.6
14	3.8	3.4	2.5	2.3	2.3	2.3	2.3	3.3	44	24	11	7.5
15	3.8	3.4	2.5	2.3	2.3	2.8	2.2	4.0	45	23	11	7.7
16	3.8	3.4	2.5	2.3	2.3	2.5	2.3	7.7	47	23	11	8.1
17	3.8	3.4	2.5	2.3	2.3	2.5	2.3	11	52	23	11	7.3
18	3.6	3.6	2.5	2.3	2.3	2.3	2.3	15	53	21	11	7.3
19	3.6	3.6	2.5	2.3	2.3	2.3	2.3	18	56	22	11	7.7
20	3.6	3.6	2.5	2.3	2.3	2.3	2.3	15	56	21	11	9.3
21	3.6	3.6	2.5	2.3	2.3	2.3	2.2	18	49	21	9.9	7.7
22	3.6	3.6	2.5	2.3	2.3	2.5	2.1	23	50	20	11	7.5
23	3.6	3.6	2.5	2.3	2.3	2.3	2.2	25	56	19	9.7	7.0
24	3.5	3.6	2.5	2.3	2.3	2.3	2.2	30	49	19	9.0	7.3
25	3.6	3.6	2.5	2.3	2.3	2.3	2.3	34	48	20	8.7	7.6
26	3.6	3.4	2.5	2.3	2.3	2.3	2.3	44	45	19	8.7	9.5
27	3.4	3.0	2.5	2.3	2.3	2.3	2.4	55	43	16	8.5	10
28	3.4	2.7	2.5	2.3	2.3	2.3	2.5	60	40	14	8.9	7.8
29	3.6	2.5	2.5	2.3	---	2.3	2.5	44	38	13	8.8	7.4
30	3.6	2.5	2.5	2.3	---	2.3	2.6	42	37	13	8.6	7.4
31	3.6	---	2.5	2.3	---	2.3	---	40	---	12	8.6	---
TOTAL	117.1	102.7	77.5	72.3	64.4	72.4	69.4	537.7	1290	711	337.4	237.4
MEAN	3.78	3.42	2.50	2.33	2.30	2.34	2.31	17.3	43.0	22.9	10.9	7.91
MAX	5.0	3.6	2.5	2.5	2.3	2.8	2.6	60	56	37	13	10
MIN	3.4	2.5	2.5	2.3	2.3	2.3	2.1	2.7	31	12	8.5	7.0
AC-FT	232	204	154	143	128	144	138	1070	2560	1410	669	471
CAL YR 1981	TOTAL	2168.2	MEAN	5.94	MAX	27	MIN	2.5	AC-FT	4300		
WTR YR 1982	TOTAL	3689.3	MEAN	10.1	MAX	60	MIN	2.1	AC-FT	7320		

09277800 ROCK CREEK ABOVE SOUTH FORK, NEAR HANNA, UTAH

LOCATION.--Lat 40°33'27", long 110°41'50", in NW¼SE¼NE¼ 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 mi² (256.2 km²).

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

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

GAGE.--Water-stage recorder. Altitude of gage is 7,967.7 ft (2,429 m) (levels by Bureau of Reclamation).

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

AVERAGE DISCHARGE.--17 years, 136 ft³/s (3.852 m³/s), 98,500 acre-ft/yr (121 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,760 ft³/s (78.2 m³/s) June 17, 1971, gage height, 4.95 ft (1.509 m); minimum measured, 6.9 ft³/s (0.20 m³/s) Dec. 23, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,000 ft³/s (28.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 27	2000	1,060	30.0	3.85	1.173
June 22	2300	*1,480	41.9	4.37	1.332

Minimum daily, 19 ft³/s (0.54 m³/s) Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	48	31	29	25	22	25	161	600	943	206	73
2	31	46	34	29	25	23	24	210	575	777	191	71
3	35	45	39	29	24	23	24	236	615	725	188	69
4	46	44	30	29	21	22	25	260	684	667	171	67
5	45	44	31	26	19	20	24	246	661	570	155	67
6	43	43	32	22	20	22	25	215	551	478	144	71
7	42	42	32	22	23	22	25	208	529	456	136	93
8	51	41	29	26	23	23	25	200	529	441	133	77
9	46	38	29	27	22	22	25	186	560	430	133	69
10	43	38	29	28	23	21	26	172	684	413	123	79
11	68	38	28	27	23	22	27	155	836	402	122	86
12	65	37	27	27	22	23	41	140	976	392	120	72
13	60	38	28	27	23	25	40	134	936	378	113	76
14	56	40	27	27	23	24	43	138	896	367	110	81
15	52	41	29	27	23	25	40	170	759	351	107	86
16	57	40	28	27	23	26	38	196	849	327	107	102
17	56	39	29	27	23	25	38	227	1130	305	155	94
18	56	38	28	26	23	26	40	275	1200	285	117	83
19	55	31	28	26	22	25	39	297	1160	269	113	83
20	54	36	29	26	22	24	38	279	1210	258	104	140
21	53	42	28	25	23	25	37	325	1120	246	111	107
22	50	39	23	25	24	25	41	343	1180	240	113	92
23	49	39	23	25	24	26	45	448	1170	239	100	84
24	48	40	29	26	23	25	49	534	970	233	92	79
25	46	37	30	27	22	25	60	625	970	255	87	98
26	46	26	30	26	22	25	64	765	956	269	84	317
27	47	27	30	25	22	25	68	923	1070	334	83	454
28	46	29	25	25	22	25	87	963	1110	279	83	317
29	52	30	28	25	---	25	110	794	1110	287	96	263
30	48	29	30	24	---	25	121	684	983	275	85	258
31	52	---	30	24	---	24	---	585	---	228	78	---
TOTAL	1529	1145	903	811	634	740	1314	11094	26579	12119	3760	3708
MEAN	49.3	38.2	29.1	26.2	22.6	23.9	43.8	358	886	391	121	124
MAX	68	48	39	29	25	26	121	963	1210	943	206	454
MIN	31	26	23	22	19	20	24	134	529	228	78	67
AC-FT	3030	2270	1790	1610	1260	1470	2610	22000	52720	24040	7460	7350
CAL YR 1981	TOTAL	35854	MEAN	98.2	MAX	1180	MIN	16	AC-FT	71120		
WTR YR 1982	TOTAL	64336	MEAN	176	MAX	1210	MIN	19	AC-FT	127600		

09278000 SOUTH FORK ROCK CREEK NEAR HANNA, UTAH

LOCATION.--Lat 40°32'54", long 110°41'37", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ 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 mi² (40.7 km²).

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

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

GAGE.--Water-stage recorder. Altitude of gage is 7,860 ft (2,396 m) from river-profile map. Prior to July 23 at site 75 ft (23 m) downstream at different gage datum.

REMARKS.--Records good except those of no gage-height record, Dec. 10 to Jan. 27, which are poor. Pipeline capacity approximately 1.5 ft³/s (0.042 m³/s) that provides water for small hydroelectric plant and irrigation for dude ranch lying below station, diverts water from creek a short distance above station at times in summer months.

AVERAGE DISCHARGE.--29 years, 13.1 ft³/s (0.371 m³/s), 9,490 acre-ft/yr (11.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 189 ft³/s (5.35 m³/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 ft³/s (1.70 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 27	2100	*152	4.30	2.72	0.829
June 23	1500	121	3.43	2.60	.792

Minimum daily, 2.2 ft³/s (0.062 m³/s) Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	10	4.1	3.6	2.9	2.9	2.9	17	67	99	22	8.6
2	4.2	11	4.0	3.4	2.9	2.9	2.9	22	63	89	21	8.2
3	4.8	9.0	4.1	3.2	2.8	2.9	2.7	28	63	71	21	8.0
4	5.3	6.6	4.2	3.0	2.6	2.7	2.6	34	66	62	20	7.6
5	4.7	6.7	4.2	3.1	2.2	2.6	2.5	34	64	59	19	7.6
6	4.5	5.7	4.2	3.3	2.5	2.8	2.6	28	62	60	19	8.6
7	4.3	4.2	4.2	2.5	2.6	2.8	2.8	28	59	57	18	8.6
8	5.1	4.1	4.2	2.6	2.6	2.9	2.9	27	58	51	18	7.5
9	4.5	4.8	4.2	2.9	2.6	2.9	2.9	22	54	48	18	7.1
10	4.8	5.6	4.2	3.1	2.6	2.8	2.8	19	57	49	16	10
11	7.4	5.4	4.2	3.3	2.6	2.9	2.9	16	69	48	16	9.2
12	5.2	3.0	4.2	3.3	2.5	2.8	4.0	15	92	47	16	8.0
13	4.9	4.0	4.2	3.3	2.5	2.6	3.5	13	88	46	15	8.5
14	4.7	4.6	4.0	3.1	2.5	2.7	3.6	14	90	45	14	8.1
15	4.9	4.5	4.2	3.5	2.5	2.8	3.6	16	85	43	14	8.8
16	4.9	4.5	4.2	3.6	2.5	2.9	3.4	19	87	42	14	9.2
17	4.9	4.5	3.5	3.4	2.5	2.7	3.6	26	105	40	13	8.8
18	5.2	4.3	3.8	3.3	2.5	2.9	3.6	31	109	38	13	8.3
19	5.6	4.3	3.9	3.3	2.4	2.8	3.8	30	97	37	12	9.2
20	5.6	3.1	4.0	3.4	2.4	2.7	3.5	30	104	36	11	14
21	5.2	4.0	4.0	3.4	2.4	2.7	3.6	34	104	33	12	10
22	5.4	4.4	3.8	3.6	2.7	2.5	3.6	37	103	34	11	8.8
23	5.1	4.4	3.1	3.4	2.9	2.8	3.8	48	111	32	11	8.3
24	4.7	4.2	3.3	3.0	2.5	2.9	4.8	54	102	32	11	7.8
25	4.9	4.2	4.2	3.3	2.6	2.9	5.8	58	97	34	10	8.8
26	5.1	3.7	3.8	3.4	2.6	2.9	6.7	66	97	33	9.9	31
27	4.5	3.3	3.5	3.4	2.7	2.9	7.2	100	98	37	9.7	33
28	4.6	2.9	3.0	3.4	2.8	2.9	9.8	116	110	33	9.7	19
29	4.9	3.6	3.2	3.1	---	2.9	12	100	111	30	9.9	17
30	4.9	4.3	3.5	2.9	---	2.7	13	80	106	26	9.4	16
31	7.5	---	3.8	3.1	---	2.9	---	68	---	24	8.6	---
TOTAL	156.5	148.9	121.0	100.2	72.4	87.0	133.4	1230	2578	1415	442.2	333.6
MEAN	5.05	4.96	3.90	3.23	2.59	2.81	4.45	39.7	85.9	45.6	14.3	11.1
MAX	7.5	11	4.2	3.6	2.9	2.9	13	116	111	99	22	33
MIN	4.2	2.9	3.0	2.5	2.2	2.5	2.5	13	54	24	8.6	7.1
AC-FT	310	295	240	199	144	173	265	2440	5110	2810	877	662
CAL YR 1981	TOTAL	3908.2	MEAN 10.7	MAX 73	MIN 2.6	AC-FT 7750						
WTR YR 1982	TOTAL	6818.2	MEAN 18.7	MAX 116	MIN 2.2	AC-FT 13520						

GREEN RIVER BASIN

89

09278500 ROCK CREEK NEAR HANNA, UTAH

LOCATION.--Lat 40°32'44", long 110°39'20", in NE¼NE¼ 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 mi² (316 km²).

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 those for winter months, which are fair.

AVERAGE DISCHARGE.--28 years (1950-69, 1975-82), 150 ft³/s (4.248 m³/s), 108,700 acre-ft/yr (134 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,540 ft³/s (71.9 m³/s) June 13, 1953, gage height, 8.60 ft (2.621 m); minimum recorded, 4.4 ft³/s (0.12 m³/s) Feb. 7, 1977, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,000 ft³/s (28.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	(m ³ /s)	Gage height (ft)	(m)
May 27	2400	1,130	32.0	5.94	1.811
June 22	2300	*1,550	43.9	6.65	2.027

Minimum daily, 23 ft³/s (0.65 m³/s) Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	60	36	36	30	27	29	167	674	980	227	84
2	40	58	38	35	31	28	27	213	654	812	214	81
3	46	56	43	34	29	28	28	243	692	762	209	79
4	58	55	41	34	26	27	29	276	759	730	190	77
5	56	55	40	30	23	26	29	268	736	648	176	78
6	54	54	40	27	25	27	29	225	635	541	163	81
7	53	53	38	26	29	28	30	219	604	513	155	103
8	63	51	37	29	28	27	29	212	607	508	152	89
9	58	48	38	33	28	27	29	198	642	502	152	79
10	54	48	38	33	28	27	29	182	757	482	140	89
11	84	49	36	32	29	27	31	164	911	466	133	98
12	78	47	34	32	28	28	50	147	1030	458	136	83
13	72	49	34	33	28	30	47	145	987	443	127	86
14	68	51	35	34	29	29	51	148	948	429	124	91
15	63	51	33	33	29	30	51	175	817	408	120	94
16	70	50	33	33	29	30	45	200	941	377	117	110
17	69	50	35	33	29	30	47	237	1250	309	168	104
18	67	48	33	32	28	31	49	307	1280	331	130	92
19	66	38	33	32	28	30	45	316	1180	312	127	93
20	66	49	35	31	28	29	41	302	1200	298	117	148
21	65	53	35	30	28	29	43	360	1130	285	118	117
22	61	49	30	29	29	30	43	429	1190	274	127	101
23	60	49	28	32	29	30	51	518	1200	274	112	94
24	60	50	35	33	28	29	59	635	1010	266	104	89
25	57	48	36	32	27	29	75	708	1040	285	99	104
26	57	36	36	31	27	29	78	827	1000	301	96	327
27	59	34	38	30	27	29	84	960	1140	371	96	506
28	58	34	31	31	27	29	102	1020	1230	312	94	334
29	65	36	34	30	---	29	131	879	1180	317	107	287
30	60	35	38	30	---	29	140	757	1030	304	98	285
31	53	---	37	30	---	28	---	652	---	251	90	---
TOTAL	1881	1444	1108	980	784	886	1551	12089	28454	13549	4218	4083
MEAN	60.7	48.1	35.7	31.6	28.0	28.6	51.7	390	948	437	136	136
MAX	84	60	43	36	31	31	140	1020	1280	980	227	506
MIN	40	34	28	26	23	26	27	145	604	251	90	77
AC-FT	3730	2860	2200	1940	1560	1760	3080	23980	56440	26870	8370	8100
CAL YR 1981	TOTAL	41134	MEAN 113	MAX 1280	MIN 21	AC-FT 81590						
WTR YR 1982	TOTAL	71027	MEAN 195	MAX 1280	MIN 23	AC-FT 140900						

GREEN RIVER BASIN

09279000 ROCK CREEK NEAR MOUNTAIN HOME, UTAH

LOCATION.--Lat 40°29'36", long 110°34'39", in SE¼NW¼SW¼ sec.9, T.1 N., R.6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on right bank at Lower Stillwater dam site "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 mi² (381 km²).

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 except those for winter months, which are fair.

AVERAGE DISCHARGE.--45 years, 169 ft³/s (4.786 m³/s), 122,400 acre-ft/yr (151 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,920 ft³/s (82.7 m³/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 ft³/s (0.2 m³/s) Mar. 13, 1940, Mar. 20, 1942 (probably caused by ice jams above station).

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 1,200 ft³/s (34 m³/s), 1,520 ft³/s (43.0 m³/s) June 23, gage height, 4.93 ft (1.503 m); minimum, 35 ft³/s (0.99 m³/s) Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	79	50	54	45	45	47	178	646	960	260	108
2	57	73	58	53	44	46	42	222	613	850	244	103
3	60	72	65	53	40	46	48	247	646	800	241	103
4	74	70	58	53	41	45	46	272	756	750	225	101
5	74	72	57	52	35	44	46	272	738	710	209	100
6	71	71	58	45	38	41	47	230	608	660	199	101
7	69	71	60	39	40	45	46	222	596	600	191	127
8	82	67	59	44	43	44	45	215	591	540	184	114
9	77	63	58	49	44	43	48	195	608	525	187	103
10	70	64	56	52	45	44	52	180	714	504	175	106
11	104	66	54	52	46	47	50	165	852	483	172	125
12	98	63	53	50	45	48	85	148	922	476	175	107
13	91	67	53	51	44	49	77	143	887	455	162	110
14	86	69	53	49	45	48	80	146	908	439	158	114
15	80	68	54	52	46	49	78	165	817	426	155	120
16	93	67	47	52	47	49	73	190	859	400	144	133
17	88	67	48	51	47	48	70	220	1110	376	196	130
18	84	65	49	50	46	48	73	290	1260	352	165	117
19	82	68	48	51	44	48	68	305	1120	333	158	113
20	82	63	49	50	45	47	64	300	1190	320	147	173
21	82	70	50	49	45	45	62	340	1160	310	150	151
22	77	66	50	48	47	43	65	395	1160	301	161	130
23	78	66	41	49	47	46	70	480	1340	298	142	119
24	78	66	46	55	46	48	77	543	1160	294	130	112
25	72	62	57	55	45	48	91	618	1150	306	124	122
26	74	42	54	52	45	48	97	768	943	320	120	288
27	78	48	51	51	44	46	100	936	1080	402	118	565
28	74	50	46	47	45	47	113	943	1210	338	121	368
29	81	52	51	52	---	47	144	845	1120	334	132	307
30	77	49	55	49	---	48	152	792	1000	346	126	316
31	71	---	56	49	---	48	---	646	---	286	114	---
TOTAL	2420	1936	1644	1558	1234	1438	2156	11611	27764	14494	5185	4786
MEAN	78.1	64.5	53.0	50.3	44.1	46.4	71.9	375	925	468	167	160
MAX	104	79	65	55	47	49	152	943	1340	960	260	565
MIN	56	42	41	39	35	41	42	143	591	286	114	100
AC-FT	4800	3840	3260	3090	2450	2850	4280	23030	55070	28750	10280	9490
CAL YR 1981	TOTAL	47248	MEAN 129	MAX	1390	MIN 39	AC-FT	93720				
WTR YR 1982	TOTAL	76226	MEAN 209	MAX	1340	MIN 35	AC-FT	151200				

GREEN RIVER BASIN

91

09279100 ROCK CREEK NEAR TALMAGE, UTAH

LOCATION.--Lat 40°18'40", long 110°29'36", in SE¼NE¼NW¼ sec.18, T.2 S., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank 1.5 mi (2.4 km) upstream from mouth, 4.1 mi (6.6 km) southwest of Talmage and 11.1 mi (17.9 km) northwest of Duchesne.

DRAINAGE AREA.--238 mi² (616 km²).

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

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

GAGE.--Water-stage recorder. Datum of gage is 6,119.3 ft (1,865.16 m) NGVD of 1929.

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

AVERAGE DISCHARGE.--19 years, 179 ft³/s (5.069 m³/s), 129,700 acre-ft/yr (160 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,320 ft³/s (65.7 m³/s) July 29, 1968, gage height, 4.37 ft (1.332 m); minimum recorded, 6.0 ft³/s (0.17 m³/s) Nov. 28, 1976, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 1,200 ft³/s (34.0 m³/s), 1,380 ft³/s (39.1 m³/s) June 23, gage height, 3.45 ft (1.052 m), minimum daily, 42 ft³/s (1.19 m³/s) Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	90	62	65	56	58	60	192	686	1050	266	94
2	61	83	70	64	54	54	56	242	653	896	248	97
3	66	83	77	63	49	54	58	276	666	809	245	94
4	83	81	70	63	49	54	56	297	750	790	228	92
5	85	81	69	62	42	52	51	313	757	720	214	92
6	80	81	69	52	45	56	58	271	650	591	202	107
7	78	79	71	47	47	58	52	258	604	545	194	123
8	90	77	71	54	51	55	50	252	590	520	189	112
9	85	75	69	60	53	53	53	239	608	506	193	97
10	79	73	67	61	54	55	54	238	713	482	180	97
11	126	75	64	61	54	56	60	216	846	465	168	123
12	115	70	64	60	54	55	92	196	1010	457	177	104
13	102	77	60	62	53	57	89	186	993	439	166	112
14	94	79	64	58	54	57	91	180	970	423	161	115
15	90	79	65	58	55	56	89	205	847	409	156	120
16	109	77	62	58	55	60	81	227	844	386	147	131
17	97	75	57	58	55	60	77	248	1090	364	186	129
18	94	75	56	58	55	59	81	310	1230	343	169	115
19	92	63	58	57	53	57	74	350	1120	326	156	109
20	90	73	60	56	52	55	68	322	1190	314	144	162
21	90	83	61	56	54	52	68	350	1120	306	145	149
22	87	77	58	57	56	51	73	414	1100	295	168	126
23	85	75	49	60	56	56	76	458	1250	294	141	115
24	85	77	65	61	54	60	82	601	1060	291	128	107
25	85	75	69	61	54	57	101	659	1090	296	120	115
26	81	52	65	60	54	60	110	769	992	305	118	255
27	83	58	62	59	53	57	113	934	1110	391	116	548
28	83	60	57	59	54	58	123	1050	1170	340	113	354
29	92	62	62	62	---	60	156	940	1200	328	128	296
30	87	60	65	58	---	57	172	819	1100	360	120	322
31	75	---	65	58	---	54	---	682	---	294	108	---
TOTAL	2710	2225	1983	1828	1475	1743	2424	12694	28009	14335	5194	4612
MEAN	87.4	74.2	64.0	59.0	52.7	56.2	80.8	409	934	462	168	154
MAX	126	90	77	65	56	60	172	1050	1250	1050	266	548
MIN	61	52	49	47	42	51	50	180	590	291	108	92
AC-FT	5380	4410	3930	3630	2930	3460	4810	25180	55560	28430	10300	9150
CAL YR 1981	TOTAL	53967	MEAN 148	MAX 1330	MIN 44	AC-FT 107000						
WTR YR 1982	TOTAL	79232	MEAN 217	MAX 1250	MIN 42	AC-FT 157200						

09279150 DUCHESNE RIVER ABOVE KNIGHT DIVERSION, NEAR DUCHESNE, UTAH

LOCATION.--Lat 40°16'14", long 110°26'31", in NE¼NW¼ 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 mi² (1,614 km²).

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

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

GAGE.--Water-stage recorder. Altitude of gage is 5,840 ft (1,780 m) from topographic map. Prior to Apr. 25, 1973, at site 150 ft (46 m) upstream at different gage datum.

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

AVERAGE DISCHARGE.--12 years, 342 ft³/s (9.685 m³/s), 247,800 acre-ft/yr (306 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,150 ft³/s (118 m³/s) June 16, 1975, gage height, 6.99 ft (2.131 m); minimum, 37 ft³/s (1.05 m³/s) Jan. 31, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,400 ft³/s (39.6 m³/s), and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 28	1300	*3,340	94.6	6.39	1.948
June 20	0730	2,880	81.6	6.18	1.884

Minimum daily, 110 ft³/s (3.12 m³/s) Jan. 7, Feb. 5, 6, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143	223	167	150	150	158	161	493	1360	1950	426	184
2	140	228	182	135	130	164	143	623	1380	1700	427	179
3	158	222	204	150	130	162	144	775	1420	1530	420	179
4	184	224	184	154	120	143	152	856	1500	1490	394	175
5	205	222	182	145	110	131	133	914	1650	1240	375	179
6	196	221	181	135	110	132	149	749	1400	1130	363	188
7	196	222	181	110	120	140	137	679	1270	1040	356	224
8	205	222	181	154	115	144	124	667	1230	945	348	209
9	207	214	177	179	110	141	131	647	1320	911	360	191
10	206	200	182	181	120	148	138	625	1440	864	342	191
11	292	196	175	183	130	153	157	558	1750	813	300	223
12	296	195	161	183	140	171	227	503	2210	793	312	200
13	264	198	171	173	140	141	253	464	2120	757	306	233
14	255	207	165	172	140	162	258	449	2060	603	306	249
15	241	211	175	176	146	186	265	518	1930	560	283	258
16	288	204	159	169	154	174	235	610	1900	522	272	266
17	279	201	158	169	151	158	237	702	2290	494	312	262
18	261	197	147	166	150	152	253	842	2510	463	306	243
19	248	177	177	165	142	145	223	975	2420	462	300	238
20	244	178	186	165	145	136	211	842	2520	455	272	303
21	238	203	189	156	153	129	202	896	2400	445	256	291
22	232	199	158	163	160	132	218	1050	2370	438	278	263
23	228	193	122	160	169	137	231	1180	2510	435	261	247
24	229	195	114	170	154	146	252	1570	2290	424	241	237
25	227	196	157	170	148	148	298	1770	2220	423	221	258
26	225	157	141	166	150	159	322	2040	2040	430	211	453
27	228	148	172	164	166	156	337	2530	2240	481	211	838
28	226	155	131	173	160	152	358	2840	2320	461	207	595
29	232	155	150	157	---	162	437	2290	2250	457	211	526
30	242	174	145	152	---	149	462	1850	1930	475	207	628
31	214	---	150	155	---	136	---	1510	---	445	188	---
TOTAL	7029	5937	5124	5000	3913	4647	6848	33017	58250	23636	9272	8710
MEAN	227	198	165	161	140	150	228	1065	1942	762	299	290
MAX	296	228	204	183	169	186	462	2840	2520	1950	427	838
MIN	140	148	114	110	110	129	124	449	1230	423	188	175
AC-FT	13940	11780	10160	9920	7760	9220	13580	65490	115500	46880	18390	17280

CAL YR 1981	TOTAL	92032	MEAN 252	MAX 1710	MIN 89	AC-FT 182500
WTR YR 1982	TOTAL	171383	MEAN 470	MAX 2840	MIN 110	AC-FT 339900

09280400 HOBBLE CREEK AT DANIELS SUMMIT, NEAR WALLSBURG, UTAH

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

DRAINAGE AREA.--2.89 mi² (7.49 km²).

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 poor. No diversion above station.

AVERAGE DISCHARGE.--19 years, 2.83 ft³/s (0.080 m³/s), 2,050 acre-ft/yr (2.53 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 145 ft³/s (4.11 m³/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 August 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 30 ft³/s (0.850 m³/s), and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 4	1800	35	0.99	2.47	0.753
*May 26	2000	85	2.41	2.95	.899

Minimum, 0.03 ft³/s (0.001 m³/s), Sept. 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.19	.40	.50	.26	.26	.27	.31	12	28	3.3	.31	.06
2	.19	.40	.50	.26	.26	.27	.33	15	27	2.9	.29	.05
3	.49	.40	.50	.26	.26	.27	.35	19	28	2.6	.31	.05
4	.99	.41	.45	.26	.26	.27	.35	24	31	2.4	.25	.04
5	.63	.42	.45	.25	.26	.27	.35	21	29	2.6	.21	.04
6	.42	.42	.45	.25	.25	.27	.35	19	23	2.4	.21	.06
7	.35	.42	.45	.20	.23	.27	.35	19	21	2.0	.16	.06
8	.67	.42	.45	.22	.23	.27	.35	19	22	2.1	.18	.06
9	.48	.42	.45	.24	.23	.27	.35	16	22	1.9	.17	.06
10	.48	.42	.45	.26	.23	.27	.35	12	24	1.7	.12	.22
11	1.5	.42	.45	.26	.23	.27	.35	8.6	26	1.6	.14	.18
12	.81	.42	.45	.26	.24	.27	.35	8.0	25	1.4	.16	.12
13	.64	.40	.45	.26	.25	.27	.35	8.0	23	1.3	.17	.24
14	.61	.40	.45	.26	.25	.27	.40	11	23	1.1	.18	.21
15	.55	.40	.45	.26	.26	.27	.50	14	21	1.0	.14	.23
16	.61	.40	.45	.26	.26	.27	.70	16	19	.93	.10	.27
17	.57	.40	.40	.26	.27	.27	1.2	22	19	.85	.09	.18
18	.59	.45	.40	.26	.27	.27	1.8	30	16	.75	.08	.16
19	.58	.45	.40	.26	.27	.27	2.5	28	14	.70	.09	.15
20	.57	.45	.40	.26	.27	.27	2.4	23	13	.65	.06	.31
21	.55	.45	.40	.26	.27	.27	2.3	30	11	.60	.07	.19
22	.52	.45	.35	.26	.27	.27	2.3	37	9.6	.57	.07	.17
23	.49	.40	.32	.26	.27	.27	2.3	49	8.3	.53	.06	.13
24	.47	.40	.30	.26	.27	.27	2.3	47	7.1	.49	.06	.11
25	.43	.40	.30	.26	.27	.27	4.2	48	6.2	.48	.05	.18
26	.42	.40	.30	.26	.27	.27	5.8	57	5.4	.47	.06	1.1
27	.43	.45	.30	.26	.27	.27	6.7	64	4.7	.51	.05	1.2
28	.45	.50	.27	.26	.27	.27	9.2	52	4.0	.50	.05	.88
29	.45	.50	.27	.26	---	.27	9.5	37	3.6	.45	.07	.77
30	.40	.50	.27	.26	---	.29	9.5	32	3.6	.42	.15	.85
31	.40	---	.27	.26	---	.30	---	26	---	.37	.09	---
TOTAL	16.93	12.77	12.30	7.92	7.20	8.42	68.09	823.6	517.5	39.57	4.20	8.33
MEAN	.55	.43	.40	.26	.26	.27	2.27	26.6	17.3	1.28	.14	.28
MAX	1.5	.50	.50	.26	.27	.30	9.5	64	31	3.3	.31	1.2
MIN	.19	.40	.27	.20	.23	.27	.31	8.0	3.6	.37	.05	.04
AC-FT	34	25	24	16	14	17	135	1630	1030	78	8.3	17
CAL YR 1981	TOTAL	514.19	MEAN 1.41	MAX 15	MIN .09	AC-FT 1020						
WTR YR 1982	TOTAL	1526.83	MEAN 4.18	MAX 64	MIN .04	AC-FT 3030						

GREEN RIVER BASIN

09285000 STRAWBERRY RIVER NEAR SOLDIER SPRINGS, UTAH

LOCATION.--Lat 40°08'00", Long 111°01'27", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ 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 mi² (552 km²) includes approximately 170 mi² (440 km²) 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 hm³) since June 30, 1973; 283,000 acre-ft (349 hm³) prior to June 30, 1973. New earthfilled dam located 7 mi (11 km) below old dam was completed in September 1972 and storage began June 30, 1973. When elevation of the new reservoir reaches the elevation of the old reservoir, the old dam will be destroyed by explosives. Water Hollow tunnel will divert 600 ft³/s (17.0 m³/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 ft³/s (0.878 m³/s), 22,500 acre-ft/yr (27.7 hm³/yr) prior to completion of Soldier Creek Dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,020 ft³/s (28.9 m³/s) May 4, 1952, gage height, 3.84 ft (1.170 m), from rating curve extended above 550 ft³/s (15.6 m³/s); minimum daily, 0.23 ft³/s (0.007 m³/s) July and August 1973.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 25 ft³/s (0.71 m³/s) April 4-Sept. 30; minimum daily, 5.9 ft³/s (0.17 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	11	11	11	12	12	13	25	25	25	25	25
2	10	11	11	11	12	12	18	25	25	25	25	25
3	11	11	11	11	12	12	24	25	25	25	25	25
4	11	11	11	11	12	12	25	25	25	25	25	25
5	11	11	11	11	12	12	25	25	25	25	25	25
6	11	11	11	11	12	12	25	25	25	25	25	25
7	11	11	11	11	12	12	25	25	25	25	25	25
8	11	11	11	11	12	12	25	25	25	25	25	25
9	11	11	11	12	12	12	25	25	25	25	25	25
10	11	11	11	12	12	12	25	25	25	25	25	25
11	11	11	11	12	12	12	25	25	25	25	25	25
12	11	11	11	12	12	12	25	25	25	25	25	25
13	11	11	11	12	12	12	25	25	25	25	25	25
14	11	11	11	12	12	12	25	25	25	25	25	25
15	11	11	11	12	12	12	25	25	25	25	25	25
16	11	11	11	12	12	12	25	25	25	25	25	25
17	11	11	11	12	12	12	25	25	25	25	25	25
18	11	11	11	12	12	12	25	25	25	25	25	25
19	11	11	11	12	12	12	25	25	25	25	25	25
20	11	11	11	12	12	12	25	25	25	25	25	25
21	11	11	11	12	12	12	25	25	25	25	25	25
22	11	11	11	12	12	12	25	25	25	25	25	25
23	11	11	11	12	12	12	25	25	25	25	25	25
24	11	11	11	12	12	12	25	25	25	25	25	25
25	11	11	11	12	12	12	25	25	25	25	25	25
26	11	11	11	12	12	12	25	25	25	25	25	25
27	11	11	11	12	12	12	25	25	25	25	25	25
28	11	11	11	12	12	13	25	25	25	25	25	25
29	11	11	11	12	---	13	25	25	25	25	25	25
30	11	11	11	12	---	13	25	25	25	25	25	25
31	11	---	11	12	---	13	---	25	---	25	25	---
TOTAL	334.9	330	341	364	336	376	730	775	750	775	775	750
MEAN	10.8	11.0	11.0	11.7	12.0	12.1	24.3	25.0	25.0	25.0	25.0	25.0
MAX	11	11	11	12	12	13	25	25	25	25	25	25
MIN	5.9	11	11	11	12	12	13	25	25	25	25	25
AC-FT	664	655	676	722	666	746	1450	1540	1490	1540	1540	1490

CAL YR 1981 TOTAL 6302.9 MEAN 17.3 MAX 24 MIN 5.9 AC-FT 12500
WTR YR 1982 TOTAL 6636.9 MEAN 18.2 MAX 25 MIN 5.9 AC-FT 13160

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

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

DRAINAGE AREA.--50.1 mi² (129.8 km²).

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 fair. 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.--31 years (1945-68, 1975-82), 26.4 ft³/s (0.748 m³/s), 19,130 acre-ft/yr (23.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 946 ft³/s (26.8 m³/s) May 21, 1975, gage height, 5.58 ft (1.701 m); minimum, 0.7 ft³/s (0.020 m³/s) Sept. 8, 1959.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 150 ft³/s (4.25 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 4	2030	*587	16.6	5.02	1.530
May 23	2400	419	11.9	4.58	1.396

Minimum daily, 5.1 ft³/s (0.14 m³/s) Sept. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	12	9.4	11	12	13	12	339	195	63	16	11
2	6.6	14	10	10	11	14	12	412	185	53	15	11
3	9.1	13	11	10	11	13	12	446	180	49	16	11
4	16	10	11	12	11	13	12	439	179	46	15	11
5	11	12	11	12	9.0	13	12	387	175	46	14	11
6	9.5	12	12	12	9.0	12	12	303	161	45	13	12
7	10	13	12	11	10	12	11	300	147	41	13	11
8	13	13	11	11	11	12	12	306	135	42	13	11
9	11	11	11	12	11	12	12	264	131	41	13	12
10	10	9.2	11	13	11	12	15	230	132	40	12	14
11	32	12	12	13	11	13	14	198	133	39	11	16
12	21	12	11	13	11	13	41	190	126	37	13	12
13	15	11	11	12	11	13	58	198	117	39	12	14
14	13	15	11	12	11	13	64	224	108	37	13	16
15	12	15	11	12	12	13	62	264	109	34	12	12
16	15	13	11	12	13	13	63	270	103	33	11	5.1
17	15	12	10	12	13	13	54	306	105	30	13	5.8
18	15	14	10	12	13	12	53	329	108	30	11	6.6
19	13	13	11	12	12	12	42	318	100	28	11	7.5
20	13	13	12	11	12	12	38	278	101	27	11	7.4
21	12	13	13	11	13	12	39	288	96	26	11	7.4
22	12	13	13	10	13	12	48	289	104	24	11	7.9
23	13	13	9.0	11	14	12	77	299	103	23	12	8.2
24	12	13	10	12	13	12	121	343	103	23	10	32
25	11	13	12	12	13	13	155	311	91	23	10	57
26	11	11	13	12	13	14	174	326	87	22	10	31
27	10	10	12	11	13	13	207	341	80	23	9.8	31
28	10	9.0	12	11	13	14	242	311	77	23	10	21
29	16	9.0	11	11	---	13	281	240	69	22	12	21
30	14	9.0	12	11	---	13	275	218	59	20	11	29
31	12	---	13	12	---	12	---	201	---	18	11	---
TOTAL	399.3	362.2	349.4	359	330.0	393	2230	9168	3599	1047	375.8	462.9
MEAN	12.9	12.1	11.3	11.6	11.8	12.7	74.3	296	120	33.8	12.1	15.4
MAX	32	15	13	13	14	14	281	446	195	63	16	57
MIN	6.1	9.0	9.0	10	9.0	12	11	190	59	18	9.8	5.1
AC-FT	792	718	693	712	655	780	4420	18180	7140	2080	745	918
CAL YR 1981	TOTAL	5791.4	MEAN 15.9	MAX 62	MIN 4.8	AC-FT 11490						
WTR YR 1982	TOTAL	19075.6	MEAN 52.3	MAX 446	MIN 5.1	AC-FT 37840						

GREEN RIVER BASIN

09287500 WATER HOLLOW NEAR FRUITLAND, UTAH

LOCATION.--Lat 40°14'30", long 110°58'48", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ 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 mi² (35.7 km²).

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 ft³/s (0.57 m³/s) diverted at this point except for 0.5 ft³/s (0.014 m³/s), which is usually bypassed.

AVERAGE DISCHARGE.--25 years (1946-71), 5.71 ft³/s (0.162 m³/s), 4,140 acre-ft/yr (5.1 hm³/yr) prior to diversion to Water Hollow Tunnel. 10 years (1973-82), 1.31 ft³/s (0.037 m³/s), 949 acre-ft/yr (1.17 hm³/yr) since completion of Water Hollow Tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 133 ft³/s (3.77 m³/s) July 18, 1954, gage height, 3.24 ft (0.988 m), from rating curve extended above 56 ft³/s (1.59 m³/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, 5.4 ft³/s (0.153 m³/s) Apr. 12, gage height, 1.69 ft (0.515 m); minimum daily, 0.34 ft³/s (0.010 m³/s), Oct. 14, 22, 23, and Nov. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	.39	.44	.46	.42	.61	.74	1.6	2.1	1.1	.68	.44
2	.61	.39	.44	.46	.42	.73	.71	1.8	2.0	1.1	.64	.42
3	.44	.34	.44	.46	.42	.65	.74	3.1	1.9	.95	.67	.40
4	.73	.39	.44	.38	.42	.56	.81	3.3	1.8	.94	.66	.38
5	.80	.39	.44	.38	.41	.54	.72	2.7	1.8	1.0	.59	.42
6	.80	.44	.49	.38	.38	.51	.69	2.2	1.8	1.0	.51	.45
7	.55	.49	.43	.42	.38	.53	.69	1.9	1.7	.97	.52	.49
8	.87	.44	.45	.42	.38	.53	.69	1.8	1.7	1.0	.65	.50
9	.61	.44	.46	.42	.38	.61	.71	1.7	1.7	1.1	.75	.48
10	.44	.39	.47	.42	.38	.73	.78	1.9	1.6	.96	.65	.60
11	.95	.39	.45	.42	.38	.90	1.0	1.9	1.5	.91	.58	.74
12	.95	.39	.45	.42	.38	1.1	3.6	1.6	1.5	.99	.61	.58
13	.44	.44	.42	.42	.38	.79	2.8	1.6	1.5	.88	.64	1.0
14	.34	.55	.41	.42	.39	.78	2.7	1.5	1.6	.82	.71	.97
15	.39	.73	.47	.42	.42	.80	2.3	1.6	1.7	.77	.62	.75
16	.61	.55	.47	.42	.39	.76	1.8	1.5	1.5	.74	.58	.64
17	.73	.55	.38	.42	.50	.67	1.6	1.5	1.4	.73	.58	.56
18	.61	.49	.38	.44	.67	.63	1.7	1.6	1.5	.72	1.6	.53
19	.44	.44	.42	.42	.50	.63	1.5	1.8	1.4	.73	2.7	.58
20	.39	.39	.46	.42	.50	.61	1.2	1.8	1.3	.70	2.4	.80
21	.39	.44	.42	.43	.61	.62	1.1	1.8	1.4	.71	2.2	.67
22	.34	.44	.42	.45	.58	.61	1.3	1.8	1.4	.82	1.6	.61
23	.34	.49	.42	.42	.68	.57	1.6	1.8	1.2	.94	1.0	.57
24	.39	.55	.38	.42	.57	.59	1.8	1.9	1.2	.84	.73	.54
25	.39	.44	.38	.42	.54	.66	2.0	2.0	1.2	.79	.63	.61
26	.37	.39	.38	.42	.54	.76	2.0	2.1	1.2	.76	.59	1.2
27	.39	.44	.42	.42	.57	.80	1.9	2.1	1.1	1.0	.54	1.6
28	.39	.39	.42	.42	.62	.92	1.9	2.1	1.1	.98	.50	1.1
29	.39	.39	.42	.42	---	.93	1.8	2.1	.99	.88	.60	1.0
30	.44	.44	.46	.42	---	.73	1.7	2.2	1.0	.78	.52	2.0
31	.44	---	.46	.42	---	.75	---	2.1	---	.75	.45	---
TOTAL	16.77	13.43	13.39	13.08	13.14	21.61	44.58	60.4	44.79	27.36	26.70	21.63
MEAN	.54	.45	.43	.42	.47	.70	1.49	1.95	1.49	.88	.86	.72
MAX	.95	.73	.49	.46	.67	1.1	3.6	3.3	2.1	1.1	2.7	2.0
MIN	.34	.34	.38	.38	.38	.51	.69	1.5	.99	.70	.45	.38
AC-FT	33	27	27	26	26	43	88	120	89	54	53	43
CAL YR 1981	TOTAL	254.18	MEAN	.70	MAX	3.2	MIN	.19	AC-FT	504		
WTR YR 1982	TOTAL	316.88	MEAN	.87	MAX	3.6	MIN	.34	AC-FT	629		

09288000 CURRANT CREEK NEAR FRUITLAND, UTAH

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

DRAINAGE AREA.--140 mi² (363 km²).

PERIOD OF RECORD.--October 1934 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 6,670 ft (2,033 m) from topographic map. Aug. 6, 1952 to Nov. 8, 1966, water-stage recorder at site 150 ft (46 m) downstream at datum 1.30 ft (0.396 m) lower. See WSP 1733 for history of changes prior to Aug. 6, 1952.

REMARKS.--Records good. Currant Creek feeder canal, constructed by the Bureau of Reclamation in 1936, diverts water from headwaters of Currant Creek to Strawberry Reservoir, from which it is diverted through Strawberry tunnel to the Great Basin for irrigation in Strawberry Valley project. Since 1962, Deep Creek has been diverted intermittently into private fish ponds and enters Currant Creek 400 ft (122 m) below gage. Construction of Currant Creek dam began August 1974.

AVERAGE DISCHARGE.--48 years, 46.0 ft³/s (1.303 m³/s), 33,330 acre-ft/yr (41.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,260 ft³/s (35.7 m³/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 ft³/s (0.10 m³/s) Aug. 9, 10, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 200 ft³/s (5.66 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 3	0500	*702	19.9	3.47	1.058
May 18	0230	584	16.5	3.22	0.981

Minimum, 16 ft³/s (0.453 m³/s) Dec. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	27	25	26	27	32	35	395	199	79	36	28
2	21	27	28	22	28	34	32	509	175	75	35	28
3	22	28	28	26	28	32	32	579	178	71	35	28
4	27	27	27	28	24	32	34	494	192	66	35	28
5	29	27	26	29	22	30	31	494	188	66	35	28
6	26	27	26	29	25	30	34	353	182	67	33	29
7	25	27	27	26	27	30	32	344	166	59	33	29
8	28	27	26	28	28	30	31	371	154	59	35	29
9	29	27	26	30	27	30	32	344	151	59	35	29
10	27	26	27	31	28	31	32	299	146	56	34	31
11	46	26	27	31	28	34	36	270	143	53	32	34
12	48	26	26	30	26	37	66	250	140	52	32	33
13	39	27	27	29	27	33	80	258	130	49	33	37
14	37	28	27	28	28	34	86	278	125	49	33	39
15	33	30	27	28	29	37	86	353	125	47	33	37
16	35	30	25	28	31	39	79	353	114	44	31	31
17	36	28	23	28	31	33	75	473	114	43	32	29
18	36	28	24	29	31	33	79	459	118	42	33	28
19	35	27	30	27	29	32	68	400	114	40	34	28
20	32	27	29	27	30	31	62	317	109	38	31	30
21	31	28	31	27	31	30	58	339	105	36	30	29
22	30	28	25	25	32	31	64	362	107	36	30	29
23	30	28	21	27	34	31	84	348	105	38	30	28
24	30	28	25	30	32	31	130	405	105	38	30	34
25	29	28	30	29	32	31	169	376	103	37	29	65
26	29	24	27	29	32	33	191	371	97	36	28	65
27	29	24	29	27	33	34	222	430	93	46	28	70
28	27	24	25	27	31	34	258	430	88	43	29	50
29	28	25	29	29	---	36	335	295	83	43	30	46
30	30	24	30	28	---	33	326	266	78	42	30	72
31	29	---	28	30	---	32	---	206	---	38	29	---
TOTAL	954	808	831	868	811	1010	2879	11421	3927	1547	993	1101
MEAN	30.8	26.9	26.8	28.0	29.0	32.6	96.0	368	131	49.9	32.0	36.7
MAX	48	30	31	31	34	39	335	579	199	79	36	72
MIN	21	24	21	22	22	30	31	206	78	36	28	28
AC-FT	1890	1600	1650	1720	1610	2000	5710	22650	7790	3070	1970	2180

CAL YR 1981	TOTAL	12464	MEAN	34.1	MAX	84	MIN	17	AC-FT	24720
WTR YR 1982	TOTAL	27150	MEAN	74.4	MAX	579	MIN	21	AC-FT	53850

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.98	2.3	1.6	1.5	2.3	7.2	11	82	110	24	9.8	4.6
2	.97	2.5	1.4	1.4	2.2	8.2	10	93	100	23	7.2	4.4
3	1.1	2.5	1.4	1.4	2.3	7.8	11	110	96	21	8.0	4.4
4	2.1	2.4	1.5	1.4	2.1	7.3	11	132	94	20	7.2	4.4
5	1.6	2.4	1.5	1.5	1.7	6.5	9.8	172	80	20	6.5	4.4
6	1.5	2.5	1.4	1.4	1.6	6.6	11	81	72	19	7.2	4.6
7	1.3	2.5	1.4	1.3	1.6	6.8	11	75	64	17	6.8	4.6
8	1.4	2.5	1.4	1.3	1.7	7.3	9.5	70	59	17	7.6	4.1
9	1.3	2.4	1.3	1.4	1.7	7.4	10	70	58	17	7.6	3.9
10	1.2	2.4	1.4	1.6	1.6	7.8	11	75	58	16	6.8	4.1
11	5.4	2.3	1.4	2.0	1.6	8.1	11	59	53	16	6.5	3.9
12	3.4	2.4	1.4	2.0	1.6	8.1	24	51	51	15	6.5	3.6
13	3.1	2.5	1.4	2.0	1.6	7.6	22	44	51	14	7.2	4.4
14	2.9	2.5	1.4	2.0	1.6	7.9	24	40	51	13	7.6	3.9
15	2.9	2.4	1.4	2.0	1.6	8.0	27	37	51	11	6.8	3.9
16	3.3	2.5	1.4	2.1	1.7	8.0	26	36	50	10	6.8	3.4
17	3.3	2.5	1.4	2.1	1.7	8.2	29	42	48	10	8.0	3.4
18	3.3	2.4	1.4	2.1	1.7	8.6	30	59	48	9.4	7.2	3.2
19	3.3	1.5	1.4	2.1	1.7	8.3	29	92	46	9.1	6.8	3.2
20	3.2	1.4	1.4	2.1	1.9	8.0	31	100	46	8.6	6.5	3.2
21	3.1	1.4	1.6	2.1	2.5	7.5	30	110	42	8.3	6.5	2.8
22	3.1	1.4	1.6	2.1	2.8	8.0	27	120	40	8.1	12	2.8
23	3.0	1.4	1.4	2.2	4.2	8.4	27	130	37	8.7	9.3	2.8
24	3.0	1.5	1.4	2.3	3.8	9.1	28	160	34	8.0	7.2	2.6
25	3.0	1.5	1.5	2.3	4.8	9.3	30	175	33	7.4	6.5	3.0
26	2.9	1.4	1.5	2.3	5.9	10	35	190	31	18	6.5	12
27	3.0	1.3	1.4	2.3	6.8	10	42	200	28	12	6.5	11
28	2.8	1.3	1.4	2.3	7.1	12	49	190	27	12	6.5	6.8
29	3.0	1.4	1.4	2.2	---	11	59	170	25	12	6.2	7.2
30	2.8	1.4	1.4	2.3	---	11	69	150	25	13	5.5	16
31	2.1	---	1.5	2.3	---	9.9	---	125	---	11	4.9	---
TOTAL	79.35	60.8	44.4	59.4	73.4	259.9	754.3	3240	1608	428.6	222.2	146.6
MEAN	2.56	2.03	1.43	1.92	2.62	8.38	25.1	105	53.6	13.8	7.17	4.89
MAX	5.4	2.5	1.6	2.3	7.1	12	69	200	110	24	12	16
MIN	.97	1.3	1.3	1.3	1.6	6.5	9.5	36	25	7.4	4.9	2.6
AC-FT	157	121	88	118	146	516	1500	6430	3190	850	441	291
CAL YR 1981	TOTAL	2093.62		MEAN 5.74	MAX 38	MIN .97	AC-FT 4150					
WTR YR 1982	TOTAL	6976.95		MEAN 19.1	MAX 200	MIN .97	AC-FT 13840					

09288180 STRAWBERRY RIVER NEAR DUCHESNE, UTAH

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

DRAINAGE AREA.--917 mi² (2,375 km²) (includes approximately 170 mi² (440 km²) tributary to Strawberry Reservoir).

PERIOD OF RECORD.--May 1968 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,722 ft (1,744 m) (Rabbit Gulch Quadrangle which gives bridge elevation).

REMARKS.--Records good. Flow regulated by Strawberry Reservoir since July 14, 1912. Capacity, 1,106,500 acre-ft (1,364 hm³) since June 30, 1973; 283,000 acre-ft (349 hm³) 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 ft³/s (17.0 m³/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.--14 years, 130 ft³/s (3.68 m³/s), 94,180 acre-ft/yr (116 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,310 ft³/s (37.1 m³/s) May 18, 1973, gage height, 6.30 ft (1.920 m); minimum recorded, 17 ft³/s (0.481 m³/s) June 20, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 700 ft³/s (19.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	(m ³ /s)	Gage height (ft)	(m)
May 5	1500	*1130	32.0	6.09	1.856
May 28	1700	1100	31.2	*6.33	1.929

Minimum daily, 60 ft³/s (1.70 m³/s) Jan. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	79	72	60	76	109	111	608	686	209	135	99
2	65	80	72	65	72	113	104	713	646	203	128	97
3	70	81	74	73	74	117	108	840	611	193	132	97
4	82	81	73	75	70	105	113	942	589	187	125	95
5	83	79	72	77	63	97	107	1020	567	185	117	96
6	76	79	73	72	62	95	114	928	547	185	116	102
7	74	80	74	70	70	94	111	827	512	173	114	101
8	75	80	74	76	78	98	105	777	484	168	136	103
9	78	79	74	78	80	96	107	733	455	176	138	102
10	77	79	76	80	78	104	108	686	437	173	118	102
11	109	78	75	80	80	109	116	616	425	170	112	115
12	121	80	73	78	78	119	148	544	402	167	111	114
13	96	80	75	75	76	105	185	508	380	157	111	127
14	88	80	73	73	80	109	195	490	366	151	123	144
15	83	85	72	73	84	116	211	508	365	146	120	138
16	97	85	71	72	90	119	194	522	351	140	121	132
17	92	83	65	74	94	109	195	578	329	131	121	122
18	85	83	64	72	94	105	200	659	331	123	119	115
19	83	79	94	72	94	101	190	725	332	121	118	114
20	80	77	80	70	90	97	176	740	323	128	115	134
21	81	81	80	70	94	90	170	749	305	118	115	117
22	79	81	72	68	100	92	177	811	293	119	138	112
23	77	83	72	66	106	96	192	836	281	118	106	107
24	76	82	76	74	110	99	227	904	274	120	98	103
25	76	81	76	80	106	98	274	953	263	121	104	119
26	74	72	72	75	106	101	313	940	246	122	125	159
27	74	67	78	74	109	108	359	982	241	157	112	189
28	73	68	70	72	112	107	421	1050	234	145	106	135
29	74	66	78	70	---	116	529	960	217	147	107	120
30	81	68	76	74	---	107	570	848	204	174	106	241
31	82	---	70	78	---	99	---	758	---	145	102	---
TOTAL	2530	2356	2296	2266	2426	3230	6130	23755	11696	4772	3649	3651
MEAN	81.6	78.5	74.1	73.1	86.6	104	204	766	390	154	118	122
MAX	121	85	94	80	112	119	570	1050	686	209	138	241
MIN	65	66	64	60	62	90	104	490	204	118	98	95
AC-FT	5020	4670	4550	4490	4810	6410	12160	47120	23200	9470	7240	7240

CAL YR 1981	TOTAL	33088	MEAN	90.7	MAX	195	MIN	45	AC-FT	65630
WTR YR 1982	TOTAL	68757	MEAN	188	MAX	1050	MIN	60	AC-FT	136400

09288900 SOWERS CREEK NEAR DUCHESNE, UTAH

LOCATION.--Lat 39°59'22", long 110°27'33", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ 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 mi² (105 km²).

PERIOD OF RECORD.--May 1964 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,800 ft (2,073 m) from topographic map.

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

AVERAGE DISCHARGE.--18 years, 3.79 ft³/s (0.107 m³/s), 2,750 acre-ft/yr (3.39 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 350 ft³/s (9.91 m³/s) July 24, 1974, gage height, 6.59 ft (2.009 m), from rating curve extended above 42 ft³/s (1.19 m³/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 daily discharge, 12 ft³/s (0.34 m³/s) May 7-15, no peak above base of 35 ft³/s (0.99 m³/s); minimum, 0.40 ft³/s (0.011 m³/s) Dec. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.97	1.5	.90	1.4	1.4	2.3	2.2	8.6	8.4	6.7	5.1	3.6
2	1.0	1.4	1.0	1.4	1.3	2.5	2.2	9.9	8.3	6.6	5.1	3.6
3	1.1	1.4	1.1	1.5	1.3	2.1	2.2	10	8.2	6.5	5.0	3.5
4	1.3	1.4	1.1	1.5	1.3	1.7	2.2	10	8.1	6.4	4.8	3.5
5	1.2	1.4	1.0	1.6	1.3	1.9	2.1	11	8.1	7.0	4.7	3.6
6	1.1	1.4	1.0	1.4	1.3	2.2	2.1	11	7.9	6.7	4.6	3.6
7	1.1	1.5	1.0	1.4	1.2	1.9	2.2	12	7.8	6.5	4.7	3.6
8	1.2	1.4	1.0	1.3	1.2	1.7	2.1	12	7.6	6.5	4.7	3.9
9	1.1	1.4	1.0	1.3	1.2	1.7	2.2	12	7.5	6.4	4.8	3.6
10	1.1	1.4	1.0	1.3	1.2	1.8	2.3	12	7.4	6.2	4.7	4.0
11	2.6	1.4	1.1	1.4	1.2	2.0	2.5	12	7.2	6.4	4.6	3.8
12	1.8	1.4	1.2	1.4	1.2	1.9	4.2	12	7.2	6.3	4.5	3.7
13	1.8	1.4	1.2	1.4	1.2	1.7	4.9	12	7.1	6.1	4.5	4.4
14	1.5	1.5	1.3	1.5	1.2	2.0	5.1	12	7.2	6.0	4.4	3.9
15	1.7	1.4	1.3	1.4	1.3	2.6	5.3	12	7.4	5.9	4.5	4.0
16	1.8	1.4	1.2	1.4	1.3	2.1	4.5	11	7.6	5.7	4.7	3.7
17	1.6	1.5	1.1	1.4	1.3	2.1	4.2	10	7.5	5.6	4.5	3.6
18	1.5	1.5	1.2	1.4	1.3	2.0	4.7	9.8	7.5	5.5	4.2	3.5
19	1.5	1.1	1.4	1.4	1.2	1.8	4.8	9.2	7.3	5.5	4.1	3.8
20	1.5	1.1	1.5	1.4	1.6	2.2	4.8	8.8	7.4	5.6	4.2	3.9
21	1.5	1.1	1.3	1.2	2.0	2.4	5.0	8.9	7.4	5.5	4.3	3.6
22	1.4	1.2	1.2	1.4	2.2	2.5	5.3	8.9	7.4	5.2	4.5	3.4
23	1.4	1.2	1.2	1.6	2.0	2.2	5.8	8.7	7.5	5.1	4.2	3.3
24	1.4	1.2	1.2	1.5	1.8	1.9	6.1	8.7	7.3	5.1	4.1	3.3
25	1.4	1.2	1.3	1.5	1.9	1.9	6.4	8.7	7.3	5.0	4.0	3.5
26	1.4	1.1	1.4	1.4	2.0	2.1	6.9	8.5	7.0	5.1	4.0	3.8
27	1.4	1.0	1.3	1.3	2.1	2.0	7.4	8.7	6.8	5.6	4.1	4.3
28	1.4	.90	1.2	1.3	2.2	2.3	7.8	8.3	6.7	5.6	3.9	4.2
29	1.9	.90	1.3	1.4	---	2.2	8.1	8.4	6.6	6.3	3.9	4.5
30	1.5	.90	1.4	1.3	---	1.8	8.3	8.6	6.8	5.8	3.8	6.4
31	1.4	---	1.4	1.4	---	2.4	---	8.3	---	5.3	3.7	---
TOTAL	44.57	38.60	36.80	43.5	41.7	63.9	133.9	312.0	223.5	183.7	136.9	115.1
MEAN	1.44	1.29	1.19	1.40	1.49	2.06	4.46	10.1	7.45	5.93	4.42	3.84
MAX	2.6	1.5	1.5	1.6	2.2	2.6	8.3	12	8.4	7.0	5.1	6.4
MIN	.97	.90	.90	1.2	1.2	1.7	2.1	8.3	6.6	5.0	3.7	3.3
AC-FT	88	77	73	86	83	127	266	619	443	364	272	228

CAL YR 1981 TOTAL 686.00 MEAN 1.88 MAX 4.0 MIN .89 AC-FT 1360
WTR YR 1982 TOTAL 1374.17 MEAN 3.76 MAX 12 MIN .90 AC-FT 2730

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

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

DRAINAGE AREA.--77.9 mi² (202 km²).

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 Nov. 26 to May 1, which are fair.

AVERAGE DISCHARGE.--32 years (water years 1943-55, 1964-82), 111 ft³/s (3.144 m³/s), 80,420 acre-ft/yr (99.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,700 ft³/s (76.5 m³/s) June 26, 1944, gage height, 5.27 ft (1.606 m), present datum, from rating curve extended above 700 ft³/s (19.8 m³/s); minimum daily recorded, 13 ft³/s (0.37 m³/s) Apr. 14, 1933.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,050 ft³/s (29.7 m³/s) June 28, gage height, 3.56 ft (1.085 m) and peak above base of 1,000 ft³/s (28.3 m³/s); minimum daily, 17 ft³/s (0.48 m³/s) Feb. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	42	39	25	24	24	29	120	406	637	169	74
2	42	41	38	25	24	21	28	124	416	501	166	69
3	47	41	37	24	23	23	28	148	470	490	165	65
4	52	40	35	25	17	24	28	162	542	465	144	63
5	51	40	34	25	18	25	29	158	450	393	133	68
6	50	40	34	26	20	25	30	138	355	300	125	69
7	51	40	34	26	24	24	28	127	339	290	118	95
8	58	39	34	26	24	24	29	113	343	291	120	73
9	51	38	33	26	24	25	30	103	371	285	121	66
10	49	37	33	26	24	25	31	97	470	273	109	76
11	57	37	34	25	24	25	31	87	586	268	105	82
12	53	37	34	25	24	26	31	82	653	262	105	69
13	53	37	34	25	25	26	35	78	641	256	99	75
14	53	38	33	25	24	25	37	78	596	250	98	76
15	52	38	31	24	24	25	38	91	491	244	97	80
16	53	37	29	24	24	24	38	111	593	229	106	99
17	52	37	27	24	25	25	38	143	732	211	132	89
18	52	37	30	24	25	26	37	172	760	200	102	78
19	52	39	32	23	25	27	37	188	700	190	109	82
20	51	40	30	24	25	29	39	180	724	185	126	116
21	51	37	26	24	25	30	42	205	710	178	128	97
22	49	36	21	25	25	31	48	247	754	178	128	87
23	48	36	23	26	25	31	54	293	730	182	119	84
24	46	36	27	26	25	32	62	371	640	178	110	80
25	46	35	29	26	25	30	68	420	660	190	104	99
26	45	33	28	26	25	29	73	547	628	220	100	318
27	45	30	28	25	25	28	74	683	687	279	98	536
28	44	33	28	24	25	28	82	695	755	219	106	328
29	46	38	28	24	---	29	89	596	693	240	102	265
30	43	41	27	24	---	29	100	476	626	219	91	217
31	46	---	27	24	---	30	---	384	---	183	82	---
TOTAL	1530	1130	957	771	667	825	1343	7417	17521	8486	3617	3675
MEAN	49.4	37.7	30.9	24.9	23.8	26.6	44.8	239	584	274	117	123
MAX	58	42	39	26	25	32	100	695	760	637	169	536
MIN	42	30	21	23	17	21	28	78	339	178	82	63
AC-FT	3030	2240	1900	1530	1320	1640	2660	14710	34750	16830	7170	7290
CAL YR 1981	TOTAL	33002	MEAN	90.4	MAX	1030	MIN	21	AC-FT	65460		
WTR YR 1982	TOTAL	47939	MEAN	131	MAX	760	MIN	17	AC-FT	95090		

09290500 MOON LAKE RESERVOIR NEAR MOUNTAIN HOME, UTAH

LOCATION.--Lat 40°33'43", long 110°29'21", in NW¼NE¼ 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 mi² (280 km²).

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

REVISED RECORDS.--WDR UT-77-1: 1975.

GAGE.--Nonrecording gage read once daily on days shown. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir formed by earthfill, rock-faced dam with concrete core. Storage began Dec. 9, 1937. Capacity, 35,760 acre-ft (44.1 hm³) 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 hm³). Total dead storage, 13,740 acre-ft (16.9 hm³). Figures given herein represent usable contents. Water is used for irrigation on lands under Moon Lake Water Users Association and Uintah Indian Irrigation projects.

COOPERATION.--Capacity table furnished by Bureau of Reclamation. Gage heights furnished by Moon Lake Water Users Association.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 37,560 acre-ft (46.3 hm³) July 10, 11, 1950; elevation, 8,139.30 ft (2,480.859 m); minimum observed, 226 acre-ft (279,000 m³) Sept. 30, 1946.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 35,760 acre-ft (44.1 hm³) June 23 and 30; elevation, 8,137.0 ft (2,480.158 m); minimum contents observed, 7,760 acre-ft (9.57 hm³) Oct. 16, elevation, 8,092.7 ft (2,466.655 m).

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

8,090	6,490	8,120	23,470
8,100	11,470	8,130	30,490
8,110	17,130	8,140	38,110

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	19960	18280	16770	35760	---	---
2	---	---	---	---	---	---	---	---	---	35760	---	---
3	---	---	---	---	---	---	---	17730	17550	35760	34150	---
4	---	---	---	---	---	---	---	---	---	35760	---	---
5	---	---	---	---	---	---	---	---	---	35760	---	---
6	---	---	---	---	---	18470	---	---	19780	35760	---	25440
7	---	---	---	---	---	---	---	16830	---	35760	---	---
8	---	---	---	---	---	---	---	---	---	35760	---	---
9	---	10470	---	---	---	---	---	---	---	35760	---	---
10	---	---	---	---	---	---	---	---	---	35760	32710	---
11	---	---	---	---	---	---	---	---	---	35760	---	---
12	8000	---	---	---	---	---	---	14440	23670	35760	---	---
13	---	---	---	---	---	---	---	---	---	35760	32120	---
14	---	---	---	---	---	---	21110	---	25300	35760	---	23070
15	---	---	---	---	---	---	---	---	---	35760	---	---
16	7760	---	---	---	---	---	---	12280	---	35760	31370	---
17	---	---	---	---	---	---	---	---	27820	35760	---	---
18	---	---	---	---	---	---	---	---	29680	35760	---	---
19	---	---	---	---	---	---	---	---	30410	35760	---	---
20	---	---	---	---	---	---	---	10470	---	35760	---	---
21	---	---	---	---	---	---	---	---	33240	35760	---	---
22	---	---	---	---	---	---	---	---	34380	35760	---	---
23	---	---	---	---	---	---	---	10050	35760	34990	---	---
24	---	---	---	---	---	---	---	10410	35760	---	29830	---
25	---	---	---	---	---	---	---	---	35760	---	---	---
26	---	---	---	---	---	---	---	---	35760	---	---	---
27	---	---	---	---	---	---	---	---	35760	34300	---	23610
28	---	---	---	---	a18040	---	---	13990	35760	---	28460	---
29	---	---	---	---	---	---	---	---	35760	---	---	24960
30	---	12280	---	16540	---	---	18280	---	a35760	34230	---	a25640
31	a9320	---	14560	16540	---	a19960	---	a16100	---	a34210	a27500	---
(‡)	+2740	+2960	+2280	+1980	+1500	+1920	-1680	-2180	+19660	-1550	-6710	-1860

CAL YR 1981 (‡) +910

WTR YR 1982 (‡) +19060

(‡) 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 SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ 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 mi² (290 km²).

PERIOD OF RECORD.--September 1921 to September 1934 (fragmentary), April 1942 to current year. Published as West Fork of Lake Fork near Mountain Home 1921-34, and as Lake Fork below Moon Lake, near Mountain Home 1942-65.

REVISED RECORDS.--WSP 1313: 1930 (M). WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,970 ft (2,429 m) by barometer. Prior to April 1942, at dam-site 2,000 ft (610 m) upstream at different datum.

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

AVERAGE DISCHARGE.--40 years (1942-1982), 125 ft³/s (3.540 m³/s) 90,560 acre-ft/yr (112 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 2,180 ft³/s (61.7 m³/s) June 19, 1949, from rating curve extended above 860 ft³/s (24.4 m³/s); maximum gage height, 5.46 ft (1.664 m) June 26, 1944; no flow at times when reservoir gates are closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 982 ft³/s (27.8 m³/s) June 28, gage height, 3.72 ft (1.134 m); no flow most of the year when reservoir gates were closed.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	295	231	785	234	289
2	.00	.00	.00	.00	.00	.00	.00	344	233	738	235	286
3	.00	.00	.00	.00	.00	.00	.00	345	233	716	234	284
4	.00	.00	.00	.00	.00	.00	.00	298	233	679	234	281
5	.00	.00	.00	.00	.00	.00	.00	300	235	529	234	278
6	.00	.00	.00	.00	.00	.00	.00	299	233	328	233	276
7	.00	.00	.00	.00	.00	.00	.00	334	230	252	232	274
8	.00	.00	.00	.00	.00	.00	.00	349	230	253	231	271
9	.00	.00	.00	.00	.00	.00	.00	347	232	254	230	268
10	.00	.00	.00	.00	.00	.00	.00	345	232	254	230	264
11	.00	.00	.00	.00	.00	.00	.00	346	233	255	229	260
12	36	.00	.00	.00	.00	.00	.00	348	233	258	229	261
13	106	.00	.00	.00	.00	.00	.00	374	237	259	228	260
14	109	.00	.00	.00	.00	.00	.00	370	236	271	228	189
15	106	.00	.00	.00	.00	.00	.00	368	236	316	227	163
16	59	.00	.00	.00	.00	.00	.00	375	237	314	238	163
17	.00	.00	.00	.00	.00	.00	.00	436	237	312	256	163
18	.00	.00	.00	.00	.00	.00	.00	432	222	317	255	163
19	.00	.00	.00	.00	.00	.00	17	430	190	341	253	162
20	.00	.00	.00	.00	.00	.00	76	420	205	311	253	162
21	.00	.00	.00	.00	.00	.00	78	381	207	309	252	162
22	.00	.00	.00	.00	.00	.00	77	380	208	307	252	161
23	.00	.00	.00	.00	.00	.00	122	340	295	305	250	161
24	.00	.00	.00	.00	.00	.00	150	284	662	305	285	161
25	.00	.00	.00	.00	.00	.00	159	210	400	305	299	160
26	.00	.00	.00	.00	.00	.00	186	214	413	305	298	161
27	.00	.00	.00	.00	.00	.00	197	217	496	305	295	112
28	.00	.00	.00	.00	.00	.00	230	223	816	305	295	78
29	.00	.00	.00	.00	---	.00	272	227	896	286	295	79
30	.00	.00	.00	.00	---	.00	297	228	824	234	291	79
31	.00	---	.00	.00	---	.00	---	230	---	236	291	---
TOTAL	416.00	.00	.00	.00	.00	.00	1861.00	10089	9805	10944	7826	6031
MEAN	13.4	.000	.000	.000	.000	.000	62.0	325	327	353	252	201
MAX	109	.00	.00	.00	.00	.00	297	436	896	785	299	289
MIN	.00	.00	.00	.00	.00	.00	.00	210	190	234	227	78
AC-FT	825	.00	.00	.00	.00	.00	3690	20010	19450	21710	15520	11960

CAL YR 1981 TOTAL 36592.10 MEAN 100 MAX 446 MIN .00 AC-FT 72580
WTR YR 1982 TOTAL 46972.00 MEAN 129 MAX 896 MIN .00 AC-FT 93170

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

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

DRAINAGE AREA.--138 mi² (357 km²).

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 and no gage-height record, Feb. 6 to Mar. 18, which are fair. Flow regulated by Moon Lake Reservoir (see station 09290500).

AVERAGE DISCHARGE.--6 years, 79.1 ft³/s (2.240 m³/s), 57,310 acre-ft/yr (70.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,220 ft³/s (34.6 m³/s) June 22, 1980, gage height, 5.02 ft (1.530 m); minimum daily, 3.1 ft³/s (0.088 m³/s) Jan. 1, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 878 ft³/s (24.9 m³/s) June 28, gage height, 4.68 ft (1.426 m); minimum daily, 4.9 ft³/s (0.14 m³/s) Dec. 17, Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	8.7	5.5	6.0	6.0	6.7	7.4	158	37	681	214	201
2	10	8.7	6.0	6.0	6.2	6.5	9.4	191	37	636	214	198
3	11	8.7	7.0	5.6	6.2	5.3	7.2	214	38	618	210	194
4	11	8.7	7.8	5.4	6.0	6.0	7.4	160	38	571	207	191
5	11	8.7	7.1	5.7	5.0	7.0	8.1	158	39	440	204	188
6	11	8.7	6.9	6.0	4.9	6.6	7.2	160	38	227	204	185
7	10	8.7	6.8	6.0	5.9	6.5	7.0	185	35	117	198	182
8	11	8.4	6.8	5.9	6.1	6.4	8.5	214	33	124	198	182
9	10	8.3	6.7	5.8	5.8	6.7	7.8	214	34	142	198	180
10	10	8.1	6.6	5.8	5.8	6.9	8.3	214	34	140	194	177
11	14	8.1	6.6	5.8	5.8	6.8	8.3	214	36	140	191	174
12	13	8.1	6.3	5.8	6.1	6.4	12	214	38	142	189	171
13	11	8.3	5.9	5.8	6.3	6.4	12	242	41	142	184	180
14	11	8.5	6.1	5.9	6.2	6.6	11	245	43	148	183	117
15	10	8.5	6.4	6.0	6.2	6.7	10	242	42	201	182	78
16	12	8.4	6.0	6.0	6.2	6.7	9.2	238	43	194	183	75
17	11	8.3	4.9	5.9	6.3	6.7	8.7	305	45	188	205	74
18	11	8.1	7.0	5.8	6.4	6.7	8.3	300	44	182	201	73
19	10	7.0	6.6	5.6	6.4	7.3	8.1	309	33	245	198	73
20	9.7	6.8	6.2	5.6	6.4	8.7	7.8	296	40	276	194	77
21	9.4	7.9	6.2	5.8	6.4	9.4	18	252	50	273	191	73
22	9.2	7.9	5.8	5.8	6.4	10	10	252	52	272	183	73
23	9.2	7.9	6.4	5.8	6.4	9.2	10	220	84	270	171	75
24	9.2	8.1	6.2	5.6	6.3	7.8	12	174	552	268	191	72
25	9.2	8.1	6.3	5.8	6.2	8.3	18	62	284	265	214	72
26	8.9	6.0	6.2	6.0	6.4	8.5	42	36	280	261	210	80
27	8.9	7.6	6.0	5.9	6.6	7.8	51	33	327	263	210	66
28	8.9	7.8	6.2	6.2	6.7	8.3	126	32	681	265	210	32
29	9.4	7.8	6.0	5.9	---	8.3	135	34	780	263	214	26
30	9.2	7.4	6.0	6.0	---	7.6	148	36	690	204	207	35
31	9.4	---	6.0	5.9	---	8.1	---	36	---	214	204	---
TOTAL	318.6	242.3	196.5	181.1	171.6	226.9	743.7	5640	4548	8372	6156	3574
MEAN	10.3	8.08	6.34	5.84	6.13	7.32	24.8	182	152	270	199	119
MAX	14	8.7	7.8	6.2	6.7	10	148	309	780	681	214	201
MIN	8.9	6.0	4.9	5.4	4.9	5.3	7.0	32	33	117	171	26
AC-FT	632	481	390	359	340	450	1480	11190	9020	16610	12210	7090

CAL YR 1981 TOTAL 28914.7 MEAN 79.2 MAX 432 MIN 4.5 AC-FT 57350
WTR YR 1982 TOTAL 30370.7 MEAN 83.2 MAX 780 MIN 4.9 AC-FT 60240

09292500 YELLOWSTONE RIVER NEAR ALTONAH, UTAH

LOCATION.--Lat 40°30'43", long 110°20'27", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ 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 mi² (342 km²).

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 fair. Some diurnal fluctuation caused by powerplant 1.5 mi (2.4 km) upstream.

AVERAGE DISCHARGE.--38 years, 136 ft³/s (3.852 m³/s), 98,530 acre-ft/yr (121 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,880 ft³/s (53.2 m³/s) June 19, 1949, gage height, 4.55 ft (1.387 m); minimum daily, 25 ft³/s (0.71 m³/s) Nov. 28, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 700 ft³/s (19.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 28	0100	832	23.6	2.59	0.789
June 18	0300	1,050	29.7	*2.86	.872
Sept. 27	0300	*1,060	30.0	2.79	.850

Minimum daily, 30 ft³/s (0.85 m³/s) Jan. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	83	71	46	42	37	43	103	450	681	225	127
2	69	81	70	44	42	37	45	122	488	501	212	123
3	80	77	69	41	42	37	45	149	523	473	233	123
4	84	77	66	42	40	37	44	158	579	457	201	120
5	79	77	63	43	32	36	46	156	507	427	177	121
6	77	76	60	37	34	37	44	135	421	347	173	131
7	76	76	60	30	38	39	43	132	416	314	160	157
8	91	74	60	32	41	38	46	126	423	304	155	139
9	86	73	58	33	40	38	48	118	451	307	165	131
10	80	73	59	34	39	40	49	116	538	299	151	129
11	97	73	58	35	38	41	46	110	604	291	149	140
12	96	71	59	36	37	41	58	104	700	311	170	130
13	96	71	59	37	37	41	59	101	700	296	168	142
14	94	72	62	38	37	40	61	98	637	287	165	140
15	88	71	56	39	37	42	60	103	542	278	163	142
16	96	70	53	39	38	43	56	110	634	265	153	150
17	93	70	45	40	38	43	55	126	825	247	154	155
18	92	64	53	40	37	42	57	151	920	233	147	141
19	89	64	59	40	36	44	54	183	789	223	151	139
20	89	68	57	40	35	50	52	174	818	228	141	183
21	89	69	56	41	36	55	53	187	774	231	157	170
22	86	68	54	42	38	55	52	232	720	217	167	163
23	84	67	50	43	38	53	57	269	756	218	152	156
24	84	69	49	44	37	49	62	355	598	225	138	157
25	81	67	50	45	35	48	70	420	650	226	136	198
26	83	66	47	44	35	45	71	511	576	248	142	353
27	82	63	48	42	36	45	71	625	685	317	146	748
28	80	56	45	41	37	46	81	690	744	308	153	493
29	86	60	39	41	---	46	95	566	705	278	160	414
30	81	65	44	41	---	45	97	495	616	331	145	380
31	78	---	47	42	---	48	---	415	---	256	135	---
TOTAL	2633	2111	1726	1232	1052	1338	1720	7340	18789	9624	5044	5995
MEAN	84.9	70.4	55.7	39.7	37.6	43.2	57.3	237	626	310	163	200
MAX	97	83	71	46	42	55	97	690	920	681	233	748
MIN	67	56	39	30	32	36	43	98	416	217	135	120
AC-FT	5220	4190	3420	2440	2090	2650	3410	14560	37270	19090	10000	11890
CAL YR 1981 TOTAL	39774											
WTR YR 1982 TOTAL	58604											
MEAN 109												
MAX 926												
MIN 37												
AC-FT 78890												
AC-FT 116200												

NOTE.--No gage-height record Dec. 31 to Mar. 18.

GREEN RIVER BASIN

09295000 DUCHESNE RIVER AT MYTON, UTAH

LOCATION.--Lat 40°12'01", long 110°03'47", in NE¼NW¼ 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 mi² (6,845 km²).

PERIOD OF RECORD.--October 1899 to December 1902, April to December 1903, March to December 1904, March to July and September to November 1905, April to July 1906, April to December 1907, March to December 1908, April to December 1909, March to November 1910, July 1911 to current year. Published as "at Price road bridge" 1899-1902.

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

GAGE.--Water-stage recorder. Datum of gage is 5,061.40 ft (1,542.715 m) NGVD of 1929. Prior to Oct. 14, 1933, nonrecording gages at several sites within 0.5 mi (0.8 km) of present site at various datums.

AVERAGE DISCHARGE.--74 years (1899-1902, 1911-1982), 503 ft³/s (14.24 m³/s), 364,400 acre-ft/yr (449 hm³/yr).

REMARKS.--Records good. Flow regulated by several reservoirs. Large diversions above station for irrigation, including transmountain diversions to the Great Basin through Duchesne and Strawberry tunnels, Hobbie Creek ditch, and Strawberry River and Willow Creek ditch.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 12,800 ft³/s (362 m³/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 ft³/s (227 m³/s); minimum, less than 1 ft³/s (0.028 m³/s) July 16, 1931, and for several days in August and September 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,010 ft³/s (85.2 m³/s) June 29, gage height, 5.98 ft (1.823 m); minimum, 26 ft³/s (0.736 m³/s) Oct. 25, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	42	226	326	410	452	358	561	1670	2340	195	105
2	34	42	225	290	410	456	359	646	1540	2020	183	88
3	40	45	273	249	350	462	354	797	1280	1650	221	91
4	62	48	261	243	310	432	352	846	1390	1490	151	87
5	58	51	247	292	290	410	347	749	1490	1350	107	92
6	46	47	234	303	300	400	343	669	1420	1160	59	84
7	75	44	237	220	330	405	555	570	1260	913	42	84
8	83	44	241	220	350	413	554	411	1210	785	49	90
9	150	54	233	240	350	411	544	406	1210	779	58	86
10	140	62	231	250	350	410	529	372	1280	711	57	98
11	196	59	237	260	380	409	537	361	1580	652	43	135
12	397	59	226	270	420	417	595	293	1960	614	43	205
13	312	60	218	270	460	393	713	248	2070	575	48	270
14	315	61	220	300	490	399	648	264	2060	508	72	360
15	281	62	225	320	515	440	612	270	1990	508	93	370
16	221	63	223	340	505	441	687	343	1880	353	89	350
17	240	63	209	360	509	425	620	425	2160	279	84	330
18	152	62	210	360	559	407	569	786	2550	237	105	300
19	122	52	227	370	646	396	546	771	2590	206	77	250
20	104	48	242	370	638	381	526	693	2460	123	70	250
21	58	48	250	370	615	373	515	646	2410	103	67	290
22	48	47	226	370	606	369	519	717	2300	85	65	275
23	54	56	198	350	528	370	509	830	2410	83	71	248
24	44	117	168	340	483	373	501	1090	2470	77	67	228
25	31	215	185	330	458	375	483	1330	2460	92	60	220
26	30	210	222	360	467	379	523	1770	2110	88	75	400
27	35	190	220	390	478	383	446	2050	2090	209	79	880
28	36	208	200	400	465	376	173	2410	2310	302	87	1600
29	38	213	222	410	---	388	274	2410	2670	314	91	739
30	43	215	302	410	---	379	580	2070	2440	322	102	863
31	42	---	358	410	---	368	---	1850	---	253	99	---
TOTAL	3523	2587	7196	9993	12672	12492	14871	27654	58720	19181	2709	9468
MEAN	114	86.2	232	322	453	403	496	892	1957	619	87.4	316
MAX	397	215	358	410	646	462	713	2410	2670	2340	221	1600
MIN	30	42	168	220	290	368	173	248	1210	77	42	84
AC-FT	6990	5130	14270	19820	25130	24780	29500	54850	116500	38050	5370	18780

CAL YR 1981 TOTAL 58676 MEAN 161 MAX 1910 MIN 23 AC-FT 116400
WTR YR 1982 TOTAL 181066 MEAN 496 MAX 2670 MIN 30 AC-FT 359100

09297000 UINTA RIVER NEAR NEOLA, UTAH

LOCATION.--Lat 40°32'08", long 110°03'46", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ 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 mi² (422 km²).

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

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

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

REMARKS.--Records good except those for winter months, which are fair. Flow regulated by powerplant. Summer flow slightly regulated by storage in several small lakes and reservoirs. Water from Pole Creek diverted into forebay. Uinta power canal enlargement completed in August 1944 with flow increase Oct. 12, 13, 1944, which has held fairly constant since. Prior to Nov. 18, 1948, spill from forebay entered river 0.5 mi (0.8 km) below station. Discharge measurements, in cubic feet per second, during the water year 1982 Pole Creek canal are as follows:

Oct. 5	4.8	Feb. 26	3.8	June 23	5.7
Nov. 17	9.7	Mar. 30	5.3	July 21	4.7
Jan. 22	2.0	Apr. 29	11	Aug. 31	5.1

AVERAGE DISCHARGE.--54 years (1925-26, 1929-82), 178 ft³/s (5.041 m³/s), 129,000 acre-ft/yr (159 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 5,000 ft³/s (142 m³/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 ft³/s (34.0 m³/s); minimum recorded, 14 ft³/s (0.40 m³/s) Jan. 14, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 700 ft³/s (19.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 28	2400	1040	29.5	4.15	1.265
June 12	0200	954	27.0	4.06	1.237
June 18	0500	999	28.3	4.11	1.253
Sept. 27	0600	*1430	40.5	4.58	1.396

Minimum daily, 34 ft³/s (0.96 m³/s) Feb. 5.

GREEN RIVER BASIN

09297000 UINTA RIVER NEAR NEOLA, UTAH--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	128	86	67	60	55	65	126	549	733	333	195
2	114	123	100	62	59	56	63	156	570	585	321	185
3	126	120	102	57	60	54	61	211	607	535	357	179
4	141	117	100	61	47	53	63	229	677	521	310	174
5	134	117	98	67	34	52	61	234	630	521	279	179
6	126	117	92	60	35	53	63	220	528	467	258	184
7	120	114	90	50	37	56	63	215	528	405	244	213
8	145	114	90	44	64	54	59	197	549	375	239	194
9	141	106	88	46	61	54	59	189	585	387	244	190
10	131	104	88	47	59	56	59	180	669	369	229	201
11	180	106	86	49	58	57	68	171	759	369	229	223
12	160	104	84	51	57	58	79	152	873	405	273	207
13	156	106	84	53	57	58	82	145	837	387	279	236
14	149	109	82	55	55	57	86	138	750	375	268	228
15	138	106	84	57	55	59	88	138	615	369	263	222
16	164	106	81	58	57	63	82	141	622	363	249	236
17	152	104	76	59	58	63	79	145	801	345	249	239
18	145	104	71	60	58	62	82	171	873	321	239	220
19	138	92	68	61	55	60	79	239	759	305	239	213
20	141	98	71	61	53	61	75	239	767	294	225	268
21	138	104	75	61	53	59	72	253	759	279	229	253
22	131	104	79	62	54	61	73	339	750	289	215	225
23	128	102	77	61	55	63	77	381	709	310	206	216
24	128	100	75	61	53	65	84	521	622	321	189	205
25	126	100	76	59	52	65	96	600	685	321	189	209
26	126	94	79	59	51	66	100	759	615	327	229	315
27	126	100	77	59	52	65	100	891	669	381	249	1040
28	123	106	67	60	54	65	104	927	701	461	253	643
29	134	102	57	61	---	66	120	837	733	435	263	537
30	128	98	67	61	---	65	120	717	661	461	234	480
31	117	---	69	60	---	63	---	570	---	369	212	---
TOTAL	4220	3205	2519	1789	1503	1844	2362	10431	20452	12385	7795	8309
MEAN	136	107	81.3	57.7	53.7	59.5	78.7	336	682	400	251	277
MAX	180	128	102	67	64	66	120	927	873	733	357	1040
MIN	114	92	57	44	34	52	59	126	528	279	189	174
AC-FT	8370	6360	5000	3550	2980	3660	4690	20690	40570	24570	15460	16480
CAL YR 1981	TOTAL	59065	MEAN 162	MAX 1020	MIN 45	AC-FT 117200						
WTR YR 1982	TOTAL	76814	MEAN 210	MAX 1040	MIN 34	AC-FT 152400						

09299500 WHITEROCKS RIVER NEAR WHITEROCKS, UTAH

LOCATION.--Lat 40°33'54", long 109°55'37", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ 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 mi² (293 km²).

PERIOD OF RECORD.--September 1899 to December 1903, April to December 1907, March 1908 to November 1910, October 1913 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as Whiterocks River in Canyon, 1899, and as Whiterocks Creek near Whiterocks, 1918-25. November 1917 to June 1921 United States Whiterocks Canal diverted above station (records equivalent if flow of Whiterocks Canal is included).

GAGE.--Water-stage recorder. Altitude of gage is 6,980 ft (2,128 m) from river-profile map. Prior to Oct. 16, 1930, nonrecording gages at several sites within 1 mi (2 km) of present site at various datums, Oct. 16, 1930 to Nov. 7, 1979, water-stage recorder at site 60 ft (18 m) downstream at different datum. Nov. 8, 1949 to June 14, 1975, water-stage recorder at site 40 ft (12 m) upstream at different datum.

REMARKS.--Records good except those for winter months, 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 km²) above and below station.

AVERAGE DISCHARGE.--75 years (1899-1903, 1908-10, 1913-82), 122 ft³/s (3.455 m³/s), 88,390 acre-ft/yr (109 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge determined, 2,750 ft³/s (77.9 m³/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 ft³/s (48.1 m³/s); minimum recorded, 9.2 ft³/s (0.26 m³/s) Apr. 3, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 600 ft³/s (17.0 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 26	2245	*971	27.5	4.28	1.305
Sept. 27	0345	705	20.0	3.93	1.198

Minimum daily, 18 ft³/s (0.51 m³/s) Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	54	42	31	28	26	23	113	479	390	162	141
2	51	52	47	26	28	27	23	141	515	340	155	137
3	58	50	45	23	26	25	24	195	556	301	162	135
4	76	49	44	27	25	25	24	229	605	287	152	137
5	71	50	43	29	22	22	24	232	538	301	145	150
6	65	52	42	26	18	23	23	205	454	290	141	160
7	60	51	42	23	22	24	22	198	470	253	137	168
8	76	51	40	21	32	24	24	188	488	241	131	155
9	70	48	39	22	27	24	26	172	506	247	131	143
10	62	48	38	22	27	24	26	158	528	229	129	139
11	85	48	38	22	28	25	24	148	524	229	125	150
12	87	48	38	23	26	26	32	131	585	232	137	133
13	80	48	39	23	24	27	34	107	538	200	129	145
14	77	49	40	23	24	25	40	97	484	210	125	131
15	70	47	39	24	25	26	40	97	414	200	123	129
16	77	47	37	24	26	26	36	105	406	200	117	143
17	74	47	34	24	27	27	34	117	506	212	115	139
18	71	45	32	25	27	27	38	168	506	205	115	121
19	68	36	30	25	25	26	34	232	434	200	113	111
20	67	42	33	26	24	27	33	215	434	195	113	137
21	66	46	36	27	25	28	32	238	438	192	115	125
22	64	44	37	30	26	28	31	340	434	187	117	113
23	58	42	36	36	26	28	36	414	438	203	119	105
24	55	42	34	33	25	25	40	528	398	205	117	99
25	53	42	37	28	24	24	49	551	410	202	117	101
26	54	32	37	27	24	24	49	738	394	199	160	137
27	55	32	34	27	24	24	53	850	386	219	162	533
28	55	39	26	28	25	24	80	804	402	226	162	366
29	66	52	29	25	---	24	93	710	402	218	170	312
30	61	47	29	28	---	25	97	575	386	208	155	298
31	53	---	28	27	---	27	---	466	---	185	145	---
TOTAL	2036	1380	1145	805	710	787	1144	9462	14058	7206	4196	4993
MEAN	65.7	46.0	36.9	26.0	25.4	25.4	38.1	305	469	232	135	166
MAX	87	54	47	36	32	28	97	850	605	390	170	533
MIN	51	32	26	21	18	22	22	97	386	185	113	99
AC-FT	4040	2740	2270	1600	1410	1560	2270	18770	27880	14290	8320	9900
CAL YR 1981 TOTAL	34654	MEAN	94.9	MAX	479	MIN	23	AC-FT	68740			
WTR YR 1982 TOTAL	47922	MEAN	131	MAX	850	MIN	18	AC-FT	95050			

GREEN RIVER BASIN

09302000 DUCHESNE RIVER NEAR RANDLETT, UTAH

LOCATION (REVISED).--Lat 40°12'56", long 109°46'58", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ 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 Uintah River, 1.2 mi (1.9 km) southeast of Randlett, and 6.5 mi (10.5 km) southeast of Fort Duchesne.

DRAINAGE AREA.--4,247 mi² (11,000 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1942 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 4,756.1 ft (1,449.66 m) NGVD of 1929. Prior to Aug. 23, 1944 at site 300 ft (91.4 m) downstream at different datum. Aug. 23, 1944 to Sept. 4, 1964 at site 200 ft (61.0 m) upstream at datum 1.87 ft (0.57 m) higher. Sept. 5, 1964 to June 6, 1968 at site 700 ft (213 m) upstream at datum 1.68 ft (0.51 m) higher. June 7, 1968 to Aug. 31, 1970 at site 200 ft (61.0 m) upstream at datum 1.87 ft (0.57 m) higher. Sept. 1, 1970 to June 7, 1975 at site 300 ft (91.4 m) upstream at datum 2.23 ft (0.68 m) higher. June 7, 1975 to May 5, 1977 at site 200 ft (61.0 m) upstream at datum 1.87 ft (0.57 m) higher.

REMARKS.--Water-discharge records good except those for winter months, 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, Hobbie Creek ditch, Strawberry River, and Willow Creek Ditch.

AVERAGE DISCHARGE.--40 years, 553 ft³/s (15.66 m³/s), 400,600 acre-ft/yr (494 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,300 ft³/s (292 m³/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 ft³/s (0.062 m³/s) Aug. 12, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,720 ft³/s (105 m³/s) June 19, gage height, 6.24 ft (1.902 m); minimum, 69 ft³/s (1.95 m³/s) Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	134	271	405	530	640	414	607	2200	2650	350	189
2	83	138	265	366	530	640	429	663	2030	2510	300	168
3	75	146	299	322	530	650	410	827	1640	2000	373	145
4	201	147	318	364	450	640	415	990	1710	1700	315	154
5	237	147	303	454	370	630	404	817	1880	1510	268	164
6	200	144	298	477	410	630	393	786	1790	1380	207	183
7	182	140	297	290	420	610	550	678	1590	1120	141	179
8	196	138	357	310	420	610	608	486	1520	915	127	185
9	219	135	348	320	430	620	605	456	1500	887	142	190
10	232	148	347	330	470	630	589	421	1570	831	171	171
11	281	150	354	350	530	620	600	466	2000	782	164	227
12	597	140	342	350	570	610	630	390	2570	761	133	324
13	438	140	328	390	620	580	796	308	2920	734	124	379
14	404	138	331	470	650	610	714	311	2870	644	164	524
15	364	140	335	490	660	662	666	294	2790	578	217	535
16	352	141	337	500	700	670	721	356	2540	487	220	498
17	434	139	292	520	800	632	713	431	2610	378	204	479
18	302	139	284	520	860	606	625	703	3260	322	194	399
19	255	133	326	520	920	572	610	822	3480	280	189	328
20	224	144	366	510	910	525	581	782	3210	216	166	381
21	189	158	367	510	880	496	583	667	3080	170	166	429
22	168	168	356	490	860	484	599	750	2960	171	147	397
23	162	170	259	470	800	485	590	883	3020	148	144	371
24	165	177	240	450	700	489	560	1160	2960	140	133	332
25	150	281	220	480	630	490	529	1550	2860	161	118	323
26	142	302	261	500	650	458	560	2050	2600	185	126	393
27	145	271	279	530	670	459	566	2700	2360	202	139	1370
28	149	278	288	530	680	448	270	3110	2560	392	144	2820
29	142	304	262	530	---	445	224	3400	2980	453	161	2070
30	142	303	332	530	---	448	582	2880	2810	476	171	2070
31	143	---	404	530	---	424	---	2540	---	453	194	---
TOTAL	7062	5233	9666	13808	17650	17513	16536	33284	73870	23636	5812	16377
MEAN	228	174	312	445	630	565	551	1074	2462	762	187	546
MAX	597	304	404	530	920	670	796	3400	3480	2650	373	2820
MIN	75	133	220	290	370	424	224	294	1500	140	118	145
AC-FT	14010	10380	19170	27390	35010	34740	32800	66020	146500	46880	11530	32480
CAL YR 1981	TOTAL	88940	MEAN 244	MAX 2560	MIN 41	AC-FT 176400						
WTR YR 1982	TOTAL	240447	MEAN 659	MAX 3480	MIN 75	AC-FT 476900						

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1950 to September 1951, November 1956 to current year.

SPECIFIC CONDUCTANCE: December 1950 to September 1951, November 1956 to September 1980, June 1981 to current year, once daily.

WATER TEMPERATURES: December 1950 to September 1951, November 1956 to September 1978, October 1979 to September 1980, June 1981 to current year, once daily.

SEDIMENT DATA: October 1976 to current year, periodically.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE (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, 29.0°C July 22, 1982; minimum, 0.0°C on many days during winter period each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 2,800 micromhos Oct. 4; minimum, 365 micromhos May 29.

WATER TEMPERATURES: Maximum daily, 29.0°C July 22; minimum, 0.0°C many days during winter period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)
OCT										
22...	1430	166	2100	8.1	14.5	13.0	11.4	651	680	390
NOV										
24...	1315	171	1740	8.0	10.5	6.0	12.0	640	560	300
DEC										
31...	1445	400	970	8.2	.5	.0	12.7	640	340	130
JAN										
29...	1400	530	840	7.8	6.0	.0	12.5	643	310	110
FEB										
26...	1330	650	970	7.6	11.0	.5	11.6	647	310	110
MAR										
25...	1230	500	1010	7.9	11.0	9.0	11.4	648	340	120
APR										
13...	1400	845	980	8.1	19.5	13.0	9.0	644	320	95
MAY										
20...	1430	803	830	8.1	19.5	16.0	8.8	648	260	100
JUN										
24...	1130	2810	500	7.9	26.5	16.0	8.4	647	180	53
JUL										
27...	1015	189	1540	8.1	24.5	23.0	8.2	651	470	210
AUG										
24...	1345	137	1770	8.2	29.5	25.5	13.4	650	540	270
SEP										
22...	0945	400	1910	8.1	19.5	16.5	8.3	650	440	180
	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT										
22...	130	87	240	43	4.0	4.2	290	670	110	.7
NOV										
24...	109	70	190	42	3.9	3.0	260	620	80	.7
DEC										
31...	74	38	80	34	2.1	1.9	210	240	40	.4
JAN										
29...	67	35	72	33	2.0	1.7	200	220	31	.4
FEB										
26...	63	38	81	36	2.2	2.5	200	250	48	.4
MAR										
25...	68	41	89	36	2.3	2.0	220	260	43	.4
APR										
13...	64	40	87	37	2.4	2.4	230	240	39	.4
MAY										
20...	57	29	77	39	2.3	2.4	158	230	35	.3
JUN										
24...	39	20	34	29	1.2	2.0	127	100	16	.2
JUL										
27...	99	55	170	44	3.8	4.6	261	470	71	.6
AUG										
24...	110	64	200	44	4.2	4.0	266	610	78	.6
SEP										
22...	89	52	110	35	2.6	3.2	254	360	45	.5

GREEN RIVER BASIN

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
OCT 22...	8.1	1560	1430	2.1	699	.070	.09	.12	.010	.03
NOV 24...	12	1320	1240	1.8	609	<.070	.09	.17	.030	.09
DEC 31...	10	650	612	.88	702	.090	.12	.25	<.010	--
JAN 29...	9.6	553	558	.75	791	.100	.13	.20	.020	.06
FEB 26...	10	640	614	.87	1120	.130	.17	.14	.010	.03
MAR 25...	7.4	660	643	.90	891	.120	.15	<.10	.020	.06
APR 13...	8.5	620	620	.84	1420	<.060	.08	<.10	.020	.06
MAY 20...	8.9	535	536	.73	1160	.150	.19	.17	<.010	--
JUN 24...	9.1	320	297	.44	2430	.080	.10	<.10	.010	.03
JUL 27...	14	1110	1040	1.5	566	.220	.28	.17	.050	.15
AUG 24...	14	1290	1240	1.8	477	.100	.13	.27	.040	.12
SEP 22...	15	876	828	1.2	946	.100	.13	<.10	.020	.06

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT 22...	1430	1100
NOV 24...	1315	860
DEC 31...	1445	300
JAN 29...	1400	340
FEB 26...	1330	210
MAR 25...	1230	400
APR 13...	1400	410
MAY 20...	1430	340
JUN 24...	1130	160
JUL 27...	1015	840
AUG 24...	1345	950
SEP 22...	0945	570

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2100	2210	1250	890	880	940	1110	1070	---	420	1110	1600
2	---	2270	1420	940	880	980	1140	980	630	425	1120	1530
3	---	---	1370	1030	900	1050	1080	920	770	480	1220	1620
4	2800	2040	1330	1170	900	1140	1110	1000	540	520	1290	1650
5	2380	2070	1270	1100	1000	1080	1030	---	---	540	1220	1630
6	2520	2090	1350	940	1080	1040	1050	860	560	630	1300	1540
7	2390	---	1210	1020	1070	1020	960	900	620	690	1590	1520
8	2170	2050	1050	1120	980	1000	950	---	650	710	1680	1510
9	1930	1980	1000	1140	920	1000	960	1090	630	750	1600	1460
10	1910	2100	1060	1030	880	980	---	1210	620	---	1570	1580
11	1590	2030	1060	960	840	990	970	---	560	780	1600	---
12	1640	2020	1210	910	820	1000	980	1330	600	840	1700	1520
13	1830	1980	---	---	840	---	920	1340	490	830	1790	1380
14	1950	2000	1070	860	820	990	940	---	490	820	1690	1390
15	1620	2090	---	850	830	1030	920	1450	520	920	1650	1340
16	1900	2080	1040	---	800	1070	900	1250	680	980	1500	1290
17	2180	2080	1130	840	820	---	960	1090	---	1090	1550	1250
18	1980	2090	1070	840	850	1090	960	850	475	1170	---	1230
19	1950	2100	1020	850	870	1050	930	810	455	1320	1600	1250
20	1930	1890	1020	960	920	1050	980	860	470	1460	1660	1290
21	2040	1680	1020	880	980	1040	---	910	435	1510	---	1200
22	2100	1650	1180	860	980	980	1030	---	440	1580	1680	1180
23	2100	---	1230	910	950	980	1080	790	415	1640	1700	---
24	2160	1720	1330	---	920	980	---	760	440	1820	1700	1120
25	2070	1540	1380	860	910	970	990	580	435	---	1720	1180
26	2090	1300	1280	830	890	1010	980	520	---	1660	1840	1170
27	2110	1290	1140	850	980	1070	1060	420	455	1620	1780	830
28	2150	1190	1190	860	950	---	1460	375	455	1230	1750	760
29	2260	1230	1180	880	---	1140	1660	365	410	---	1750	610
30	2260	1160	1050	870	---	1100	1080	520	460	1180	1780	610
31	2240	---	990	900	---	1090	---	650	---	1130	1500	---
MEAN	2080	1850	1170	934	909	1030	1040	881	527	1030	1570	1290

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	6.5	.0	.0	.0	6.0	7.5	16.5	---	14.0	27.5	---
2	---	8.0	.0	.0	.0	6.5	7.5	17.0	15.5	20.0	25.5	24.5
3	---	---	.0	.0	.0	6.5	5.5	15.0	15.5	20.5	25.5	24.0
4	13.0	6.0	.0	.0	.0	4.5	9.5	16.5	16.0	21.0	25.0	23.0
5	16.5	8.0	5.0	.0	5.0	6.0	9.0	---	---	17.5	25.5	22.0
6	15.5	8.0	1.5	---	5.0	2.5	9.0	14.5	13.0	17.0	23.5	---
7	17.5	---	1.0	.0	5.0	6.0	7.5	15.0	15.0	21.0	---	21.5
8	13.0	9.5	2.0	.0	.0	7.5	8.5	---	17.0	22.5	---	23.5
9	12.5	7.5	1.0	4.0	.0	9.5	6.5	15.5	17.0	21.5	---	23.0
10	12.0	7.0	2.0	.0	.0	8.5	---	13.0	19.0	---	---	20.0
11	10.0	7.5	2.5	.0	.5	7.5	10.0	---	20.0	22.5	---	---
12	19.5	6.0	2.0	.0	.5	7.5	12.0	14.5	18.0	23.5	---	18.5
13	9.5	7.0	---	---	1.0	---	13.5	13.5	16.0	23.5	---	14.5
14	12.0	9.0	2.0	.0	.0	7.0	14.5	---	16.0	21.5	26.0	14.0
15	8.0	10.0	---	5.0	.0	8.0	12.0	---	17.5	25.0	24.0	16.0
16	8.0	8.5	2.0	---	.5	8.0	10.5	18.5	---	24.5	26.0	17.0
17	7.0	7.0	.0	2.0	1.0	---	11.5	20.0	---	24.5	25.0	19.5
18	14.0	5.0	1.0	.0	.0	7.5	11.5	18.0	15.5	26.0	---	---
19	13.0	7.5	.0	.0	.5	7.0	8.5	14.5	16.5	27.0	26.5	20.5
20	11.5	3.0	.0	.0	1.0	4.5	5.0	17.5	16.5	28.0	26.5	20.0
21	12.5	3.0	1.5	.0	.5	4.5	---	19.5	18.5	27.5	---	20.0
22	13.0	4.5	.0	---	.5	7.0	13.5	---	19.5	29.0	26.0	20.0
23	11.0	---	.0	2.0	1.0	9.5	14.5	19.0	17.5	28.5	26.5	---
24	8.5	5.0	5.0	---	.5	10.5	---	18.0	18.0	22.5	27.0	19.5
25	9.0	3.5	.0	.0	.0	10.0	15.0	17.5	17.5	---	24.0	19.0
26	8.5	4.0	6.0	1.0	.5	9.0	14.0	17.5	---	28.0	24.5	20.0
27	9.5	1.5	.0	.0	9.0	8.0	16.0	16.0	20.5	27.5	26.0	14.0
28	10.5	3.0	.0	.0	8.0	---	15.0	17.0	21.0	25.0	25.5	12.0
29	9.5	4.0	.0	.0	---	6.0	18.0	---	21.5	---	25.0	---
30	8.0	1.5	.0	1.0	---	7.5	16.0	10.0	17.0	26.5	25.0	---
31	7.5	---	5.0	.0	---	10.5	---	14.0	---	27.5	26.0	---
MEAN	11.5	6.0	1.5	.5	1.5	7.5	11.0	---	---	23.5	---	---

GREEN RIVER BASIN

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT					
22...	1430	166	13.0	332	149
NOV					
24...	1315	171	6.0	217	100
DEC					
31...	1445	400	.0	128	138
JAN					
29...	1400	530	.0	143	205
FEB					
26...	1330	650	.5	747	1310
MAR					
25...	1230	500	9.0	110	148
APR					
13...	1400	845	13.0	520	1190
MAY					
20...	1430	803	16.0	382	828
JUN					
24...	1130	2810	16.0	345	2620
JUL					
27...	1015	189	23.0	344	176

GREEN RIVER BASIN

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09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 40°00'50", long 109°04'48", in NW¼NE¼ 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 mi² (9,530 km²), approximately.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 5,030 ft (1,533 m) from topographic map.

REMARKS.--Records good. Diversions for irrigation of about 31,900 acres (129 km²) above station.

AVERAGE DISCHARGE.--6 years, 634 ft³/s (17.95 m³/s), 459,300 acre-ft/yr (566 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,470 ft³/s (127 m³/s) May 30, 1979, gage height, 7.20 ft (2.195 m); minimum, 10 ft³/s (0.28 m³/s) July 2, 3, 4, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,720 ft³/s (77.0 m³/s) May 29, gage height, 5.81 ft (1.771 m); minimum, 157 ft³/s (4.45 m³/s) Dec. 25, result of freezeup.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	293	458	300	350	400	1000	388	882	2280	2170	664	459
2	302	425	170	340	400	1100	436	1010	2170	2200	624	432
3	305	423	210	180	400	1250	444	1290	2110	2140	672	414
4	509	431	190	200	390	1000	446	1460	2050	1930	745	393
5	1610	434	390	220	340	711	417	1760	1920	1790	686	428
6	647	432	400	220	300	588	428	1650	1990	1710	631	598
7	464	428	450	210	250	475	430	1450	2080	1630	577	563
8	410	419	430	210	240	473	430	1350	1990	1460	562	461
9	502	427	410	260	240	449	413	1330	2060	1340	727	443
10	474	410	450	270	360	504	405	1410	2150	1380	606	633
11	736	397	450	200	420	471	414	1500	2160	1340	584	568
12	1340	390	470	160	420	520	419	1450	2010	1210	928	778
13	871	391	460	300	470	555	474	1480	2090	1150	679	735
14	560	399	460	400	410	493	567	1510	2150	1060	763	969
15	584	400	440	410	450	474	560	1360	2170	1060	732	732
16	833	393	400	420	520	469	607	1260	2160	992	641	647
17	712	390	380	440	620	471	639	1200	2030	926	587	636
18	548	394	350	450	640	464	620	1190	2150	868	572	607
19	481	403	360	460	750	464	629	1260	2270	847	656	583
20	452	405	330	460	850	436	632	1410	2210	810	595	594
21	430	383	360	440	740	418	623	1480	2190	764	563	571
22	418	380	360	420	900	397	614	1470	2200	738	558	546
23	410	408	350	400	950	367	619	1660	2210	712	731	522
24	397	411	330	420	960	379	628	1870	2160	716	516	519
25	389	415	210	450	1000	374	650	2120	2110	676	507	517
26	408	415	300	470	950	375	700	2060	2120	716	486	540
27	394	390	390	460	950	395	760	2210	2080	706	495	700
28	390	400	370	440	970	415	820	2440	2020	726	480	1000
29	395	375	360	430	---	416	800	2560	2050	1050	510	1100
30	428	350	350	400	---	424	838	2400	2130	908	488	1000
31	520	---	350	400	---	427	---	2420	---	748	465	---
TOTAL	17212	12176	11230	10890	16290	16754	16850	49902	63470	36473	19030	18688
MEAN	555	406	362	351	582	540	562	1610	2116	1177	614	623
MAX	1610	458	470	470	1000	1250	838	2560	2280	2200	928	1100
MIN	293	350	170	160	240	367	388	882	1920	676	465	393
AC-FT	34140	24150	22270	21600	32310	33230	33420	98980	125900	72340	37750	37070
CAL YR 1981 TOTAL	174005		MEAN 477	MAX 1740	MIN 142	AC-FT 345100						
WTR YR 1982 TOTAL	288965		MEAN 792	MAX 2560	MIN 160	AC-FT 573200						

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

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1976 to current year.

WATER TEMPERATURES: October 1976 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1976 to current year.

INSTRUMENTATION.--Specific conductance and temperature recorder since October 1976.

REMARKS.--Sediment loads computed based on U.S.P.S. 69 pumping sediment sampler concentrations for days where concentrations are given.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded (more than 20 percent missing record), 1,570 micromhos July 22, 1977; minimum recorded, 120 micromhos April 29, 1981.

WATER TEMPERATURES: Maximum recorded (more than 20 percent missing record), 31.0°C Aug. 9, 1978; minimum, 0.0°C on many days during winter period.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 61,000 mg/L Sept. 8, 1978; minimum daily mean, 50 mg/L Sept. 7, 1978.

SEDIMENT LOADS: Maximum daily, 412,000 tons (374,000 tonnes) Sept. 8, 1978; minimum daily, 1.0 ton (0.91 tonne) July 2, 3, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum observed, 920 micromhos Mar. 25; minimum recorded, 337 micromhos May 29.

WATER TEMPERATURES: Maximum recorded, 26.5°C Aug. 21; minimum, 0.0°C several days during winter period.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 25,300 mg/L July 29; minimum daily mean, 120 mg/L Oct. 3.

SEDIMENT LOADS: Maximum daily, 71,700 tons (65,000 tonnes) July 29; minimum daily, 99 tons (90 tonnes) Oct. 3.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)
OCT											
07...	1500	454	760	8.0	19.0	14.0	--	--	8.1	--	--
27...	1630	376	720	7.9	17.0	9.5	--	--	--	--	--
NOV											
24...	1600	415	--	--	14.5	--	--	--	10.6	--	--
DEC											
23...	1430	366	780	7.8	-5	.0	--	--	12.0	--	--
JAN											
26...	1400	469	750	7.5	5.0	.0	--	--	11.2	--	--
MAR											
25...	1200	367	920	7.8	15.0	6.5	--	--	10.0	635	--
APR											
14...	1100	578	--	--	--	11.5	--	--	--	--	--
MAY											
07...	1500	1520	415	7.6	19.0	9.5	--	--	8.7	--	--
JUN											
15...	1000	2290	350	7.8	23.0	13.0	50	110	8.2	635	27
JUL											
15...	1000	1040	485	8.0	15.5	19.0	--	--	7.6	632	--
AUG											
26...	1400	520	600	8.1	29.5	22.5	--	--	7.0	635	--

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT											
07...	220	70	55	20	48	32	1.5	2.9	150	--	170
27...	290	120	71	27	57	30	1.6	1.8	170	--	180
NOV											
24...	320	120	75	31	62	30	1.5	1.7	200	--	210
DEC											
23...	280	89	69	26	60	32	1.7	1.5	190	--	190
JAN											
26...	310	110	78	28	65	31	1.7	1.7	200	--	200
MAR											
25...	330	130	76	34	77	34	2.0	1.8	200	--	260
APR											
14...	--	--	--	--	--	--	--	--	--	--	--
MAY											
07...	170	43	43	15	22	22	.8	1.6	126	--	66
JUN											
15...	160	41	44	12	13	15	.5	1.2	119	<.5	53
JUL											
15...	200	52	53	17	22	19	.7	1.4	150	--	87
AUG											
26...	250	73	62	23	45	28	1.3	1.8	177	--	150
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)
OCT											
07...	24	.3	12	--	422	.57	517	--	--	--	--
27...	43	.2	13	--	509	.69	517	--	--	--	--
NOV											
24...	30	.3	13	--	543	.74	608	--	--	--	--
DEC											
23...	24	.3	11		496	.67	490	--	--	--	--
JAN											
26...	28	.3	15	--	537	.73	680	--	--	--	--
MAR											
25...	38	.3	12	--	619	.84	613	--	--	--	--
APR											
14...	--	--	--	--	--	--	--	--	--	--	--
MAY											
07...	6.7	.2	12	--	244	.33	1000	--	--	--	--
JUN											
15...	5.5	.2	12	218	213	.30	1350	316	.130	.17	.57
JUL											
15...	9.3	.2	14	--	294	.40	826	--	--	--	--
AUG											
26...	16	.3	15	--	420	.57	590	--	--	--	--

GREEN RIVER BASIN

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
OCT 07...	--	--	--	--	<.09	--	--	<.010	--	--
27...	--	--	--	--	<.09	--	--	--	.030	.09
NOV 24...	--	--	--	--	<.10	--	--	<.010	--	--
DEC 23...	--	--	--	--	<.09	--	--	.010	--	--
JAN 26...	--	--	--	--	.18	--	--	--	.030	.09
MAR 25...	--	--	--	--	<.10	--	--	--	.020	.06
APR 14...	--	--	--	--	--	--	--	--	--	--
MAY 07...	--	--	--	--	.28	--	--	--	.010	.03
JUN 15...	.90	.20	.70	<.020	<.10	.300	.92	.060	.020	.06
JUL 15...	--	--	--	--	<.10	--	--	--	.140	.43
AUG 26...	--	--	--	--	<.10	--	--	--	.030	.09

DATE	TIME	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)
JUN 15...	1000	1	43	<1	<1	<3	<10	<10

DATE	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)
JUN 15...	12	<.1	2	1	330	1.8	<3

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 07...	1500	50	--	--
27...	1630	50	<10	<1
NOV 24...	1600	80	--	--
DEC 23...	1430	50	--	--
JAN 26...	1400	50	16	7
MAR 25...	1200	60	--	--
MAY 07...	1500	40	--	--
JUN 15...	1000	20	<10	<1
JUL 15...	1000	30	--	--
AUG 26...	1400	80	--	--

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L)
JUN 15...	1000	4.6	<.01	2	<1

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	704	686	629	653	739	---	883	528	378	391	524	645
2	720	691	623	657	745	---	842	519	364	379	527	630
3	733	696	604	661	746	---	723	433	372	377	561	612
4	745	704	593	665	748	---	716	425	375	383	543	575
5	770	711	573	668	749	---	745	441	391	415	555	571
6	745	716	576	672	---	---	766	410	389	439	547	568
7	743	721	573	674	---	---	783	408	372	463	531	571
8	671	728	576	677	---	---	803	398	382	475	540	555
9	679	732	578	680	---	---	823	403	374	497	564	571
10	685	739	580	680	---	---	829	395	365	539	605	572
11	694	740	593	687	---	---	849	390	357	533	636	571
12	785	744	601	692	---	---	871	395	362	554	681	591
13	629	743	602	696	---	---	877	404	357	481	692	590
14	630	749	607	699	---	---	830	460	352	457	654	633
15	635	752	614	703	---	---	749	504	351	472	627	622
16	653	753	631	707	---	883	775	500	347	469	653	614
17	634	761	630	703	---	782	790	478	360	466	602	613
18	636	765	628	699	---	744	720	472	365	470	576	609
19	639	772	635	702	---	740	738	451	352	478	567	610
20	639	775	645	703	---	769	727	530	347	481	556	609
21	638	776	667	707	---	805	701	456	346	487	637	632
22	640	776	674	710	---	835	678	435	340	492	656	632
23	646	779	681	714	---	862	640	425	350	492	669	644
24	649	736	684	721	---	899	624	413	347	496	673	640
25	645	608	667	730	---	866	539	392	375	495	674	622
26	651	601	630	737	---	759	587	381	376	497	609	610
27	652	619	634	743	---	715	625	381	362	507	620	680
28	655	624	637	742	---	729	588	360	364	547	617	731
29	659	620	641	735	---	783	558	337	357	638	617	722
30	673	621	645	736	---	825	531	383	368	587	618	668
31	687	---	649	736	---	852	---	386	---	529	670	---
MEAN	676	715	623	700	---	---	730	429	363	483	606	617

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

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

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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	140	111	540	668	282	228	338	319	299	323	6600	17800
2	139	113	525	602	321	147	338	310	291	314	6900	20500
3	120	99	490	560	299	170	355	173	280	302	6590	22200
4	3450	4740	475	553	433	222	370	200	280	295	6750	18200
5	13500	58700	468	548	495	521	391	232	277	254	5940	11400
6	6000	10500	435	507	472	510	420	249	280	227	5300	8410
7	2200	2760	418	483	478	581	407	231	270	182	4450	5710
8	1320	1460	400	453	488	567	410	232	323	209	3570	4560
9	3300	4470	405	467	483	535	413	290	307	199	2590	3140
10	2500	3200	402	445	474	576	420	306	297	289	1950	2650
11	4550	9040	390	418	496	603	395	213	308	349	1400	1780
12	11500	41600	380	400	494	627	390	168	315	357	1300	1830
13	7600	17900	430	454	495	615	389	315	315	400	1310	1960
14	6200	9370	450	485	489	607	378	408	320	354	712	948
15	5700	8990	412	445	491	583	379	420	327	397	673	861
16	7500	16900	340	361	501	541	367	416	342	480	678	859
17	5600	10800	332	350	509	522	328	390	445	745	725	922
18	4150	6140	345	367	491	464	320	389	580	1000	615	770
19	2800	3640	350	381	481	468	315	391	700	1420	556	697
20	1730	2110	352	385	481	429	320	397	900	2070	519	611
21	1170	1360	335	346	484	470	315	374	1050	2100	486	548
22	800	903	330	339	482	469	290	329	1260	3060	473	507
23	670	742	320	353	481	455	270	292	1530	3920	508	503
24	650	697	295	327	464	413	273	310	2060	5340	545	558
25	590	620	290	325	430	244	275	334	2400	6480	450	454
26	560	617	295	331	417	338	290	368	2850	7310	318	322
27	550	585	299	315	420	442	313	389	3710	9520	316	337
28	500	526	289	312	381	381	295	350	5160	13500	330	370
29	480	512	293	297	361	351	308	358	---	---	324	364
30	515	595	298	282	340	321	310	335	---	---	347	397
31	627	880	---	---	328	310	310	335	---	---	316	364
TOTAL	---	220680	---	12559	---	13710	---	9823	---	61396	---	130532

GREEN RIVER BASIN

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

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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	277	290	1750	4170	1940	11900	1090	6390	468	839	792	982
2	390	459	2850	7770	1690	9900	1040	6180	456	768	274	320
3	406	487	4260	14800	1700	9680	1050	6070	1950	3540	207	231
4	330	397	5100	20100	1600	8860	925	4820	847	1700	160	170
5	286	322	5540	26300	1510	7830	979	4730	638	1180	297	343
6	273	315	3980	17700	1890	10200	889	4060	336	572	8160	13200
7	240	279	2820	11000	1340	7530	707	3110	277	432	12700	19300
8	249	289	2110	7690	1510	8110	771	3040	186	282	6900	8590
9	236	263	1950	7000	1470	8180	765	2770	10200	20000	578	691
10	275	301	2030	7730	1500	8710	757	2820	8520	13900	10600	18100
11	465	520	2140	8670	1510	8810	600	2170	1320	2080	13000	19900
12	665	752	1960	7670	1570	8520	589	1920	14700	36800	19200	40300
13	900	1150	2100	8390	1570	8860	581	1800	11600	21300	8830	17500
14	990	1520	2070	8440	1580	9170	458	1310	6130	12600	15000	39200
15	924	1400	2050	7530	1480	8670	472	1350	2190	4330	7830	15500
16	1250	2050	2050	6970	1490	8690	490	1310	3400	5880	2210	3860
17	1220	2100	2020	6540	1450	7950	412	1030	6200	9830	1200	2060
18	935	1570	2090	6720	1500	8710	375	879	1250	1930	812	1330
19	935	1590	1380	4690	1510	9250	372	851	3100	5490	988	1560
20	952	1620	1920	7310	1450	8650	334	730	1060	1700	2580	4140
21	835	1400	1980	7910	1420	8400	297	613	492	748	2900	4470
22	780	1290	1660	6590	1380	8200	295	588	398	600	868	1280
23	819	1370	2640	11800	1320	7880	270	519	17900	35300	598	843
24	902	1530	3420	17300	1210	7060	552	1070	11600	16200	435	610
25	1680	2950	3920	22400	1200	6840	413	754	2800	3830	288	402
26	2380	4500	2660	14800	1190	6810	602	1160	870	1140	339	494
27	2500	5130	3040	18100	1190	6680	780	1490	1420	1900	14700	27800
28	2130	4720	3040	20000	1190	6490	4550	8920	410	531	24200	65300
29	1600	3460	3000	20700	1260	6970	25300	71700	625	861	19000	56400
30	1850	4190	2280	14800	1190	6840	6000	14700	1180	1550	11600	31300
31	---	---	1890	12300	---	---	1240	2500	2220	2790	---	---
TOTAL	---	48214	---	363890	---	250350	---	161354	---	210603	---	396176
TOTAL LOAD FOR YEAR: 1879287 TONS.												

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
OCT 07...	1430	454	14.0	1980	2430	51	62	79	94	98	100	--
MAR 04...	1400	840	1.0	6620	15000	37	45	60	73	90	100	--
MAR 16...	1100	457	6.5	578	713	38	41	54	74	82	93	100
APR 14...	1100	578	11.5	897	1400	29	32	49	78	90	100	--
MAY 07...	1300	1520	9.5	2930	12000	22	27	37	73	92	99	100
JUN 15...	1000	2290	13.0	1290	7980	12	14	17	38	62	95	100
AUG 03...	1030	618	21.0	3660	6110	59	72	94	97	98	100	--

GREEN RIVER BASIN

123

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

LOCATION.--Lat 39°58'24", long 109°07'40", in NW¼SE¼SW¼, sec.5, T.10 S., R.25 E., Uintah County, Hydrologic Unit 14050007, on right bank 0.1 mi (0.2 km) upstream from mouth and 6.5 mi (10.5 km) north of Watson.

DRAINAGE AREA.--24.5 mi² (63.5 km²).

PERIOD OF RECORD.--October 1974 to Jan. 6, 1976, and Feb. 24, 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,040 ft (1,536 m) from topographic map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--7 years (1975, 1977-82), 0.069 ft³/s (0.002 m³/s), 50 acre-ft/yr (61,650 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 473 ft³/s (13.4 m³/s) Aug. 12, 1975, gage height, 3.75 ft (1.143 m), from rating curve extended above 88 ft³/s (2.49 m³/s) on basis of slope-area measurement of peak flow; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 199 ft³/s (5.64 m³/s) Oct. 11, gage height 2.93 ft (0.893 m); no flow most of time.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.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	5.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.10	.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	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.0
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.0
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.0	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.3
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.0	2.2
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.0	1.0
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	2.0
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	18.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	11.00	10.50
MEAN	.58	.000	.000	.000	.000	.000	.000	.000	.000	.000	.35	.35
MAX	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.0	3.0
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	36	.00	.00	.00	.00	.00	.00	.00	.00	.00	22	21

CAL YR 1981 TOTAL 23.82 MEAN .065 MAX 13 MIN .00 AC-FT 47
WTR YR 1982 TOTAL 39.60 MEAN .11 MAX 13 MIN .00 AC-FT 79

LOCATION.--Lat 39°47'52", long 109°04'27", in SW₄SW₄ sec.1, T.12 S., R.25 E., Uintah County, Hydrologic Unit 14050007, on right bank 0.5 mi (0.8 km) upstream from Missouri Creek and 0.8 mi (1.3 km) north of Dragon.

DRAINAGE AREA.--100 mi² (259 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 5,680 ft (1,731 m) from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--8 years, 1.41 ft³/s (0.040 m³/s), 1,020 acre-ft/yr (1.26 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,050 ft³/s (58.1 m³/s) Aug. 21, 1982, gage height, 10.48 ft (3.194 m), from rating curve extended above 835 ft³/s (23.6 m³/s); minimum, 0.04 ft³/s (0.001 m³/s) Feb. 23, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,050 ft³/s (58.1 m³/s) Aug. 21, gage height, 10.48 ft (3.194 m)
minimum daily, 0.15 ft³/s (0.004 m³/s) Aug. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.70	1.5	.86	.56	.56	.33	.40	.60	.67	.28	.15	.67
2	.68	1.4	.75	.56	.57	.33	.40	.60	.64	.28	.15	.64
3	.66	1.4	.64	.56	.50	.35	.40	.60	.64	.28	5.0	.60
4	13	1.3	.53	.56	.45	.35	.40	.64	.64	.26	.25	.60
5	29	1.4	.38	.52	.41	.35	.40	.64	.60	.28	.25	.64
6	7.0	1.4	.53	.54	.38	.60	.40	.60	.60	.28	.25	.40
7	2.5	1.4	.64	.52	.42	.38	.40	.64	.60	.28	.25	.35
8	12	1.4	.64	.48	.46	.40	.60	.75	.60	.28	.25	.35
9	1.3	1.4	.60	.50	.51	.38	.43	.75	.60	.30	.25	.33
10	1.1	1.3	.60	.52	.54	.40	.50	.81	.57	.28	.25	.40
11	23	1.3	.60	.54	.56	.40	.40	1.1	.53	.28	.40	50
12	17	1.3	.64	.56	.59	.40	.40	1.2	.53	.28	4.5	2.9
13	2.1	1.1	.64	.56	.62	.46	.40	1.3	.53	.28	15	49
14	1.2	1.0	.67	.57	.70	.46	.40	1.1	.50	.28	1.1	.67
15	39	.92	.67	.56	.80	.46	.40	.98	.50	.26	.67	.67
16	11	.98	.68	.56	.95	.46	.40	.86	.50	.26	3.6	.86
17	2.5	.92	.66	.58	1.3	.50	.40	.81	.50	.26	.19	1.6
18	2.3	.92	.64	.61	2.5	.50	.43	.86	.46	.26	.38	1.6
19	2.1	.92	.68	.55	3.4	.50	.43	1.3	.46	.26	.21	5.6
20	2.1	.92	.68	.53	1.7	.57	.64	1.3	.46	.26	.19	1.1
21	1.8	.86	.68	.50	.81	.60	.75	.92	.53	.26	17	1.2
22	1.8	.86	.68	.47	.81	.71	.50	.75	.33	.26	4.5	1.3
23	1.7	.81	.60	.47	.53	.60	.50	.75	.33	.26	3.6	1.5
24	1.7	.81	.64	.52	.40	.60	.53	.75	.33	.28	.38	1.7
25	1.5	.75	.66	.58	.35	.50	.53	.71	.35	.26	.43	2.0
26	1.5	.60	.62	.57	.30	.40	.53	.71	.30	.28	.60	2.2
27	1.5	.50	.58	.55	.33	.40	.53	.71	.30	.28	.67	41
28	1.7	.65	.58	.51	.33	.40	.57	.71	.30	8.1	.67	39
29	1.7	.85	.58	.54	---	.40	.57	.67	.30	.26	.67	32
30	2.5	.75	.58	.51	---	.40	.57	.67	.28	.19	.67	5.6
31	1.5	---	.58	.50	---	.40	---	.67	---	.17	.67	---
TOTAL	189.14	31.62	19.51	16.66	21.78	13.99	14.21	25.46	14.48	16.08	63.15	246.48
MEAN	6.10	1.05	.63	.54	.78	.45	.47	.82	.48	.52	2.04	8.22
MAX	39	1.5	.86	.61	3.4	.71	.75	1.3	.67	8.1	17	50
MIN	.66	.50	.38	.47	.30	.33	.40	.60	.28	.17	.15	.33
AC-FT	375	63	39	33	43	28	28	50	29	32	125	489
CAL YR 1981	TOTAL 700.40		MEAN 1.92		MAX 39	MIN .35	AC-FT 1390					
WTR YR 1982	TOTAL 672.56		MEAN 1.84		MAX 50	MIN .15	AC-FT 1330					

GREEN RIVER BASIN

125

09306625 ASPHALT WASH NEAR MOUTH, NEAR WATSON, UTAH

LOCATION.--Lat 39°56'05", long 109°16'00" in NE¼NE¼SE¼ sec.24, T.10 S., R.23 E., Uintah County, Hydrologic Unit 14050007, on right bank 1.3 mi (2.1 km) upstream from mouth, and 6.7 mi (10.8 km) northwest of Watson.

DRAINAGE AREA.--97.5 mi² (253 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 4,950 ft (1,509 m) from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--8 years, 0.24 ft³/s (0.007 m³/s), 174 acre-ft/yr (215,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,680 ft³/s (104 m³/s) Sept. 5, 1982, gage height, 9.70 ft (2.957 m), from slope-area measurement of peak flow; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,680 ft³/s (104 m³/s) Sept. 5, gage height, 9.70 ft (2.957 m), from slope-area measurement of peak flow; no flow most of time.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.5	.00
3	.00	.00	.00	.00	.00	.50	.00	.02	.00	.00	.00	.00
4	.36	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	200
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.0
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	7.2	.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	.71	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.50
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	44	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.50	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	7.74	.00	.00	.00	.00	.50	.00	.02	.00	.00	46.71	205.50
MEAN	.25	.000	.000	.000	.000	.016	.000	.001	.000	.000	1.51	6.85
MAX	7.2	.00	.00	.00	.00	.50	.00	.02	.00	.00	44	200
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	15	.00	.00	.00	.00	1.0	.00	.04	.00	.00	93	408
CAL YR 1981	TOTAL	21.85	MEAN .060	MAX 14	MIN .00	AC-FT 43						
WTR YR 1982	TOTAL	260.47	MEAN .71	MAX 200	MIN .00	AC-FT 517						

GREEN RIVER BASIN

09306800 BITTER CREEK NEAR BONANZA, UTAH

LOCATION.--Lat 39°45'12", long 109°21'15", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ 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 mi² (839 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 5,570 ft (1,698 m) from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Small reservoirs on tributaries above station.

AVERAGE DISCHARGE.--12 years, 1.70 ft³/s (0.048 m³/s), 1,230 acre-ft/yr (1.52 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,790 ft³/s (50.7 m³/s) Sept. 5, 1982, gage height, 13.82 ft (4.212 m) from floodmarks; rating curve extended above 6 ft³/s (0.170 m³/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 ft³/s (0.71 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Oct. 5	0215	72	2.04	6.20	1.890
Oct. 11	2115	98	2.78	6.60	2.012
Feb. 17	2300	60	1.70	5.98	1.823
Aug. 11	2230	328	9.57	8.77	2.673
Sept. 5	1830	*1,790	50.7	13.82	4.212

No flow part of several days in June, July, and August.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.93	3.1	2.4	1.3	2.8	5.5	2.8	2.7	1.4	.18	.17	.37
2	1.1	3.1	2.2	1.4	2.7	5.9	2.8	2.8	1.2	.15	.16	.36
3	1.5	3.1	2.5	1.3	2.8	6.6	2.9	2.7	1.1	.13	.17	.37
4	3.1	3.1	2.2	1.3	2.4	5.5	2.9	2.2	1.0	.13	.15	.37
5	27	3.1	1.9	1.3	2.0	4.6	2.7	2.2	.92	.16	.14	150
6	2.7	3.1	2.6	1.2	2.3	3.9	2.9	2.2	.83	.23	.13	2.0
7	2.0	3.1	3.7	1.0	2.3	3.7	2.9	2.2	.80	.18	.12	.70
8	2.2	3.0	3.5	1.0	2.4	3.8	2.9	2.1	.50	.19	.15	.50
9	2.3	3.0	3.1	1.1	2.4	4.1	2.7	1.7	.51	.26	.29	.45
10	2.0	3.0	2.8	1.2	2.3	4.7	2.6	2.1	.61	.17	.45	10
11	17	3.1	3.3	1.3	2.0	4.9	2.7	2.6	.57	.12	18	1.0
12	10	3.1	3.3	1.2	1.9	5.1	2.7	2.6	.53	.11	17	.60
13	4.3	3.1	3.0	1.3	2.2	4.6	2.6	2.5	.48	.20	34	.50
14	3.3	3.0	2.8	1.6	2.8	4.6	2.7	2.4	.46	.24	10	.45
15	3.7	3.0	2.8	1.7	3.5	5.0	2.6	2.3	.45	.16	46	.45
16	7.6	3.0	3.0	1.7	3.8	5.1	2.5	2.2	.43	.11	1.7	.70
17	3.9	3.0	2.6	2.2	4.4	4.6	2.5	2.2	.42	.09	1.8	.60
18	3.1	3.0	2.3	2.7	5.0	4.2	2.6	2.2	.41	.08	9.7	.56
19	3.0	3.0	2.1	3.1	6.2	3.9	2.4	2.3	.39	.07	.49	.56
20	3.0	3.1	2.3	3.0	7.4	3.6	2.4	2.3	.35	.07	.41	.56
21	2.8	3.0	2.1	3.0	8.4	3.4	2.6	2.2	.33	.06	1.2	.44
22	2.8	3.0	1.9	2.7	9.9	3.3	2.4	2.1	.32	.09	4.3	.40
23	2.8	3.1	1.8	2.3	10	2.7	2.5	1.9	.35	.08	3.4	.40
24	3.0	3.0	1.8	2.6	8.0	3.1	2.6	1.8	.34	.09	.49	.40
25	3.0	3.1	2.0	2.3	6.5	2.9	2.5	1.8	.29	.16	.42	.42
26	3.0	2.8	1.9	2.6	5.9	3.3	2.5	1.7	.29	.10	.81	.49
27	3.0	2.4	1.3	3.1	6.3	3.4	2.6	1.6	.24	2.8	1.7	1.7
28	3.0	2.3	.92	3.0	5.9	2.9	2.6	1.6	.21	2.2	.42	3.6
29	3.1	2.1	1.1	3.1	---	3.0	2.5	1.5	.19	.52	.41	6.0
30	3.2	2.0	1.3	2.7	---	3.0	2.4	1.5	.18	.30	.40	1.1
31	3.1	---	1.3	2.7	---	2.7	---	1.1	---	.20	.38	---
TOTAL	136.53	87.9	71.82	62.0	124.5	127.6	79.0	65.3	16.10	9.63	154.96	186.05
MEAN	4.40	2.93	2.32	2.00	4.45	4.12	2.63	2.11	.54	.31	5.00	6.20
MAX	27	3.1	3.7	3.1	10	6.6	2.9	2.8	1.4	2.8	46	150
MIN	.93	2.0	.92	1.0	1.9	2.7	2.4	1.1	.18	.06	.12	.36
AC-FT	271	174	142	123	247	253	157	130	32	19	307	369

CAL YR 1981 TOTAL 1140.97 MEAN 3.13 MAX 27 MIN .00 AC-FT 2260
WTR YR 1982 TOTAL 1121.39 MEAN 3.07 MAX 150 MIN .06 AC-FT 2220

GREEN RIVER BASIN

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09306850 BITTER CREEK AT MOUTH, NEAR BONANZA, UTAH

LOCATION.--Lat 39°57'56", long 109°24'59", in NE¼SE¼NE¼ sec.10, T.10 S., R.22 E., Uintah County, Hydrologic Unit 14050007, on left bank 0.6 mi (1.0 km) upstream from mouth and 13 mi (20.9 km) southwest of Bonanza.

DRAINAGE AREA.--398 mi² (1,031 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder and artificial control. Altitude of gage is 4,770 ft (1,454 m) from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--8 years, 1.24 ft³/s (0.035 m³/s) 898 acre-ft/yr (1.11 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 772 ft³/s (21.9 m³/s) Sept. 6, 1982, gage height, 5.90 ft (1.798 m), on basis of slope-area measurement; minimum daily, 0.10 ft³/s (0.003 m³/s) July 2, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 772 ft³/s (21.9 m³/s) Sept. 6, gage height, 5.90 ft (1.798 m) on basis of slope-area measurement; minimum daily, 0.33 ft³/s (0.009 m³/s) Oct. 3.

REVISIONS.--The maximum discharge for water year 1981 has been revised to 85 ft³/s (2.41 m³/s) July 9, gage height, 3.13 ft (0.954 m) superseding figure published in the report for 1981.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.34	1.4	.56	.54	.54	11	1.2	.97	.72	.54	.60	.67
2	.34	1.4	.58	.54	.60	11	1.3	.97	.72	.54	.60	.59
3	.33	1.5	.58	.54	1.3	12	1.2	1.2	.66	.54	.72	.54
4	1.1	1.5	.57	.54	.66	10	1.2	1.3	.66	.49	.66	.45
5	11	1.5	.56	.54	.60	6.8	1.2	1.2	.66	.54	.72	.51
6	14	1.5	.56	.54	.60	3.8	1.3	1.2	.66	.54	.72	139
7	1.1	1.4	.56	.54	.54	2.6	1.4	1.2	.66	.54	.72	1.8
8	.52	1.4	.56	.54	.54	1.2	1.3	1.2	.66	.54	.87	1.3
9	.46	1.4	.57	.54	.60	.72	1.4	1.1	.66	.54	.87	1.1
10	.46	1.5	.60	.54	.60	.60	1.3	.97	.66	.54	.78	17
11	8.5	1.6	.60	.54	.60	.66	1.3	1.3	.66	.54	1.2	1.7
12	18	1.6	.60	.54	.60	.60	1.2	1.5	.66	.54	11	1.3
13	5.7	1.7	.60	.54	.66	.60	1.2	1.5	.66	.54	6.8	1.3
14	2.7	1.7	.60	.54	.66	.60	1.2	1.4	.66	.54	34	1.2
15	2.3	1.7	.60	.54	.66	.66	1.3	1.1	.66	.54	15	1.0
16	3.0	1.6	.60	.54	.66	.97	1.3	1.1	.66	.54	21	.93
17	4.6	1.7	.60	.54	.60	1.2	1.3	.87	.66	.49	7.8	.63
18	1.7	1.7	.60	.54	1.7	1.2	1.3	.87	.60	.54	6.8	.60
19	.78	.67	.60	.54	7.1	1.3	1.3	.97	.60	.54	8.2	.60
20	.73	.41	.60	.54	6.2	1.2	1.3	1.1	.60	.54	1.4	1.5
21	.73	.62	.60	.54	9.2	.97	1.2	.97	.60	.54	.92	1.1
22	.67	1.2	.60	.54	13	.97	1.3	.87	.60	.54	1.8	.60
23	.62	1.8	.54	.60	18	.97	1.2	.78	.60	.54	11	.59
24	.73	1.4	.60	.54	13	.87	1.2	.72	.60	.54	2.7	.57
25	1.1	1.2	.60	.54	15	.97	1.1	.72	.60	.54	.78	.60
26	1.0	1.0	.60	.54	14	1.1	.97	.72	.60	.54	.62	.60
27	1.0	1.0	.60	.54	13	1.2	.97	.72	.54	.60	15	11
28	.78	1.0	.60	.54	12	1.3	.87	.66	.54	.54	19	3.1
29	1.4	1.0	.60	.54	---	1.3	.87	.66	.54	.54	1.5	4.3
30	1.6	.90	.60	.54	---	1.4	.97	.72	.54	.60	.97	3.7
31	1.6	---	.60	.54	---	1.3	---	.72	---	.60	.77	---
TOTAL	88.89	40.00	18.24	16.80	133.22	81.06	36.15	31.28	18.90	16.82	175.52	199.88
MEAN	2.87	1.33	.59	.54	4.76	2.61	1.21	1.01	.63	.54	5.66	6.66
MAX	18	1.8	.60	.60	18	12	1.4	1.5	.72	.60	34	139
MIN	.33	.41	.54	.54	.54	.60	.87	.66	.54	.49	.60	.45
AC-FT	176	79	36	33	264	161	72	62	37	33	348	396

CAL YR 1981 TOTAL 653.62 MEAN 1.79 MAX 18 MIN .30 AC-FT 1300
WTR YR 1982 TOTAL 856.76 MEAN 2.35 MAX 139 MIN .33 AC-FT 1700

GREEN RIVER BASIN

09306850 BITTER CREEK AT MOUTH, NEAR BONANZA, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1974 to current year. Prior to 1979 water year, published in "Hydrologic and Climatologic Data" reports for Utah.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1976 to September 1978.

WATER TEMPERATURES: April to September 1977.

SEDIMENT DATA: October 1976 to August 1978, periodically.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
DEC 09...	1430	.56	14000	8.0	5.5	9.0	10.3	--	23	38
JAN 22...	1245	.55	14000	8.0	1.5	7.0	10.6	--	--	--
MAY 06...	1300	1.3	11000	8.0	12.0	17.0	--	641	--	--

DATE	STREP- TOCOCCEI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAB (MG/L AS CACO3)
DEC 09...	170	3000	2400	270	560	3200	70	26	11	590
JAN 22...	--	3000	2400	290	560	3300	70	26	11	680
MAY 06...	--	3000	2500	290	560	2200	61	17	11	523

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
DEC 09...	8500	240	.9	12	13200	18.0	20.0	2.4	.020	.06
JAN 22...	9600	260	.7	.2	14500	19.7	21.5	2.6	.030	.09
MAY 06...	6900	160	8.4	7.0	10500	14.3	37.1	.99	.020	.06

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
DEC 09...	1430	12000	110	190
JAN 22...	1245	11000	90	180
MAY 06...	1300	7100	80	110

GREEN RIVER BASIN

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09306878 COYOTE WASH NEAR MOUTH, NEAR OURAY, UTAH

LOCATION.--Lat 40°03'15", long 109°28'36", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ 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 mi² (591 km²).

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.

AVERAGE DISCHARGE.--6 years, 4.43 ft³/s (0.125 m³/s), 3,210 acre-ft/yr (3.96 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 852 ft³/s (24.1 m³/s) Oct. 5, 1981, gage height, 5.27 ft (1.606 m); maximum gage height, 5.65 ft (1.722 m) Feb. 20, 1980 (shifting control); no flow most of the time each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 852 ft³/s (24.1 m³/s) Oct. 5, gage height, 5.27 ft (1.606 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.04	.00	.00	.00	9.1	.00	.00	.00	.00	.00	.00
2	3.0	.00	.00	.00	.00	8.2	.00	.00	.00	.00	.00	.00
3	2.0	.00	.00	.00	.00	244	.00	.00	.00	.00	11	.00
4	178	.00	.00	.00	.00	58	.00	1.0	.00	.00	.38	.00
5	280	.00	.00	.00	.00	7.8	.00	.00	.00	.00	.00	.00
6	19	.00	.00	.00	.00	.80	.00	.00	.00	.00	.00	.00
7	3.1	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00
8	2.4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	1.5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.87	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	286	.00	.00	.00	.00	.00	.00	.00	.00	.00	155	.10
12	291	.00	.00	.00	.00	.00	.00	.00	.00	.00	53	.00
13	78	.00	.00	.00	.00	.00	.00	.00	.00	.00	169	38
14	10	.00	.00	.00	.00	.00	.00	.00	.00	.00	48	16
15	10	.00	.00	.00	.70	.00	.00	.00	.00	.00	3.7	.82
16	163	.00	.00	.00	12	.00	.00	.00	.00	.00	3.2	1.9
17	7.2	.00	.00	.00	29	.00	.00	.00	.00	.00	.00	.06
18	1.7	.00	.00	.00	71	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.13	.00	77	.00	.00	.00	.00	.00	.00	.09
20	.00	.00	.16	.00	53	.00	.00	.00	.00	.00	.00	72
21	.00	.00	.70	.00	35	.00	.00	.00	.00	.00	.00	3.4
22	.99	.00	3.6	.00	27	.00	.00	.00	.00	.00	.00	.00
23	.54	.00	.90	.00	18	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	16	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	14	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	13	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	12	.00	.00	.00	.00	.00	.00	188
28	.00	.00	.00	.00	11	.00	.00	.00	.00	1.1	.00	104
29	.00	.00	.00	.00	---	.00	.00	.00	.00	24	33	104
30	4.7	.00	.00	.00	---	.00	.00	.00	.00	.92	.00	12
31	2.5	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	1345.50	.04	5.49	.00	388.70	327.92	.00	1.00	.00	26.02	476.28	540.37
MEAN	43.4	.001	.18	.000	13.9	10.6	.000	.032	.000	.84	15.4	18.0
MAX	291	.04	3.6	.00	77	244	.00	1.0	.00	24	169	188
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	2670	.08	11	.00	771	650	.00	2.0	.00	52	945	1070
CAL YR 1981	TOTAL	1634.53	MEAN 4.48	MAX 291	MIN .00	AC-FT 3240						
WTR YR 1982	TOTAL	3111.32	MEAN 8.52	MAX 291	MIN .00	AC-FT 6170						

GREEN RIVER BASIN

09306878 COYOTE WASH NEAR MOUTH, NEAR OURAY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1977 to current year. Prior to 1979 water year, published in "Hydrologic and Climatologic Data" reports for Utah.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: October 1976 to September 1978, October 1979 to current year, daily. March 1979 to August 1979, periodically.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT LOADS: Maximum daily, 107,900 tons (97,900 tonnes) Feb. 20, 1980; no flow many days.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily, 44,900 mg/L Oct. 4; no flow many days.

SEDIMENT LOADS: Maximum daily, 24,900 tons (22,590 tonnes) Oct. 5; no flow many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)
OCT 05...	1800	59	360	8.8	17.0	15.0	7.9	12	.00
AUG 12...	1400	11	550	8.8	29.0	22.0	6.0	53	.00
DATE	AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 05...	3.5	.7	57	91	7.7	1.1	83	18	9.6
AUG 12...	17	2.6	130	83	8.1	2.2	204	82	12
DATE	AS F)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
OCT 05...	.7	12	154	.21	24.5	.30	--	--	--
AUG 12...	.6	24	399	.54	11.9	1.2	.560	1.7	
DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)					
OCT 05...	1800	180	330	6					
AUG 12...	1400	290	450	13					

09306878 COYOTE WASH NEAR MOUTH, NEAR OURAY, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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	---	---	4900	.53	---	---	---	---	---	---	6300	155
2	15800	128	---	---	---	---	---	---	---	---	6200	137
3	40900	221	---	---	---	---	---	---	---	---	27500	18100
4	44900	21600	---	---	---	---	---	---	---	---	9800	1530
5	33000	24900	---	---	---	---	---	---	---	---	8400	177
6	15800	811	---	---	---	---	---	---	---	---	5020	11
7	8000	67	---	---	---	---	---	---	---	---	2500	.14
8	7000	45	---	---	---	---	---	---	---	---	---	---
9	5500	22	---	---	---	---	---	---	---	---	---	---
10	4800	11	---	---	---	---	---	---	---	---	---	---
11	30000	23200	---	---	---	---	---	---	---	---	---	---
12	31500	24700	---	---	---	---	---	---	---	---	---	---
13	21500	4530	---	---	---	---	---	---	---	---	---	---
14	15000	405	---	---	---	---	---	---	---	---	---	---
15	11000	297	---	---	---	---	---	---	1500	2.8	---	---
16	33500	14700	---	---	---	---	---	---	20500	664	---	---
17	8960	174	---	---	---	---	---	---	18200	1430	---	---
18	3200	15	---	---	---	---	---	---	20800	3990	---	---
19	---	---	---	---	4380	1.5	---	---	14200	2950	---	---
20	---	---	---	---	3200	1.4	---	---	8000	1140	---	---
21	---	---	---	---	2500	4.7	---	---	8800	832	---	---
22	11200	30	---	---	3520	34	---	---	9200	671	---	---
23	10200	15	---	---	1250	3.0	---	---	8400	408	---	---
24	---	---	---	---	---	---	---	---	9300	402	---	---
25	---	---	---	---	---	---	---	---	8700	329	---	---
26	---	---	---	---	---	---	---	---	7600	267	---	---
27	---	---	---	---	---	---	---	---	7000	227	---	---
28	---	---	---	---	---	---	---	---	6500	193	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	19000	241	---	---	---	---	---	---	---	---	---	---
31	13000	88	---	---	---	---	---	---	---	---	---	---
TOTAL	---	116200	---	0.53	---	44.6	---	---	---	13505.8	---	20110.14
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	7600	21	---	---	---	---	30500	906	---	---
5	---	---	---	---	---	---	---	---	12500	13	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	21600	9040	788	.21
12	---	---	---	---	---	---	---	---	28000	4010	---	---
13	---	---	---	---	---	---	---	---	32200	14700	19400	1990
14	---	---	---	---	---	---	---	---	33700	4370	34500	1490
15	---	---	---	---	---	---	---	---	15000	150	9900	22
16	---	---	---	---	---	---	---	---	4000	35	8400	43
17	---	---	---	---	---	---	---	---	---	---	2900	.47
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	625	.15
20	---	---	---	---	---	---	---	---	---	---	29900	5810
21	---	---	---	---	---	---	---	---	---	---	18000	165
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	40200	20400
28	---	---	---	---	---	---	4640	14	---	---	37200	10400
29	---	---	---	---	---	---	32600	2110	35000	3120	34700	9740
30	---	---	---	---	---	---	14100	35	---	---	11500	373
31	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	21	---	---	---	2159	---	36344	---	50433.83

TOTAL LOAD FOR YEAR: 238818.90 TONS

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

GREEN RIVER BASIN

09306878 COYOTE WASH NEAR MOUTH, NEAR OURAY, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (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												
05...	1700	59	15.0	22900	3650	69	83	94	99	100	--	--
06...	1730	4.7	18.0	14100	179	95	97	98	99	99	100	--
FEB												
19...	1730	26	3.0	7380	518	58	68	85	97	99	100	--
MAR												
03...	1710	454	3.5	38400	47100	45	51	70	89	96	99	100
05...	1200	5.5	5.0	7870	117	94	96	98	99	99	100	--
AUG												
12...	1400	11	22.0	18800	558	71	83	96	98	--	--	--

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2000 1500 1000 500 0

DRAINAGE AREA.--5,120 mi² (13,260 km²), approximately.

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

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of about 33,200 acres (134 km²) above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,260 ft³/s (121 m³/s) Mar. 29, 1979, gage height, 7.71 ft (2.350 m); minimum, 1.6 ft³/s (0.045 m³/s) July 18, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,630 ft³/s (74.5 m³/s) May 29, gage height, 6.73 ft (2.051 m); minimum observed, 113 ft³/s (3.20 m³/s) Jan. 13.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	262	560	350	360	410	1040	443	984	2470	1930	654	452
2	265	490	150	350	410	1100	414	913	2200	1930	540	435
3	314	457	180	330	410	1400	424	1140	2130	2020	540	414
4	499	476	190	200	410	1600	441	1360	2100	1920	672	395
5	1550	455	160	180	410	913	426	1480	2040	1710	702	392
6	1330	451	350	220	340	831	403	1650	1850	1560	636	829
7	869	448	426	210	290	623	419	1500	1940	1510	535	657
8	756	435	469	200	240	523	418	1390	1900	1410	463	593
9	792	413	463	210	210	486	424	1320	1900	1320	448	489
10	903	411	441	240	230	471	407	1330	2030	1260	648	449
11	1180	408	483	220	300	497	396	1380	2090	1350	637	724
12	2270	407	484	190	380	514	399	1420	2020	1270	855	848
13	1690	396	489	160	450	564	389	1340	1860	1180	986	927
14	1190	391	482	300	500	601	437	1470	1950	1130	922	1020
15	854	382	472	410	450	533	567	1440	1950	1040	790	961
16	1340	396	481	420	500	486	565	1290	1970	1000	736	747
17	1110	389	423	440	600	499	636	1220	1880	939	641	720
18	903	437	381	450	650	514	662	1230	1730	867	586	737
19	720	387	368	460	700	505	642	1240	1890	808	522	709
20	600	393	400	470	820	487	654	1330	2030	773	645	791
21	515	407	365	470	900	451	658	1510	2020	733	566	671
22	452	393	370	440	850	430	611	1570	1990	685	635	597
23	448	390	360	420	900	401	571	1640	2010	666	697	563
24	448	418	316	430	1000	371	564	1910	2010	631	734	551
25	416	420	281	440	1100	381	579	2030	1950	617	466	550
26	402	427	193	450	1150	383	613	2080	1950	562	409	555
27	434	386	171	470	1100	394	706	2080	1940	666	474	789
28	430	374	420	460	1000	407	820	2190	1860	630	470	977
29	425	393	380	450	---	424	853	2400	1900	780	721	1160
30	425	330	370	440	---	437	859	2510	1960	1050	523	1100
31	466	---	360	420	---	432	---	2430	---	804	469	---
TOTAL	24258	12520	11228	10910	16710	18698	16400	48777	59520	34751	19322	20802
MEAN	783	417	362	352	597	603	547	1573	1984	1121	623	693
MAX	2270	560	489	470	1150	1600	859	2510	2470	2020	986	1160
MIN	262	330	150	160	210	371	389	913	1730	562	409	392
AC-FT	48120	24830	22270	21640	33140	37090	32530	96750	118100	68930	38330	41260
CAL YR 1981	TOTAL	173059	</									

GREEN RIVER BASIN

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

LOCATION.--Daily sediment samples collected at bridge 3.4 mi (5.5 km) downstream from gaging station and by U.S.P.S. 69 pumping sediment sampler at gaging station since March 1977.

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1976 to current year.

WATER TEMPERATURES: April 1977 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1974 to current year.

REMARKS.--Specific-conductance and water-temperature recorders were not operated during the winter period. Prior to 1979 water year, specific conductance and water temperature values, published in "Hydrologic and Climatologic Data" reports for Utah.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded (more than 20 percent missing record), 1,900 micromhos July 6, 1977; minimum recorded, 250 micromhos Aug. 1, 3, 1982.

WATER TEMPERATURES: Maximum recorded (more than 20 percent missing record), 34.5°C June 26, 1981; minimum, 0.0°C on many days during winter periods.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 48,400 mg/L Sept. 13, 1982; minimum daily mean, 20 mg/L Jan. 8, 1976.

SEDIMENT LOADS: Maximum daily, 268,000 tons (243,000 tonnes) Mar. 29, 1979; minimum daily, 0.69 ton (0.63 tonne) July 2, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily mean, 1,170 micromhos Dec. 31; minimum daily mean, 321 micromhos July 29.

WATER TEMPERATURES: Maximum recorded 27.0°C July 23, Aug. 21; minimum, 0.0°C many days during winter period.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 48,400 mg/L Sept. 13, 14; minimum daily mean, 261 mg/L Dec. 26.

SEDIMENT LOADS: Maximum daily, 175,000 tons (154,000 tonnes) Oct. 12; minimum daily, 126 tons (114 tonnes) Dec. 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT 21...	1000	510	850	8.0	5.0	9.0	400	8.9	652	2100
JAN 13...	1300	113	1090	7.9	-5	.0	14	11.7	650	K4
MAR 15...	1145	540	980	*8.3	13.0	7.5	1600	9.7	636	K20
MAY 20...	1100	1350	510	8.0	15.0	14.5	280	8.2	650	120
JUL 27...	1230	666	560	8.2	27.5	25.0	700	6.5	654	K300
SEP 22...	1230	595	780	8.2	24.5	19.5	880	7.4	652	180

DATE	STREP- TOCOCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT 21...	5200	290	95	68	28	75	36	2.1	3.2
JAN 13...	34	380	120	91	36	99	36	2.4	2.3
MAR 15...	7400	310	110	71	31	120	46	3.3	2.8
MAY 20...	280	210	60	53	18	30	24	1.0	1.8
JUL 27...	2500	210	47	55	17	42	30	1.4	1.6
SEP 22...	3800	260	80	66	24	54	31	1.6	2.7

* Laboratory value.

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

GREEN RIVER BASIN

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09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

		ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)				
OCT 21...		190	210	29	.3	14	547	542	.74	753				
JAN 13...		260	260	40	.4	16	729	701	.99	222				
MAR 15...		200	280	30	.3	11	662	667	.90	965				
MAY 20...		147	110	9.9	.2	12	315	323	.43	1150				
JUL 27...		160	110	18	.3	15	350	355	.48	629				
SEP 22...		184	190	16	.3	13	485	477	.66	779				
DATE		NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)				
OCT 21...		<.060	.08	.90	<.09	.050	.15	.050	<.010	--				
JAN 13...		.130	.17	.55	.14	.010	.03	.010	.010	.03				
MAR 15...		.120	.15	.72	.24	1.00	3.1	.020	.020	.06				
MAY 20...		.110	.14	1.80	.13	.030	.09	.020	<.010	--				
JUL 27...		.240	.31	2.70	.19	.120	.37	.180	.060	.18				
SEP 22...		.090	.12	4.10	.15	1.70	5.2	.960	.040	.12				
DATE		TIME	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	
OCT 21...		1000	1300	5	3	2	300	200	94	<10	1	<1	20	
MAR 15...		1145	36000	10	8	2	600	500	80	<10	2	<1	50	
MAY 20...		1100	12000	6	3	2	500	400	59	<10	<1	<3	<10	
SEP 22...		1230	25000	5	3	2	600	500	97	<10	<1	<1	40	
DATE		TIME	CHRO- MIUM, SUS- PENDE RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDE RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)
OCT 21...		10	10	7	--	<3	46	43	3	19000	19000	16	14	
MAR 15...		--	<10	15	14	1	54	51	3	55000	55000	110	29	
MAY 20...		--	<10	9	--	<1	34	29	5	20000	20000	21	6	
SEP 22...		--	<10	22	--	<1	90	--	<1	52000	52000	24	75	

GREEN RIVER BASIN

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
OCT 21...	13	1	40	430	430	3	.2	.2	.0	3	19
MAR 15...	27	2	80	820	810	6	.2	--	<.1	4	47
MAY 20...	--	<1	30	680	--	<3	.1	--	<.1	3	21
SEP 22...	--	<1	50	1400	1400	3	.3	.2	.1	<1	57

DATE	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, SUS- PENDE RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 21...	18	1	3	0	3	1	1	0	110	100	6
MAR 15...	44	3	5	2	3	<1	--	<1	300	270	28
MAY 20...	20	1	2	1	1	1	--	<1	110	--	<12
SEP 22...	--	<1	3	2	1	2	--	<1	260	240	20

DATE	TIME	CYANIDE TOTAL (MG/L AS CN)
OCT 21...	1000	>.01
MAR 15...	1145	<.01
MAY 20...	1100	<.01

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	848	784	559	1120	838	---	878	585	364	350	390	678
2	845	781	768	1050	858	---	872	550	374	376	542	717
3	870	783	983	981	887	---	859	530	383	359	416	684
4	890	784	947	966	885	---	853	509	381	350	---	686
5	780	788	955	964	903	---	845	486	383	355	---	690
6	655	790	930	951	935	---	743	450	387	368	742	781
7	740	795	891	947	952	---	792	423	384	380	624	748
8	820	798	925	964	1000	---	826	444	370	394	704	700
9	905	803	851	1030	1050	---	833	468	389	420	758	675
10	985	805	848	1040	1070	---	875	485	381	442	783	670
11	1060	809	840	1050	1100	---	918	479	378	456	799	698
12	1010	813	845	1100	1090	---	957	468	376	465	596	648
13	1000	813	847	1120	1100	---	976	467	381	467	698	635
14	1010	812	853	1110	982	---	970	482	382	478	700	---
15	1000	813	844	1060	912	---	936	575	379	463	737	---
16	985	814	843	1020	868	---	900	576	379	455	656	---
17	955	850	851	889	852	---	854	591	380	496	609	---
18	940	881	875	829	858	---	813	575	386	467	685	---
19	920	881	872	820	773	---	813	555	382	415	681	---
20	905	864	850	825	775	---	730	530	367	430	663	---
21	890	848	848	820	785	---	728	562	361	443	631	---
22	875	854	778	818	760	---	706	475	359	482	622	---
23	860	865	916	824	792	---	705	444	350	506	748	---
24	840	847	879	838	796	953	722	452	351	517	700	---
25	810	866	895	848	781	946	742	448	357	506	794	---
26	790	818	935	860	---	977	737	412	365	523	661	---
27	780	645	941	873	---	921	721	395	370	530	668	---
28	780	697	1040	870	---	888	685	394	370	528	649	---
29	780	631	1080	870	---	859	650	380	371	321	710	---
30	780	643	1130	833	---	864	615	362	365	610	667	---
31	780	---	1170	832	---	885	---	355	---	745	650	---
MEAN	874	799	896	939	904	---	808	481	374	455	665	---

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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

GREEN RIVER BASIN

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

		STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI- MENT, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM
DATE	TIME						
OCT							
06...	1330	1270	11.5	--	17300	59300	45
12...	1445	2360	9.5	--	27300	174000	52
21...	1000	510	9.0	86	1360	1870	--
JAN							
13...	1300	113	.0	68	105	32	--
MAR							
05...	1700	948	3.0	--	6250	16000	46
15...	1145	540	7.5	96	2850	4160	--
MAY							
12...	1400	1470	12.5	--	3220	12800	21
20...	1100	1350	14.5	46	2660	9700	--
27...	1430	2040	16.0	--	3870	21300	18
JUN							
11...	1015	2120	15.0	--	2270	13000	15
JUL							
27...	1230	666	25.0	94	1920	3450	--
AUG							
25...	1130	469	21.5	--	38900	49300	38
		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 1.00 MM
DATE							
OCT							
06...	56	82	94	97	99	100	--
12...	53	75	89	93	99	100	--
21...	--	--	--	--	--	--	--
JAN							
13...	--	--	--	--	--	--	--
MAR							
05...	56	76	92	97	99	100	--
15...	--	--	--	--	--	--	--
MAY							
12...	24	31	69	89	99	100	--
20...	--	--	--	--	--	--	--
27...	20	28	60	83	93	96	97
JUN							
11...	18	25	60	88	99	100	--
JUL							
27...	--	--	--	--	--	--	--
AUG							
25...	71	97	100	--	--	--	--

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LOCATION.--Lat 40°04'58", long 109°52'22", in SW₄SE₄ 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.

WATER-DISCHARGE RECORDS

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 361 ft³/s (10.2 m³/s) Sept. 27, gage height, 8.48 ft (2.585 m); minimum daily, 6.1 ft³/s (0.17 m³/s) Apr. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	25	12	12	11	12	7.5	19	58	33	34	60
2	40	25	14	12	11	13	7.5	16	59	33	41	48
3	48	25	16	11	11	13	7.0	28	41	33	54	34
4	166	24	17	12	9.0	12	7.2	30	33	34	64	34
5	126	23	16	12	8.4	12	6.8	21	34	36	50	41
6	106	21	15	12	9.5	11	6.8	22	40	38	33	59
7	95	21	15	10	10	11	7.0	28	51	38	38	68
8	68	20	15	8.9	10	11	6.1	28	57	34	36	87
9	48	20	15	10	10	11	6.5	23	52	29	38	77
10	29	19	14	11	9.9	11	6.3	30	50	25	48	83
11	115	20	14	12	10	11	6.8	36	42	34	52	105
12	76	20	14	12	10	11	8.2	28	44	27	48	115
13	37	23	14	12	10	9.5	8.0	25	63	23	42	103
14	28	22	13	12	10	9.4	11	22	69	25	42	97
15	40	22	14	12	10	16	35	32	69	28	55	101
16	67	22	14	13	11	13	30	39	59	27	59	102
17	36	22	14	14	11	13	10	40	49	24	51	89
18	25	21	13	13	11	10	18	27	45	23	46	75
19	23	20	14	12	11	10	26	20	39	26	46	61
20	23	20	14	11	11	7.8	27	22	41	29	41	66
21	22	19	14	11	12	7.8	35	25	56	33	47	62
22	31	20	15	10	12	8.0	18	30	53	28	40	62
23	27	19	14	10	12	8.0	14	30	46	28	42	62
24	26	17	13	11	12	8.0	12	36	41	29	44	53
25	26	17	13	12	12	7.5	11	25	37	31	42	51
26	26	16	13	13	12	8.0	12	20	28	44	48	61
27	24	16	13	12	13	8.5	17	23	36	57	61	164
28	24	18	12	11	13	8.5	16	28	37	49	69	142
29	29	16	12	11	---	9.0	20	31	38	34	88	160
30	32	15	12	11	---	8.8	20	38	39	32	85	114
31	25	---	12	11	---	7.5	---	72	---	35	76	---
TOTAL	1526	608	430	356.9	302.8	317.3	423.7	894	1406	999	1560	2436
MEAN	49.2	20.3	13.9	11.5	10.8	10.2	14.1	28.8	46.9	32.2	50.3	81.2
MAX	166	25	17	14	13	16	35	72	69	57	88	164
MIN	22	15	12	8.9	8.4	7.5	6.1	16	28	23	33	34
AC-FT	3030	1210	853	708	601	629	840	1770	2790	1980	3090	4833

CAL YR 1981	TOTAL	10388.0	MEAN 28.5	MAX 166	MIN 5.0	AC-FT	20600
WTR YR 1982	TOTAL	11259.7	MEAN 30.8	MAX 166	MIN 6.1	AC-FT	22330

GREEN RIVER BASIN

09307200 PARIETTE DRAW NEAR OURAY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.

SEDIMENT DATA: October 1975 to current year, periodically.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)
OCT 29...	1210	29	3500	8.1	8.5	8.0	--	--	830	530
DEC 09...	1230	19	4050	8.0	5.0	.0	--	--	900	620
JAN 28...	1530	9.5	4110	7.3	2.5	.0	12.4	639	880	520
MAR 09...	1530	11	4880	*8.1	16.0	9.5	10.5	646	1200	870
APR 14...	1700	7.3	4900	8.0	21.5	17.0	8.6	638	970	680
MAY 25...	1515	24	2660	8.1	28.5	21.0	7.8	640	630	380
JUN 29...	1545	46	1920	8.1	34.5	23.0	7.5	642	470	240
JUL 22...	1500	27	2140	8.1	35.0	25.0	8.1	649	530	280
AUG 25...	1515	45	2090	8.1	30.0	21.0	8.0	646	570	300
SEP 27...	1315	82	1980	8.1	13.0	14.5	8.1	633	480	180

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 29...	170	98	630	62	9.5	3.3	300	1700	110
DEC 09...	180	110	640	61	9.3	2.8	280	1900	120
JAN 28...	170	110	710	64	10	3.0	360	2000	120
MAR 09...	260	130	780	59	9.9	4.0	310	2200	160
APR 14...	190	120	850	66	12	4.4	290	2300	160
MAY 25...	140	68	400	58	6.9	3.5	251	1100	71
JUN 29...	110	47	260	55	5.7	2.4	230	730	41
JUL 22...	120	55	290	54	5.5	2.2	242	780	48
AUG 25...	130	60	290	52	5.3	2.3	272	810	48
SEP 27...	110	49	280	56	6.1	3.6	296	740	48

* Laboratory value.

GREEN RIVER BASIN

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09307200 PARIETTE DRAW NEAR OURAY, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
OCT 29...	.7	12	2920	4.0	226	3.4	.050	--	--
DEC 09...	.7	15	3160	4.3	166	5.7	.010	--	--
JAN 28...	.7	17	3380	4.6	86.7	6.1	.110	.060	.18
MAR 09...	.7	26	3770	5.1	115	4.8	.010	--	--
APR 14...	.7	9.4	3830	5.2	75.5	4.9	<.010	--	--
MAY 25...	.6	12	1960	2.7	128	2.0	<.010	--	--
JUN 29...	.5	13	1350	1.8	168	1.2	.120	--	--
JUL 22...	.5	14	1460	2.0	107	1.1	.020	--	--
AUG 25...	.5	16	1530	2.1	184	1.0	.010	--	--
SEP 27...	.5	13	1430	1.9	318	1.4	.050	--	--

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT 29...	1210	1500
DEC 09...	1230	1500
JAN 28...	1530	1400
MAR 09...	1530	1600
APR 14...	1700	1700
MAY 25...	1515	1000
JUN 29...	1545	720
JUL 22...	1500	780
AUG 25...	1515	1100
SEP 27...	1315	770

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT 29...	1210	29	8.0	718	56
DEC 09...	1230	19	.0	928	49
JAN 28...	1530	9.5	.0	726	19
MAR 09...	1530	11	9.5	558	17
APR 14...	1700	7.3	17.0	424	8.4
MAY 25...	1515	24	21.0	672	44
JUN 29...	1545	46	23.0	1030	128
JUL 22...	1500	27	25.0	478	35

GREEN RIVER BASIN
09307250 PARIETTE DRAW NEAR EIGHTMILE FLAT, NEAR OURAY, UT

WATER-QUALITY RECORDS

LOCATION.--Lat 40°03'10, long 109°49'05", in SE¼SW¼SE¼ 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, periodically.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	HARD- NESS (MG/L AS CACO3)
OCT 29...	1715	29	3460	8.2	8.0	9.0	--	--	750
DEC 09...	1715	17	4190	8.0	-1.5	1.0	--	--	900
JAN 28...	1230	9.2	4120	7.3	1.0	1.0	13.6	642	840
MAR 09...	1400	.02	4820	7.8	17.0	8.5	11.4	648	910
APR 14...	1400	6.4	4980	8.1	22.0	15.5	9.4	641	980
MAY 25...	1215	21	2710	8.0	28.0	20.0	7.9	644	580
JUN 29...	1315	31	2180	8.1	32.0	23.0	7.7	645	540
JUL 22...	1315	26	2360	8.1	30.5	24.0	7.8	652	520
AUG 25...	1330	33	2220	8.2	29.5	23.0	7.8	649	550
SEP 27...	1130	89	1890	8.2	12.0	16.5	7.8	635	460

DATE	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT 29...	480	150	90	570	62	9.1	3.4	270	1400
DEC 09...	690	180	110	660	61	9.6	3.1	210	2000
JAN 28...	480	170	100	710	65	11	3.0	360	2000
MAR 09...	590	200	100	850	67	12	4.6	320	2100
APR 14...	720	180	130	880	66	12	4.1	260	2400
MAY 25...	340	120	67	430	62	7.8	3.7	232	1100
JUN 29...	330	120	59	330	57	6.2	2.5	217	910
JUL 22...	310	110	60	350	59	6.7	2.7	209	950
AUG 25...	300	120	62	330	56	6.1	2.8	254	900
SEP 27...	200	100	50	260	55	5.8	2.6	255	720

GREEN RIVER BASIN

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09307250 PARIETTE DRAW NEAR EIGHTMILE FLAT, NEAR OURAY, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 29...	100	.6	11	2500	3.4	197	2.9	--	.020
DEC 09...	130	.7	14	3250	4.4	153	5.1	--	.010
JAN 28...	130	.7	16	3380	4.6	84.0	6.2	--	<.010
MAR 09...	230	.7	26	3720	5.1	.21	3.8	--	.010
APR 14...	170	.7	7.8	3950	5.4	68.3	3.4	--	<.010
MAY 25...	88	.6	9.2	1960	2.7	113	1.2	.100	.050
JUN 29...	54	.5	12	1620	2.2	136	.68	--	.080
JUL 22...	63	.5	12	1680	2.3	119	.45	--	.020
AUG 25...	60	.6	14	1650	2.2	149	.59	--	.020
SEP 27...	48	.4	12	1350	1.8	325	.91	--	.020

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT 29...	1715	1500
DEC 09...	1715	1600
JAN 28...	1230	1500
MAR 09...	1400	2000
APR 14...	1400	1800
MAY 25...	1215	990
JUN 29...	1315	820
JUL 22...	1315	900
AUG 25...	1330	1200
SEP 27...	1130	770

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT 29...	1715	29	9.0	534	42
DEC 09...	1715	17	1.0	535	25
JAN 28...	1230	9.2	1.0	680	17
MAR 09...	1400	.02	8.5	517	.03
APR 14...	1400	6.4	15.5	529	9.1
MAY 25...	1215	21	20.0	328	19
JUN 29...	1315	31	23.0	309	26
JUL 22...	1315	26	24.0	326	23

09307300 PARIETTE DRAW AT MOUTH, NEAR OURAY, UTAH

LOCATION.--Lat 40°01'48", long 109°45'23", in NW¼NW¼SW¼ sec.14, T.9 S., R.19 E., Uintah County, Hydrologic Unit 14060005, on right bank 120 ft (37 m) downstream from dike for waterfowl habitat area, 0.8 mi (1.3 km) upstream from mouth, and 5.8 mi (9.3 km) southwest of Ouray.

DRAINAGE AREA.--298 mi² (772 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,650 ft (1,417 m) from topographic map.

REMARKS.--Records good except those for winter months and no gage-height record, Feb. 5 to Mar. 9, which are poor. Flow regulated by waterfowl habitat area. Diversions above station for irrigation of about 250 acres (1.0 km²) above and 100 acres (405,000 m²) below.

AVERAGE DISCHARGE.--7 years, 21.0 ft³/s (0.595 m³/s), 15,210 acre-ft/yr (18.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 450 ft³/s (12.7 m³/s) July 24, 1977 (may have been higher when the dam broke Mar. 29, 1979); no flow July 21-23, Aug. 16, 17, Dec. 25-27, 1976, Jan. 25-27, 1977, July 24-30, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 145 ft³/s (4.11 m³/s) Oct. 12, gage height, 3.22 ft (0.981 m); minimum daily, 2.8 ft³/s (0.079 m³/s) Apr. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	26	10	11	8.2	6.8	5.3	18	47	26	22	50
2	43	25	14	9.4	8.1	6.2	5.2	18	55	24	23	41
3	39	25	22	8.4	8.5	6.9	4.1	18	51	17	28	30
4	60	25	21	8.3	8.0	7.1	4.5	22	41	15	37	22
5	109	24	19	6.1	6.8	7.1	3.5	26	32	14	47	28
6	113	23	18	5.6	6.1	6.9	3.4	24	28	17	42	34
7	108	22	17	5.6	6.2	6.8	4.0	19	30	24	29	45
8	102	21	17	6.0	6.7	6.6	3.7	9.9	38	27	27	53
9	81	20	15	6.3	7.2	17	3.2	9.6	43	25	28	63
10	54	20	15	7.0	7.1	16	2.8	7.1	44	22	29	67
11	60	19	16	7.6	7.1	11	3.0	8.1	39	19	35	70
12	137	20	18	8.1	7.0	11	3.4	14	34	21	42	77
13	124	21	15	8.5	6.9	8.7	3.3	17	30	20	41	85
14	75	22	15	8.6	6.8	7.4	3.5	22	28	17	40	86
15	40	23	15	8.7	6.7	8.8	5.3	21	31	31	36	85
16	68	23	15	8.8	6.7	13	16	24	33	22	42	85
17	75	23	13	9.0	6.9	12	24	32	30	14	46	85
18	35	23	10	9.7	7.0	10	18	34	25	13	43	81
19	18	20	13	9.8	7.1	10	13	29	22	13	38	70
20	14	20	15	9.2	7.1	9.0	20	18	18	14	36	61
21	19	20	16	8.6	7.1	6.7	25	12	26	15	33	58
22	22	20	12	8.0	7.1	5.7	28	12	38	8.7	35	55
23	27	20	9.0	7.5	7.1	5.3	25	14	40	6.5	33	54
24	28	20	6.7	8.0	7.3	5.0	20	17	38	3.8	33	52
25	26	18	7.6	8.6	7.4	4.8	16	19	36	3.8	34	47
26	25	17	7.8	8.7	7.4	5.0	13	18	31	4.1	34	47
27	25	15	10	8.0	7.2	5.3	13	16	26	7.5	38	64
28	25	13	11	8.7	7.0	5.7	14	19	25	17	46	110
29	26	12	5.9	9.1	---	6.9	15	19	25	20	70	123
30	29	11	6.4	8.3	---	7.1	16	21	24	25	61	133
31	29	---	8.2	8.5	---	5.9	---	28	---	24	55	---
TOTAL	1685	611	413.6	253.7	199.8	251.7	334.2	585.7	1008	530.4	1183	1961
MEAN	54.4	20.4	13.3	8.18	7.14	8.12	11.1	18.9	33.6	17.1	38.2	65.4
MAX	137	26	22	11	8.5	17	28	34	55	31	70	133
MIN	14	11	5.9	5.6	6.1	4.8	2.8	7.1	18	3.8	22	22
AC-FT	3340	1210	820	503	396	499	663	1160	2000	1050	2350	3890

CAL YR 1981 TOTAL 8358.51 MEAN 22.9 MAX 137 MIN .91 AC-FT 16580
WTR YR 1982 TOTAL 9017.10 MEAN 24.7 MAX 137 MIN 2.8 AC-FT 17890

GREEN RIVER BASIN

09307300 PARIETTE DRAW AT MOUTH, NEAR OURAY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.

SEDIMENT DATA: October 1975 to current year, periodically.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	HARD- NESS (MG/L AS CACO3)
OCT 29...	1550	28	3490	8.1	10.5	10.0	--	--	750
DEC 09...	1555	15	4000	8.0	4.5	1.0	--	--	840
JAN 28...	1100	8.6	4340	*8.2	-4.5	.0	10.2	646	880
MAR 09...	1100	6.6	3730	*8.2	9.5	6.0	11.1	651	770
APR 14...	1115	3.7	5180	8.1	20.0	13.0	10.0	643	980
MAY 24...	1230	18	3100	8.0	20.5	21.0	7.6	649	580
JUN 29...	1045	27	2280	8.0	29.0	21.0	6.8	645	510
JUL 22...	1045	9.4	2490	7.9	25.0	21.0	6.2	653	550
AUG 25...	1100	35	2280	7.9	20.5	20.5	6.4	650	550
SEP 27...	0915	60	1870	8.2	11.0	16.0	7.4	637	440
DATE	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT 29...	470	150	92	590	63	9.4	3.7	280	1500
DEC 09...	550	170	100	650	63	9.8	3.2	290	1800
JAN 28...	500	170	110	730	64	11	3.3	380	2000
MAR 09...	490	170	84	600	63	9.4	4.1	280	1600
APR 14...	750	180	130	930	67	13	5.1	230	2500
MAY 24...	330	110	75	500	65	9.0	4.7	253	1300
JUN 29...	280	110	56	360	61	7.0	2.9	226	930
JUL 22...	290	110	66	380	60	7.1	2.6	254	1000
AUG 25...	280	120	62	340	57	6.3	2.8	274	910
SEP 27...	190	96	49	260	56	5.9	2.8	254	700

* Laboratory value.

GREEN RIVER BASIN

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09307300 PARIETTE DRAW AT MOUTH, NEAR OURAY, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 29...	110	.6	9.0	2630	3.6	197	2.2	--	.030
DEC 09...	130	.6	12	3060	4.2	122	4.5	--	.010
JAN 28...	150	.7	16	3440	4.7	79.9	5.7	--	<.010
MAR 09...	160	.6	26	2830	3.9	50.1	2.8	--	.020
APR 14...	210	.6	1.8	4100	5.6	41.3	.79	--	<.010
MAY 24...	110	.6	6.8	2260	3.1	110	.40	.050	.030
JUN 29...	64	.5	12	1670	2.3	122	.26	--	.070
JUL 22...	69	.6	12	1800	2.5	45.5	.25	--	.040
AUG 25...	60	.6	15	1680	2.3	159	.33	--	.010
SEP 27...	52	.4	11	1330	1.8	216	.55	--	.020

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT 29...	1550	1500
DEC 09...	1555	1500
JAN 28...	1100	1600
MAR 09...	1100	1300
APR 14...	1115	1900
MAY 24...	1230	1300
JUN 29...	1045	930
JUL 22...	1045	1000
AUG 25...	1100	1200
SEP 27...	0915	770

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT 29...	1550	28	10.0	568	42
DEC 09...	1555	15	1.0	593	24
JAN 28...	1100	8.6	.0	612	14
MAR 09...	1100	6.6	6.0	316	5.6
APR 14...	1115	3.7	13.0	567	5.7
MAY 24...	1230	18	21.0	330	16
JUN 29...	1045	27	21.0	429	31
JUL 22...	1045	9.4	21.0	420	11

GREEN RIVER BASIN

09307500 WILLOW CREEK ABOVE DIVERSIONS, NEAR OURAY, UTAH

LOCATION.--Lat 39°33'59", long 109°35'12", in NE¼SW¼SE¼ sec.29, T.14 S., R.21 E., Uintah County, Uintah and Ouray Indian Reservation, Hydrologic Unit 14060006, on right bank 0.1 mi (0.2 km) downstream from Big Canyon and 36 mi (57.9 km) southeast of Ouray.

DRAINAGE AREA.--297 mi² (769 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1950 to September 1955, September 1957 to September 1970, 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 site 60 ft (18.3 m) downstream at different datum, June 5 to Sept. 30, 1982, at present site at different datums.

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

AVERAGE DISCHARGE.--26 years (water years 1951-55, 1958-70, 1975-82), 20.6 ft³/s (0.583 m³/s), 14,920 acre-ft/yr (18.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,240 ft³/s (63.4 m³/s) July 19, 1977, gage height, 9.55 ft (2.911 m), from rating curve extended above 100 ft³/s (2.83 m³/s) on basis of slope-area measurements of peak flow; minimum, 0.3 ft³/s (0.008 m³/s) Aug. 21-23, 1960.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 140 ft³/s (3.96 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Aug. 16	1900	*890	25.2	9.00	2.743
Sept. 5	2100	282	7.99	6.33	1.929

Minimum daily, 7.0 ft³/s (0.20 m³/s) Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	16	16	14	13	16	29	34	20	11	17	12
2	10	16	17	13	13	18	27	34	20	12	15	11
3	13	17	17	12	12	20	27	34	20	11	14	11
4	19	17	17	12	11	17	29	36	20	11	14	11
5	22	17	17	13	7.0	16	28	35	19	10	13	22
6	16	16	16	12	13	15	28	34	19	11	13	13
7	14	18	15	12	15	18	27	32	18	12	13	13
8	20	18	15	10	15	18	27	32	18	11	14	13
9	19	17	15	12	15	17	27	32	17	13	14	14
10	18	16	16	13	16	19	27	34	17	12	14	14
11	18	16	15	13	19	19	30	39	17	11	13	15
12	25	16	14	13	17	28	38	34	16	11	18	21
13	25	17	15	13	16	30	51	30	15	10	32	17
14	22	17	16	14	16	26	48	28	15	9.6	25	23
15	21	17	15	14	17	29	48	28	17	8.8	45	19
16	24	17	14	14	21	28	45	29	16	8.2	156	16
17	22	17	14	15	19	23	40	28	15	8.3	24	15
18	21	17	12	14	23	23	42	26	16	8.6	19	14
19	20	16	14	13	17	26	43	26	16	9.0	17	15
20	19	13	14	13	25	24	36	28	19	10	16	17
21	19	16	13	13	30	22	30	26	17	11	15	16
22	19	19	12	11	40	22	35	25	16	11	18	14
23	19	17	12	13	35	24	39	25	15	9.9	22	14
24	18	17	12	13	28	27	35	24	16	9.3	18	13
25	18	17	14	13	25	28	36	23	15	9.5	16	13
26	18	15	13	15	21	28	36	23	15	14	14	14
27	18	10	13	15	18	27	36	23	14	41	13	24
28	18	11	11	13	16	26	36	21	13	32	13	26
29	18	12	13	14	---	29	36	21	12	45	13	22
30	19	14	13	12	---	27	35	21	11	28	12	20
31	18	---	13	13	---	24	---	20	---	20	12	---
TOTAL	579.6	479	443	404	533.0	714	1051	885	494	439.2	672	482
MEAN	18.7	16.0	14.3	13.0	19.0	23.0	35.0	28.5	16.5	14.2	21.7	16.1
MAX	25	19	17	15	40	30	51	39	20	45	156	26
MIN	9.6	10	11	10	7.0	15	27	20	11	8.2	12	11
AC-FT	1150	950	879	801	1060	1420	2080	1760	980	871	1330	956

CAL YR 1981 TOTAL 6629.0 MEAN 18.2 MAX 67 MIN 5.6 AC-FT 13150
WTR YR 1982 TOTAL 7175.8 MEAN 19.7 MAX 156 MIN 7.0 AC-FT 14230

09307500 WILLOW CREEK ABOVE DIVERSIONS, NEAR OURAY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1974 to current year. Prior to 1979 water year, published in "Hydrologic and Climatologic Data" reports for Utah.

SEDIMENT DATA: November 1975 to September 1976, November 1978 to September 1979, periodically.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	HARD- NESS (MG/L AS CACO3)
JUN 03...	1600	20	720	8.0	20.0	19.0	7.0	610	310
DATE	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
JUN 03...	48	70	34	35	19	.9	1.5	267	110
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
JUN 03...	4.3	.3	16	432	.59	23.0	<.10	.020	.06
DATE				TIME	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)			
JUN 03...				1600	40	20			

GREEN RIVER BASIN

09308000 WILLOW CREEK NEAR OURAY, UTAH

LOCATION.--Lat 39°56'20", long 109°38'52", in NE¼NW¼NE¼ sec.22, T.10 S., R.20 E., Uintah County, Hydrologic Unit 14060006, on left bank 0.3 mi (0.5 km) upstream from Black Bridge, 1.6 mi (2.6 km) downstream from Hill Creek, and 10 mi (16 km) south of Ouray.

DRAINAGE AREA.--897 mi² (2,323 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1947 to September 1955, October 1974 to current year. Prior to 1979 water year, published in "Hydrologic and Climatologic Data" reports for Utah. Annual maximums, water years 1960-68.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,860 ft (1,481 m) from topographic map. Prior to October 1974 at different sites and datums.

REMARKS.--Records good except those for winter periods, which are fair. Diversions for irrigation above station.

AVERAGE DISCHARGE.--16 years (water years 1948-55, 1975-82) 24.8 ft³/s (0.702 m³/s), 17,970 acre-ft/yr (22.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 11,000 ft³/s (312 m³/s) February 1962, gage height, 17.73 ft (5.404 m), site and datum then in use; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,140 ft³/s (32.3 m³/s) July 28, gage height, 5.13 ft (1.564 m); no flow July 21-26, Aug. 6-8, 11, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	20	9.0	11	14	56	28	35	13	.38	3.7	2.7
2	1.7	19	11	10	16	36	32	32	9.8	.56	.83	2.9
3	1.3	20	13	10	19	42	29	33	7.5	.49	.26	1.8
4	3.3	21	13	11	15	42	28	33	7.3	.62	.30	.93
5	84	18	15	12	12	31	29	36	7.3	.31	.08	.19
6	21	18	14	11	10	29	28	37	8.3	.72	.00	22
7	9.6	19	13	10	12	29	29	35	8.2	.77	.00	18
8	7.1	19	14	9.0	15	27	27	35	6.4	.88	.00	6.5
9	10	19	15	11	20	31	26	33	5.6	.72	.06	4.8
10	10	20	16	12	26	29	27	34	5.3	.53	.02	5.6
11	83	19	17	13	24	31	27	35	4.2	.82	.00	8.2
12	90	19	15	14	28	31	31	35	4.1	.68	.00	8.0
13	29	19	14	14	32	38	36	30	5.2	.54	2.7	15
14	25	19	13	15	31	38	49	26	6.0	.50	10	16
15	24	22	12	15	35	37	46	25	6.3	.49	4.3	22
16	51	22	11	16	40	39	47	23	6.4	.60	21	14
17	29	21	11	15	50	35	44	24	6.0	1.5	108	12
18	26	22	12	14	60	33	39	23	4.5	1.2	28	9.2
19	24	21	13	13	53	31	42	19	5.5	1.2	12	7.6
20	22	19	12	13	47	30	41	20	5.6	.42	8.8	17
21	22	19	12	12	43	27	36	20	6.5	.00	12	10
22	21	21	11	12	40	27	33	18	6.4	.00	5.2	7.7
23	17	23	11	12	46	26	37	14	7.6	.00	39	5.5
24	18	22	12	12	54	28	40	14	5.5	.00	21	5.5
25	19	21	11	13	66	29	36	13	3.7	.00	15	5.7
26	20	16	11	16	75	31	38	12	3.4	.00	14	5.1
27	17	14	10	19	78	33	38	13	2.2	5.2	11	6.7
28	19	12	9.6	18	72	32	37	11	1.4	81	7.2	26
29	18	14	11	17	---	31	36	11	.95	21	6.9	30
30	20	10	12	14	---	32	36	11	.61	20	6.4	28
31	22	---	13	12	---	29	---	14	---	8.8	6.1	---
TOTAL	765.4	568	386.6	406.0	1033	1020	1052	754	170.76	149.93	343.85	324.62
MEAN	24.7	18.9	12.5	13.1	36.9	32.9	35.1	24.3	5.69	4.84	11.1	10.8
MAX	90	23	17	19	78	56	49	37	13	81	108	30
MIN	1.3	10	9.0	9.0	10	26	26	11	.61	.00	.00	.19
AC-FT	1520	1130	767	805	2050	2020	2090	1500	339	297	682	644
CAL YR 1981	TOTAL	6573.14	MEAN	18.0	MAX	90	MIN	.00	AC-FT	13040		
WTR YR 1982	TOTAL	6974.16	MEAN	19.1	MAX	108	MIN	.00	AC-FT	13830		

09308000 WILLOW CREEK NEAR OURAY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1974 to current year. Prior to 1979 water year, published in "Hydrologic and Climatologic Data" reports for Utah.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1976 to September 1978.

WATER TEMPERATURES: October 1976 to September 1978.

SUSPENDED-SEDIMENT DISCHARGE: October 1974 to current year.

REMARKS.--Specific-conductance and water-temperature recorders were not operated during the winter period. Sediment record computed based on concentrations collected once daily by observer and periodically by U.S.P.S. 69 automatic sediment sampler. Although daily concentrations are shown only for part of the year, daily values are available in district files.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded (more than 20 percent missing record), 10,200 micromhos June 22, 1978; minimum recorded, 950 micromhos Feb. 23, 1977.

WATER TEMPERATURES: Maximum recorded (more than 20 percent missing record), 34.0°C June 26, 1977; minimum, 0.0°C many days during winter period each year.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 82,700 mg/L July 22, 1977; no flow for several days most years.

SEDIMENT LOADS: Maximum daily, 49,400 tons (44,800 tonnes) July 20, 1977; 0 tons many days most years.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 40,300 mg/L Aug. 23; no flow several days during July and August.

SEDIMENT LOADS: Maximum daily, 7,710 tons (6,990 tonnes) Oct. 5; no flow several days during July and August.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	HARD- NESS (MG/L AS CACO3)
JUN 17...	1600	5.8	2250	8.2	27.0	25.0	6.8	637	660
	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
JUN 17...	180	82	110	400	57	6.8	5.2	476	860
	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
JUN 17...	40	.8	16	1800	2.5	28.2	<.10	.040	.12
	DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	
JUN 17...	1600		30	22	2900	<1	10	9	
	DATE	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)		
JUN 17...		30	<1	10	<.1	1	10		

09308000 WILLOW CREEK NEAR OURAY, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)	
	LOADS (T/DAY)	LOADS (T/DAY)	LOADS (T/DAY)	LOADS (T/DAY)	LOADS (T/DAY)	LOADS (T/DAY)	LOADS (T/DAY)	LOADS (T/DAY)	LOADS (T/DAY)	LOADS (T/DAY)	LOADS (T/DAY)	
OCTOBER												
1	558	2.1	1060	57	425	10	2480	74	3530	133	5010	758
2	672	3.1	972	50	419	12	2140	58	3440	149	4770	464
3	906	3.2	855	46	500	18	1930	52	3310	170	4800	544
4	730	6.5	783	44	795	28	1880	56	3680	149	4770	541
5	34000	7710	598	29	710	29	1900	62	3180	103	4600	385
6	5720	324	542	26	525	20	2050	61	2820	76	4470	350
7	1320	34	593	30	580	20	2700	73	4240	137	5000	391
8	2160	41	508	26	712	27	3640	88	5100	207	4450	324
9	847	23	562	29	465	19	3790	113	4960	268	4940	413
10	858	23	495	27	698	30	3520	114	5110	359	4150	325
11	18900	4240	684	35	843	39	3470	122	5140	333	4340	363
12	16000	3890	603	31	1330	54	3710	140	5970	451	4410	369
13	4000	313	506	26	1480	56	5260	199	5250	454	5720	587
14	1600	108	576	30	1360	48	5560	225	5050	423	5990	615
15	3750	243	702	42	3240	105	4970	201	4640	438	5450	544
16	12100	1670	612	36	4150	123	4190	181	5150	556	6540	689
17	2400	188	594	34	820	24	3690	149	5150	695	3850	364
18	1420	100	702	42	2220	72	3340	126	5200	842	3300	294
19	1180	76	594	34	3970	139	3070	108	5120	733	3010	252
20	1110	66	880	45	3000	97	2870	101	5190	659	2870	232
21	1180	70	1040	53	2800	91	3230	105	5200	604	2360	172
22	1040	59	974	55	2470	73	3030	98	5100	551	2580	188
23	1160	53	1020	63	2210	66	3420	111	5060	628	3340	234
24	1270	62	626	37	2420	78	2950	96	5140	749	3330	252
25	1040	53	540	31	1890	56	3610	127	5240	934	3760	294
26	990	53	693	30	1810	54	3450	149	5250	1060	3680	308
27	915	42	525	20	1840	50	3310	170	5400	1140	3820	340
28	1120	57	430	14	2340	61	3470	169	5150	1000	3240	280
29	1080	52	540	20	1570	47	3200	147	---	---	3420	286
30	999	54	445	12	2050	66	3510	133	---	---	3580	309
31	1040	62	---	---	2510	88	3340	108	---	---	3390	265
TOTAL	---	19680.9	---	1054	---	1700	---	3716	---	14001	---	11732
APRIL												
1	3730	282	2850	269	1800	63	480	.49	690	6.9	281	2.0
2	3180	275	2810	243	1000	26	475	.72	375	.84	260	2.0
3	3350	262	3580	319	630	13	562	.74	340	.24	440	2.1
4	3560	269	3310	295	610	12	505	.85	425	.34	195	.49
5	3910	306	2470	240	600	12	473	.40	450	.10	79	.04
6	3900	295	2410	241	720	16	587	1.1	---	---	8990	534
7	3720	291	2150	203	645	14	557	1.2	---	---	12300	598
8	3700	270	2660	251	478	8.3	586	1.4	---	---	1480	26
9	3720	261	2330	208	480	7.3	619	1.2	517	.08	1430	19
10	4400	321	1950	179	430	6.2	589	.84	505	.03	1580	24
11	4200	306	1950	184	370	4.2	638	1.4	---	---	2300	51
12	3100	259	2340	221	515	5.7	648	1.2	---	---	1520	33
13	4360	424	1860	151	472	6.6	663	.97	3350	24	1880	76
14	11500	1520	1640	115	422	6.8	653	.88	9810	265	1120	48
15	7110	883	1610	109	570	9.7	550	.73	4650	54	2270	135
16	5670	720	2000	124	587	10	480	.78	15000	850	1160	44
17	4540	539	1860	121	520	8.4	460	1.9	23000	6710	825	27
18	3420	360	1850	115	480	5.8	403	1.3	9500	718	683	17
19	2920	331	2100	108	568	8.4	375	1.2	3600	117	541	11
20	3260	361	2190	118	496	7.5	354	.40	4000	95	12800	588
21	2850	277	1820	98	507	8.9	---	---	7300	237	1320	36
22	2980	266	1850	90	504	8.7	---	---	4900	69	880	18
23	3060	306	1390	53	538	11	---	---	40300	4240	397	5.9
24	3090	334	1130	43	462	6.9	---	---	9990	566	380	5.6
25	2910	283	940	33	410	4.1	---	---	6150	249	336	5.2
26	2820	289	910	29	391	3.6	---	---	2650	100	292	4.0
27	2820	289	960	34	368	2.2	5750	81	1990	59	1000	18
28	2980	298	810	24	412	1.6	29000	6340	1160	23	5170	363
29	2870	279	680	20	471	1.2	10500	595	585	11	2970	241
30	2850	277	720	21	437	.72	7410	400	455	7.9	1190	90
31	---	---	1180	45	---	---	1900	45	430	7.1	---	---
TOTAL	---	11433	---	4304	---	299.82	---	7480.70	---	14410.53	---	3024.33
TOTAL LOAD FOR YEAR:		92836.28 TONS.										

GREEN RIVER BASIN

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09308000 WILLOW CREEK NEAR OURAY, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM
OCT							
16...	1045	87	6.0	18600	4370	37	51
30...	1100	16	6.5	960	41	27	41
MAR							
08...	1600	26	8.0	4570	321	28	37
24...	1145	25	6.0	2830	191	22	32
APR							
12...	1330	32	15.0	2730	236	23	37
MAY							
11...	1200	37	11.0	1840	184	32	41
AUG							
25...	1430	17	21.5	8820	405	53	75

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
OCT						
16...	77	92	97	98	99	100
30...	74	94	98	100	--	--
MAR						
08...	69	90	98	100	--	--
24...	59	87	96	100	--	--
APR						
12...	62	91	97	100	--	--
MAY						
11...	56	84	91	95	98	100
AUG						
25...	97	100	--	--	--	--

GREEN RIVER BASIN

09308500 MINNIE MAUD CREEK NEAR MYTON, UTAH

LOCATION.--Lat 39°47'55", long 110°33'55", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ 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 mi² (82.9 km²).

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 poor. No diversion above station.

AVERAGE DISCHARGE.--30 years, 5.14 ft³/s (0.146 m³/s), 3,720 acre-ft/yr (4.59 hm³/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 ft³/s (38.8 m³/s) Aug. 25, 1961, gage height, 9.40 ft (2.865 m), from rating curve extended above 110 ft³/s (3.12 m³/s) on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 90 ft³/s (2.55 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 4	1830	91	2.58	7.47	2.277
July 27	0030	*812	23.0	9.32	2.841

Minimum daily, 0.26 ft³/s (0.007 m³/s) Jan. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.97	2.8	1.2	1.5	.69	1.8	3.4	49	26	7.4	3.0	2.5
2	1.1	3.1	1.3	1.3	.60	1.6	3.2	52	24	7.2	3.2	2.3
3	3.5	2.9	1.4	1.3	.50	1.5	3.0	62	24	6.9	3.6	1.3
4	5.1	2.9	1.5	1.4	.37	1.4	3.1	66	23	6.7	2.9	1.3
5	1.9	3.0	1.6	1.6	.33	1.6	3.3	68	22	6.9	3.1	1.4
6	1.0	3.1	1.7	.90	.35	1.7	3.5	58	21	7.0	3.4	1.3
7	1.1	3.2	1.9	.74	.45	1.9	3.6	50	21	6.3	2.8	1.3
8	1.3	2.8	2.1	.35	.60	2.1	3.7	46	21	6.1	2.9	1.2
9	1.2	2.5	2.2	.26	.67	2.2	3.9	45	18	6.3	3.4	1.2
10	1.2	2.5	2.3	.58	.62	2.1	4.5	46	17	6.0	3.8	1.4
11	5.3	2.6	2.4	.60	.60	2.0	6.0	45	18	5.8	3.6	1.5
12	4.4	2.7	2.2	.60	.54	1.9	8.0	43	16	5.3	3.7	1.2
13	3.0	2.7	2.4	.60	.54	1.8	11	36	15	5.1	3.4	4.6
14	2.6	2.7	2.6	.44	.60	2.0	17	37	14	4.5	4.0	3.4
15	1.9	2.9	2.7	.43	.90	2.4	15	35	13	3.7	4.0	3.0
16	4.6	2.9	2.6	.62	1.4	2.2	17	34	14	3.4	4.0	2.2
17	3.4	2.8	2.4	.75	2.0	2.0	16	32	13	3.4	4.0	1.9
18	3.5	2.5	2.2	.68	1.8	2.2	18	35	12	3.4	3.7	1.6
19	2.9	1.8	2.5	.60	2.1	2.4	16	38	11	3.1	3.7	2.2
20	2.8	2.1	2.8	.64	2.3	2.6	15	38	11	3.1	3.7	2.5
21	2.7	2.3	2.7	.67	2.3	2.6	15	37	10	3.1	4.6	1.6
22	2.9	2.5	1.6	.60	2.2	2.6	17	39	10	2.8	14	1.5
23	3.5	2.3	1.3	.52	2.2	2.5	17	38	9.7	2.8	3.9	1.4
24	3.3	1.9	1.2	.60	1.8	2.4	25	40	9.4	2.8	3.1	1.4
25	3.3	1.6	1.3	.80	1.6	2.7	47	38	9.2	2.8	2.7	2.2
26	3.2	1.3	1.7	.84	1.8	2.9	48	36	8.7	3.7	4.1	4.3
27	3.1	1.4	2.1	.80	2.0	3.0	49	36	8.3	13	2.9	2.5
28	3.1	1.5	1.8	.76	1.9	3.2	50	35	8.1	6.0	3.4	2.5
29	4.3	1.4	2.0	.70	---	3.2	47	33	7.9	3.2	3.1	2.5
30	3.5	1.3	2.2	.74	---	2.9	47	30	7.9	3.0	2.3	4.3
31	2.6	---	1.7	.76	---	3.3	---	28	---	2.9	1.9	---
TOTAL	88.27	72.0	61.6	23.68	33.76	70.7	536.2	1305	443.2	153.7	115.9	63.5
MEAN	2.85	2.40	1.99	.76	1.21	2.28	17.9	42.1	14.8	4.96	3.74	2.12
MAX	5.3	3.2	2.8	1.6	2.3	3.3	50	68	26	13	14	4.6
MIN	.97	1.3	1.2	.26	.33	1.4	3.0	28	7.9	2.8	1.9	1.2
AC-FT	175	143	122	47	67	140	1060	2590	879	305	230	126

CAL YR 1981 TOTAL 984.68 MEAN 2.70 MAX 25 MIN .25 AC-FT 1950
WTR YR 1982 TOTAL 2967.51 MEAN 8.13 MAX 68 MIN .26 AC-FT 5890

GREEN RIVER BASIN

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09309600 FAIRVIEW TUNNEL NEAR FAIRVIEW, UTAH
(Transmountain diversion)

LOCATION.--Lat 39°40'03", long 111°18'41", in NW¼NW¼NE¼ sec.25, T.13 S., R.5 E., Sanpete County, Hydrologic Unit 14060007, on right bank 1,000 ft (305 m) upstream from tunnel portal, 7.3 mi (11.7 km) east-northeast of Fairview.

PERIOD OF RECORD.--July 1967 to current year. Seasonal records only. (July to September 1967, gage height only.)

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage, 8,660 ft (2,640 m) from topographic map.

REMARKS.--Records poor. Fairview Tunnel diverts from San Rafael and Price River drainages in the Colorado River basin to San Pitch River in the Great Basin. Due to the location of the gage, reported flow may not be actual flow through tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30 ft³/s (0.85 m³/s) July 8, 1980, gage height, 1.20 ft (0.366 m); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27 ft³/s (0.76 m³/s) July 26, gage height, 1.07 ft (0.326 m); minimum daily, 3.8 ft³/s (0.11 m³/s) June 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	11	16	17	14
2								---	11	16	17	14
3								---	11	16	17	14
4								---	11	16	16	14
5								---	10	16	16	13
6								---	10	16	16	13
7								---	13	16	17	12
8								---	11	17	17	12
9								---	4.2	16	17	11
10								---	5.6	15	17	11
11								---	4.9	15	17	11
12								---	5.1	15	17	11
13								---	6.1	16	17	9.7
14								---	5.6	16	16	4.0
15								---	4.4	14	16	2.5
16								---	4.2	13	15	1.5
17								---	4.0	14	15	1.0
18								---	3.8	16	14	---
19								---	6.5	19	14	---
20								---	7.2	20	14	---
21								---	7.0	20	14	---
22								---	9.5	20	15	---
23								---	12	21	15	---
24								---	12	20	14	---
25								---	14	19	14	---
26								13	14	21	14	---
27								20	14	19	14	---
28								14	15	18	14	---
29								14	15	17	14	---
30								11	16	17	14	---
31								11	---	17	14	---
TOTAL								---	278.1	527	478	---
MEAN								---	9.27	17.0	15.4	---
MAX								---	16	21	17	---
MIN								---	3.8	13	14	---
AC-FT								---	552	1050	948	---

GREEN RIVER BASIN

09310000 GOOSEBERRY CREEK NEAR SCOFIELD, UTAH

LOCATION.--Lat 39°42'57", long 111°17'58", in NW¼SE¼SW¼ sec.6, T.13 S., R.6 E., Sanpete County, Hydrologic Unit 14060007, on left bank 300 ft (91 m) downstream from old Mammoth Dam, 5.5 mi (8.8 km) upstream from mouth, and 7 mi (11 km) west of Scofield.

DRAINAGE AREA.--16.8 mi² (43.5 km²).

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 hm³) is used to regulate these diversions. Flow also affected by small reservoir 1 mi (2 km) above station.

AVERAGE DISCHARGE.--43 years, 18.4 ft³/s (0.521 m³/s), 13,330 acre-ft/yr (16.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 414 ft³/s (11.7 m³/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, 254 ft³/s (7.19 m³/s) May 27, gage height, 2.92 ft (0.890 m); minimum daily, 1.5 ft³/s (0.042 m³/s) Jan. 7 and Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	5.0	4.0	2.1	2.1	2.7	3.6	82	143	31	11	5.7
2	2.8	5.0	3.7	1.9	2.4	3.1	4.4	103	135	29	10	5.4
3	3.1	5.0	3.7	2.0	2.2	2.8	4.7	118	122	27	10	5.6
4	6.5	5.0	3.4	2.1	2.0	2.5	4.8	133	112	25	9.4	5.4
5	7.7	4.6	3.4	2.2	1.8	2.3	4.8	136	103	25	9.0	5.6
6	5.7	4.6	3.4	1.8	1.5	2.2	5.0	115	91	26	8.6	5.7
7	4.7	4.6	3.4	1.5	1.7	2.2	5.1	114	82	23	8.5	5.9
8	6.9	4.6	3.4	1.6	2.0	2.3	5.3	125	75	23	8.8	5.8
9	6.9	4.3	3.1	1.8	2.3	2.5	5.9	127	70	27	9.0	5.7
10	5.7	4.3	3.4	2.0	2.1	2.8	6.8	105	79	23	8.4	6.2
11	8.9	4.3	3.4	2.2	2.2	3.0	9.2	89	80	21	8.1	6.2
12	8.1	4.3	3.1	2.6	1.9	2.7	16	82	82	19	8.4	6.1
13	6.1	4.3	3.4	2.6	1.9	2.6	15	77	78	18	8.7	8.0
14	5.4	4.6	3.4	2.5	2.1	2.8	17	85	81	16	9.1	8.9
15	5.4	5.0	3.7	2.6	2.4	3.1	19	102	75	16	8.4	8.8
16	6.9	5.0	3.7	2.7	2.7	2.9	21	109	73	15	7.8	7.6
17	5.7	5.0	2.3	3.0	2.4	2.8	22	132	77	14	7.7	7.1
18	5.4	5.0	2.1	2.7	2.6	3.3	23	157	81	13	7.8	6.4
19	5.0	2.3	3.4	2.5	2.2	3.2	22	154	71	13	7.8	6.0
20	5.0	4.0	4.0	2.6	2.3	3.4	20	137	66	13	7.6	5.8
21	5.0	4.0	3.4	2.7	2.5	2.9	20	156	70	12	8.0	5.5
22	5.0	4.0	2.7	2.5	2.3	2.2	16	171	67	12	9.3	5.7
23	5.0	4.3	2.2	2.4	2.7	2.6	17	184	64	13	8.5	5.3
24	4.6	4.3	1.9	2.5	2.2	3.2	21	208	58	13	7.6	5.2
25	4.3	4.3	2.3	2.3	2.2	3.1	26	213	54	13	7.3	6.3
26	4.3	2.6	2.2	2.3	2.3	4.5	32	219	44	13	6.9	14
27	4.3	3.4	2.1	2.4	2.5	4.4	38	228	38	16	6.9	27
28	4.6	2.8	2.1	2.2	2.3	4.4	47	217	35	14	7.0	21
29	6.9	3.7	2.2	2.2	---	4.0	62	191	32	14	7.4	17
30	7.3	4.3	2.4	2.1	---	3.6	69	181	31	13	6.8	16
31	4.0	---	2.6	2.0	---	3.4	---	166	---	11	6.2	---
TOTAL	169.8	128.5	93.5	70.6	61.8	93.5	582.6	4416	2269	561	256.0	250.9
MEAN	5.48	4.28	3.02	2.28	2.21	3.02	19.4	142	75.6	18.1	8.26	8.36
MAX	8.9	5.0	4.0	3.0	2.7	4.5	69	228	143	31	11	27
MIN	2.6	2.3	1.9	1.5	1.5	2.2	3.6	77	31	11	6.2	5.2
AC-FT	337	255	185	140	123	185	1160	8760	4500	1110	508	498

CAL YR 1981 TOTAL 4617.0 MEAN 12.6 MAX 132 MIN 1.9 AC-FT 9160
WTR YR 1982 TOTAL 8953.2 MEAN 24.5 MAX 228 MIN 1.5 AC-FT 17760

09310500 FISH CREEK ABOVE RESERVOIR, NEAR SCOFIELD, UTAH

LOCATION.--Lat 39°46'28", long 111°11'25", in NW¼NE¼SW¼ sec.18, T.12 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on right bank 0.8 mi (1.3 km) upstream from bridge, 1.2 mi (1.9 km) downstream from French Creek, and 4.5 mi (7.2 km) north of Scofield.

DRAINAGE AREA.--60.1 mi² (155.7 km²).

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 poor. Small transmountain diversions in headwaters for irrigation in Sevier Lake basin and one diversion for irrigation above station.

AVERAGE DISCHARGE.--44 years (1938-82), 47.2 ft³/s (1.337 m³/s), 34,200 acre-ft/yr (42.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,160 ft³/s (32.9 m³/s) May 20, 1973, gage height, 4.87 ft (1.484 m); minimum recorded, 0.6 ft³/s (0.02 m³/s) Oct. 31, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 615 ft³/s (17.4 m³/s) May 27; because of extensive recorder problems, peaks above base of 270 ft³/s (7.65 m³/s) were not determined; minimum daily, 6.6 ft³/s (0.19 m³/s) Jan. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	13	12	8.3	7.9	8.4	12	280	350	56	29	14
2	11	12	11	8.2	8.3	9.2	13	300	315	53	28	13
3	12	12	11	8.5	8.2	8.8	14	330	290	51	27	13
4	18	11	11	8.2	7.9	8.4	14	350	260	50	26	13
5	14	11	11	7.6	7.7	8.0	15	355	240	51	25	13
6	12	11	11	7.1	7.0	7.7	15	280	215	51	24	13
7	15	11	11	6.6	7.3	7.8	15	270	195	48	23	13
8	21	11	11	7.2	7.9	8.1	15	290	180	47	22	13
9	16	10	10	7.3	8.3	8.3	16	310	165	55	22	13
10	15	10	10	7.8	7.7	8.4	17	275	175	47	21	15
11	23	9.9	10	8.1	8.0	8.9	30	240	180	45	21	17
12	19	9.9	10	8.6	7.5	8.6	42	210	179	42	23	15
13	15	10	10	8.3	7.6	8.8	39	190	163	40	23	20
14	12	11	11	8.0	7.8	8.7	48	220	175	38	23	22
15	11	13	11	8.4	8.2	8.6	66	250	160	37	21	20
16	15	12	9.7	8.7	8.4	9.3	71	285	150	35	20	18
17	13	12	8.4	9.4	8.2	9.2	77	335	153	35	20	17
18	12	12	9.0	8.8	8.5	9.3	83	390	160	33	20	15
19	11	8.0	10	8.4	8.0	9.0	79	385	150	33	18	15
20	10	9.6	9.5	8.6	7.9	10	75	330	128	32	16	15
21	9.9	11	8.5	8.5	7.8	9.9	70	480	130	32	15	15
22	9.8	11	8.9	8.3	8.1	8.3	54	520	132	33	17	14
23	9.7	12	11	8.2	7.8	9.8	58	560	129	34	16	14
24	9.4	12	9.7	8.1	7.6	11	68	575	120	35	15	14
25	9.2	12	8.6	8.0	7.9	11	80	590	113	35	14	15
26	9.0	9.6	8.4	8.3	7.7	14	100	600	106	40	14	26
27	8.8	11	8.1	8.1	8.0	13	120	615	93	45	14	52
28	10	9.8	8.3	7.9	7.6	12	150	560	81	42	14	44
29	13	11	8.2	7.7	---	12	190	490	68	36	16	38
30	16	13	8.5	7.3	---	11	230	420	58	34	14	34
31	11	---	8.7	7.2	---	10	---	390	---	30	14	---
TOTAL	401.8	331.8	304.5	249.7	220.8	295.5	1876	11675	5013	1275	615	573
MEAN	13.0	11.1	9.82	8.05	7.89	9.53	62.5	377	167	41.1	19.8	19.1
MAX	23	13	12	9.4	8.5	14	230	615	350	56	29	52
MIN	8.8	8.0	8.1	6.6	7.0	7.7	12	190	58	30	14	13
AC-FT	797	658	604	495	438	586	3720	23160	9940	2530	1220	1140

CAL YR 1981 TOTAL 11252.1 MEAN 30.8 MAX 250 MIN 5.4 AC-FT 22320
WTR YR 1982 TOTAL 22831.1 MEAN 62.6 MAX 615 MIN 6.6 AC-FT 45290

GREEN RIVER BASIN

09310600 ECCLES CANYON NEAR SCOFIELD, UTAH

LOCATION.--Lat 39°41'07", long 111°09'22", in NW¼SW¼SE¼ sec.17, T.13 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on left bank about 0.4 mi (0.6 km) upstream from State Highway 96, 2.9 mi (4.7 km) south of Scofield.

DRAINAGE AREA.--5.5 mi² (14.24 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 7,980 ft (2,432 m) from topographic map.

REMARKS.--Records poor. Due to heavy construction in the vicinity of the gage, a reliable record could not be obtained nor could a stage-discharge relationship be maintained. Daily figures shown are a percentage of daily flows at Mud Creek (station 09310700) located 3.0 mi (4.8 km) downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46 ft³/s (1.30 m³/s) June 11, 1980, gage height, 1.26 ft (0.384 m); minimum, 0.62 ft³/s (0.018 m³/s) Jan. 10, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 35 ft³/s (0.99 m³/s) May 28; minimum daily, 0.78 ft³/s (0.022 m³/s) Jan. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.3	1.2	.92	1.1	1.8	2.0	15	19	8.3	3.8	1.8
2	1.3	1.3	1.2	.92	1.0	1.9	1.8	19	19	8.0	3.8	1.7
3	1.1	1.3	1.2	.95	1.1	2.1	1.7	21	18	7.9	3.8	1.5
4	2.1	1.4	1.2	.98	1.0	2.0	1.7	22	17	7.4	3.5	1.6
5	1.6	1.3	1.2	.98	.92	1.8	1.5	20	16	7.0	3.5	1.7
6	1.1	1.3	1.2	.92	.84	1.7	1.6	18	14	6.8	3.0	1.7
7	1.1	1.3	1.2	.78	.90	1.8	1.7	16	13	6.6	2.7	1.8
8	2.1	1.3	1.3	.87	1.0	2.0	1.4	16	12	6.7	3.8	1.8
9	1.3	1.3	1.3	.92	1.1	2.1	1.5	15	12	7.3	2.8	1.7
10	1.3	1.2	1.3	.92	1.1	2.0	1.5	13	14	6.1	2.5	1.8
11	3.2	1.2	1.3	.98	1.1	2.0	2.2	11	15	5.8	3.2	1.8
12	2.1	1.2	1.3	1.0	1.1	1.9	2.7	9.2	16	5.8	2.9	1.8
13	1.6	1.2	1.3	1.1	1.2	2.0	3.0	8.7	15	6.1	2.9	2.9
14	1.4	1.3	1.3	1.1	1.2	2.0	3.1	10	16	5.1	2.7	2.5
15	1.3	1.3	1.3	1.1	1.2	2.0	3.2	11	13	4.8	2.5	2.4
16	1.6	1.2	1.3	1.1	1.2	1.8	3.2	12	13	4.5	2.5	2.1
17	1.6	1.2	1.3	1.1	1.2	1.7	3.2	14	14	4.2	2.5	1.9
18	1.7	1.2	1.2	1.1	1.3	1.7	3.2	18	15	4.5	2.4	1.9
19	1.8	1.0	1.2	1.1	1.3	1.8	3.1	17	13	4.5	2.4	1.9
20	1.7	.90	1.2	1.1	1.3	1.7	3.0	16	12	4.2	2.2	2.1
21	1.6	1.1	1.3	1.1	1.4	1.6	3.3	17	13	3.8	2.0	2.0
22	1.5	1.2	1.2	1.0	1.4	1.7	3.0	18	12	4.2	2.6	2.0
23	1.5	1.3	1.2	1.1	1.5	2.0	3.2	21	12	4.2	2.7	2.0
24	1.4	1.3	1.1	1.1	1.5	2.1	4.3	24	11	3.8	2.2	1.9
25	1.3	1.3	1.1	1.1	1.5	2.1	5.2	30	9.6	3.8	2.0	2.3
26	1.3	1.1	1.1	1.1	1.6	2.2	6.9	31	10	4.5	1.9	4.8
27	1.3	.80	1.1	1.1	1.8	2.1	8.3	33	9.7	7.4	2.8	4.8
28	1.3	1.1	1.1	1.1	1.7	2.0	10	35	9.4	5.8	2.5	4.5
29	1.6	1.2	1.1	1.1	---	2.1	13	28	8.7	4.8	2.1	4.5
30	1.6	1.3	1.0	1.1	---	2.2	13	25	8.5	4.8	1.9	6.1
31	1.2	---	.98	1.1	---	2.4	---	23	---	4.2	1.8	---
TOTAL	47.9	36.40	37.28	31.94	34.56	60.3	116.5	586.9	399.9	172.9	83.9	73.3
MEAN	1.55	1.21	1.20	1.03	1.23	1.95	3.88	18.9	13.3	5.58	2.71	2.44
MAX	3.2	1.4	1.3	1.1	1.8	2.4	13	35	19	8.3	3.8	6.1
MIN	1.1	.80	.98	.78	.84	1.6	1.4	8.7	8.5	3.8	1.8	1.5
AC-FT	95	72	74	63	69	120	231	1160	793	343	166	145

CAL YR 1981 TOTAL 586.05 MEAN 1.61 MAX 5.6 MIN .80 AC-FT 1160
WTR YR 1982 TOTAL 1681.78 MEAN 4.61 MAX 35 MIN .78 AC-FT 3340

GREEN RIVER BASIN

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09310600 ECCLES CANYON NEAR SCOFIELD, UT--Continued

WATER-QUALITY RECORDS

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

SEDIMENT DATA: December 1979 to current year, periodically.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)			
MAY							
12...	1645	9.2	352	8.7			
15...	1600	11	539	16			
19...	--	17	943	43			
19...	1255	17	678	31			
20...	1305	16	577	25			
20...	1900	16	987	43			
26...	1350	31	1910	160			
28...	1710	35	1890	179			
JUN							
02...	1310	19	254	13			
02...	1800	19	317	16			
07...	1310	13	284	10			
09...	1615	12	214	6.9			
13...	1900	15	144	5.8			
14...	1900	16	143	6.2			
23...	2020	12	101	3.3			
JUL							
02...	0935	8.0	82	1.8			
05...	1825	7.0	115	2.2			
09...	0845	7.3	108	2.1			
13...	1810	6.1	94	1.5			
19...	1750	4.5	94	1.1			
25...	2000	3.8	508	5.2			
28...	1850	5.8	190	3.0			
AUG							
03...	1815	3.8	149	1.5			
06...	1200	3.0	220	1.8			
08...	1705	3.8	1480	15			
11...	1710	3.2	23900	206			
12...	2005	2.9	306	2.4			
18...	1505	2.4	101	.65			
25...	1850	2.0	98	.53			
SEP							
12...	--	1.8	25	.12			
15...	1805	2.4	167	1.1			
DATE	TIME	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (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
AUG							
11...	1710	23900	206	25	33	50	84

All discharge values are mean daily.

GREEN RIVER BASIN

09310700 MUD CREEK BELOW WINTER QUARTERS CANYON, AT SCOFIELD, UTAH

LOCATION.--Lat 39°43'18", long 111°09'38", in SW¼NE¼ sec.5, T.13 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on left bank 1.3 mi (2.1 km) upstream from mouth, 0.1 mi (0.2 km) below Winter Quarters Canyon, 0.2 mi (0.3 km) upstream from Scofield.

DRAINAGE AREA.--29.1 mi² (75.4 km²).

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 discharge 186 ft³/s (5.27 m³/s) May 28, 1982, gage height, 2.11 ft (0.643 m); minimum, 1.4 ft³/s (0.040 m³/s) Sept. 8, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 186 ft³/s (5.27 m³/s) May 28, gage height, 2.11 ft (0.643 m); minimum, 2.7 ft³/s (0.076 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	4.3	4.2	3.4	3.5	6.4	8.8	66	86	39	12	5.7
2	3.0	4.5	4.0	3.3	3.4	6.6	7.8	82	84	31	12	5.4
3	3.4	4.2	4.2	3.3	3.3	6.0	7.0	90	78	30	12	5.1
4	6.7	4.5	3.8	3.3	3.2	5.6	7.4	97	72	31	11	5.4
5	5.1	4.2	3.5	3.2	3.0	5.2	6.4	88	68	29	11	5.7
6	3.4	4.0	3.7	3.0	2.9	5.0	7.0	79	61	23	8.1	5.7
7	3.4	4.0	4.2	2.9	3.2	5.8	7.4	72	57	22	8.1	6.0
8	6.7	4.0	4.0	3.2	3.5	6.5	6.0	71	54	23	11	6.0
9	4.2	4.0	4.3	3.3	3.6	7.0	6.6	70	53	25	8.4	5.7
10	4.0	3.7	4.8	3.4	3.7	7.0	6.6	65	64	22	7.4	6.0
11	10	3.7	4.3	3.4	3.7	7.0	9.6	59	65	21	9.6	6.3
12	6.7	3.7	4.0	3.5	3.7	6.8	13	55	69	21	8.8	6.3
13	5.1	3.7	4.2	3.5	4.0	6.4	12	47	68	21	8.8	9.2
14	4.5	4.0	4.0	3.6	4.2	6.8	15	48	69	18	8.1	8.1
15	4.2	4.2	4.3	3.6	4.2	7.0	16	52	58	17	7.4	8.1
16	5.1	3.7	4.2	3.5	4.2	6.3	16	54	58	17	7.4	7.7
17	5.1	3.7	4.0	3.7	4.4	6.0	16	63	60	16	7.4	7.1
18	5.4	3.7	3.8	3.7	4.6	6.0	16	75	69	17	7.0	6.4
19	5.7	3.4	3.9	3.6	4.6	6.4	16	70	62	16	7.0	6.4
20	5.4	3.5	4.1	3.5	4.8	6.0	15	71	56	16	6.7	6.8
21	5.1	3.6	4.0	3.4	4.8	5.6	17	77	59	15	6.0	6.4
22	4.8	3.8	3.9	3.4	4.9	6.2	16	81	60	16	7.7	6.5
23	4.8	4.0	3.6	3.4	5.2	7.0	19	95	58	17	8.1	6.1
24	4.5	4.0	3.7	3.7	5.1	7.0	23	132	52	17	6.7	6.0
25	4.2	4.0	3.8	3.8	5.2	7.5	27	131	49	16	6.0	7.2
26	4.2	3.3	3.7	3.6	5.4	7.7	31	138	46	18	5.7	15
27	4.2	3.7	3.7	3.6	6.0	7.4	36	143	44	21	8.4	15
28	4.0	3.5	3.5	3.5	5.8	7.0	45	149	42	16	7.4	14
29	5.1	4.0	3.4	3.5	---	7.4	55	123	38	14	6.7	14
30	5.1	4.2	3.6	3.4	---	7.5	58	110	38	14	6.0	19
31	3.9	---	3.5	3.4	---	8.0	---	99	---	13	5.7	---
TOTAL	149.7	116.8	121.9	106.6	118.1	204.1	542.6	2652	1797	632	253.6	238.3
MEAN	4.83	3.89	3.93	3.44	4.22	6.58	18.1	85.5	59.9	20.4	8.18	7.94
MAX	10	4.5	4.8	3.8	6.0	8.0	58	149	86	39	12	19
MIN	2.7	3.3	3.4	2.9	2.9	5.0	6.0	47	38	13	5.7	5.1
AC-FT	297	232	242	211	234	405	1080	5260	3560	1250	503	473

CAL YR 1981 TOTAL 1952.0 MEAN 5.35 MAX 18 MIN 2.3 AC-FT 3870
WTR YR 1982 TOTAL 6932.7 MEAN 19.0 MAX 149 MIN 2.7 AC-FT 13750

09311000 SCOFIELD RESERVOIR NEAR SCOFIELD, UTAH

LOCATION.--Lat 39°47'15", long 111°07'30", in NW¼SE¼ sec.10, T.12 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on right bank 200 ft (60 m) upstream from face of dam on Price River and 4.7 mi (7.6 km) northeast of Scofield.

DRAINAGE AREA.--154 mi² (399 km²).

PERIOD OF RECORD.--October 1941, April 1942 to current year. Fragmentary records 1926-41 in files of Office of State Engineer.

REVISED RECORDS.--WSP 1089: 1946. WDR UT-77-1: Drainage area.

GAGE.--Staff gage read twice daily. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation). Prior to Nov. 8, 1945, at site 800 ft (240 m) upstream 200 ft (60 m) from old dam at datum 4.51 ft (1.375 m) higher.

REMARKS.--Reservoir is formed by earth and rockfill; rock-faced dam 800 ft (240 m) downstream from old dam in use prior to Nov. 8, 1945. Storage began in May 1926. Usable capacity of reservoir formed by new dam is 65,780 acre-ft (81.1 hm³) 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 hm³) below elevation 7,586.0 ft (2,312.21 m). Figures given herein represent usable contents. Water used for irrigation in vicinity of Price.

COOPERATION.--Capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 76,450 acre-ft (94.3 hm³) May 31, June 1, 1952; elevation, 7,621.3 ft (2,322.97 m); minimum observed, 280 acre-ft (0.35 hm³) Oct. 3, 1945; elevation, 7,586.25 ft (2,312.289 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 74,090 acre-ft (91.4 hm³) June 1, elevation, 7,620.4 ft (2,322.70 m); minimum, 29,110 acre-ft (35.9 hm³) Oct. 2-8, elevation, 7,603.0 ft (2,317.39 m).

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

7,600	22,750	7,615	58,870
7,605	33,600	7,621	75,830
7,610	45,720		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29330	30430	31550	32690	34530	35700	37590	43710	74090	68620	60780	52440
2	29110	30430	31550	32690	34530	35700	37590	44960	73510	68620	60510	52180
3	29110	30660	31550	32690	34530	35700	37830	46230	72930	68330	60510	51920
4	29110	30660	31780	32690	34530	35930	37830	47250	72930	68040	60230	51650
5	29110	30660	31780	32910	34530	35930	37830	48790	72930	67760	59690	51390
6	29110	30660	31780	32910	34760	35930	37830	50090	72640	67760	59410	51130
7	29110	30880	31780	32910	34760	35930	37830	51390	72640	67760	59410	50870
8	29110	30880	31780	33140	34760	35930	38070	52180	72060	67760	59140	50870
9	29330	30880	31780	33140	34760	36170	38070	53230	71770	67760	58870	50610
10	29330	30880	31780	33140	34990	36170	38070	54300	71770	67480	58600	50350
11	29550	31100	32010	33370	34990	36170	38070	55360	71480	67480	58320	50090
12	29550	31100	32010	33370	34990	36170	38310	56160	71480	67190	58050	49570
13	29550	31100	32010	33370	34990	36400	38310	56700	71200	66910	57780	49570
14	29550	31100	32010	33370	34990	36400	38310	57780	71200	66630	57510	49310
15	29550	31100	32010	33600	35230	36400	38550	58320	71200	66350	57240	49050
16	29770	31100	32010	33600	35230	36400	38550	59140	71200	66060	56970	49050
17	29770	31100	32010	33600	35230	36640	39030	60510	70910	65780	56700	48790
18	29770	31330	32230	33600	35230	36640	39030	61330	70910	65500	56430	48790
19	29990	31330	32230	33830	35230	36640	39030	62440	70620	64940	56160	48540
20	29990	31330	32230	33830	35460	36640	39030	63820	70620	64660	55900	48280
21	29990	31330	32230	33830	35460	36890	39280	64940	70330	64100	55900	48280
22	29990	31330	32230	33830	35460	36890	39280	66350	70330	63820	55630	48020
23	29990	31550	32230	33830	35460	36890	39520	67760	69760	63550	55360	47760
24	29990	31550	32230	34060	35460	36890	39520	69190	69760	62990	54830	47760
25	29990	31550	32230	34060	35700	36890	40000	70330	69760	62710	54560	47760
26	29990	31550	32460	34060	35700	37120	40000	71480	69760	62440	54560	47510
27	29990	31550	32460	34060	35700	37120	41230	72350	69470	62440	54300	47510
28	30210	31550	32460	34300	35700	37120	41230	73510	69190	62160	54030	47510
29	30210	31550	32460	34300	---	37350	42220	73800	69190	61880	53500	47760
30	30210	31550	32460	34300	---	37350	43210	73800	68900	61880	53230	48280
31	30430	---	32460	34300	---	37350	---	73800	---	61330	52970	---
(+)	7603.6	7604.1	7604.5	7605.3	7605.9	7606.6	7609.0	7620.3	7618.6	7615.9	7612.8	7611.0
(+)	+1100	+1120	+910	+1840	+1400	+1650	+5860	+30590	-4900	-7570	-8360	-4690

CAL YR 1981 (+) -16080

WTR YR 1982 (+) +18950

(+) ELEVATION, IN FEET, AT END OF MONTH
(+) CHANGE IN CONTENTS, IN ACRE-Feet

09312600 WHITE RIVER BELOW TABBAYNE CREEK, NEAR SOLDIER SUMMIT, UTAH

LOCATION.--Lat 39°52'33", long 111°02'12", in NE¼SE¼SW¼ sec.9, T.11 S., R.8 E., Utah County, Hydrologic Unit 14060007, 50 ft (15 m) downstream from bridge on U.S. Highways 6-50, 1.5 mi (2.4 km) downstream from Tabbayne 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 mi² (195.8 km²).

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 fair.

AVERAGE DISCHARGE.--15 years, 28.6 ft³/s (0.810 m³/s), 20,720 acre-ft/yr (25.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 464 ft³/s (13.1 m³/s) May 14, 1982, gage height, 5.00 ft (1.524 m); no flow many days Aug. and Sept. 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 100 ft³/s (2.83 m³/s) 464 ft³/s (13.1 m³/s) May 4, gage height, 5.00 ft (1.524 m); minimum daily, 1.4 ft³/s (0.040 m³/s) Feb. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	6.5	5.0	1.7	1.7	3.4	12	318	181	37	14	7.2
2	2.5	6.8	3.0	1.7	1.7	3.6	12	357	169	35	13	6.8
3	4.0	6.8	2.2	1.7	1.6	3.5	15	402	159	33	14	6.5
4	5.0	6.8	1.8	1.6	1.6	3.4	12	422	148	31	13	6.5
5	6.0	6.5	1.7	1.6	1.5	3.2	12	433	139	30	12	7.6
6	6.2	6.5	1.7	1.6	1.4	3.2	10	402	131	30	12	7.9
7	5.9	6.5	1.8	1.5	1.4	5.0	9.0	375	121	29	11	8.3
8	6.8	6.5	1.9	1.6	1.5	7.0	6.0	357	111	28	12	7.2
9	6.5	6.5	2.0	1.6	1.6	9.6	5.5	347	101	29	14	6.5
10	5.9	6.2	1.9	1.7	1.7	11	5.5	344	96	27	12	8.3
11	7.9	6.2	2.0	1.7	1.7	10	10	319	87	25	11	7.9
12	7.9	6.2	1.9	1.7	1.8	10	37	291	82	25	12	7.2
13	6.8	6.2	1.8	1.6	1.9	10	62	270	79	24	12	9.6
14	6.5	6.5	1.7	1.6	2.1	13	78	267	75	22	12	10
15	6.5	6.5	1.8	1.6	2.3	13	93	277	74	22	11	8.7
16	7.9	6.5	1.9	1.7	2.4	18	100	295	68	21	10	7.6
17	7.6	6.2	1.7	1.7	2.4	15	100	318	64	20	10	7.2
18	8.3	6.8	1.8	1.7	2.3	17	112	338	61	19	11	6.8
19	8.3	6.2	1.9	1.6	2.3	12	109	355	59	19	9.9	6.5
20	7.9	5.4	1.9	1.6	2.4	11	96	344	56	18	9.3	7.6
21	7.6	6.2	2.0	1.7	2.4	12	90	333	54	17	8.9	6.2
22	7.2	6.5	1.9	1.6	2.5	7.0	92	325	52	17	9.4	6.2
23	7.2	6.8	1.8	1.6	2.5	6.0	112	315	49	17	11	6.2
24	6.8	6.6	1.7	1.7	2.6	6.0	144	318	47	17	9.0	5.9
25	6.8	6.2	1.8	1.8	2.6	6.0	176	315	44	17	8.6	6.5
26	6.5	5.6	1.8	1.8	2.5	7.0	181	300	42	17	9.7	8.3
27	6.5	5.0	1.8	1.9	2.9	13	198	283	40	18	11	10
28	6.5	4.6	1.7	1.8	3.3	14	235	270	38	19	11	12
29	7.2	4.6	1.7	1.7	---	10	282	245	37	17	11	12
30	7.9	5.2	1.8	1.7	---	16	298	221	36	16	6.2	20
31	6.5	---	1.7	1.6	---	13	---	198	---	15	5.9	---
TOTAL	203.6	185.6	61.1	51.7	58.6	291.9	2704.0	9954	2500	711	336.9	245.2
MEAN	6.57	6.19	1.97	1.67	2.09	9.42	90.1	321	83.3	22.9	10.9	8.17
MAX	8.3	6.8	5.0	1.9	3.3	18	298	433	181	37	14	20
MIN	2.5	4.6	1.7	1.5	1.4	3.2	5.5	198	36	15	5.9	5.9
AC-FT	404	368	121	103	116	579	5360	19740	4960	1410	668	486

CAL YR 1981 TOTAL 3951.5 MEAN 10.8 MAX 55 MIN 1.0 AC-FT 7840
WTR YR 1982 TOTAL 17303.6 MEAN 47.4 MAX 433 MIN 1.4 AC-FT 34320

LOCATION.--Lat 39°49'50", long 110°58'07", in NW¼SW¼ 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 23 ft³/s (0.651 m³/s), 45 ft³/s (1.275 m³/s) May 24, gage height, 1.61 ft (0.491 m); minimum daily, 0.01 ft³/s (<0.001 m³/s) Oct. 1-10, Nov. 29.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.03	.04	.04	.04	.05	.05	15	25	5.3	.32	.14
2	.01	.03	.04	.04	.04	.05	.05	19	23	4.4	.25	.08
3	.01	.03	.04	.04	.04	.05	.05	24	21	3.8	.25	.08
4	.01	.03	.04	.04	.04	.05	.05	31	20	3.3	.25	.08
5	.01	.03	.04	.04	.04	.05	.05	31	19	3.0	.25	.14
6	.01	.03	.04	.04	.04	.05	.05	28	19	3.3	.20	.05
7	.01	.03	.04	.04	.04	.05	.05	28	18	2.8	.20	.05
8	.01	.03	.04	.04	.04	.05	.05	29	16	2.8	.20	.08
9	.01	.03	.04	.04	.04	.05	.05	30	15	3.8	.96	.08
10	.01	.03	.04	.04	.04	.05	.05	33	14	2.8	.50	.14
11	.03	.03	.04	.04	.04	.05	.08	32	13	2.4	.25	.14
12	.03	.03	.04	.04	.04	.05	.20	29	12	2.0	.25	.14
13	.03	.03	.04	.04	.04	.05	.30	27	12	1.6	.32	.20
14	.03	.03	.04	.04	.04	.05	.40	26	12	1.4	.32	.14
15	.03	.03	.04	.04	.05	.05	.60	27	12	.96	.25	.14
16	.05	.03	.04	.04	.05	.05	.70	27	11	.83	.20	.08
17	.03	.03	.04	.04	.05	.05	1.0	29	11	.70	.20	.08
18	.03	.03	.04	.04	.05	.05	1.4	33	10	.50	.14	.08
19	.03	.03	.04	.04	.05	.05	.80	37	10	.50	.14	.08
20	.03	.03	.04	.04	.05	.05	.40	36	9.0	.50	.14	.08
21	.03	.03	.04	.04	.05	.05	.35	36	9.0	.50	.14	.08
22	.03	.03	.04	.04	.05	.05	.35	38	10	.40	.14	.08
23	.03	.03	.04	.04	.05	.05	.70	40	8.2	.50	.14	.14
24	.03	.03	.04	.04	.05	.05	3.3	44	7.9	.96	.08	.14
25	.03	.03	.04	.04	.05	.05	5.9	43	7.2	.83	.08	.14
26	.03	.03	.04	.04	.05	.05	6.5	42	6.5	.60	.08	.20
27	.03	.03	.04	.04	.05	.05	7.9	41	5.9	1.4	.08	.96
28	.03	.03	.04	.04	.05	.05	12	38	5.6	1.6	.08	1.4
29	.03	.01	.04	.04	---	.05	14	34	4.7	.83	.14	2.2
30	.03	.04	.04	.04	---	.05	13	30	4.7	.50	.14	3.8
31	.03	---	.04	.04	---	.05	---	27	---	.40	.14	---
TOTAL	.75	.89	1.24	1.24	1.26	1.55	70.38	984	371.7	55.21	6.83	11.22
MEAN	.024	.030	.040	.040	.045	.050	2.35	31.7	12.4	1.78	.22	.37
MAX	.05	.04	.04	.04	.05	.05	14	44	25	5.3	.96	3.8
MIN	.01	.01	.04	.04	.04	.05	.05	15	4.7	.40	.08	.05
AC-FT	1.5	1.8	2.5	2.5	2.5	3.1	140	1950	737	110	14	22
CAL YR 1981	TOTAL	120.42	MEAN	.33	MAX	8.6	MIN	.01	AC-FT	239		
WTR YR 1982	TOTAL	1506.27	MEAN	4.13	MAX	44	MIN	.01	AC-FT	2990		

GREEN RIVER BASIN

09312800 WILLOW CREEK NEAR CASTLE GATE, UTAH

LOCATION.--Lat 39°46'37", long 110°47'30", in SW¼SE¼SW¼ sec.15, T.12 S., R.10 E., Carbon County, Hydrologic Unit 14060007, on right bank 130 ft (40 m) upstream from Deep Canyon, 170 ft (52 m) east of State Highway 33, 1.5 mi (2.4 km) downstream from junction with two major tributaries, 5.1 mi (8.2 km) northeast of Castle Gate, 5.4 mi (8.7 km) upstream from mouth, and 12.3 mi (19.8 km) north of Price.

DRAINAGE AREA.--62.8 mi² (162.7 km²).

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 poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--20 years, 8.20 ft³/s (0.232 m³/s), 5,940 acre-ft/yr (7.32 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 836 ft³/s (23.7 m³/s) Aug. 6, 1973, gage height, 6.47 ft (1.972 m) from floodmarks; no flow on many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 100 ft³/s (2.83 m³/s), 182 ft³/s (5.15 m³/s) Aug. 21, gage height, 3.35 ft (1.021 m); minimum daily, 0.76 ft³/s (0.022 m³/s) Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	2.8	1.5	1.0	1.1	3.0	7.0	52	30	8.5	2.7	3.0
2	1.3	3.0	1.7	1.0	1.2	3.2	7.1	54	28	8.1	5.0	2.8
3	2.6	2.8	1.8	1.0	1.3	3.3	7.1	57	27	7.8	2.8	2.5
4	5.3	2.8	1.7	1.0	1.2	3.2	7.2	59	25	7.4	2.5	2.4
5	2.2	2.8	1.7	1.0	1.1	3.2	7.4	56	24	7.8	2.4	2.2
6	1.7	2.9	1.6	1.0	1.2	3.3	7.3	49	23	7.8	2.3	2.0
7	1.7	3.0	1.6	1.0	1.2	3.4	7.4	46	22	7.1	2.3	1.9
8	1.9	2.8	1.6	1.0	1.3	3.6	7.5	41	21	7.1	3.3	1.8
9	1.6	2.4	1.6	1.0	1.4	3.8	7.5	38	19	7.1	2.4	1.3
10	1.6	2.4	1.6	1.0	1.5	3.9	7.7	38	19	6.7	2.2	5.7
11	20	2.4	1.6	1.1	1.7	4.0	8.0	37	18	6.4	2.1	2.7
12	6.0	2.6	1.5	1.1	1.7	4.2	12	35	17	6.0	2.1	2.0
13	4.2	2.6	1.6	1.1	1.7	4.3	15	33	17	5.7	3.0	5.0
14	3.0	2.6	1.5	1.1	1.7	4.5	20	34	17	4.8	2.0	3.1
15	3.2	2.6	1.6	1.1	1.8	4.7	22	36	17	4.5	1.9	2.8
16	5.1	2.4	1.4	1.1	1.9	4.8	24	38	16	4.2	1.9	2.3
17	4.2	2.6	1.4	1.1	1.9	4.9	25	42	15	4.0	1.9	2.1
18	3.7	2.2	1.3	1.1	1.8	5.0	27	44	16	4.0	1.8	1.9
19	3.2	1.7	1.4	1.1	1.9	5.2	27	46	14	3.8	1.8	2.8
20	3.2	1.6	1.4	1.1	2.0	5.4	26	43	13	3.6	1.6	3.6
21	3.4	1.5	1.5	1.0	2.1	4.3	25	42	13	3.5	2.1	2.1
22	3.2	1.5	1.5	1.0	2.1	4.4	25	44	13	3.4	3.2	1.9
23	3.2	1.5	1.1	1.1	2.3	4.7	36	44	12	3.4	2.5	1.8
24	3.4	1.6	1.0	1.1	2.4	5.0	43	46	11	3.4	2.4	1.7
25	3.2	1.7	1.0	1.1	2.5	5.3	49	43	11	3.3	2.1	2.2
26	3.0	1.3	1.1	1.2	2.5	5.6	49	42	10	3.6	3.2	4.2
27	3.2	1.4	1.1	1.1	2.6	6.0	51	42	9.3	3.4	4.4	6.5
28	3.2	1.5	1.0	1.1	2.7	6.2	49	40	8.9	3.4	3.3	6.8
29	4.0	1.7	1.0	1.1	---	6.3	49	37	8.5	2.9	4.3	8.7
30	3.0	1.6	1.1	1.0	---	6.5	53	34	8.5	2.8	3.2	33
31	2.4	---	1.1	1.1	---	6.6	---	31	---	2.8	3.0	---
TOTAL	112.2	66.3	43.6	32.9	49.8	141.8	708.2	1323	503.2	158.3	100.6	122.8
MEAN	3.62	2.21	1.41	1.06	1.78	4.57	23.6	42.7	16.8	5.11	3.25	4.09
MAX	20	3.0	1.8	1.2	2.7	6.6	53	59	30	8.5	21	33
MIN	1.3	1.3	1.0	1.0	1.1	3.0	7.0	31	8.5	2.8	1.6	1.3
AC-FT	223	132	86	65	99	281	1400	2620	998	314	200	244

CAL YR 1981 TOTAL 1468.0 MEAN 4.02 MAX 40 MIN 1.0 AC-FT 2910
WTR YR 1982 TOTAL 3362.7 MEAN 9.21 MAX 59 MIN 1.0 AC-FT 6670

GREEN RIVER BASIN

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09313975 SOLDIER CREEK BELOW MINE, NEAR WELLINGTON, UTAH

LOCATION.--Lat 39°41'43", Long 110°36'52", in NW¼NW¼SE¼ sec.18, T.13 S., R.12 E., Carbon County, Hydrologic Unit 14060007, on right bank 16 mi (2.6 km) upstream from mouth, 0.4 mi (0.6 km) downstream from Soldier Creek Mine, 14 mi (23 km) northeast of Wellington.

DRAINAGE AREA.--17.7 mi² (45.8 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1978 to current year (seasonal).

REVISED RECORDS.--WDR UT-81-1: 1979, 1980.

GAGE.--Water-stage recorder. Altitude of gage is 6,650 ft (2,027 m) from topographic map.

REMARKS.--Records good except those of no gage-height record, Oct. 16-Nov. 30, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 472 ft³/s (13.4 m³/s) Sept. 23, 1981, gage height, 4.50 ft (1.372 m); minimum, 0.08 ft³/s (0.002 m³/s) Aug. 5, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 99 ft³/s (2.80 m³/s) Apr. 12, gage height, 3.13 ft (0.954 m) minimum recorded, 0.51 ft³/s (0.014 m³/s) Sept. 4, may have been lower during period of non-operation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.90	2.6				---	4.7	9.5	7.6	2.9	.96	.93
2	1.4	2.8				---	4.8	9.5	7.3	2.7	1.4	.52
3	3.5	2.7				---	7.2	11	7.0	2.6	2.3	.52
4	4.5	2.4				---	8.6	10	7.0	2.5	1.0	.51
5	1.5	2.6				---	9.7	10	6.8	2.6	1.2	.52
6	.80	2.8				---	7.2	10	6.6	2.7	1.4	.52
7	.87	2.9				---	7.6	10	6.6	2.4	.83	.91
8	1.3	2.5				1.7	5.7	10	6.6	1.7	.88	.75
9	1.5	2.3				2.3	5.8	11	6.6	2.0	1.5	1.0
10	.62	2.4				2.8	7.8	10	6.3	2.2	1.9	1.0
11	19	2.5				3.8	9.3	11	6.3	1.9	1.8	.52
12	9.8	2.6				6.3	25	10	5.8	1.3	1.6	.52
13	6.8	2.6				8.0	21	9.8	5.8	1.7	.90	1.3
14	4.5	2.6				7.9	19	10	6.0	1.6	.79	.87
15	4.5	2.7				9.7	14	9.6	5.8	1.6	1.4	.97
16	3.5	2.8				4.6	9.3	9.4	5.8	1.7	1.5	.80
17	3.0	2.3				4.4	10	9.3	6.0	1.6	1.7	.64
18	2.5	2.0				2.8	11	9.4	6.3	1.2	1.5	.56
19	2.2	1.7				2.4	9.2	9.2	5.1	1.4	1.3	.58
20	2.0	1.9				3.6	6.8	9.1	4.9	1.6	1.3	.87
21	2.1	2.1				2.7	5.6	8.8	4.9	1.6	.86	.97
22	2.2	2.3				3.4	8.7	9.0	4.7	1.6	.82	.75
23	2.9	2.0				3.8	9.5	9.0	4.7	1.5	6.1	.64
24	3.2	1.7				2.9	13	8.7	4.7	.91	1.9	.62
25	2.8	1.3				4.1	12	8.7	4.5	1.9	.87	.62
26	2.7	1.1				5.2	11	8.7	4.0	6.8	.79	3.2
27	2.6	1.3				5.0	13	8.4	4.0	2.7	1.4	4.7
28	3.0	1.4				7.2	12	7.8	3.4	3.0	.69	5.6
29	3.7	1.3				6.7	11	7.8	2.8	1.4	.91	5.6
30	2.7	1.1				4.4	9.5	7.8	3.0	1.0	.83	13
31	2.4	---				5.4	---	7.6	---	.92	.79	---
TOTAL	104.99	65.3				---	309.0	290.1	166.9	63.23	43.12	50.51
MEAN	3.39	2.18				---	10.3	9.36	5.56	2.04	1.39	1.68
MAX	19	2.9				---	25	11	7.6	6.8	6.1	13
MIN	.62	1.1				---	4.7	7.6	2.8	.91	.69	.51
AC-FT	208	130				---	613	575	331	125	86	100

GREEN RIVER BASIN

09313975 SOLDIER CREEK BELOW MINE, NEAR WELLINGTON, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to current year.

SEDIMENT DATA: November 1978 to September 1981, periodically (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	
JUN 30...	1430	3.6	760	8.4	16.5	15.5	7.7	599	--	270	46	
JUL 22...	1500	1.8	850	8.6	31.0	23.0	7.2	603	.50	250	36	
AUG 19...	0900	.81	800	8.5	19.0	13.5	7.7	604	--	290	44	
DATE	TIME	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
JUN 30...	37	90	42	2.7	5.3	62	14	.6	8.0	453	.62	
JUL 22...	38	110	48	3.5	6.8	72	18	.7	8.0	503	.68	
AUG 19...	44	93	41	2.7	5.1	120	27	.5	7.1	438	.60	
DATE	TIME	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	
JUN 30...	4.4	.160	.94	1.10	.00	1.2	<.10	.060	.18	.050		
JUL 22...	2.4	.150	1.1	1.20	.80	.40	.10	.070	.21	.010		
AUG 19...	.96	.270	1.6	1.90	.20	1.7	<.10	.070	.21	.050		
DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	
JUN 30...	1430	2	1	1	--	--	--	<10	<1	190	<1	
JUL 22...	1500	--	--	--	--	--	--	--	--	220	--	
AUG 19...	0900	2	0	2	<1	<100	190	<10	1	170	<1	
DATE	TIME	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECov. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECov. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COBALT, RECov. FM BOT- TOM MA- TERIAL (UG/G 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)	COPPER, RECov. FM BOT- TOM MA- TERIAL (UG/G AS CU)	
JUN 30...	<1	--	<10	<10	--	--	1	0	2	--		
JUL 22...	--	--	--	--	--	--	--	--	--	--		
AUG 19...	<1	<1	10	<10	2	<10	1	0	1	4		

09313975 SOLDIER CREEK BELOW MINE, NEAR WELLINGTON, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, FM BOT- TOM MA- TERIAL (UG/G AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM SUS- PENDE RECOV- ERABLE (UG/L AS LI)	LITHIUM DIS- SOLVED (UG/L AS LI)
JUN 30...	350	340	7	--	1	<1	--	--	--	--
JUL 22...	220	210	10	--	--	--	--	--	--	--
AUG 19...	310	290	17	690	<1	<1	10	50	1	49

DATE	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)
JUN 30...	30	20	13	--	.1	<.1	--	5	<1	1
JUL 22...	30	20	10	--	--	--	--	--	--	--
AUG 19...	30	8	22	250	<.1	<.1	<.01	2	<1	1

DATE	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SELE- NIUM, IN BOT- TOM MA- TERIAL (UG/G)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR)	STRON- TIUM, SUS- PENDE RECOV- ERABLE (UG/L AS SR)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, FM BOT- TOM MA- TERIAL (UG/G AS ZN)
JUN 30...	0	1	--	--	--	--	20	0	25	--
JUL 22...	--	--	--	--	--	--	--	--	--	--
AUG 19...	0	1	<1	450	0	480	10	7	3	4

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)
JUN 30...	1430	3.8	.3	--	--
JUL 22...	1500	3.6	.2	--	10
AUG 19...	0900	6.4	.4	<.01	7

BENTHIC-INVERTEBRATE ANALYSES, OCTOBER 1981 TO AUGUST 1982

DATE TIME	JUL 22,82 1500	AUG 19,82 0900
TOTAL COUNT	982	20
DIVERSITY: PHYLUM	0.0	0.0
..CLASS	0.0	0.0
...ORDER	1.7	0.9
...FAMILY	0.0	0.9
....GENUS	0.0	0.0
....GENUS-INSECTA	0.0	0.0
ORGANISM	COUNT	COUNT
ARTHROPODA (ARTHROPODS)		
..INSECTA		
...COLEOPTERA		
...DYTISCIDAE	283	--
...DIPTERA		
...CHIRONOMIDAE	91	3
...SIMULIIDAE	81	--
...EPHEMEROPTERA	477	--
...BAETIDAE	--	16
...PLECOPTERA	27	--
...TRICHOPTERA	23	--
...HYDROPSYCHIDAE	--	1

GREEN RIVER BASIN

09313975 SOLDIER CREEK BELOW MINE, NEAR WELLINGTON, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	COAL IN BOTTOM MATE- RIAL (GM/KG)
AUG 19...	0900	.81	13.5	1.30

GREEN RIVER BASIN

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09314250 PRICE RIVER BELOW MILLER CREEK, NEAR WELLINGTON, UTAH

LOCATION.--Lat 39°26'59", long 110°37'38", in NE¼SE¼NE¼ 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 mi² (2,476 km²).

PERIOD OF RECORD.--April 1972 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,150 ft (1,600 m) from topographic map.

REMARKS.--Records poor. Diversions for irrigation above station. Flow affected by storage in Scofield Reservoir.

AVERAGE DISCHARGE.--10 years, 89.1 ft³/s (2.523 m³/s), 64,550 acre-ft/yr (79.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,880 ft³/s (81.6 m³/s) September 11, 1975, gage height, 9.97 ft (3.039 m) from floodmark; minimum, 0.68 ft³/s (0.019 m³/s) June 30, July 1, 2, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 800 ft³/s (22.7 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	(m ³ /s)	Gage height (ft)	(m)
May 29	0800	931	26.4	6.38	1.945
July 30	unknown	*957	27.1	6.47	1.972

Minimum daily, 14 ft³/s (0.396 m³/s) Jan. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	34	15	22	29	100	76	440	798	130	120	60
2	41	28	17	20	28	90	72	480	780	107	80	54
3	50	34	18	18	25	110	74	540	728	83	110	50
4	191	33	19	21	23	90	84	640	680	78	120	47
5	150	26	20	24	21	70	89	630	661	76	80	44
6	58	27	21	20	17	55	81	600	644	73	65	97
7	55	30	21	16	15	50	68	540	566	72	65	56
8	51	28	22	14	18	50	69	500	535	71	60	50
9	45	29	23	16	20	45	66	470	480	83	70	61
10	43	30	23	18	23	42	65	500	452	86	80	57
11	210	28	23	19	22	52	73	440	423	74	85	75
12	276	29	22	19	25	56	83	390	397	61	75	63
13	110	31	22	21	26	52	214	360	391	63	70	71
14	90	32	22	19	24	60	214	363	359	56	69	88
15	60	31	22	20	24	90	238	337	369	56	64	81
16	490	32	21	21	25	72	199	349	359	53	56	67
17	180	28	20	22	25	73	163	359	346	52	46	59
18	90	31	19	23	26	67	195	361	334	51	40	54
19	60	28	20	25	28	65	191	421	333	49	35	54
20	50	24	22	23	29	63	172	434	319	48	31	112
21	45	26	24	20	30	60	163	387	309	50	40	67
22	43	29	23	18	33	57	152	379	302	55	102	66
23	40	33	21	17	45	53	172	391	276	60	56	60
24	38	32	21	19	80	57	210	432	255	65	78	50
25	40	31	21	20	80	60	296	518	237	65	49	48
26	35	30	22	22	90	66	302	620	218	70	50	66
27	35	24	23	26	100	90	285	691	198	100	201	145
28	33	20	19	24	110	90	340	796	181	160	77	205
29	34	19	22	30	---	101	360	873	158	100	255	220
30	32	17	25	32	---	83	410	848	144	240	156	374
31	36	---	23	28	---	75	---	848	---	150	76	---
TOTAL	2745	854	656	657	1041	2144	5176	15937	12232	2537	2561	2601
MEAN	88.5	28.5	21.2	21.2	37.2	69.2	173	514	408	81.8	82.6	86.7
MAX	490	34	25	32	110	110	410	873	798	240	255	374
MIN	32	17	15	14	15	42	65	337	144	48	31	44
AC-FT	5440	1690	1300	1300	2060	4250	10270	31610	24260	5030	5080	5160
CAL YR 1981	TOTAL	15071	MEAN	41.3	MAX 490	MIN 14	AC-FT 29890					
WTR YR 1982	TOTAL	49141	MEAN	135	MAX 873	MIN 14	AC-FT 97470					

09314280 DESERT SEEP WASH NEAR WELLINGTON, UTAH

LOCATION.--Lat 39°25'16", long 110°38'44", in NW¼SW¼NW¼ 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 mi² (495 km²).

PERIOD OF RECORD.--May 1972 to current year.

REVISED RECORDS.--WDR UT-77-1: 1972-76. WDR UT-80-1: 1979, 1978-79(M).

GAGE.--Water-stage recorder. Altitude of gage is 5,235 ft (1,595 m) from topographic map.

REMARKS.--Records poor. Diversions above station for irrigation.

AVERAGE DISCHARGE.--10 years, 23.3 ft³/s (0.660 m³/s), 16,880 acre-ft/yr (20.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,060 ft³/s (58.3 m³/s) July 24, 1977, gage height, 10.00 ft (3.048 m) from floodmarks from rating curve extended above 70 ft³/s (1.98 m³/s) on basis of slope-area measurements; no flow July 15-17, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 150 ft³/s (4.25 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Oct. 16	0230	*668	18.9	6.27	1.911
July 27	0100	161	4.56	3.72	1.134
Aug. 29	unknown	414	11.7	5.18	1.579
Sept. 19	2230	451	12.8	5.35	1.631

Minimum daily, 2.5 ft³/s (0.071 m³/s) Feb. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	23	7.0	7.0	6.5	55	16	31	32	38	49	55
2	13	31	8.0	6.0	6.0	47	16	32	33	44	47	54
3	14	22	8.5	5.0	5.5	60	17	34	32	44	75	53
4	42	18	9.0	5.0	5.0	40	19	36	35	49	55	47
5	35	25	9.5	7.0	4.2	15	20	39	39	53	45	52
6	31	29	10	6.0	3.0	11	17	32	37	51	42	63
7	28	23	11	5.0	2.5	10	15	29	38	45	40	62
8	26	23	11	4.0	3.0	9.5	16	30	33	40	38	61
9	22	20	11	3.5	4.0	8.5	15	27	33	38	47	53
10	24	20	11	4.0	4.5	8.0	15	29	31	34	55	43
11	62	18	11	4.0	5.0	10	16	30	33	30	55	50
12	76	17	10	4.5	4.5	11	26	29	31	26	50	48
13	46	15	10	5.0	6.0	10	31	29	34	22	46	53
14	32	15	10	4.5	5.5	15	32	28	39	17	43	66
15	39	17	11	5.0	5.5	20	36	27	46	16	40	73
16	256	18	10	5.0	6.0	17	27	27	53	17	36	75
17	91	20	9.5	6.0	6.0	16	27	27	45	16	34	65
18	59	15	8.5	6.0	6.0	15	27	29	43	19	32	56
19	52	15	9.0	7.0	6.5	15	26	28	43	16	31	99
20	52	15	10	6.0	6.5	14	26	28	45	19	30	122
21	46	15	9.0	6.0	7.0	13	20	29	48	29	40	67
22	41	20	8.5	4.0	7.5	13	21	28	45	29	65	72
23	33	20	8.0	4.0	9.0	12	25	25	45	34	38	74
24	33	18	8.0	4.5	12	13	27	22	45	38	50	61
25	29	15	9.0	5.5	48	14	27	24	48	38	37	62
26	26	13	8.1	6.0	48	16	28	28	50	41	55	72
27	24	12	7.5	7.0	55	17	28	31	50	60	110	86
28	22	10	6.7	6.5	55	17	28	26	44	45	75	84
29	21	9.0	7.0	8.0	---	18	29	23	40	48	120	92
30	20	8.0	8.0	8.0	---	18	30	27	36	53	58	132
31	19	---	6.0	7.0	---	16	---	29	---	53	56	---
TOTAL	1325	539.0	280.8	172.0	343.2	574.0	703	893	1206	1102	1594	2052
MEAN	42.7	18.0	9.06	5.55	12.3	18.5	23.4	28.8	40.2	35.5	51.4	68.4
MAX	256	31	11	8.0	55	60	36	39	53	60	120	132
MIN	11	8.0	6.0	3.5	2.5	8.0	15	22	31	16	30	43
AC-FT	2630	1070	557	341	681	1140	1390	1770	2390	2190	3160	4070

CAL YR 1981	TOTAL	7924.1	MEAN	21.7	MAX	256	MIN	2.3	AC-FT	15720
WTR YR 1982	TOTAL	10784.0	MEAN	29.5	MAX	256	MIN	2.5	AC-FT	21390

GREEN RIVER BASIN

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09314340 GRASSY TRAIL CREEK AT SUNNYSIDE, UTAH

LOCATION.--Lat 39°33'20", long 110°22'46", in NE¼NW¼ sec.5, T.15 S., R.14 E., Carbon County, Hydrologic Unit 14060007, on left bank 13 mi (21 km) upstream from mouth, 0.1 mi (0.2 km) downstream from Slaughter Canyon in Sunnyside.

DRAINAGE AREA.--40.1 mi² (103.9 km²).

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 except those of no gage-height record, Oct. 14 to Dec. 2, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 138 ft³/s (3.91 m³/s) May 23, 1980, gage height, 3.13 ft (0.954 m); no flow several days in February 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 100 ft³/s (2.83 m³/s) May 4, gage height, 2.86 ft (0.872 m); minimum daily, 0.13 ft³/s (0.004 m³/s) Feb. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	2.3	2.3	1.7	.19	.29	.96	40	34	6.1	3.1	2.9
2	1.4	2.7	2.8	1.8	.22	.54	1.1	43	32	5.8	4.0	3.2
3	1.2	2.5	3.4	1.7	.21	.38	1.2	78	30	5.1	3.6	3.2
4	2.9	2.4	3.1	1.7	.20	.58	1.2	91	28	4.8	3.9	3.1
5	1.7	2.2	1.7	1.9	.20	1.7	1.3	78	26	5.2	3.9	3.1
6	1.7	2.6	1.5	1.7	.16	1.0	2.2	57	25	5.4	3.8	3.2
7	1.5	2.8	2.7	1.5	.18	1.4	2.3	50	24	5.3	2.3	3.3
8	1.6	2.3	3.0	1.5	.24	1.0	1.6	45	22	5.0	2.2	2.8
9	1.3	2.1	2.4	1.7	.19	.91	2.0	41	20	4.9	2.3	1.3
10	1.9	2.1	1.7	1.6	.20	.96	1.6	37	20	3.8	2.3	3.1
11	3.4	2.1	1.6	1.6	.21	1.0	1.9	33	20	2.0	2.9	3.1
12	2.2	2.2	.57	1.7	.16	1.2	2.3	29	19	2.8	2.8	3.1
13	2.5	2.3	.42	1.7	.13	.96	3.2	26	17	3.7	2.9	4.0
14	2.2	2.3	1.4	1.7	.19	1.0	3.6	24	16	4.0	2.1	3.1
15	1.7	2.5	1.7	1.6	.19	1.2	4.5	24	14	3.5	1.9	3.1
16	3.3	2.5	1.7	.34	.19	.99	5.2	25	13	3.6	2.8	2.8
17	2.8	2.0	1.4	.27	.71	.89	6.7	26	12	3.5	2.3	2.8
18	2.9	1.7	1.0	.62	.90	.80	7.5	33	11	3.4	1.8	2.8
19	2.3	1.6	.58	2.0	1.0	.33	8.1	49	10	2.2	2.2	2.7
20	2.3	1.8	.36	1.7	1.1	.24	8.6	44	9.0	3.0	2.3	2.6
21	2.1	2.1	1.2	1.7	1.2	.23	8.6	45	8.8	3.0	1.9	2.6
22	2.3	2.3	1.7	1.9	1.2	.27	8.6	48	8.8	3.0	1.9	2.6
23	2.7	1.9	1.3	.50	1.1	1.3	8.6	53	8.6	2.7	1.9	2.7
24	3.0	1.6	1.1	.32	.90	1.4	8.8	53	8.2	3.7	1.8	2.3
25	2.9	1.3	1.7	.29	1.0	1.5	8.8	52	7.8	3.8	1.9	1.8
26	2.6	1.2	1.7	.29	1.0	1.6	9.5	52	7.4	3.6	2.6	4.0
27	2.2	1.3	1.5	.25	.25	.91	10	53	7.0	3.9	2.8	3.0
28	2.0	2.0	1.4	1.7	.41	1.1	10	60	6.6	3.3	8.0	2.3
29	3.2	1.9	1.7	1.4	---	1.2	10	51	6.4	5.6	7.7	3.0
30	2.3	1.8	1.7	.22	---	.88	27	45	6.6	3.2	3.8	4.5
31	2.0	---	1.7	.22	---	.86	---	37	---	3.2	3.5	---
TOTAL	69.3	62.4	52.03	38.82	13.83	28.62	176.96	1422	478.2	122.1	93.2	88.1
MEAN	2.24	2.08	1.68	1.25	.49	.92	5.90	45.9	15.9	3.94	3.01	2.94
MAX	3.4	2.8	3.4	2.0	1.2	1.7	27	91	34	6.1	8.0	4.5
MIN	1.2	1.2	.36	.22	.13	.23	.96	24	6.4	2.0	1.8	1.3
AC-FT	137	124	103	77	27	57	351	2820	949	242	185	175

CAL YR 1981 TOTAL 894.59 MEAN 2.45 MAX 17 MIN .04 AC-FT 1770
WTR YR 1982 TOTAL 2645.56 MEAN 7.25 MAX 91 MIN .13 AC-FT 5250

GREEN RIVER BASIN

09314340 GRASSY TRAIL CREEK AT SUNNYSIDE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to current year.

SEDIMENT DATA: December 1978 to September 1981, periodically (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	
JUN 30...	1130	5.6	690	8.3	24.5	13.0	8.0	601	--	300	50	
JUL 22...	1200	3.4	1200	8.4	27.5	16.5	7.3	605	.50	310	44	
AUG 19...	1200	1.8	1210	8.5	29.5	17.0	7.3	605	1.1	310	43	
DATE	TIME	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
JUN 30...	42	61	31	1.8	1.7	130	6.2	.2	15	463	.63	
JUL 22...	48	170	54	4.9	3.1	290	14	.4	13	756	1.0	
AUG 19...	48	190	57	5.5	3.4	310	16	.4	13	764	1.0	
DATE	TIME	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	
JUN 30...	6.9	<.060	--	.30	.00	.30	<.10	.060	.18	.060		
JUL 22...	6.9	.080	1.1	1.20	.80	.40	.10	.080	.25	.030		
AUG 19...	3.7	.100	.70	.80	.00	.80	.29	.060	.18	.040		
DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	
JUN 30...	1130	1	0	1	--	--	--	<10	<1	60	<1	
JUL 22...	1200	--	--	--	--	--	--	--	--	140	--	
AUG 19...	1200	1	0	1	<1	<100	48	<10	1	150	<1	
DATE	TIME	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	
JUN 30...	<1	--	<10	<10	--	--	4	2	2	--		
JUL 22...	--	--	--	--	--	--	--	--	--	--		
AUG 19...	<1	1	20	<10	4	10	2	1	1	6		

GREEN RIVER BASIN

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09314340 GRASSY TRAIL CREEK AT SUNNYSIDE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM SUS- PENDED RECOV- ERABLE (UG/L AS LI)	LITHIUM DIS- SOLVED (UG/L AS LI)
JUN 30...	230	<3	--	1	0	1	--	--	--	--
JUL 22...	160	<3	--	--	--	--	--	--	--	--
AUG 19...	380	<3	2600	7	--	<1	20	20	0	27

DATE	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED TOM MA- TERIAL (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)
JUN 30...	30	30	2	--	.1	<.1	--	7	<1	1
JUL 22...	20	20	2	--	--	--	--	--	--	--
AUG 19...	20	20	2	380	<.1	<.1	<.01	<1	<1	1

DATE	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SELE- NIUM, IN BOT- TOM MA- TERIAL (UG/G)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR)	STRON- TIUM, SUS- PENDED RECOV. (UG/L AS SR)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
JUN 30...	--	<1	--	--	--	--	40	20	24	--
JUL 22...	--	--	--	--	--	--	--	--	--	--
AUG 19...	0	1	<1	360	0	390	10	6	4	30

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)
JUN 30...	1130	5.0	.4	--	--
JUL 22...	1200	2.4	.2	--	4
AUG 19...	1200	2.9	.3	<.01	4

GREEN RIVER BASIN

09314340 GRASSY TRAIL CREEK AT SUNNYSIDE, UT--Continued

BENTHIC-INVERTEBRATE ANALYSES, OCTOBER 1981 TO AUGUST 1982

DATE TIME	JUL 22,82 1200	AUG 19,82 1200
TOTAL COUNT	33	43
DIVERSITY: PHYLUM	0.0	0.0
.CLASS	0.0	0.2
..ORDER	1.5	0.9
...FAMILY	0.0	0.0
....GENUS	0.0	0.0
....GENUS-INSECTA	0.0	0.0

ORGANISM	COUNT	COUNT
ARTHROPODA (ARTHROPODS)		
.ARACHNIDA	--	1
..ACARINA		
.INSECTA		
..COLEOPTERA		
...DYTISCIDAE	7	1
..DIPTERA		
...CHIRONOMIDAE	11	6
...SIMULIIDAE	1	--
...TIPULIDAE	2	--
..EPHEMEROPTERA	12	35

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	COAL IN BOTTOM MATE- RIAL (GM/KG)
AUG 19...	1200	1.8	17.0	12.0

09314500 PRICE RIVER AT WOODSIDE, UTAH

LOCATION.--Lat 39°15'50", long 110°20'45", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ 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 mi² (3,989 km²).

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 fair. Diversions above station for irrigation of about 18,000 acres (72.8 km²). Flow affected by storage in Scofield Reservoir, usable capacity, 65,780 acre-ft (81.1 hm³), since 1926 (see station 09311000).

AVERAGE DISCHARGE.--36 years, 105 ft³/s (2.974 m³/s), 76,070 acre-ft/yr (93.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,720 ft³/s (275 m³/s) Sept. 11, 1980, gage height, 11.16 ft (3.402 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s); no flow for several days in 1960, 1961, and part of July 8, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 2,000 ft³/s (56.6 m³/s), 6,690 ft³/s (189 m³/s) Oct. 5, gage height, 12.03 ft (3.667 m); minimum daily, 20 ft³/s (0.566 m³/s) Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	68	28	26	30	169	91	467	900	147	122	117
2	399	65	28	25	30	148	91	508	849	140	105	95
3	229	75	29	30	30	188	85	604	853	124	148	84
4	938	69	30	30	30	142	85	709	783	105	117	75
5	946	64	30	30	26	107	95	706	728	106	86	235
6	132	66	30	25	20	90	98	702	706	107	86	297
7	84	74	30	28	22	81	89	648	652	101	82	183
8	78	72	30	30	26	79	79	594	600	90	75	141
9	71	72	30	30	30	76	84	561	542	84	97	127
10	65	70	30	30	30	70	82	527	506	90	103	114
11	274	65	30	30	30	70	82	561	476	85	108	106
12	450	65	30	30	30	81	92	496	445	73	96	120
13	209	68	30	30	31	83	142	445	426	65	101	119
14	154	70	30	30	35	82	231	405	410	63	89	138
15	109	65	30	30	45	99	239	372	397	53	96	157
16	1050	62	28	30	41	137	228	354	407	48	100	160
17	420	64	26	30	39	113	193	357	387	47	70	148
18	202	61	24	30	41	108	182	379	350	45	60	133
19	145	61	26	30	44	96	200	415	357	51	50	119
20	114	58	29	30	50	89	199	467	340	48	80	333
21	106	53	30	30	70	86	183	453	326	48	110	197
22	95	55	30	30	100	82	172	418	320	58	140	146
23	92	63	30	30	150	78	178	407	311	59	90	157
24	83	68	30	30	130	75	202	437	280	64	110	134
25	81	66	30	30	120	80	243	502	261	66	80	118
26	75	65	30	30	150	86	293	621	241	73	140	128
27	71	53	30	30	178	101	306	709	224	128	178	326
28	68	40	30	30	167	105	329	812	204	167	164	464
29	70	35	33	30	---	105	374	922	180	136	226	387
30	68	28	35	30	---	114	418	954	162	247	237	357
31	70	---	30	30	---	101	---	954	---	166	157	---
TOTAL	6989	1860	916	914	1725	3121	5365	17466	13623	2884	3503	5415
MEAN	225	62.0	29.5	29.5	61.6	101	179	563	454	93.0	113	181
MAX	1050	75	35	30	178	188	418	954	900	247	237	464
MIN	41	28	24	25	20	70	79	354	162	45	50	75
AC-FT	13860	3690	1820	1810	3420	6190	10640	34640	27020	5720	6950	10740
CAL YR 1981	TOTAL	29215	MEAN	80.0	MAX	1050	MIN	18	AC-FT	57950		
WTR YR 1982	TOTAL	63781	MEAN	175	MAX	1050	MIN	20	AC-FT	126500		

GREEN RIVER BASIN

09314500 PRICE RIVER AT WOODSIDE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1946 to September 1949, February 1951 to current year.

SPECIFIC CONDUCTANCE: February 1951 to September 30, 1978, once daily (discontinued).

WATER TEMPERATURES: February 1951 to September 1959, November 1961 to September 1963, October 1964 to Sept. 30, 1978, once daily (discontinued).

SEDIMENT DATA: October 1975 to current year, periodically.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

		STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	
DATE	TIME										
OCT 26...	1140	67	3520	8.0	14.0	8.5	10.6	--	1200	890	
NOV 25...	1020	55	4080	8.0	4.0	1.5	10.8	637	1500	1200	
JAN 04...	1130	33	4020	8.2	-7.5	.0	12.3	649	1400	1000	
FEB 25...	1100	125	3000	8.3	8.5	.0	11.4	649	890	640	
MAR 26...	1015	88	3340	8.3	8.0	8.0	9.5	641	1200	890	
APR 23...	1030	176	1730	8.3	16.5	9.0	9.7	649	590	300	
MAY 20...	1100	486	1170	8.3	18.5	11.5	8.7	648	420	160	
JUN 29...	1030	192	1620	8.3	31.0	19.5	7.5	643	550	320	
JUL 20...	1100	48	2890	8.3	31.5	23.5	7.1	647	930	720	
AUG 26...	1230	143	2650	8.3	27.5	21.0	6.8	645	950	760	
SEP 23...	1330	144	2370	8.3	28.5	19.0	7.4	646	790	560	
		CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
DATE											
OCT 26...	200	160	430	44	5.5	7.7	270	1700	65	.3	
NOV 25...	240	210	520	43	5.9	8.3	230	2100	90	.3	
JAN 04...	240	190	530	45	6.2	7.7	350	2100	73	.3	
FEB 25...	160	120	410	50	6.0	6.5	250	1400	56	.4	
MAR 26...	180	170	430	45	5.5	6.2	260	1700	65	.3	
APR 23...	108	77	170	39	3.4	3.6	290	620	37	.3	
MAY 20...	82	53	97	33	2.3	2.9	261	360	16	.3	
JUN 29...	110	68	170	40	3.5	4.5	232	660	24	.3	
JUL 20...	160	130	360	45	5.1	7.6	213	1400	59	.3	
AUG 26...	200	110	330	43	4.7	8.2	194	1400	39	.4	
SEP 23...	150	100	280	43	4.3	6.6	231	1000	37	.3	

GREEN RIVER BASIN

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09314500 PRICE RIVER AT WOODSIDE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT 26...	9.5	--	2740	3.7	496	.120	--	--	.51
NOV 25...	<1.9	--	--	--	--	.130	--	--	.46
JAN 04...	7.1	--	3370	4.6	297	.760	--	--	.44
FEB 25...	5.6	2510	2310	3.4	847	.540	.700	.90	1.1
MAR 26...	5.0	2880	2720	3.9	687	.060	.080	.10	.79
APR 23...	13	1300	1210	1.8	618	.140	.170	.22	2.8
MAY 20...	13	830	783	1.1	1090	.230	.070	.09	1.7
JUN 29...	6.5	1240	1180	1.7	643	.060	.070	.09	1.5
JUL 20...	1.5	2420	2250	3.3	314	.070	.080	.10	1.6
AUG 26...	7.1	2280	2210	3.1	880	.190	<.060	.08	31
SEP 23...	7.1	1950	1720	2.7	758	.300	.110	.14	3.1

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
OCT 26...	.63	1.5	.89	.95	6.7	.110	.34	--	--
NOV 25...	.59	1.0	.41	.43	4.4	.020	.06	--	--
JAN 04...	1.20	2.5	1.3	1.4	11	.110	.34	--	--
FEB 25...	1.60	2.7	1.1	1.1	12	.470	1.4	.070	.21
MAR 26...	.85	1.3	.43	.44	5.7	.070	.21	.040	.12
APR 23...	2.90	3.8	.86	.72	17	1.50	4.6	.060	.18
MAY 20...	1.90	2.4	.50	.50	11	2.60	8.0	.030	.09
JUN 29...	1.60	2.0	.36	.36	8.7	.290	.89	.020	.06
JUL 20...	1.70	--	<.10	<.10	--	.850	2.6	.010	.03
AUG 26...	31.0	32	.80	.56	140	6.90	21	.020	.06
SEP 23...	3.40	4.1	.70	.72	18	1.60	4.9	.050	.15

DATE	TIME	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
JUN 29...	1030	6900	3	<10	<1	20	13	9600
SEP 23...	1330	13000	5	<10	<1	10	35	24000

GREEN RIVER BASIN

09314500 PRICE RIVER AT WOODSIDE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
JUN 29...	9	120	240	.1	3	19	2	60
SEP 23...	7	210	820	2.1	3	35	5	140

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT 26...	1140	340
NOV 25...	1020	380
JAN 04...	1130	370
FEB 25...	1100	230
MAR 26...	1015	280
APR 23...	1030	160
MAY 20...	1100	110
JUN 29...	1030	160
JUL 20...	1100	320
AUG 26...	1230	430
SEP 23...	1330	250

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
MAR 26...	1015	6.2	.5
JUN 29...	1030	6.7	2.8

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT 26...	1140	67	8.5	855	155
NOV 25...	1020	55	1.5	589	87
FEB 25...	1100	125	.0	1120	378
MAR 26...	1015	88	8.0	674	161
APR 23...	1030	176	9.0	2300	1090
MAY 20...	1100	486	11.5	2670	3500
JUN 29...	1030	192	19.5	943	489
JUL 20...	1100	48	23.5	158	20
AUG 26...	1230	143	21.0	23800	9190
SEP 23...	1330	144	19.0	2700	1050

09315000 GREEN RIVER AT GREEN RIVER, UTAH

LOCATION.--Lat 38°59'10", long 110°09'02", in NW¼NW¼SW¼ sec.15, T.21 S., R.16 E., Emery County, Hydrologic Unit 14060008, on right bank 100 ft (30 m) upstream from site of old highway bridge, 500 ft (152 m) upstream from railroad bridge, 1.1 mi (1.8 km) southeast of town of Green River, 22.5 mi (36.2 km) upstream from San Rafael River, at mile 117.4 (188.9 km) upstream from mouth.

DRAINAGE AREA.--44,850 mi² (116,220 km²) approximately, of which about 4,260 mi² (11,000 km²), including 3,959 mi² (10,254 km²) in Great Divide Basin in southern Wyoming, which is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1894 to October 1899, October 1904 to current year. Published as "at Blake" 1894-99, as "near Elgin" 1911, and as "at Little Valley, near Green River" 1910-23.

REVISED RECORDS.--WSP 918: 1895-1900. WDR UT-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,040.18 ft (1,231.447 m) NGVD of 1929. Prior to Nov. 6, 1914, staff, wire-weight, or chain gages at several sites within 7 mi (11 km) of present site at various datums. Nov. 6, 1914 to June 20, 1924, water-stage recorder at site 7 mi (11 km) downstream at different datum. June 21 to Sept. 18, 1924, chain gage, and Sept. 19, 1924 to May 7, 1947, water-stage recorder, at site 100 ft (30 m) downstream at present datum.

REMARKS.--Records good except for winter period, which are fair. Diversions for irrigation above station. Flow regulated by Flaming Gorge Reservoir (see station 09234400) since Nov. 1, 1962.

AVERAGE DISCHARGE.--83 years, 6,258 ft³/s (177.2 m³/s) 4,534,000 acre-ft/yr (5.59 km³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,100 ft³/s (1,930 m³/s) June 27, 1917, gage height, 14.53 ft (4.429 m), site and datum then in use; minimum, 255 ft³/s (7.22 m³/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 ft³/s (481 m³/s) and maximum(*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 8	1615	*20,800	589	10.64	3.243
May 31	1945	19,000	538	10.28	3.133

Minimum, 1,000 ft³/s (28.3 m³/s) Dec. 31 (result of discharge measurement).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2530	2530	2580	1420	2500	7400	3260	10700	18500	14100	5350	3540
2	2100	2590	2400	1610	2500	6830	3420	11300	17500	13700	4890	4190
3	3180	2610	2330	1900	2600	5550	3790	12100	16800	14300	5050	4170
4	2700	2730	2140	2000	2600	5230	4430	11900	15600	13800	4690	4080
5	4660	2610	2140	2160	2500	5260	4150	12500	15200	13000	4710	4380
6	3390	2580	2660	1990	2500	5020	3730	14800	14700	12400	4080	4870
7	4240	3090	2930	1750	2400	4720	3490	17300	14200	11200	4250	4500
8	3510	2890	2960	1830	2300	4780	3320	19900	13700	10300	3830	4340
9	2870	2610	3000	1750	2600	4990	3350	18100	13600	9620	3610	3440
10	3110	2730	2910	1720	2700	4600	3910	14600	14700	9110	3490	3220
11	4190	3130	2630	2000	2800	3880	4290	13200	14100	8590	3500	3070
12	4450	2600	2870	1900	2500	3580	5490	12400	14300	7840	3590	3190
13	5490	2390	2930	1900	2400	3640	5540	12800	14300	7640	3440	4210
14	5940	2550	2750	2200	2300	3880	5470	13100	14600	7210	3930	4880
15	4930	3010	2620	2100	2800	4140	5140	12500	14600	6840	3960	4960
16	5140	3190	2760	2000	3100	4120	4900	12200	14600	6640	4100	4770
17	4770	3160	2890	2300	3300	4360	6060	12100	14600	6480	4000	4690
18	4990	2570	2760	2200	3400	4390	7440	11200	14900	6200	3520	4770
19	4800	2480	3110	2900	3640	4360	8370	9920	15300	5970	3580	4850
20	4320	2500	3090	3000	3790	4540	8800	10100	15600	5930	3690	5080
21	4060	2710	3150	2900	4740	4720	8400	11400	15500	5230	3450	5070
22	3510	2560	3300	2800	5200	4680	8260	11500	16300	4770	3530	4720
23	3250	2480	3140	2700	5170	4390	8220	12300	15900	4650	3350	4220
24	3020	2900	3350	2700	5460	4120	7840	13400	15300	4840	3200	4210
25	2890	2980	2680	2900	6590	3960	7350	13100	15600	4710	3090	3800
26	2840	2780	3020	3000	8110	3670	7060	13400	14800	4650	2940	3450
27	3130	2610	2570	2900	9020	3520	7500	15600	14800	4750	2990	4320
28	3050	2920	2140	2900	8150	3160	7730	17600	14300	4580	3070	4980
29	2640	2840	1680	2500	---	3070	8900	17500	14300	4550	2650	6710
30	2480	2650	1330	2400	---	3190	10600	17600	14400	4560	3100	7860
31	2790	---	1280	2500	---	3220	---	18400	---	5010	3500	---
TOTAL	114970	81980	82100	70830	107670	136970	180210	424520	452600	243170	116130	134540
MEAN	3709	2733	2648	2285	3845	4418	6007	13690	15090	7844	3746	4485
MAX	5940	3190	3350	3000	9020	7400	10600	19900	18500	14300	5350	7860
MIN	2100	2390	1280	1420	2300	3070	3260	9920	13600	4550	2650	3070
AC-FT	228000	162600	162800	140500	213600	271700	357400	842000	897700	482300	230300	266900
CAL YR 1981	TOTAL	1260630	MEAN	3454	MAX	12000	MIN	1280	AC-FT	2500000		
WTR YR 1982	TOTAL	2145690	MEAN	5879	MAX	19900	MIN	1280	AC-FT	4256000		

GREEN RIVER BASIN

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

LOCATION.--Daily samples collected at bridge on U.S. Highways 50 and 6, in town of Green River, 0.7 mi (1.1 km) from gaging station.

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1941 to September 1981, March to September 1982.

WATER TEMPERATURES: May 1949 to September 1959, October 1964 to September 1981, March to September 1982.

SUSPENDED-SEDIMENT DISCHARGE: May 1930 to current year.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 3,250 micromhos Dec. 1, 1967; minimum daily, 255 micromhos June 30, 1978.

WATER TEMPERATURES: Maximum, 30.0°C Aug. 13, 1958; minimum, 0.0°C on many days during winter period each year.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 66,000 mg/L July 11, 1936; minimum daily, 19 mg/L Sept. 30, 1974.

SEDIMENT LOADS: Maximum daily, 2,230,000 tons (2,023,000 tonnes) July 11, 1936; minimum daily, 54 tons (49 tonnes) Sept. 27, 1956.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum observed, 1,060 micromhos Dec. 31; minimum observed, 290 micromhos June 25.

WATER TEMPERATURES: Maximum, 27.5°C July 24; minimum observed, 0.0°C Dec. 31.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 16,700 mg/L Oct. 5; minimum daily mean, 134 mg/L Dec. 15.

SEDIMENT LOADS: Maximum daily, 236,000 tons (214,000 tonnes) May 8; minimum daily, 532 tons (483 tonnes) Dec. 31.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT										
27...	1000	3040	970	8.2	12.5	8.5	820	9.6	--	--
DEC										
31...	1030	1000	1060	8.0	.5	.0	28	12.4	658	K6
FEB										
24...	1230	5470	840	8.2	7.5	1.5	170	11.7	662	--
APR										
22...	0930	8180	680	8.2	18.0	9.0	720	9.4	666	--
JUN										
25...	1100	15300	290	8.0	30.5	19.5	75	7.8	659	K28
AUG										
24...	1100	3370	560	8.4	30.5	24.5	830	6.7	660	--

DATE	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT									
27...	--	290	110	70	29	100	42	2.8	2.6
DEC									
31...	80	370	190	82	40	98	36	2.4	2.7
FEB									
24...	--	270	110	62	28	73	37	2.1	2.4
APR									
22...	--	250	100	58	26	53	31	1.6	2.0
JUN									
25...	120	110	24	29	10	19	27	.8	.6
AUG									
24...	--	250	100	60	24	71	38	2.1	3.3

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

GREEN RIVER BASIN

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09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	
OCT 27...	180	290	37	.4	7.3	674	645	.92	5530	
DEC 31...	180	320	30	.3	6.8	749	688	1.0	2020	
FEB 24...	160	230	15	.3	6.7	546	514	.74	8060	
APR 22...	150	200	15	.3	8.1	466	452	.63	10300	
JUN 25...	90	60	6.2	.2	8.6	196	196	.27	8100	
AUG 24...	148	230	23	1.8	7.2	536	510	.73	4880	
	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	
OCT 27...	.32	.110	.14	.68	.560	1.7	.010	.030	.09	
DEC 31...	.22	.150	.19	.50	.030	.09	.020	<.010	--	
FEB 24...	.26	.180	.23	.84	.040	--	--	.010	.03	
APR 22...	.58	.180	.23	2.90	.930	2.9	.020	.020	.06	
JUN 25...	<.10	.080	.10	1.70	.140	.43	.080	.010	.03	
AUG 24...	<.10	<.060	.08	13.0	.930	2.9	.050	.020	.06	
	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDED RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	
OCT 27...	1000	6	3	3	400	0	440	<1	<1	50
FEB 24...	1230	4	2	2	200	100	88	1	<1	20
APR 22...	0930	11	10	1	500	400	140	<1	<3	40
AUG 24...	1100	8	6	2	200	20	180	<1	<1	20
	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 27...	--	<10	11	<3	43	25	18	31000	31000	20
FEB 24...	10	10	4	<3	29	28	1	10000	10000	15
APR 22...	--	<10	9	<1	40	39	1	29000	29000	18
AUG 24...	--	<10	8	<1	37	35	2	18000	18000	

GREEN RIVER BASIN

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE 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- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
OCT 27...	20	16	4	600	600	2	.1	--	<.1	28
FEB 24...	8	--	<1	210	200	6	<.1	--	<.1	13
APR 22...	13	--	<1	840	--	<3	.2	.1	.1	26
AUG 24...	20	16	4	560	--	<1	.2	.1	.1	37

DATE	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 27...	25	3	2	0	2	<1	<1	120	0	370
FEB 24...	11	2	1	0	1	<1	<1	70	3	67
APR 22...	--	<1	6	4	2	<1	<1	150	0	160
AUG 24...	36	1	2	0	3	<1	<1	80	0	110

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 AS U)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)
APR 22...	0930	<14	97	<5.7	63	<5.5	61	.12	3.3	66
AUG 24...	1100	<13	120	6.4	71	6.2	69	.12	4.7	82

DATE	TIME	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 27...	1000	0	.0	.0	.0	.1	.0

DATE	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 27...	.0	.0	.0	.0	.1	.0

GREEN RIVER BASIN

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---		---		---	---	960	580	375	---	---	860
2	---		---		---	---	960	570	355	310	720	880
3	---		---		---	---	970	---	370	350	730	---
4	---		---		---	---	---	580	375	---	700	---
5	---		---		---	860	940	---	355	345	650	870
6	---		---		---	890	---	460	375	355	---	910
7	---		---		---	980	960	440	370	350	700	910
8	---		---		---	960	950	415	365	340	700	890
9	---		---		---	---	940	420	390	380	720	890
10	---		---		---	---	940	400	360	---	---	---
11	---		---		---	930	920	---	390	390	810	---
12	---		---		---	940	910	420	380	405	750	960
13	---		---		---	980	890	420	380	420	---	970
14	---		---		---	960	950	405	---	450	820	---
15	---		---		---	950	---	400	380	470	720	920
16	---		---		---	---	860	400	375	445	1020	940
17	---		---		---	950	860	---	360	500	880	---
18	---		---		---	940	840	---	---	500	900	970
19	---		---		---	940	860	480	---	---	860	930
20	---		---		---	950	810	480	360	510	800	890
21	---		---		---	---	760	470	360	---	---	890
22	---		---		---	940	690	510	330	530	840	890
23	---		---		---	950	---	495	340	520	---	900
24	---		---		840	940	680	455	340	530	560	890
25	---		---		---	960	670	435	290	510	880	890
26	---		---		---	970	---	435	345	---	840	960
27	970		---		---	970	680	---	---	640	880	---
28	---		---		---	1000	680	380	340	720	920	970
29	---		---		---	---	680	360	335	---	910	890
30	---		---		---	990	600	360	340	730	940	810
31	---		1060		---	1000	---	355	---	780	930	---
MEAN	---		---		---	---	---	445	359	---	807	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---		---		---	---	9.0	15.0	14.0	---	---	23.0
2	---		---		---	---	7.0	15.0	14.0	20.0	23.0	23.5
3	---		---		---	---	8.5	---	15.0	20.0	23.0	---
4	---		---		---	---	---	15.0	16.0	---	24.0	---
5	---		---		---	3.0	9.0	---	16.0	20.0	25.0	23.5
6	---		---		---	4.0	---	13.0	17.0	20.0	---	21.0
7	---		---		---	5.0	7.0	13.0	17.0	20.0	25.0	21.0
8	---		---		---	5.0	7.0	11.0	16.0	20.0	25.0	22.5
9	---		---		---	---	7.0	10.5	16.0	23.0	25.0	24.0
10	---		---		---	---	9.0	11.0	16.0	---	---	---
11	---		---		---	6.0	9.5	---	17.0	23.0	24.0	---
12	---		---		---	8.5	10.5	11.0	18.0	23.0	24.0	18.0
13	---		---		---	8.0	12.0	12.0	17.0	24.5	---	18.0
14	---		---		---	8.5	13.0	12.0	---	24.0	25.0	---
15	---		---		---	7.5	---	12.0	18.0	23.0	22.0	17.0
16	---		---		---	---	10.0	13.0	19.5	24.0	22.0	17.5
17	---		---		---	7.0	12.0	---	19.0	25.0	27.0	---
18	---		---		---	7.0	11.0	---	---	25.0	25.0	18.0
19	---		---		---	6.0	8.0	15.0	---	---	25.0	19.0
20	---		---		---	6.0	7.0	15.0	20.0	25.0	26.0	19.0
21	---		---		---	---	8.0	15.0	20.0	---	---	20.0
22	---		---		---	7.0	8.0	17.0	20.5	26.0	26.0	21.0
23	---		---		---	7.0	---	16.0	20.5	26.0	---	20.0
24	---		---		1.5	8.0	11.0	16.0	20.5	27.5	24.5	20.0
25	---		---		---	9.0	11.0	17.0	19.5	26.0	23.0	20.0
26	---		---		---	9.0	---	17.0	20.5	---	24.0	20.0
27	8.5		---		---	8.5	13.0	---	---	26.0	24.0	---
28	---		---		---	10.0	14.0	15.0	20.5	26.0	24.0	16.0
29	---		---		---	---	14.0	14.0	20.5	---	24.0	14.0
30	---		---		---	9.5	15.0	13.5	20.0	26.0	24.0	13.0
31	---		.0		---	9.0	---	15.0	---	25.0	24.0	---
MEAN	---		---		---	---	---	14.0	18.0	---	24.5	---

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)		MEAN CONCEN- TRATION (MG/L)	
	LOADS (T/DAY)	LOADS (T/DAY)	LOADS (T/DAY)	LOADS (T/DAY)	LOADS (T/DAY)	LOADS (T/DAY)	LOADS (T/DAY)	LOADS (T/DAY)	LOADS (T/DAY)	LOADS (T/DAY)	LOADS (T/DAY)	
OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	290	1980	470	3210	214	1490	147	564	420	2840	1950	39000
2	690	3910	420	2940	187	1210	145	630	365	2460	1820	33600
3	2380	20400	375	2640	231	1450	187	959	350	2460	1520	22800
4	1800	13100	360	2650	265	1530	218	1180	305	2140	1370	19300
5	16700	210000	360	2540	258	1490	226	1320	250	1690	1710	24300
6	5700	52200	375	2610	259	1860	221	1190	545	3680	2160	29300
7	6750	77300	455	3800	278	2200	215	1020	975	6320	2130	27100
8	8250	78200	440	3430	285	2280	280	1380	1080	6710	1680	21700
9	7500	58100	380	2680	244	1980	230	1090	990	6950	1330	17900
10	4900	41100	335	2470	216	1700	250	1160	670	4880	1130	14000
11	6000	67900	295	2490	188	1330	440	2380	540	4080	870	9110
12	3650	43900	270	1900	158	1220	445	2280	475	3210	700	6770
13	6600	97800	260	1680	156	1230	340	1740	420	2720	595	5850
14	14300	229000	250	1720	163	1210	325	1930	515	3200	600	6290
15	9400	125000	300	2440	134	948	345	1960	585	4420	525	5870
16	10000	139000	320	2760	141	1050	350	1890	640	5360	550	6120
17	6550	84400	335	2860	158	1230	675	4190	715	6370	635	7480
18	3650	49200	280	1940	163	1210	1000	5940	750	6880	770	9130
19	3550	46000	245	1640	206	1730	845	6620	650	6390	780	9180
20	3000	35000	230	1550	207	1730	550	4450	625	6400	605	7420
21	2400	26300	225	1650	219	1860	425	3330	845	10800	550	7010
22	2250	21300	205	1420	224	2000	375	2840	950	13300	570	7200
23	1900	16700	194	1300	200	1700	370	2700	675	9420	515	6100
24	2050	16700	219	1710	207	1870	345	2520	1120	16500	450	5010
25	2950	23000	200	1610	182	1320	445	3480	1970	35100	410	4380
26	2800	21500	213	1600	193	1570	465	3770	2670	58500	360	3570
27	1700	14400	193	1360	225	1560	400	3130	2690	65500	365	3470
28	850	7000	187	1470	247	1430	365	2860	2220	48900	325	2770
29	780	5560	191	1460	182	826	350	2360	---	---	330	2740
30	650	4350	211	1510	153	549	365	2370	---	---	310	2670
31	545	4110	---	---	154	532	470	3170	---	---	345	3000
TOTAL	---	1634410	---	65040	---	45295	---	76403	---	347180	---	370140
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	505	4450	2760	79700	2030	101000	960	36500	3500	50600	1420	13600
2	310	2860	2660	81200	1840	86900	825	30500	1150	15200	1700	19200
3	350	3580	2800	91500	1560	70800	875	33800	3210	43800	1690	19000
4	480	5740	3130	101000	1420	59800	825	30700	2130	27000	1650	18200
5	470	5270	3270	110000	1460	59900	785	27600	1240	15800	1820	21500
6	345	3470	3680	147000	1460	57900	765	25600	630	6940	3380	44400
7	290	2730	4070	190000	1380	52900	680	20600	1090	12500	2500	30400
8	300	2690	4400	236000	1300	48100	740	20600	1040	10800	2420	28400
9	300	2710	3990	195000	1330	48800	775	20100	700	6820	2100	19500
10	300	3170	2770	109000	1320	52400	700	17200	610	5750	1910	16600
11	375	4340	1880	67000	1200	45700	575	13300	1160	11000	2420	20100
12	660	9780	1730	57900	1130	43600	520	11000	1050	10200	2200	18900
13	690	10300	1790	61900	1320	51000	435	8970	1540	14300	2710	30800
14	750	11100	1680	59400	1330	52400	455	8860	4300	45600	3210	42300
15	775	10800	1470	49600	1180	46500	535	9880	3290	35200	3280	43900
16	770	10200	1420	46800	980	38600	550	9860	2960	32800	2490	32100
17	1120	18300	1490	48700	935	36900	525	9190	6100	65900	2170	27500
18	1670	33500	1500	45400	965	38800	425	7110	3880	36900	2100	27000
19	2160	48800	1210	32400	1030	42500	315	5080	1790	17300	1570	20600
20	2230	53000	1120	30500	1020	43000	320	5120	1130	11300	1560	21400
21	1960	44500	1290	39700	1100	46000	260	3670	780	7270	1900	26000
22	1790	39900	1120	34800	1090	48000	285	3670	1010	9630	1050	13400
23	1540	34200	1190	39500	1080	46400	275	3450	990	8950	1050	12000
24	1420	30100	1450	52500	1140	47100	260	3400	1150	9940	1550	17600
25	1200	23800	1390	49200	1000	42100	225	2860	1500	12500	1440	14800
26	1090	20800	1850	66900	820	32800	215	2700	1480	11700	1300	12100
27	1200	24300	2040	85900	820	32800	330	4230	1010	8150	3150	36700
28	1210	25300	2270	108000	825	31900	415	5130	1300	10800	3240	43600
29	1530	36800	2250	106000	875	33800	560	6880	1060	7580	4250	77000
30	2420	69300	2160	103000	955	37100	1270	15600	1320	11000	5020	107000
31	---	---	2130	106000	---	---	2760	37300	1400	13200	---	---
TOTAL	---	595790	---	2631500	---	1475500	---	440460	---	586430	---	875600
TOTAL LOAD FOR YEAR:			9143748 TONS.									

GREEN RIVER BASIN

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09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT						
27...	1000	3040	8.5	1550	100	12700
27...	1300	3070	8.5	1490	--	12400
FEB						
24...	1230	5470	1.5	623	93	9200
24...	1400	5470	1.5	937	--	13800
APR						
22...	0930	8180	9.0	1760	86	38900
22...	1230	8180	9.0	1760	--	38900
MAY						
26...	1245	13600	19.0	2025	--	74400
JUN						
25...	1100	15300	19.5	704	80	29100
25...	1245	15300	19.5	1160	--	47900
AUG						
03...	1000	5260	23.5	4100	--	58200

GREEN RIVER BASIN

09317919 CRANDALL CANYON AT MOUTH, NEAR HUNTINGTON, UTAH

LOCATION.--Lat 39°27'48", long 111°08'54", in NW¼SE¼NW¼ 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 mi² (14.8 km²).

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 fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 28 ft³/s (0.793 m³/s) May 31, 1980; minimum, 0.24 ft³/s (0.007 m³/s) Mar. 10, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16 ft³/s (0.45 m³/s) May 4, gage height, 2.45 ft (0.747 m); minimum, 0.84 ft³/s (0.02 m³/s) Sept. 4, (may have been lower during period of non-operation).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	7.0	11	8.6	2.6	1.1
2							---	8.0	12	8.7	2.6	1.1
3							---	9.0	12	8.4	2.5	1.0
4							---	10	11	8.3	2.4	1.1
5							---	9.0	12	8.1	2.2	1.0
6							---	8.0	11	7.8	2.0	1.1
7							---	7.0	11	7.6	2.0	1.1
8							---	8.8	11	8.0	2.4	1.0
9							---	8.0	11	7.9	2.2	1.0
10							---	6.9	12	7.5	1.9	1.1
11							---	6.6	13	6.7	1.9	.97
12							---	6.0	13	6.5	1.9	.97
13							1.6	8.3	13	6.3	2.0	1.2
14							2.0	6.0	12	5.9	1.8	1.1
15							1.8	6.5	11	5.8	1.8	1.1
16							1.4	7.0	12	5.1	1.7	1.0
17							1.7	8.6	12	4.8	1.7	1.0
18							1.3	8.0	12	4.5	1.5	.98
19							1.5	7.0	13	4.5	1.6	1.0
20							1.4	8.0	11	4.2	1.5	1.0
21							1.3	8.4	13	3.8	1.9	1.0
22							1.4	9.0	12	3.6	1.8	1.1
23							1.5	10	12	3.9	1.6	1.0
24							1.7	11	10	3.8	1.4	1.0
25							2.0	12	10	3.4	1.4	1.0
26							2.6	14	11	3.8	1.4	1.2
27							3.5	13	11	4.9	1.3	1.3
28							5.4	12	11	3.8	1.3	1.4
29							7.0	12	11	3.3	1.5	1.6
30							6.1	12	11	3.0	1.3	2.0
31							---	11	---	2.8	1.2	---
TOTAL							---	278.1	348	175.3	56.3	33.52
MEAN							---	8.97	11.6	5.65	1.82	1.12
MAX							---	14	13	8.7	2.6	2.0
MIN							---	6.0	10	2.8	1.2	.97
AC-FT							---	552	690	348	112	66

NOTE.--No gage-height record Apr. 13 to July 8.

09317919 CRANDALL CANYON AT MOUTH, NEAR HUNTINGTON, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to current year.

SEDIMENT DATA: November 1978 to September 1981, periodically (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
JUL 01...	0900	8.8	420	8.3	13.5	6.5	9.1	582	.90	230	59
23...	0900	3.5	420	8.3	15.5	10.0	8.5	587	--	240	55
AUG 18...	1530	1.6	440	8.1	25.0	16.5	7.1	585	--	250	52
DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
JUL 01...	21	4.2	4	.1	.9	21	3.4	.1	4.8	229	.31
23...	26	4.4	4	.1	1.1	29	4.1	.1	5.3	247	.34
AUG 18...	28	5.2	4	.1	1.3	30	6.0	.1	5.9	262	.36
DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	
JUL 01...	5.4	.060	1.2	1.30	.50	.80	.10	.070	.21	.060	
23...	2.3	.090	1.0	1.10	.80	.30	<.10	.100	.31	.050	
AUG 18...	1.1	.070	.53	.60	.00	.60	<.10	.060	.18	.030	
DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	
JUL 01...	0900	<1	<1	--	--	--	<10	<1	10	<1	
23...	0900	--	--	--	--	--	--	--	<10	--	
AUG 18...	1530	<1	<1	<1	<100	57	<10	1	20	<1	
DATE	TIME	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	
JUL 01...		<1	--	10	<10	--	1	--	<1	--	
23...		--	--	--	--	--	--	--	--	--	
AUG 18...		<1	1	10	<10	3	<10	2	1	7	
DATE	TIME	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM SUS- PENDE RECOV- ERABLE (UG/L AS LI)	LITHIUM DIS- SOLVED (UG/L AS LI)
JUL 01...		120	--	<3	--	3	<1	--	--	--	--
23...		120	--	<3	--	--	--	--	--	--	--
AUG 18...		590	590	4	900	5	<1	10	10	0	14

GREEN RIVER BASIN

09317919 CRANDALL CANYON AT MOUTH, NEAR HUNTINGTON, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	MANGA-NESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, FM BOT-TOM MA-TERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MERCURY RECOVER. FM BOT-TOM MA-TERIAL (UG/G AS HG)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)
JUL 01...	20	20	2	--	.1	<.1	--	2	<1	1
23...	20	20	3	--	--	--	--	--	--	--
AUG 18...	30	20	6	160	<.1	<.1	<.01	2	<1	<1

DATE	SELENIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELENIUM, DIS-SOLVED (UG/L AS SE)	SELENIUM, IN BOT-TOM MA-TERIAL (UG/G)	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR)	STRONTIUM, SUS-PENDED RECOV. (UG/L AS SR)	STRONTIUM, DIS-SOLVED (UG/L AS SR)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOVERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, FM BOT-TOM MA-TERIAL (UG/G AS ZN)
JUL 01...	0	1	--	--	--	--	10	6	4	--
23...	--	--	--	--	--	--	--	--	--	--
AUG 18...	--	<1	<1	180	0	180	110	30	82	6

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)
JUL 01...	0900	3.1	.3	--	--
23...	0900	3.2	.2	--	25
AUG 18...	1530	3.1	.5	<.01	4

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1981 TO AUGUST 1982

DATE TIME	JUL 23,82 0900	AUG 18,82 1530
TOTAL COUNT	41	40
DIVERSITY: PHYLUM	0.0	0.0
..CLASS	0.0	0.0
..ORDER	0.9	1.7
...FAMILY	0.0	0.0
....GENUS	0.0	0.0
....GENUS-INSECTA	0.0	0.0

ORGANISM	COUNT	COUNT
ARTHROPODA (ARTHROPODS)		
..INSECTA		
...COLEOPTERA		
...ELMIDAE	--	1
...DIPTERA		
...CHIRONOMIDAE	--	2
...SIMULIIDAE	1	4
..EPHEMEROPTERA	34	19
..PLECOPTERA	1	13
..TRICHOPTERA	5	1

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	IN BOTTOM MATERIAL (GM/KG)
AUG 18...	1530	1.6	16.5	<.10

GREEN RIVER BASIN

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09319000 EPHRAIM TUNNEL NEAR EPHRAIM, UTAH
(Transmountain diversion)

LOCATION.--Lat 39°19'47", long 111°25'51", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ 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) NGVD of 1929. (Levels by U.S. Geological Survey, Topographic Division.)

REMARKS.--Records fair. Flow is seasonal. Tunnel diverts from Cottonwood Creek drainage in Colorado River basin to San Pitch River in the Great Basin. Due to location of the gage, reported flow may not be actual flow through tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 142 ft³/s (4.02 m³/s) June 6, 1964, gage height, 5.43 ft (1.655 m); no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 98 ft³/s (2.78 m³/s) June 11, gage height, 4.99 ft (1.521 m); minimum daily, 0.80 ft³/s (0.023 m³/s) May 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	45	46	7.4	1.5
2								---	52	36	6.9	1.4
3								.80	57	32	6.4	1.3
4								1.7	56	29	5.8	1.3
5								2.1	53	26	5.5	1.4
6								1.9	41	20	5.1	1.3
7								2.4	37	19	5.1	1.6
8								2.9	42	25	5.2	1.2
9								3.6	48	25	4.7	1.2
10								3.6	67	21	4.2	1.6
11								3.9	82	21	4.2	1.4
12								3.9	84	20	4.0	1.1
13								3.6	70	19	4.2	1.2
14								3.9	57	18	4.0	1.5
15								4.4	51	17	4.0	2.7
16								4.7	71	16	8.1	2.3
17								5.5	80	16	4.3	2.0
18								7.3	81	14	3.8	1.7
19								15	64	14	4.2	2.2
20								15	59	14	3.8	2.3
21								18	57	13	4.5	2.8
22								26	53	12	3.4	2.7
23								36	50	12	3.0	2.4
24								54	46	12	2.8	2.6
25								68	49	11	2.4	3.2
26								77	57	10	2.1	5.8
27								84	60	13	2.1	5.1
28								74	60	11	2.1	2.6
29								54	55	10	2.0	1.9
30								49	53	9.4	1.8	2.3
31								43	---	8.3	1.6	---
TOTAL								---	1737	569.7	128.7	63.6
MEAN								---	57.9	18.4	4.15	2.12
MAX								---	84	46	8.1	5.8
MIN								---	37	8.3	1.6	1.1
AC-FT								---	3450	1130	255	126

GREEN RIVER BASIN

09323000 SPRING CITY TUNNEL NEAR SPRING CITY, UTAH
(Transmountain diversion)

LOCATION.--Lat 39°25'34", long 111°21'51", in NW¼SW¼SE¼ sec.16, T.16 S., R.5 E., Sanpete County, Hydrologic Unit 14060009, at west portal of tunnel, 11 mi (18 km) east of Spring City.

PERIOD OF RECORD.--October 1949 to current year. Monthly discharges only for October 1949 to September 1960. Figures of daily discharge available from Salt Lake City District Office, Geological Survey. Seasonal records only since October 1971.

GAGE.--Water-stage recorder. Datum of gage is 9,838 ft (2,999 m) NGVD of 1929 (by plane table closed traverse by U.S. Geological Survey, Topographic Division). Prior to Aug. 24, 1960, at datum about 0.3 ft (0.09 m) higher.

REMARKS.--Records good. 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 ft³/s (3.14 m³/s) July 23, 1965; possibly no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 53 ft³/s (1.50 m³/s) June 17, gage height, 2.61 ft (0.796 m); minimum daily, 0.82 ft³/s (0.023 m³/s) Apr. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	3.3	20	31	4.8	2.0
2							---	4.1	21	27	4.7	2.0
3							---	4.3	23	24	4.5	1.9
4							---	4.9	26	22	4.3	1.9
5							---	4.9	26	19	4.0	1.9
6							---	5.1	22	16	3.8	1.9
7							---	7.4	23	15	3.8	1.9
8							---	7.8	23	19	4.5	1.8
9							---	7.6	25	18	3.6	1.8
10							---	6.4	30	15	3.5	2.2
11							---	5.7	34	14	3.6	2.3
12							---	5.1	35	14	3.5	1.8
13							---	4.8	33	13	3.6	2.0
14							---	4.8	30	12	3.2	2.0
15							---	5.1	26	11	3.0	2.4
16							---	6.4	32	10	4.1	2.4
17							---	8.2	36	9.2	3.2	2.4
18							---	9.0	36	8.6	3.0	2.0
19							---	8.4	36	8.2	2.9	1.9
20							.87	8.0	35	7.8	2.8	1.8
21							.82	10	35	7.4	5.5	2.0
22							.87	12	34	7.0	2.7	2.0
23							.87	16	33	6.6	2.6	1.7
24							1.0	20	32	6.4	2.4	1.6
25							1.4	23	33	6.2	2.3	1.9
26							1.4	27	35	5.9	2.3	2.8
27							1.5	31	34	6.2	2.2	2.6
28							2.0	29	39	5.9	2.2	1.9
29							2.4	24	35	5.5	2.2	1.6
30							2.4	22	33	5.1	2.1	1.5
31							---	19	---	5.0	2.0	---
TOTAL							---	354.3	915	381.0	102.9	59.9
MEAN							---	11.4	30.5	12.3	3.32	2.00
MAX							---	31	39	31	5.5	2.8
MIN							---	3.3	20	5.0	2.0	1.5
AC-FT							---	703	1810	756	204	119

09323900 JOES VALLEY RESERVOIR NEAR ORANGEVILLE, UTAH

LOCATION.--Lat 39°17'20", long 111°16'10", in NW¼NE¼ sec.5, T.18 S., R.6 E., Emery County, Hydrologic Unit 14060009, on Seeley Creek 5.2 mi (8.4 km) upstream from Cottonwood Creek, and 12.6 mi (20.3 km) west of Orangeville.

DRAINAGE AREA.--146 mi² (378 km²).

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

GAGE.--Mercury gage in control house at downstream end of outlet tunnel. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill rock-faced dam. Storage began Nov. 3, 1965. Usable capacity, 54,610 acre-ft (67.3 hm³) 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 hm³) 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 hm³) between elevations 6,866.5 and 6,910.0 ft (2,092.91 and 2,106.17 m). Figures given herein represent total contents. Water is used for irrigation. Huntington North Reservoir, a small off-channel reservoir near Huntington, is operated in conjunction with Joes Valley Reservoir; records not included.

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 53,920 acre-ft (80.1 hm³) June 19, 1975; minimum observed since reservoir was first filled, 7,710 acre-ft (9.5 hm³) Oct. 1, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 64,350 acre-ft (79.3 hm³) June 28, 29, elevation, 6,991.3 ft (2,130.95 m); minimum observed, 38,880 acre-ft (47.9 hm³), Mar. 22, 25, elevation, 6,966.4 ft (2,123.36 m).

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

6,965	37,710	6,985	57,090
6,970	42,010	6,990	62,810
6,975	46,660	6,995	68,850
6,980	51,700		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	40080	39390	---	---	48530	64230	---	---
2	41920	40250	---	---	---	---	38970	---	---	64110	59920	---
3	---	---	---	---	---	---	---	39560	---	---	59580	54680
4	---	---	40080	---	---	---	---	39820	50660	---	---	---
5	41480	40250	---	---	39910	39310	38970	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	63760	59010	---
7	---	---	39990	---	---	---	---	40420	52430	63990	---	54030
8	---	---	---	---	39820	39220	38970	---	---	63990	---	---
9	41040	40160	---	---	---	---	---	---	53810	63760	58440	---
10	---	---	---	---	---	---	---	40690	---	---	58330	53600
11	---	---	39910	40160	---	---	---	40770	55000	---	---	---
12	---	---	---	---	39730	39220	39050	---	---	63640	57990	---
13	40770	40160	---	---	---	---	---	---	---	63640	57770	53060
14	---	---	39820	---	---	---	---	40770	57320	63520	---	52850
15	---	---	---	40340	---	39140	---	---	58100	63400	---	---
16	40600	---	---	---	39730	---	39220	---	---	63280	57320	---
17	---	---	---	---	---	---	---	40690	---	---	57210	52750
18	---	---	39730	40420	---	---	---	---	60380	---	---	---
19	40420	---	---	---	39560	39050	39220	---	---	62700	---	---
20	40340	---	---	---	---	---	---	---	---	62580	56870	52530
21	---	---	39730	---	---	---	---	41300	62460	62350	---	52430
22	---	---	---	40340	39560	38880	---	---	63520	---	---	---
23	40420	40160	39650	---	---	---	39310	---	---	---	56430	---
24	---	---	---	---	---	---	---	42370	---	---	---	52110
25	---	40250	---	40250	---	38880	---	---	64230	---	---	---
26	---	---	---	---	39480	38970	39480	---	---	61300	---	---
27	40250	---	---	---	---	---	39560	---	---	61180	55880	51700
28	40160	40160	39730	---	a39390	---	39480	45990	64350	---	---	51590
29	---	---	---	40160	---	38970	---	---	64350	---	---	---
30	40160	40160	39820	---	---	---	39310	---	a64230	60610	55330	a51590
31	40160	---	a39820	a40080	---	a38970	---	a47840	---	a60380	55220	---
(+)	6967.9	6967.9	---	---	---	---	6966.9	---	---	---	6983.3	---
(±)	-1940	0	-340	+260	-690	-420	+340	+8530	+16390	-3850	-5160	-3630

CAL YR 1981 (±) -5550

WTR YR 1982 (±) +9490

(+) ELEVATION, IN FEET, AT END OF MONTH
(±) CHANGE IN CONTENTS, IN ACRE-FEET
(a) NO GAGE-HEIGHT RECORD, CONTENTS INTERPOLATED

09324500 COTTONWOOD CREEK NEAR ORANGEVILLE, UTAH

LOCATION.--Lat 39°16'00", long 111°07'45", in NE¼SW¼SW¼ sec.10, T.18 S., R.7 E., Emery County, Hydrologic Unit 14060009, on left bank 2 mi (3 km) upstream from Grimes Wash, and 5 mi (8 km) northwest of Orangeville.

DRAINAGE AREA.--208 mi² (539 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1909 to July 1921, October 1921 to September 1927, May 1932 to September 1970, October 1975 to current year. Monthly discharge only for some periods, published in WSP 1313.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,050 ft (1,844 m) from topographic map. Prior to Aug. 11, 1921 staff gages, and Aug. 11, 1921 to Sept. 30, 1970, water-stage recorder, at several sites in vicinity of present gage at different datums.

REMARKS.--Records good except those for winter period, which are poor. Flow regulated by Joes Valley Reservoir, 09323900, (see preceding page) 8 mi (12 km) upstream, constructed by Bureau of Reclamation in fall of 1965. Small diversions for irrigation above station. Ephraim and Spring City tunnels (see stations 09319000, 09323000) constructed by Bureau of Reclamation in 1936 and 1938, respectively, and several small tunnels and ditches divert from headwaters of Cottonwood Creek to the Great Basin for irrigation in San Pitch River basin.

AVERAGE DISCHARGE.--62 years (1909-20, 1921-27, 1932-70, 1975-82), 95.2 ft³/s (2.70 m³/s), 69,000 acre-ft/yr (85.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,220 ft³/s (204 m³/s) Aug. 1, 1964, gage heights, 9.05 ft (2.758 m) from high-water mark, at site then in use, from slope-area measurement of peak flow; minimum observed, 1.2 ft³/s (0.034 m³/s) Apr. 8, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 900 ft³/s (25.5 m³/s), 1,550 ft³/s (43.9 m³/s) Aug. 8, gage height, 5.55 ft (1.692 m); minimum, 9.4 ft³/s (0.27 m³/s) Dec. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	28	32	13	30	33	25	93	194	450	238	166
2	78	28	32	12	30	33	25	97	194	420	238	164
3	78	28	37	11	30	33	25	91	194	380	228	170
4	76	30	32	12	30	32	25	124	194	350	216	164
5	72	32	32	14	29	32	25	166	194	330	216	155
6	66	32	32	13	28	32	25	164	194	320	216	151
7	64	32	32	12	30	32	25	170	194	320	216	148
8	64	32	32	10	31	32	25	174	194	320	286	148
9	62	32	32	13	31	32	25	172	194	320	183	155
10	62	32	32	14	31	32	25	168	194	320	176	144
11	79	32	32	14	31	32	25	166	195	310	174	138
12	62	32	30	14	31	32	26	166	196	260	176	134
13	62	32	29	15	32	32	28	170	196	260	172	136
14	62	32	29	14	30	33	31	174	196	260	172	123
15	69	32	29	14	31	33	39	181	196	260	172	109
16	61	32	29	14	31	33	39	181	198	239	172	107
17	54	32	30	17	31	33	39	181	198	245	172	103
18	54	32	37	22	32	33	39	182	200	240	159	104
19	54	32	30	28	32	33	39	184	203	230	159	115
20	53	32	30	27	32	33	39	186	206	231	159	124
21	51	32	25	29	33	33	39	188	268	231	166	130
22	52	32	13	29	32	34	39	189	332	231	159	130
23	49	32	13	29	33	34	39	189	337	231	159	130
24	46	32	17	28	32	34	41	190	329	231	159	130
25	46	32	17	30	33	25	45	192	331	231	159	130
26	46	32	17	30	32	25	45	193	339	231	172	170
27	45	32	18	30	33	25	50	194	420	263	174	220
28	37	32	15	30	33	25	77	194	480	221	187	160
29	28	32	16	30	---	25	93	193	580	229	187	150
30	28	32	16	30	---	25	93	196	520	236	176	270
31	28	---	13	30	---	25	---	195	---	237	172	---
TOTAL	1768	946	810	628	874	960	1155	5303	7860	8637	5770	4378
MEAN	57.0	31.5	26.1	20.3	31.2	31.0	38.5	171	262	279	186	146
MAX	80	32	37	30	33	34	93	196	580	450	286	270
MIN	28	28	13	10	28	25	25	91	194	221	159	103
AC-FT	3510	1880	1610	1250	1730	1900	2290	10520	15590	17130	11440	8680

CAL YR 1981 TOTAL 23949 MEAN 65.6 MAX 238 MIN 13 AC-FT 47500
WTR YR 1982 TOTAL 39089 MEAN 107 MAX 580 MIN 10 AC-FT 77530

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, periodically.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)
OCT 06...	1600	62	380	8.1	19.0	14.5	190	13
DEC 01...	1500	33	410	8.2	.5	.0	200	23
MAR 09...	1500	34	405	8.2	13.5	6.5	210	4.0
APR 14...	1030	30	430	8.2	13.5	4.5	200	3.0
MAY 13...	1600	173	400	8.0	9.0	10.5	200	4.0
JUN 18...	0945	199	390	8.4	--	11.5	210	12
JUL 15...	1600	258	350	8.5	26.0	21.0	190	15
AUG 12...	1400	170	390	8.2	25.0	15.0	210	15
SEP 16...	1600	104	390	8.3	--	14.0	200	18

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT 06...	41	22	9.8	10	.3	.9	180	2.8	27
DEC 01...	40	25	13	12	.4	1.1	180	2.2	31
MAR 09...	43	26	14	12	.4	1.2	210	2.5	34
APR 14...	40	25	23	20	.7	1.6	200	2.4	43
MAY 13...	42	24	14	13	.4	1.1	200	3.9	35
JUN 18...	46	22	11	10	.3	.9	193	1.5	21
JUL 15...	44	20	8.0	8	.3	.9	177	1.1	17
AUG 12...	48	22	10	9	.3	1.1	195	2.4	22
SEP 16...	45	21	9.0	9	.3	.8	181	1.7	20

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 06...	4.6	.2	3.7	221	.30	36.8	<.09	<.010
DEC 01...	5.9	.1	2.1	227	.31	19.9	.20	.020
MAR 09...	7.0	.1	3.1	255	.35	23.3	<.10	.010
APR 14...	9.5	.2	3.9	267	.36	21.3	.11	<.010
MAY 13...	7.2	.2	3.0	247	.34	115	<.10	.040
JUN 18...	5.0	.1	3.4	226	.31	121	.15	.050
JUL 15...	3.5	.1	3.3	204	.28	142	.13	.040
AUG 12...	4.3	.1	4.0	230	.31	106	.19	<.010
SEP 16...	4.7	.2	4.1	215	.29	60.4	.21	.020

GREEN RIVER BASIN

09324500 COTTONWOOD CREEK NEAR ORANGEVILLE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

		BORON, DIS- SOLVED (UG/L AS B)	
DATE	TIME		
OCT			
06...	1600		20
DEC			
01...	1500		20
MAR			
09...	1500		30
APR			
14...	1030		30
MAY			
13...	1600		30
JUN			
18...	0945		20
JUL			
15...	1600		20
AUG			
12...	1400		20
SEP			
16...	1600		30

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT					
06...	1600	62	14.5	80	13
MAR					
09...	1500	34	6.5	20	1.8
APR					
14...	1030	30	4.5	207	17
MAY					
13...	1600	173	10.5	140	65
JUN					
18...	0945	199	11.5	37	20
JUL					
15...	1600	258	21.0	29	20
AUG					
12...	1400	170	15.0	258	118
SEP					
16...	1600	104	14.0	47	13

09326500 FERRON CREEK (UPPER STATION) NEAR FERRON, UTAH

LOCATION.--Lat 39°06'15", long 111°12'47", in NE¼SE¼SW¼ 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 mi² (357 km²).

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.--47 years, 66.4 ft³/s (1.880 m³/s), 48,110 acre-ft/yr (59.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,180 ft³/s (118 m³/s) Aug. 27, 1952, gage height, 9.71 ft (2.960 m), site and datum then in use, from rating table extended above 400 ft³/s (11.3 m³/s) on basis of slope-area measurements at gage heights 8.70 ft (2.652 m) and 9.71 ft (2.960 m); site and datum then in use; no flow Oct. 19-21, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, and peak above base of 600 ft³/s (17.0 m³/s), 605 ft³/s (17.1 m³/s) May 27, gage height, 4.74 ft (1.445 m); minimum, 2.2 ft³/s (0.062 m³/s) Mar. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	22	8.0	9.0	10	21	12	150	391	322	75	32
2	11	21	7.5	8.0	11	19	10	180	387	291	71	31
3	11	21	7.0	7.0	12	17	11	231	371	271	69	30
4	14	20	8.0	7.5	10	15	12	300	400	258	64	29
5	14	20	8.5	8.5	8.0	13	10	245	398	242	60	30
6	13	20	10	7.0	6.0	12	10	177	351	222	58	30
7	12	21	11	5.5	5.0	11	10	174	343	205	56	37
8	13	20	11	4.8	5.0	10	9.4	189	366	232	61	31
9	13	19	12	5.5	7.0	10	9.7	176	375	252	58	30
10	13	19	13	6.0	8.5	11	10	145	398	207	51	29
11	42	20	13	6.5	10	12	12	122	442	191	52	29
12	19	21	13	7.0	10	12	27	109	453	182	54	28
13	16	21	11	7.5	11	12	36	109	420	172	59	30
14	14	21	11	8.0	11	13	42	120	391	164	56	33
15	16	20	10	8.5	12	12	40	144	365	153	49	33
16	19	20	9.5	9.0	11	12	30	163	396	147	48	35
17	18	20	9.0	9.5	11	11	27	218	497	140	51	33
18	17	21	8.0	10	11	10	33	253	448	132	50	30
19	17	14	9.0	10	11	9.7	28	238	415	129	47	28
20	17	23	10	10	12	9.4	20	230	420	122	44	32
21	18	24	9.0	9.0	13	9.1	20	264	426	119	47	28
22	17	24	8.0	8.0	12	9.2	23	292	418	114	53	27
23	17	23	8.0	7.5	14	10	29	336	394	113	52	26
24	17	22	8.0	7.5	17	10	46	410	375	111	42	25
25	17	20	8.0	8.0	20	11	66	445	381	111	40	25
26	16	13	9.0	8.5	28	12	73	488	381	105	40	34
27	18	12	8.0	9.0	35	11	87	510	375	142	41	45
28	18	10	7.5	9.5	26	11	106	480	367	109	38	36
29	20	9.0	7.5	10	---	12	115	405	349	103	49	36
30	16	8.5	8.0	10	---	11	118	396	339	93	40	68
31	17	---	8.5	9.5	---	11	---	357	---	82	34	---
TOTAL	511	569.5	289.0	251.3	357.5	369.4	1082.1	8056	11832	5236	1609	970
MEAN	16.5	19.0	9.32	8.11	12.8	11.9	36.1	260	394	169	51.9	32.3
MAX	42	24	13	10	35	21	118	510	497	322	75	68
MIN	11	8.5	7.0	4.8	5.0	9.1	9.4	109	339	82	34	25
AC-FT	1010	1130	573	498	709	733	2150	15980	23470	10390	3190	1920
CAL YR 1981	TOTAL	14263.2	MEAN	39.1	MAX	243	MIN	7.0	AC-FT	28290		
WTR YR 1982	TOTAL	31132.8	MEAN	85.3	MAX	510	MIN	4.8	AC-FT	61750		

GREEN RIVER BASIN

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09327550 FERRON CREEK BELOW PARADISE RANCH, NEAR CLAWSON, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.

SEDIMENT DATA: October 1975 to current year, periodically.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM
OCT 06...	1345	6.3	3320	8.4	19.5	14.5	1200	930	210	170	370	39
JAN 15...	1200	5.3	2930	8.1	-6.0	.0	1300	830	220	170	320	36
MAR 09...	1230	6.6	3720	8.3	12.5	5.5	1500	1100	270	200	440	39
APR 14...	1300	5.7	3050	8.3	20.0	12.0	1200	870	180	170	300	36
MAY 13...	1400	18	2550	8.2	16.5	13.5	930	630	160	130	290	40
JUL 15...	1515	47	1750	8.3	38.0	20.5	670	390	130	84	140	31
AUG 12...	1600	28	2390	8.3	31.0	21.5	970	680	190	120	230	34
SEP 16...	1530	32	2260	8.4	22.5	14.5	810	530	160	100	220	37

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 06...	4.6	8.6	290	1600	47	.5	7.1	2590	3.5	43.8	.12	<.010
JAN 15...	3.9	6.8	420	1500	42	.5	12	2530	3.4	36.2	.98	.010
MAR 09...	4.9	7.5	360	2000	55	.4	8.6	3200	4.4	56.6	.59	.020
APR 14...	3.9	6.4	280	1400	54	.3	8.8	2290	3.1	35.2	<.10	<.010
MAY 13...	4.1	8.2	300	1200	36	.5	6.2	2010	2.7	95.5	<.10	.050
JUL 15...	2.6	4.9	284	680	22	.4	8.4	1240	1.7	157	<.10	.020
AUG 12...	3.2	7.3	290	1100	29	.4	10	1860	2.5	140	.18	<.010
SEP 16...	3.4	5.6	281	940	25	.4	7.4	1630	2.2	140	.60	<.010

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT 06...	1345	340
JAN 15...	1200	260
MAR 09...	1230	300
APR 14...	1300	250
MAY 13...	1400	220
JUL 15...	1515	160
AUG 12...	1600	220
SEP 16...	1530	210

GREEN RIVER BASIN

09327550 FERRON CREEK BELOW PARADISE RANCH, NEAR CLAWSON, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT					
06...	1345	6.3	14.5	14	.24
MAR					
09...	1230	6.6	5.5	614	11
APR					
14...	1300	5.7	12.0	6	.09
MAY					
13...	1400	18	13.5	428	20
JUL					
15...	1515	47	20.5	18	2.3
AUG					
12...	1600	28	21.5	512	39
SEP					
16...	1530	32	14.5	150	13

09328000 SAN RAFAEL RIVER NEAR CASTLE DALE, UTAH

LOCATION.--Lat 39°08'37", long 110°53'50", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ 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 mi² (2,410 km²).

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.--27 years (1947-64, 1972-82) 105 ft³/s (2.974 m³/s), 76,070 acre-ft/yr (93.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,510 ft³/s (128 m³/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 ft³/s (28.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
June 22	1530	1,090	30.9	5.76	1.756
July 27	1200	1,170	33.1	5.86	1.786
Aug. 17	2030	*1,300	36.8	6.11	1.862

Minimum daily, 14.0 ft³/s (0.396 m³/s) Feb. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	34	26	29	38	70	52	59	295	768	138	88
2	31	32	25	27	39	60	53	55	272	696	145	82
3	37	34	26	27	41	54	52	75	281	589	161	84
4	57	34	27	27	37	50	53	128	293	498	138	83
5	61	36	28	28	26	48	54	167	318	453	108	100
6	43	38	28	30	19	45	60	121	296	389	95	337
7	37	42	29	22	14	43	52	84	272	333	90	135
8	38	42	28	17	17	50	48	93	306	272	138	112
9	43	40	27	16	22	49	51	87	379	340	180	105
10	41	45	27	20	27	48	51	87	391	343	113	96
11	184	42	27	24	29	49	51	93	447	291	102	86
12	116	40	28	27	31	49	58	82	520	236	115	82
13	60	49	26	28	35	44	61	75	563	201	121	94
14	57	42	26	27	37	69	63	71	571	146	134	104
15	99	39	25	28	38	93	60	96	520	128	163	111
16	116	41	26	30	37	62	54	114	511	117	134	110
17	92	42	27	32	36	54	61	115	585	118	284	105
18	71	44	27	34	36	51	61	126	681	117	210	90
19	67	37	25	37	37	47	51	135	711	108	128	92
20	64	33	24	37	39	44	49	116	652	113	113	152
21	60	37	25	34	42	42	38	114	737	113	102	110
22	63	38	26	32	42	42	42	141	952	127	106	112
23	58	42	27	30	43	39	31	154	893	106	97	105
24	56	40	28	29	110	41	30	194	920	97	97	92
25	51	34	29	28	120	41	34	200	888	106	90	100
26	51	33	28	28	140	44	39	223	866	113	95	127
27	51	32	26	29	160	57	45	238	888	507	100	207
28	44	31	25	31	90	48	46	258	893	356	97	181
29	46	29	25	33	---	44	68	321	849	212	139	186
30	42	28	26	40	---	53	57	384	784	175	145	407
31	35	---	28	38	---	54	---	385	---	154	106	---
TOTAL	1903	1130	825	899	1382	1584	1525	4591	17534	8322	3984	3875
MEAN	61.4	37.7	26.6	29.0	49.4	51.1	50.8	148	584	268	129	129
MAX	184	49	29	40	160	93	68	385	952	768	284	407
MIN	31	28	24	16	14	39	30	55	272	97	90	82
AC-FT	3770	2240	1640	1780	2740	3140	3020	9110	34780	16510	7900	7690
CAL YR 1981	TOTAL	14244.9	MEAN	39.0	MAX 274	MIN 4.4	AC-FT	28250				
WTR YR 1982	TOTAL	47554.0	MEAN	130	MAX 952	MIN 14	AC-FT	94320				

09328100 SAN RAFAEL RIVER AT SAN RAFAEL BRIDGE CAMPGROUND, NEAR CASTLE DALE, UTAH

LOCATION.--Lat 39°04'51", long 110°39'56", in NE¼NE¼SE¼ 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 mi² (3,326 km²).

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 poor.

AVERAGE DISCHARGE.--7 years, 84.1 ft³/s (2.382 m³/s), 60,930 acre-ft/yr (75.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,630 ft³/s (131 m³/s) Sept. 10, 1980, gage height, 11.08 ft (3.377 m) from slope-area measurement of peak; no flow several days in 1977-78.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 500 ft³/s (14.2 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Oct. 4	2130	963	27.3	6.10	1.859	Aug. 18	0100	842	23.8	5.85	1.783
Oct. 11	1900	554	15.7	5.48	1.670	Aug. 28	0100	1,250	35.4	6.60	2.012
Oct. 16	0030	812	23.0	6.06	1.847	Sept. 5	2300	1,380	39.1	6.79	2.070
June 22	1830	931	26.4	6.00	1.829	Sept. 30	2030	683	19.3	5.50	1.676
July 27	2300	*3,130	88.6	9.07	2.764						

Minimum daily, 14.0 ft³/s (0.396 m³/s) Feb. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	35	31	29	38	180	56	76	294	665	147	80
2	62	33	31	27	40	140	56	74	261	585	144	69
3	50	35	30	27	44	70	56	75	256	512	164	69
4	127	35	31	28	40	54	56	118	262	447	155	70
5	284	37	29	32	27	50	58	153	285	413	132	211
6	47	39	30	31	20	47	62	151	280	391	108	360
7	35	43	31	23	14	50	58	115	260	331	100	151
8	38	43	30	18	18	56	54	110	270	270	130	108
9	39	42	28	17	23	54	54	103	334	276	174	94
10	40	45	27	21	31	56	56	95	353	304	122	91
11	122	43	28	27	35	54	58	99	397	267	120	79
12	142	40	28	28	35	54	62	97	445	227	122	72
13	50	50	27	29	36	52	63	90	489	197	180	78
14	40	45	27	28	40	80	67	84	518	158	151	94
15	154	40	26	30	41	100	69	90	472	129	138	100
16	412	42	26	32	37	80	65	111	474	122	216	99
17	90	43	27	34	37	60	68	119	499	114	174	96
18	72	45	27	36	38	54	70	124	566	112	301	87
19	68	39	27	39	40	49	65	142	608	111	151	82
20	64	34	25	38	43	52	65	137	563	107	124	126
21	66	38	26	36	45	48	67	126	595	102	111	114
22	64	40	27	33	43	47	63	129	729	120	164	99
23	62	45	28	31	45	45	60	164	692	107	107	102
24	58	41	29	29	125	47	55	176	728	90	114	90
25	54	37	30	27	150	50	56	205	713	94	97	87
26	52	35	29	28	170	52	61	217	694	100	97	104
27	52	33	27	30	200	59	68	225	729	595	99	194
28	46	32	25	34	220	55	67	227	758	494	263	205
29	48	31	25	36	---	50	74	277	737	216	146	168
30	45	30	27	42	---	56	73	339	672	182	132	387
31	37	---	29	38	---	56	---	370	---	162	112	---
TOTAL	2555	1170	868	938	1675	1957	1862	4618	14933	8000	4495	3766
MEAN	82.4	39.0	28.0	30.3	59.8	63.1	62.1	149	498	258	145	126
MAX	412	50	31	42	220	180	74	370	758	665	301	387
MIN	35	30	25	17	14	45	54	74	256	90	97	69
AC-FT	5070	2320	1720	1860	3320	3880	3690	9160	29620	15870	8920	7470
CAL YR 1981 TOTAL	16767.8											
WTR YR 1982 TOTAL	46837.0											
MEAN	45.9											
MAX	599											
MIN	3.4											
AC-FT	33260											
AC-FT	92900											

NOTE: No gage-height record Oct. 17 to Mar. 8.

09328100 SAN RAFAEL RIVER AT SAN RAFAEL BRIDGE CAMPGROUND, NEAR CASTLE DALE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.

SEDIMENT DATA: October 1975 to current year, periodically.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM
OCT 07...	1400	37	3440	8.2	20.5	15.5	1200	1000	260	140	400	41
DEC 02...	1400	33	3550	8.1	3.5	.0	1300	1000	230	170	390	40
MAR 08...	1300	58	4130	8.2	8.5	5.5	1400	1100	250	190	580	47
APR 13...	1230	57	2790	8.2	20.5	14.5	930	710	160	130	310	42
MAY 12...	1200	97	2650	8.2	15.5	12.5	1100	770	190	140	330	40
JUN 16...	1330	510	940	8.0	26.5	16.5	390	180	85	44	81	31
JUL 14...	1230	151	1760	8.1	33.5	22.0	620	380	120	78	160	36
AUG 31...	1230	117	2910	8.2	33.0	20.0	1100	880	250	120	340	40
SEP 17...	1330	97	2810	8.5	24.5	17.5	920	670	170	120	300	41

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 07...	5.0	15	210	1700	57	.6	6.7	2710	3.7	268	.20	.020
DEC 02...	4.8	7.5	270	1700	54	.3	6.5	2720	3.7	244	.60	.010
MAR 08...	6.7	7.8	290	2200	80	.4	7.3	3490	4.8	549	.31	<.010
APR 13...	4.4	5.6	220	1200	42	.3	3.6	1980	2.7	302	<.10	.030
MAY 12...	4.4	8.6	280	1300	38	.4	6.4	2180	3.0	573	<.10	.050
JUN 16...	2.0	2.9	210	340	11	.3	5.5	698	.95	961	.34	.020
JUL 14...	3.1	4.8	243	710	16	.2	6.9	1240	1.7	506	<.10	.020
AUG 31...	4.4	9.6	234	1500	41	.4	9.8	2410	3.3	761	.36	.130
SEP 17...	4.3	7.1	245	1300	30	.3	7.0	2080	2.8	544	.16	<.010

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT 07...	1400	280
DEC 02...	1400	250
MAR 08...	1300	260
APR 13...	1230	200
MAY 12...	1200	200
JUN 16...	1330	100
JUL 14...	1230	160
AUG 31...	1230	490
SEP 17...	1330	250

GREEN RIVER BASIN

09328100 SAN RAFAEL RIVER AT SAN RAFAEL BRIDGE CAMPGROUND, NEAR CASTLE DALE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM
OCT 07...	1400	37	15.5	1420	140	62	78	92	94	96	100
MAR 08...	1300	58	5.5	1160	183	--	--	--	--	--	--
APR 13...	1230	57	14.5	681	104	--	--	--	--	--	--
MAY 12...	1200	97	12.5	1540	405	--	--	--	--	--	--
JUL 14...	1230	151	22.0	602	245	--	--	--	--	--	--
AUG 31...	1230	117	20.0	4740	1500	--	--	--	--	--	--
SEP 17...	1330	97	17.5	669	175	--	--	--	--	--	--

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UTAH

LOCATION.--Lat 38°51'30", long 110°22'10", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ 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 mi² (4,217 km²).

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 fair. Diversions above station for irrigation of about 42,000 acres (170 km²). 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.--46 years (1909-18, 1945-82), 145 ft³/s (4.106 m³/s), 105,100 acre-ft/yr (130 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,000 ft³/s (340 m³/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 ft³/s (87.8 m³/s); no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,300 ft³/s (36.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Oct. 16	unknown	1,430	40.5	10.47	3.191
July 28	1130	1,520	43.0	10.76	3.280
Sept. 6	1100	*1,810	51.3	11.22	3.420

Minimum daily, 16 ft³/s (0.453 m³/s) Feb. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	48	32	31	40	229	57	57	337	750	170	105
2	62	44	32	29	42	150	56	55	278	690	169	109
3	54	42	33	29	46	147	55	56	273	600	165	76
4	160	41	32	30	42	79	55	55	251	520	177	71
5	290	40	31	34	27	60	53	101	247	450	203	108
6	80	43	31	33	21	50	53	154	288	400	154	1140
7	45	46	33	24	16	47	77	125	272	350	104	380
8	45	44	32	19	18	45	106	93	253	270	92	141
9	45	46	30	18	22	50	57	87	293	370	118	133
10	48	48	29	22	33	50	50	87	382	350	184	175
11	130	43	29	29	37	50	49	80	371	290	115	100
12	160	41	30	30	37	52	48	88	420	250	100	89
13	90	42	29	31	38	50	48	83	478	200	184	100
14	45	51	29	30	42	68	53	72	531	160	150	110
15	110	46	28	32	43	90	58	63	533	130	108	120
16	500	44	28	34	39	70	60	67	493	110	275	110
17	200	47	29	36	39	58	58	94	504	100	155	110
18	80	49	29	38	40	52	59	97	640	98	229	97
19	72	52	29	41	42	49	62	102	660	99	174	140
20	68	45	27	40	45	46	59	120	660	97	103	160
21	66	41	28	38	47	43	56	109	640	96	88	110
22	64	44	29	35	45	43	51	95	840	100	115	97
23	62	46	30	33	50	42	47	108	880	174	107	90
24	60	47	31	31	130	43	45	142	860	94	104	98
25	62	48	32	29	156	44	38	171	870	73	98	86
26	62	45	31	30	184	49	36	190	830	73	90	86
27	62	43	29	32	216	52	37	220	800	89	82	115
28	60	38	27	36	266	54	41	228	830	772	158	251
29	58	34	27	38	---	56	42	257	820	359	111	168
30	58	32	29	44	---	52	49	292	780	182	120	160
31	50	---	31	40	---	50	---	344	---	154	100	---
TOTAL	2993	1320	926	996	1803	2020	1615	3892	16314	8450	4302	4835
MEAN	96.5	44.0	29.9	32.1	64.4	65.2	53.8	126	544	273	139	161
MAX	500	52	33	44	266	229	106	344	880	772	275	1140
MIN	45	32	27	18	16	42	36	55	247	73	82	71
AC-FT	5940	2620	1840	1980	3580	4010	3200	7720	32360	16760	8530	9590
CAL YR 1981	TOTAL	18515.9	MEAN	50.7	MAX	900	MIN	4.2	AC-FT	36730		
WTR YR 1982	TOTAL	49466.0	MEAN	136	MAX	1140	MIN	16	AC-FT	98120		

NOTE: No gage-height record Oct. 1 to Feb. 25.

GREEN RIVER BASIN

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1946 to September 1949, October 1950 to current year.

SPECIFIC CONDUCTANCE: July to September 1949, November 1950 to September 1962, October 1964 to September 1979, daily, October 1979 to September 1980, March to October 1982, bi-weekly.

WATER TEMPERATURES: July to September 1949, October 1950 to September 1962, October 1964 to September 1978, daily (discontinued).

SUSPENDED-SEDIMENT DISCHARGE: March 1948 to September 1949, October 1950 to September 1959, daily, October 1975 to current year, periodically.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily (water years 1949, 1951-70, 1974-76), 7,230 micromhos July 15, 1954, and June 29, 1977; minimum daily (water years 1949, 1951-76), 689 micromhos June 29, 1957.

WATER TEMPERATURES: Maximum (water years 1949, 1951-61, 1966-76), 35.0°C July 11, 1954; minimum, 0.0°C on many days during winter period each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum observed, 3,730 micromhos Jan. 4; minimum, 870 micromhos June 30.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	HARD- NESS (MG/L AS CaCO3)	HARD- NESS NONCAR- BONATE (MG/L AS CaCO3)
OCT 26...	1430	62	3180	8.1	20.0	10.0	10.3	--	1100	860
NOV 23...	1330	50	3650	8.1	5.5	3.0	10.0	648	1400	1100
JAN 04...	1400	31	3730	8.1	-1.5	.0	11.7	657	1400	1100
FEB 25...	1300	156	2870	8.2	17.0	2.5	11.1	660	970	710
MAR 26...	1300	48	3500	8.2	9.5	8.5	9.4	650	1300	1100
APR 23...	1300	50	2700	8.2	17.5	14.5	8.3	659	940	710
MAY 20...	1400	120	2380	8.2	23.0	16.5	7.9	659	800	560
JUN 29...	1330	826	880	8.3	34.0	21.5	7.2	653	350	150
JUL 20...	1315	96	2120	8.3	39.0	27.5	7.2	655	830	--
AUG 26...	1030	98	2370	8.1	24.5	20.5	7.0	656	1000	850
SEP 23...	1100	89	3070	8.1	27.0	19.0	7.5	655	1000	810

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CaCO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT 26...	210	140	370	42	4.9	8.3	240	1500	74	.3
NOV 23...	260	170	420	40	5.0	8.7	260	1800	64	.3
JAN 04...	280	180	440	40	5.0	8.6	320	2000	74	.3
FEB 25...	190	120	350	44	4.9	6.9	260	1400	36	.3
MAR 26...	240	170	430	42	5.2	7.5	250	1900	59	.3
APR 23...	180	120	300	41	4.3	6.1	230	1300	48	.3
MAY 20...	140	110	270	42	4.1	7.0	243	1100	34	.4
JUN 29...	75	40	60	27	1.5	2.6	205	250	9.1	.2
JUL 20...	150	110	230	37	3.5	6.1	--	910	28	.3
AUG 26...	240	100	240	34	3.3	8.5	157	1300	38	.4
SEP 23...	210	120	390	45	5.3	10	208	1600	40	.4

GREEN RIVER BASIN

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09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT 26...	8.9	--	2460	3.4	414	.100	--	--	.63
NOV 23...	5.8	--	2890	3.9	390	.090	--	--	.43
JAN 04...	8.1	--	3190	4.3	264	.220	--	--	.39
FEB 25...	5.9	2460	2270	3.4	1040	.180	.220	.28	.77
MAR 26...	5.0	3060	2960	4.2	392	.070	.100	.13	.45
APR 23...	4.7	2250	2100	3.1	306	.100	.110	.14	.57
MAY 20...	6.4	1890	1810	2.6	612	.300	.090	.12	1.5
JUN 29...	5.5	608	566	.83	1360	<.060	.060	.08	--
JUL 20...	7.0	1730	--	2.4	448	.120	.080	.10	1.1
AUG 26...	7.6	2090	2030	2.8	555	.190	<.060	.08	18
SEP 23...	6.6	2640	2500	3.6	634	.150	.100	.13	2.7

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
OCT 26...	.73	.93	.20	.21	4.1	<.010	--	--	--
NOV 23...	.52	.75	.23	.20	3.3	.010	.03	--	--
JAN 04...	.61	1.1	.49	.54	4.9	.020	.06	--	--
FEB 25...	.95	1.7	.74	.74	7.5	.020	.06	.010	.03
MAR 26...	.52	--	<.10	<.10	--	.020	.06	.020	.06
APR 23...	.67	.81	.14	<.10	3.6	.110	.34	<.010	--
MAY 20...	1.80	--	<.10	<.10	--	.640	2.0	.010	.03
JUN 29...	2.10	2.2	.14	.15	9.9	.370	1.1	<.010	--
JUL 20...	1.20	--	<.10	<.10	--	.100	.31	.020	.06
AUG 26...	18.0	18	.20	.22	81	7.50	23	.030	.09
SEP 23...	2.80	3.2	.40	.43	14	2.60	8.0	.020	.06

DATE	TIME	ALUM- INIUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
JUN 29...	1330	15000	8	<10	<1	30	26	23000
SEP 23...	1100	28000	6	<10	<1	50	50	44000

GREEN RIVER BASIN

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
JUN 29...	12	70	920	.1	3	28	1	100
SEP 23...	15	300	940	2.8	4	75	8	240

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT 26...	1430	260
NOV 23...	1330	270
JAN 04...	1400	310
FEB 25...	1300	180
MAR 26...	1300	250
APR 23...	1300	200
MAY 20...	1400	210
JUN 29...	1330	80
JUL 20...	1315	210
AUG 26...	1030	410
SEP 23...	1100	270

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
MAR 26...	1300	5.2	1.1
JUN 29...	1330	5.2	>4.0

GREEN RIVER BASIN

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09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	2800	3080	1980	---	1000	2090	2780
4	---	---	---	3730	---	---	---	---	1420	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	3640	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	2680	2300	---	---	2050	2780
9	---	---	---	---	---	---	---	---	1560	1370	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	3390	---	---	---	---	2280	---
13	---	---	---	---	---	---	2770	2810	---	---	---	2740
14	---	---	---	---	---	---	---	---	1050	2210	---	---
15	---	---	---	---	---	3390	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	2360	---	---	---	---	2740
19	---	---	---	---	---	---	---	2130	1020	2130	---	---
20	---	---	---	---	---	---	---	2380	---	2120	---	---
21	---	---	---	---	---	3450	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	2520	---	---	---	---	3070
24	---	---	---	---	---	---	---	1680	---	---	---	2930
25	---	3650	---	---	2870	3230	---	---	940	---	---	---
26	3180	---	---	---	---	3500	---	---	---	---	2370	---
27	---	---	---	---	---	---	---	---	---	2890	---	---
28	---	---	---	---	---	---	---	---	---	---	2640	---
29	---	---	---	---	---	---	3200	---	880	---	---	---
30	---	---	---	---	---	3580	---	1230	870	2870	---	2180
31	---	---	---	---	---	---	---	---	---	---	3010	---

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT					
26...	1430	62	10.0	836	141
NOV					
23...	1330	50	3.0	743	100
FEB					
25...	1300	156	2.5	743	313
MAR					
26...	1300	48	8.5	922	118
APR					
23...	1300	50	14.5	494	67
MAY					
20...	1400	120	16.5	1420	460
JUN					
29...	1330	826	21.5	3440	7670
JUL					
20...	1315	96	27.5	283	73
AUG					
26...	1000	98	20.5	7330	1940
SEP					
23...	1100	89	19.0	3940	947

DIRTY DEVIL RIVER BASIN

09329050 SEVEN MILE CREEK NEAR FISH LAKE, UTAH

LOCATION.--Lat 38°37'40", long 111°38'50", in SE¼SW¼SW¼ sec.13, T.25 S., R.2 E., Sevier County, Hydrologic Unit 14070003, on left bank 0.4 mi (0.6 km) upstream from bridge on State Highway 25, about 0.7 mi (1.1 km) upstream from Johnson Valley Reservoir, and 3.5 mi (5.6 km) northeast of north end of Fish Lake.

DRAINAGE AREA.--24.0 mi² (62.2 km²).

PERIOD OF RECORD.--October 1964 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 9,200 ft (2,804 m) from topographic map.

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

AVERAGE DISCHARGE.--18 years, 14.2 ft³/s (0.402 m³/s), 10,290 acre-ft/yr (12.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 225 ft³/s (6.37 m³/s) May 29, 1979, gage height, 3.30 ft (1.006 m); minimum, 1.9 ft³/s (0.054 m³/s) Nov. 16, 17, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 80 ft³/s (2.26 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 4	2300	87	2.46	2.33	0.710
May 25	2100	*212	6.00	3.22	.981
Aug. 19	2200	104	2.95	2.47	.753
Aug. 21	1900	90	2.55	2.36	.719
Sept. 27	0300	88	2.49	2.31	.704

Minimum daily, 4.4 ft³/s (0.12 m³/s) Apr. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	11	8.0	6.6	6.1	5.3	4.8	12	70	15	12	12
2	6.2	9.4	7.4	6.4	6.1	5.3	4.4	19	59	15	12	12
3	6.2	9.7	7.3	6.5	6.1	5.3	5.1	64	51	14	12	11
4	6.4	10	7.2	6.5	6.0	5.2	5.1	73	51	14	11	13
5	6.9	9.4	7.1	6.5	5.9	5.2	4.6	69	44	15	11	13
6	6.8	9.2	7.1	6.5	5.8	4.8	5.2	55	37	16	11	12
7	6.2	8.9	7.1	6.5	5.8	5.0	5.0	53	36	14	11	13
8	6.5	9.4	7.0	6.5	5.8	5.4	4.6	60	36	16	13	12
9	6.5	10	6.9	6.5	5.8	5.6	5.2	59	34	16	13	12
10	6.2	10	7.0	6.5	5.7	5.9	5.6	38	34	14	11	12
11	7.3	8.9	7.1	6.7	5.7	6.0	6.2	26	33	14	11	12
12	8.6	8.7	6.7	6.7	5.7	5.9	6.8	24	32	14	12	12
13	7.9	7.9	6.6	6.5	5.6	5.8	6.4	21	31	13	14	13
14	7.6	7.9	6.5	6.7	5.6	5.7	6.0	28	29	13	12	14
15	7.3	7.8	6.7	6.5	5.5	5.6	5.6	39	28	12	12	15
16	7.3	8.0	6.6	6.5	5.5	5.3	5.6	52	27	12	13	13
17	7.9	8.5	6.1	6.5	5.5	4.9	5.6	76	26	12	12	12
18	9.2	5.8	6.1	6.5	5.6	4.9	5.4	82	28	12	12	12
19	10	8.9	6.2	6.5	5.7	5.1	4.9	78	28	12	27	13
20	10	8.0	6.2	6.5	5.7	4.6	5.2	76	34	12	18	12
21	9.5	7.9	6.2	6.5	5.6	4.6	5.3	96	31	12	28	11
22	8.9	7.8	6.1	6.3	5.5	4.7	5.6	89	28	13	18	11
23	8.3	7.8	6.4	6.3	5.4	5.0	5.8	106	25	12	15	11
24	7.8	7.7	6.7	6.2	5.3	5.1	6.2	139	23	12	14	11
25	7.6	6.2	6.7	6.2	5.1	5.3	6.6	135	20	13	15	11
26	7.8	7.0	6.7	6.2	5.1	5.3	6.8	124	18	16	14	16
27	7.6	7.4	6.6	6.2	5.1	5.3	7.0	113	18	15	13	49
28	7.6	7.6	6.7	6.2	5.1	5.1	7.8	102	17	13	13	21
29	8.3	8.3	6.7	6.2	---	4.8	8.8	84	16	12	13	18
30	7.3	8.7	6.7	6.2	---	4.8	10	72	16	12	12	17
31	14	---	6.7	6.2	---	4.6	---	68	---	12	12	---
TOTAL	241.9	253.8	209.1	199.3	157.4	161.4	177.2	2132	960	417	427	426
MEAN	7.80	8.46	6.75	6.43	5.62	5.21	5.91	68.8	32.0	13.5	13.8	14.2
MAX	14	11	8.0	6.7	6.1	6.0	10	139	70	16	28	49
MIN	6.2	5.8	6.1	6.2	5.1	4.6	4.4	12	16	12	11	11
AC-FT	480	503	415	395	312	320	351	4230	1900	827	847	845

CAL YR 1981 TOTAL 4213.3 MEAN 11.5 MAX 92 MIN 5.5 AC-FT 8360
WTR YR 1982 TOTAL 5762.1 MEAN 15.8 MAX 139 MIN 4.4 AC-FT 11430

NOTE.--No gage-height record Feb. 3 to Mar. 16.

09330000 FREMONT RIVER NEAR BICKNELL, UTAH

LOCATION.--Lat 38°18'25", long 111°31'03", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ 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 mi² (1,945 km²).

PERIOD OF RECORD.--May 1909 to December 1912, published as "near Thurber", October 1937 to September 1958 (1944-46, fragmentary), October 1976 to current year.

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

GAGE.--Water-stage recorder and bubble gage. Altitude of gage is 6,920 ft (2,109 m) from topographic map. May 1909 to Dec. 1912, staff gage near present site at different datum. Oct. 1937 to June 28, 1949, staff gages on two canals and river station about 0.25 mi (0.65 km) downstream at different datums. June 28, 1949 to Apr. 29, 1958, water-stage recorders replaced staff gages on river and canal site using same datum. Apr. 29 to Sept. 30, 1958, staff gage on river at site 600 ft (183 m) farther downstream from water-stage recorder at datum 1.67 ft (0.509 m) lower.

REMARKS.--Records poor. Diversions for irrigation of about 10,600 acres (429 km²) above station. Flow regulated by Fish Lake and Johnson, Forsythe, and Mill Meadow Reservoirs.

AVERAGE DISCHARGE.--27 years (1909-12, 1937-43, 1946-58, 1976-82), 85.6 ft³/s (2.42 m³/s), 62,020 acre-ft/yr (76.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,200 ft³/s (34.0 m³/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 ft³/s (19.8 m³/s); minimum observed, 18 ft³/s (5.10 m³/s) June 2, 4, 13-15, 17, 18, 1912.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 796 ft³/s (22.5 m³/s) Aug. 17, gage height, 3.05 ft (0.930 m) from high-water mark; minimum daily, 43 ft³/s (1.22 m³/s) July 5, 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	71	59	76	71	75	72	147	63	47	46	67
2	61	70	63	66	71	75	70	163	61	45	52	69
3	63	69	68	66	77	73	72	197	68	44	57	70
4	60	68	70	63	75	69	70	187	64	45	56	70
5	58	69	70	76	76	68	66	154	58	43	56	75
6	59	74	72	78	59	66	66	111	58	44	55	83
7	59	81	72	68	58	71	65	76	61	46	55	82
8	59	80	74	47	59	76	68	61	61	47	56	80
9	60	75	72	53	63	75	71	58	58	49	59	84
10	61	74	75	65	66	74	68	64	58	47	60	83
11	83	74	75	65	71	74	71	66	57	46	61	80
12	89	72	75	64	66	74	70	57	59	50	65	76
13	78	72	72	60	67	74	68	50	57	52	78	76
14	78	73	71	61	74	74	65	56	58	48	78	77
15	82	72	74	65	84	75	63	75	56	47	88	80
16	89	70	73	67	86	75	64	98	57	46	109	82
17	86	70	65	73	80	72	63	89	55	49	111	82
18	82	68	65	73	79	73	64	91	55	52	92	78
19	78	64	72	70	80	71	75	98	54	54	73	78
20	74	64	79	67	83	71	86	89	56	53	77	76
21	70	67	80	72	88	73	67	78	61	54	77	74
22	69	72	64	68	88	73	66	79	60	56	74	72
23	69	74	59	65	88	72	65	76	57	58	72	70
24	69	68	58	73	81	71	65	67	53	63	79	70
25	68	66	65	77	79	71	67	64	50	61	72	75
26	68	58	65	81	79	74	89	64	48	58	75	77
27	69	61	68	80	78	75	125	66	46	58	79	108
28	71	61	66	77	76	74	170	64	46	62	76	94
29	80	64	69	81	---	73	223	64	45	61	75	87
30	74	60	78	70	---	72	197	64	46	52	72	87
31	72	---	76	77	---	74	---	64	---	43	70	---
TOTAL	2196	2081	2164	2144	2102	2257	2511	2737	1686	1580	2205	2362
MEAN	70.8	69.4	69.8	69.2	75.1	72.8	83.7	88.3	56.2	51.0	71.1	78.7
MAX	89	81	80	81	88	76	223	197	68	63	111	108
MIN	58	58	58	47	58	66	63	50	45	43	46	67
AC-FT	4360	4130	4290	4250	4170	4480	4980	5430	3340	3130	4370	4690
CAL YR 1981 TOTAL	25379		MEAN 69.5	MAX 98	MIN 46	AC-FT 50340						
WTR YR 1982 TOTAL	26025		MEAN 71.3	MAX 223	MIN 43	AC-FT 51620						

DIRTY DEVIL RIVER BASIN

09330230 FREMONT RIVER NEAR CAINEVILLE, UTAH

LOCATION.--Lat 38°16'40", long 111°04'00", in NE¼NE¼NE¼ sec.20, T.29 S., R.8 E., Wayne County, Hydrologic Unit 14070003, on right bank 2.0 mi (3.2 km) downstream from Pleasant Creek, 4.5 mi (7.2 km) southwest of Caineville, and 9.8 mi (15.8 km) east of Fruita, Utah.

DRAINAGE AREA.--1,208 mi² (3,129 km²).

PERIOD OF RECORD.--March 1967 to current year.

GAGE.--Water-stage recorder and bubble gage. Altitude of gage is 4,750 ft (1,448 m) from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--15 years, 67.1 ft³/s (1,900 m³/s), 48,610 acre-ft/yr (59.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,000 ft³/s (113 m³/s) Sept. 5, 1981, gage height, 6.90 ft (2.103 m), on basis of slope-area measurement of peak flow; minimum observed, 10 ft³/s (0.283 m³/s) June 9, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 500 ft³/s (14.2 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
June 19	2030	1,250	35.4	4.30	1.311	Aug. 16	1800	3,101	87.8	6.18	1.884
July 27	1630	2,620	74.2	5.79	1.765	Aug. 18	0200	920	26.1	3.62	1.103
Aug. 8	1700	*3,448	97.6	6.52	1.99	Aug. 25	1800	1,750	49.6	4.80	1.463
Aug. 14	1700	2,710	76.7	5.86	1.786	Sept. 5	1930	720	20.4	3.22	.981

Minimum daily, 20 ft³/s (0.57 m³/s) June 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	33	75	87	82	88	76	140	24	24	33	57
2	49	40	76	88	82	87	72	110	21	24	39	44
3	55	44	79	88	81	84	74	142	22	23	35	39
4	54	42	84	89	80	82	74	156	23	23	31	50
5	55	45	87	89	80	81	69	135	21	23	32	101
6	54	51	87	87	79	81	71	101	21	27	33	57
7	52	44	88	82	78	81	68	95	22	29	31	49
8	47	38	88	72	79	82	65	53	30	30	255	60
9	43	34	87	74	78	82	70	45	32	35	149	51
10	38	37	87	80	78	84	68	43	31	33	82	50
11	62	41	89	88	78	85	70	48	29	33	72	50
12	66	43	89	90	80	89	72	45	30	34	78	50
13	50	43	91	92	84	86	67	43	30	30	112	50
14	45	47	93	87	88	84	64	39	29	31	237	52
15	67	69	93	89	90	86	56	35	28	32	220	52
16	65	74	92	84	91	82	51	36	23	32	355	53
17	54	74	85	77	92	79	50	42	21	32	117	54
18	61	74	85	81	93	79	50	38	22	33	296	52
19	63	73	86	81	93	77	49	40	66	34	110	53
20	62	72	87	76	93	75	53	44	42	33	102	51
21	61	73	86	78	93	79	59	37	28	31	101	47
22	49	74	85	76	93	76	51	37	29	33	90	43
23	34	77	83	70	93	77	51	35	28	32	87	40
24	32	78	82	76	92	75	49	35	27	31	98	40
25	32	76	80	86	91	76	39	36	26	31	194	42
26	31	73	80	90	90	79	38	39	24	31	111	46
27	31	70	81	91	90	82	46	40	21	241	86	67
28	30	72	83	89	89	79	66	32	20	53	81	71
29	30	73	85	86	---	79	116	30	23	40	71	59
30	31	75	87	84	---	77	194	27	24	28	65	72
31	32	---	87	83	---	78	---	25	---	32	61	---
TOTAL	1475	1759	2647	2590	2410	2511	1998	1803	817	1178	3464	1602
MEAN	47.6	58.6	85.4	83.5	86.1	81.0	66.6	58.2	27.2	38.0	112	53.4
MAX	67	78	93	92	93	89	194	156	66	241	355	101
MIN	30	33	75	70	78	75	38	25	20	23	31	39
AC-FT	2930	3490	5250	5140	4780	4980	3960	3580	1620	2340	6870	3180
CAL YR 1981	TOTAL	21523	MEAN 59.0	MAX 338	MIN 12	AC-FT	42690					
WTR YR 1982	TOTAL	24254	MEAN 66.4	MAX 355	MIN 20	AC-FT	48110					

09330230 FREMONT RIVER NEAR CAINEVILLE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967-72, 1977 to September 1982 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: March 1967 to September 1969.

SUSPENDED-SEDIMENT DISCHARGE: March 1967 to May 1972, October 1977 to September 1981, once-daily, September 1981 to August 1982, periodically.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 31.0°C Aug. 12, 1967; minimum, 0.0°C on many days during winter period each year.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 129,000 mg/L July 20, 1969; minimum daily mean, 2 mg/L several days in September 1978, June 28, 1980.

SEDIMENT LOADS: Maximum, 239,000 tons (216,800 tonnes) Sept. 9, 1980; minimum daily, 0.07 ton (0.06 tonne) June 28, 1980.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (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 07...	1715	53	13.0	315	45	--	--	--	--	--	--	--
NOV 16...	1230	78	8.0	292	61	--	--	--	--	--	--	--
DEC 15...	1305	91	6.0	597	147	--	--	--	--	--	--	--
JAN 25...	1445	85	3.0	786	180	17	20	33	71	90	99	100
MAR 09...	1330	82	12.0	467	103	--	--	--	--	--	--	--
APR 13...	1600	69	12.5	164	31	--	--	--	--	--	--	--
MAY 18...	1745	40	18.0	58	6.3	--	--	--	--	--	--	--
JUN 22...	0930	30	15.5	759	61	31	38	55	84	98	100	--
JUL 21...	1000	31	21.0	383	32	--	--	--	--	--	--	--
AUG 27...	1000	84	17.5	311	71	--	--	--	--	--	--	--

DIRTY DEVIL RIVER BASIN

09330500 MUDDY CREEK NEAR EMERY, UTAH

LOCATION.--Lat 38°58'55", long 111°14'55", in NE¼NW¼NE¼ sec.21, T.21 S., R.6 E., Emery County, Hydrologic Unit 14070002, on left bank 100 ft (30 m) upstream from Emery Canal and 4.1 mi (6.6 km) north of Emery.

DRAINAGE AREA.--105 mi² (270 km²).

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 fair. One small diversion for irrigation and two storage reservoirs (total capacity 700 acre-ft (0.86 m)) above station.

AVERAGE DISCHARGE.--36 years (1910-13, 1949-82), 37.6 ft³/s (1.065 m³/s), 27,240 acre-ft/yr (33.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,340 ft³/s (94.6 m³/s) May 10, 1952, gage height, 11.14 ft (3.395 m), present datum from rating curve extended above 400 ft³/s (11.3 m³/s) on basis of slope-area measurement of peak flow; no flow Apr. 13-16, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 400 ft³/s (11.3 m³/s), 669 ft³/s (19.0 m³/s) Aug. 29, gage height, 5.16 ft (1.573 m) from floodmarks; minimum recorded, 2.3 ft³/s (0.065 m³/s) Mar. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	12	10	7.0	8.0	8.0	11	105	190	166	54	36
2	18	14	11	6.0	8.0	9.0	9.6	105	188	130	72	31
3	190	11	11	4.0	7.0	8.0	10	133	176	126	80	30
4	30	10	10	4.0	7.0	7.0	10	173	176	123	58	30
5	14	10	11	4.0	6.0	8.0	11	140	181	120	52	28
6	13	11	11	4.0	5.0	9.0	10	116	174	117	48	28
7	13	13	10	3.0	4.0	10	9.6	98	173	111	46	28
8	13	14	10	3.0	5.0	9.0	10	116	174	116	45	27
9	13	14	11	3.0	7.0	12	10	98	174	110	52	26
10	13	12	12	4.0	6.0	11	12	98	178	104	54	24
11	43	11	13	4.0	5.0	9.8	14	82	185	101	45	22
12	27	9.0	11	4.0	6.0	9.9	19	74	187	97	48	25
13	20	11	11	5.0	5.0	11	26	83	185	92	54	30
14	16	12	10	4.0	5.0	11	30	76	182	90	50	34
15	37	13	10	3.0	7.0	11	29	95	176	87	47	36
16	30	12	11	5.0	5.0	9.1	24	102	177	84	47	36
17	16	13	7.0	4.0	7.0	9.6	26	120	181	82	46	34
18	13	12	9.0	6.0	6.0	9.6	24	120	183	80	46	33
19	12	10	10	4.0	8.0	11	26	108	183	78	45	32
20	10	8.0	8.0	8.0	7.0	10	24	111	185	79	43	37
21	14	10	7.0	7.0	10	10	22	130	187	75	42	50
22	11	9.0	7.0	9.0	13	8.2	24	153	183	74	46	51
23	10	10	6.0	7.0	21	11	27	160	178	75	52	48
24	10	11	5.0	5.0	17	12	34	194	176	73	48	46
25	10	10	8.0	5.0	14	11	51	203	173	77	46	45
26	12	9.0	6.0	9.0	10	12	52	212	171	74	44	51
27	9.0	10	5.0	15	9.0	10	76	206	171	88	43	55
28	12	12	6.0	10	10	10	88	209	170	70	40	51
29	10	13	6.0	7.0	---	11	90	196	170	62	50	53
30	10	13	10	9.0	---	9.0	82	192	171	58	47	59
31	8.0	---	8.0	9.0	---	10	---	183	---	57	45	---
TOTAL	677.0	339.0	281.0	181.0	228.0	307.2	891.2	4191	5358	2876	1535	1116
MEAN	21.8	11.3	9.06	5.84	8.14	9.91	29.7	135	179	92.8	49.5	37.2
MAX	190	14	13	15	21	12	90	212	190	166	80	59
MIN	8.0	8.0	5.0	3.0	4.0	7.0	9.6	74	170	57	40	22
AC-FT	1340	672	557	359	452	609	1770	8310	10630	5700	3040	2210

CAL YR 1981 TOTAL 9056.0 MEAN 24.8 MAX 240 MIN 4.0 AC-FT 17960
WTR YR 1982 TOTAL 17980.4 MEAN 49.3 MAX 212 MIN 3.0 AC-FT 35660

NOTE.--No gage-height record Oct. 13 to Mar. 10.

DIRTY DEVIL RIVER BASIN

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09331850 CONVULSION CANYON NEAR EMERY, UTAH

LOCATION.--Lat 38°54'23", Long 111°24'40", in NE¼SW¼SE¼ sec.12, T.22 S., R.4 E., Sevier County, Hydrologic Unit 14070002, on left bank about 3.5 mi (5.6 km) downstream from Acord Lake junction, 9.5 mi (15.3 km) to I-70, 30 mi (48 km) southwest of Emery.

DRAINAGE AREA.--21.5 mi² (55.7 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to current year (seasonal).

GAGE.--Water-stage recorder. Altitude of gage is 7,120 ft (2,170 m) from topographic map.

REMARKS.--Records good.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6.0 ft³/s (0.17 m³/s) Aug. 22, gage height, 1.27 ft (0.387 m); minimum daily, 0.01 ft³/s (<0.001 m³/s) Sept 22-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.0					---	1.1	1.6	.42	1.4	.94
2	1.0	.98					---	1.8	1.4	.34	1.1	1.4
3	1.5	.98					---	2.0	.96	.52	1.2	1.4
4	.95	1.3					---	2.2	1.4	.68	1.2	.88
5	.86	1.1					---	1.4	.46	.83	1.1	1.0
6	.91	.94					---	.73	.55	.80	1.2	1.0
7	1.2	.70					---	1.0	.43	1.1	1.2	.96
8	1.1	.75					---	.46	1.2	1.6	1.6	.66
9	1.2	1.3					---	1.1	1.1	1.1	1.3	.66
10	.92	.86					---	1.0	1.6	.91	1.4	.58
11	1.6	.88					---	.75	1.3	1.5	1.4	.54
12	.98	1.2					---	1.1	1.2	1.2	1.3	.54
13	.92	.91					---	1.2	.84	1.1	1.4	.54
14	1.1	.70					---	.65	1.8	1.4	1.2	.37
15	1.2	.78					---	.39	1.8	1.2	1.3	.34
16	1.2	1.1					---	.83	1.7	1.4	1.4	.07
17	1.2	.80					---	.99	1.2	1.3	1.2	.07
18	1.1	---					---	1.0	1.3	1.4	1.1	.05
19	.73	---					---	1.1	1.1	1.4	1.1	.03
20	1.4	---					---	.93	1.6	1.5	1.2	.03
21	1.1	---					.94	1.3	1.6	1.5	1.3	.03
22	1.1	---					.64	.79	1.6	1.3	1.8	.01
23	1.2	---					.94	1.2	1.3	1.7	1.1	.01
24	1.1	---					1.2	.86	1.0	1.6	1.0	.01
25	1.1	---					1.2	.91	1.2	1.2	.96	.01
26	1.1	---					1.1	1.2	.96	1.3	.96	.11
27	1.2	---					.93	1.4	1.6	1.9	1.1	.27
28	.94	---					.80	1.0	1.5	1.7	1.1	.34
29	1.1	---					.83	.70	1.7	.74	1.3	.31
30	1.1	---					1.4	1.1	.69	1.3	.89	.58
31	1.0	---					---	1.6	---	1.6	1.0	---
TOTAL	34.61	---					---	33.79	37.69	37.54	37.81	13.74
MEAN	1.12	---					---	1.09	1.26	1.21	1.22	.46
MAX	1.6	---					---	2.2	1.8	1.9	1.8	1.4
MIN	.73	---					---	.39	.43	.34	.89	.01
AC-FT	69	---					---	67	75	74	75	27

DIRTY DEVIL RIVER BASIN

09331850 CONVULSION CANYON NEAR EMERY, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	PHENOLS (UG/L)
MAY				
19...	1130	2.4	.2	--
JUL				
14...	1330	2.6	.2	2

BENTHIC-INVERTEBRATE ANALYSES, OCTOBER 1981 TO JULY 1982

DATE	JUL 14, 82
TIME	1400
TOTAL COUNT	8
DIVERSITY: PHYLUM	0.0
..CLASS	0.0
...ORDER	1.5
...FAMILY	1.5
....GENUS	1.5
....GENUS-INSECTA	1.5

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
..INSECTA	
...COLEOPTERA	
....HYDRAENIDAE	
....HYDRAENA	1
...DIPTERA	
...CHIRONOMIDAE	
....ORTHOCLADIUS	1
...EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	5
...ODONATA	
...COENAGRIONIDAE	
....HYPONEURIA	1

09331950 CHRISTIANSEN WASH NEAR EMERY, UTAH

LOCATION.--Lat 38°51'41", long 111°15'07", in NE¼SE¼NW¼ sec.33, T.22 S., R.6 E., Emery County, Hydrologic Unit 14070002, on right bank 0.3 mi (0.5 km) upstream from mouth, at the Consol coal mine, 4.5 mi (7.2 km) south of Emery.

DRAINAGE AREA.--13.6 mi² (35.2 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1978 to current year.

REVISED RECORDS.--WDR UT-81-1: 1979-80(P), 1979-80.

GAGE.--Water-stage recorder. Altitude of gage is 5,920 ft (1,804 m) from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,540 ft³/s (43.6 m³/s) Sept. 8, 1981, gage height, 8.83 ft (2.691 m); minimum, 0.29 ft³/s (0.008 m³/s) July 21-23, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 40 ft³/s (1.13 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Oct. 3	1615	*68	1.93	3.10	0.945
Aug. 25	1545	44	1.25	2.54	.774

Minimum daily, 0.70 ft³/s (0.020 m³/s) Dec. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	2.1	1.7	1.5	2.8	5.0	1.8	2.3	3.8	7.2	2.6	3.8
2	1.2	4.9	1.9	1.2	3.5	5.5	1.5	2.4	4.9	4.4	2.8	3.2
3	5.1	4.5	1.6	1.0	3.2	5.0	1.4	3.5	6.2	2.9	3.8	2.7
4	4.4	3.7	1.3	.90	2.9	4.7	1.5	7.0	6.4	4.4	3.4	2.9
5	1.8	3.7	1.6	1.3	2.5	5.8	1.7	11	7.0	5.7	3.2	2.7
6	1.6	3.8	1.9	1.2	2.2	4.0	1.4	4.4	10	5.7	3.4	2.5
7	1.5	4.2	2.0	1.1	3.0	3.5	1.3	5.5	9.3	5.7	4.1	2.3
8	1.4	3.2	2.0	1.0	3.5	5.2	1.4	4.3	7.6	7.2	7.6	2.3
9	1.4	2.0	2.0	1.1	4.0	4.5	1.4	2.5	7.0	6.8	3.0	2.4
10	1.7	2.0	2.2	1.5	3.0	4.3	1.6	4.4	6.8	8.0	2.8	2.6
11	11	2.3	2.1	1.8	2.5	4.0	1.4	5.5	6.6	9.8	2.3	2.3
12	2.0	2.3	2.0	2.2	2.2	3.9	1.2	5.7	6.6	7.5	2.5	2.4
13	1.6	2.6	1.8	2.0	2.7	3.1	1.6	5.6	6.6	4.9	2.8	2.6
14	1.7	2.7	1.8	2.4	3.1	3.6	1.4	4.4	8.0	4.7	3.2	2.9
15	2.0	2.7	2.1	2.1	3.4	4.4	2.2	7.3	7.0	5.6	2.5	2.0
16	3.5	2.6	1.8	2.4	4.0	3.7	1.8	6.8	7.0	3.2	2.3	2.2
17	2.1	2.6	1.6	2.9	4.6	3.2	2.0	4.2	7.6	3.6	3.4	2.4
18	1.9	2.7	1.4	2.7	3.7	3.3	1.9	5.1	8.4	4.2	3.3	2.0
19	2.2	1.9	1.8	2.2	4.2	3.1	2.1	5.1	10	2.7	3.7	2.1
20	2.2	1.5	2.1	2.0	4.7	3.1	1.8	4.3	9.6	3.7	3.9	2.2
21	2.4	1.4	1.7	2.5	5.2	2.6	3.4	4.2	9.0	3.0	3.5	3.2
22	2.4	1.6	1.3	3.2	5.7	2.1	7.6	4.3	9.0	3.0	2.9	2.5
23	1.9	1.9	1.0	2.5	6.8	2.4	3.9	3.4	8.0	3.7	4.0	3.2
24	1.6	1.8	.70	2.3	4.5	2.6	2.8	3.4	6.6	5.2	4.8	3.8
25	1.4	1.6	1.1	2.6	3.7	2.1	2.8	2.5	7.0	5.1	6.2	4.0
26	1.4	1.3	1.3	3.3	4.0	2.4	4.0	2.8	7.0	3.9	5.9	4.0
27	1.7	1.5	1.3	4.1	4.5	1.8	7.8	4.0	7.2	1.9	5.8	5.1
28	1.6	1.9	1.1	3.3	3.5	1.7	12	3.7	7.0	3.2	6.1	4.2
29	2.4	1.7	1.3	2.6	---	1.9	14	3.0	7.2	3.4	5.7	4.5
30	2.7	1.5	1.4	2.4	---	1.6	2.4	3.2	7.4	3.2	9.2	8.6
31	1.5	---	1.3	2.3	---	1.6	---	4.4	---	1.8	6.7	---
TOTAL	72.10	74.2	50.20	65.60	103.6	105.7	93.1	140.2	221.8	145.3	127.4	93.6
MEAN	2.33	2.47	1.62	2.12	3.70	3.41	3.10	4.52	7.39	4.69	4.11	3.12
MAX	11	4.9	2.2	4.1	6.8	5.8	14	11	10	9.8	9.2	8.6
MIN	.80	1.3	.70	.90	2.2	1.6	1.2	2.3	3.8	1.8	2.3	2.0
AC-FT	143	147	100	130	205	210	185	278	440	288	253	186

CAL YR 1981 TOTAL 701.24 MEAN 1.92 MAX 84 MIN .29 AC-FT 1390
WTR YR 1982 TOTAL 1292.80 MEAN 3.54 MAX 14 MIN .70 AC-FT 2560

09331950 CHRISTIANSEN WASH NEAR EMERY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to current year.

SEDIMENT DATA: December 1978 to September 1981, periodically (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CACO3)	
JUL											
01...	1230	7.6	1910	8.5	22.5	17.0	7.2	615	2.2	650	
23...	1200	5.2	1960	8.5	30.0	20.5	6.7	619	4.7	750	
AUG											
18...	1215	3.3	2280	8.5	29.5	19.5	7.2	620	6.6	860	
DATE		CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE FET-FLD AS HCO3)	CAR- BONATE FET-FLD (MG/L AS CO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	
JUL											
01...	99	98	210	41	3.7	6.9	340	1	281		
23...	120	110	210	38	3.4	5.9	--	--	--		
AUG											
18...	130	130	250	39	3.8	5.4	--	--	--		
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)	
JUL											
01...	1.7	760	34	.4	12	1450	1400	2.0	29.7		
23...	--	840	30	.5	12	1610	--	2.2	22.6		
AUG											
18...	--	990	40	.6	13	1650	--	2.2	14.8		
DATE		NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	
JUL											
01...	.060	1.9	2.00	1.7	.30	1.9	.210	.64	.080		
23...	.100	2.4	2.50	1.3	1.2	3.5	.120	.37	.020		
AUG											
18...	.140	2.8	2.90	.10	2.8	3.8	.090	.28	.070		
DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)
JUL											
01...	1230	2	0	2	--	--	--	<10	<1	210	1
23...	1200	--	--	--	--	--	--	--	--	240	--
AUG											
18...	1215	1	0	1	<1	<100	<100	<10	<10	330	<1
DATE	TIME	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
JUL											
01...	<1	--	10	<10	--	--	5	3	2	--	2900
23...	--	--	--	--	--	--	--	--	--	--	1100
AUG											
18...	<1	1	20	<10	2	<10	2	0	2	2	350

DIRTY DEVIL RIVER BASIN

09331950 CHRISTIANSEN WASH NEAR EMERY, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM SUS- PENDE RECOV- ERABLE (UG/L AS LI)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
JUL 01...	2900	30	--	2	0	2	--	--	--	--	130
23...	1100	40	--	--	--	--	--	--	--	--	80
AUG 18...	340	10	770	<1	--	<1	10	160	0	160	40

DATE	MANGA- NESE, SUS- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE)
JUL 01...	100	26	--	.1	--	<.1	--	11	8	3	5
23...	40	40	--	--	--	--	--	--	--	--	--
AUG 18...	20	20	150	.1	.0	.1	<.01	3	--	<1	11

DATE	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	STRON- TIUM, TOTAL RECOV- ERABLE (UG/L AS SR)	STRON- TIUM, SUS- PENDE RECOV. (UG/L AS SR)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
JUL 01...	0	5	--	--	--	--	30	0	46	--
23...	--	--	--	--	--	--	--	--	--	--
AUG 18...	0	11	<1	1400	0	1600	10	0	10	3

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)
JUL 01...	1230	14	.8	--	--
23...	1200	15	.4	--	2
AUG 18...	1215	13	.3	<.01	22

DIRTY DEVIL RIVER BASIN

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09331950 CHRISTIANSEN WASH NEAR EMERY, UT--Continued

BENTHIC INVERTEBRATE ANALYSES, OCTOBER 1981 TO AUGUST 1982

DATE TIME	JUL 23,82 1200	AUG 18,82 1215
TOTAL COUNT	5	8
DIVERSITY: PHYLUM	0.0	0.5
.CLASS	0.0	0.5
..ORDER	1.0	1.8
...FAMILY	0.0	2.5
....GENUS	0.0	2.5
....GENUS-INSECTA	0.0	2.2

ORGANISM	COUNT	COUNT
ANNELIDA		
.OLIGOCHAETA		
..PLESIOPODA		
...NAIDIDAE		
....UNKNOWN GENUS	--	1
ARTHROPODA (ARTHROPODS)		
.INSECTA		
..DIPTERA		
...CHIRONOMIDAE	3	--
....CRICOTOPUS	--	2
...EMPIDIDAE		
....UNKNOWN GENUS	--	1
..PLECOPTERA		
...PERLODIDAE		
....ISOGENOIDES	--	1
..TRICHOPTERA	2	--
...HYDROPSYCHIDAE		
....SYMPHITOPSYCHE	--	2
...HYDROPTILIDAE		
....HYDROPTILA	--	1

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	COAL IN BOTTOM MATE- RIAL (GM/KG)
AUG 18...	1215	3.3	19.5	2.80

09332100 MUDDY CREEK BELOW INTERSTATE HIGHWAY I-70, NEAR EMERY, UTAH

LOCATION.--Lat 38°48'44", long 111°11'53", in SW¼NE¼SW¼ sec.13, T.23 S., R.6 E., Emery County, Hydrologic Unit 14070002, on left bank 0.1 mi (0.2 km) downstream from bridge on Interstate Highway I-70, 0.2 mi (0.3 km) downstream from Ivie Creek, and 12.2 mi (19.6 km) southeast of Emery.

DRAINAGE AREA.--418 mi² (1,083 km²).

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 fair.

AVERAGE DISCHARGE.--20 years, 17.1 ft³/s (0.484 m³/s), 12,400 acre-ft/yr (15.3 hm³/yr), includes record for station 09332500, 1950-61, 11 years, 15.4 ft³/s (0.436 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,400 ft³/s (266 m³/s) Sept. 5, 1981, gage height, 11.25 ft (3.429 m) from floodmark, from slope-area measurement of peak flow; no flow several days in 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 290 ft³/s (8.21 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Oct. 4	2200	1,160	32.8	5.22	1.591
Aug. 16	2030	*1,690	47.9	6.00	1.829
Sept. 30	1000	415	11.8	3.56	1.085

Minimum daily, 2.8 ft³/s (0.079 m³/s) Dec. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	5.4	6.0	6.8	12	38	14	53	107	82	7.2	9.0
2	5.3	11	5.6	6.0	14	32	10	74	108	73	13	6.9
3	25	12	6.2	4.5	12	30	9.5	78	102	67	20	8.5
4	78	9.6	5.8	4.0	10	27	10	119	92	59	8.7	7.4
5	15	8.8	6.6	5.6	6.2	23	7.8	162	93	64	8.4	8.1
6	6.6	11	7.8	4.5	5.4	19	12	125	88	63	7.9	9.2
7	4.1	12	7.7	3.8	8.0	17	9.7	82	84	56	8.1	6.9
8	4.5	10	7.9	3.2	10	16	6.9	88	80	49	23	7.8
9	5.3	7.4	8.0	3.8	11	22	9.5	96	80	40	15	4.6
10	4.1	10	8.4	4.9	9.0	16	7.0	73	81	33	8.7	4.9
11	120	9.8	8.0	6.4	8.6	19	9.3	62	85	26	7.3	3.7
12	170	8.6	7.0	5.8	7.4	19	12	50	91	23	20	4.6
13	40	9.4	8.0	7.7	8.8	16	20	34	98	21	21	5.5
14	25	11	8.0	5.7	10	18	26	35	99	16	27	8.6
15	70	9.2	8.0	6.2	13	24	30	48	92	14	12	6.6
16	80	10	6.6	7.2	15	18	29	49	89	16	54	8.2
17	20	11	5.4	8.2	16	13	24	72	96	12	24	8.0
18	15	10	6.0	9.8	18	15	27	95	100	13	22	5.1
19	12	6.8	7.0	8.2	20	9.5	25	85	114	12	13	9.5
20	11	5.2	7.4	7.2	30	10	23	83	111	12	13	9.3
21	10	5.6	7.0	12	38	10	16	84	107	11	13	6.7
22	9.0	6.0	6.8	9.0	47	9.2	19	100	108	8.7	10	7.1
23	9.0	5.8	3.4	8.5	63	10	19	97	99	10	25	6.8
24	9.9	6.4	2.8	7.0	56	12	18	137	89	12	16	7.1
25	7.4	5.6	4.5	9.0	50	12	38	133	86	13	24	7.7
26	8.7	5.0	5.0	12	45	15	54	134	82	14	18	12
27	7.9	5.4	4.5	16	43	15	50	148	83	19	16	35
28	7.1	6.2	3.5	14	41	12	60	144	83	14	12	19
29	8.0	7.1	4.5	10	---	14	62	118	78	14	21	21
30	10	5.4	5.0	11	---	9.4	39	111	77	9.2	41	66
31	4.7	---	4.5	9.5	---	10	---	107	---	7.8	14	---
TOTAL	806.3	246.7	192.9	237.5	627.4	530.1	696.7	2876	2782	883.7	543.3	330.8
MEAN	26.0	8.22	6.22	7.66	22.4	17.1	23.2	92.8	92.7	28.5	17.5	11.0
MAX	170	12	8.4	16	63	38	62	162	114	82	54	66
MIN	3.7	5.0	2.8	3.2	5.4	9.2	6.9	34	77	7.8	7.2	3.7
AC-FT	1600	489	383	471	1240	1050	1380	5700	5520	1750	1080	656

CAL YR 1981	TOTAL	4216.76	MEAN 11.6	MAX 400	MIN .74	AC-FT 8360
WTR YR 1982	TOTAL	10753.40	MEAN 29.5	MAX 170	MIN 2.8	AC-FT 21330

LOCATION.--Lat 38°33'47", long 110°57'13", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ 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) southwest of Green River.

WATER-DISCHARGE RECORDS

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 1,500 ft³/s (42.4 m³/s), 2,960 ft³/s (83.8 m³/s) Oct. 11, gage height, 6.31 ft (1.923 m) from floodmarks; no flow on several days during September.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	8.3	3.5	6.4	10	39	12	46	86	74	5.0	.49
2	3.4	6.3	4.0	4.5	12	33	13	66	84	66	9.0	.21
3	3.5	7.0	4.2	3.5	10	32	13	76	84	58	19	.04
4	65	10	4.0	4.0	8.0	28	12	108	74	53	10	1.9
5	174	10	4.5	5.1	6.0	23	11	153	66	49	5.0	.19
6	24	10	4.8	4.0	5.0	19	11	149	68	52	4.5	.05
7	9.5	17	4.5	3.5	6.0	18	12	97	63	50	4.0	.06
8	6.1	13	4.0	2.5	8.0	17	12	70	60	44	14	.94
9	4.3	11	4.2	3.5	10	22	10	82	58	36	25	.10
10	3.9	9.7	4.6	4.0	7.0	18	11	78	60	32	9.0	.00
11	136	9.2	4.4	5.6	8.0	20	10	60	60	24	3.3	.00
12	194	10	3.5	5.4	7.0	19	10	50	63	22	5.0	.00
13	33	10	4.0	7.2	7.4	18	12	39	68	20	8.7	.00
14	18	10	4.2	5.0	8.0	17	20	16	74	15	12	.00
15	27	11	4.0	5.9	12	19	29	16	70	12	35	.05
16	78	11	3.5	6.6	15	25	32	25	65	13	61	.03
17	32	10	3.0	7.0	16	18	29	28	65	11	4.7	.00
18	16	12	3.6	8.4	17	14	24	58	143	7.4	9.2	.00
19	12	10	4.0	8.0	27	15	25	66	273	7.4	6.3	.00
20	12	9.2	4.2	7.2	35	11	23	63	121	7.4	3.9	9.0
21	11	6.6	3.5	11	37	11	20	60	116	6.6	3.2	8.0
22	11	5.6	1.0	8.8	48	11	15	65	105	5.6	15	6.0
23	11	5.2	.70	7.4	66	11	17	74	105	4.8	84	3.5
24	10	5.8	.90	6.2	63	11	18	93	97	4.5	70	3.0
25	9.2	5.2	1.5	8.0	49	13	18	113	80	4.5	153	8.0
26	8.7	4.4	2.0	10	49	14	48	108	74	5.6	14	25
27	7.8	4.8	2.0	14	46	20	63	121	70	253	.88	32
28	8.3	5.6	1.5	13	46	18	72	124	72	15	.46	6.0
29	7.8	4.0	2.2	11	---	14	74	110	68	9.0	.53	12
30	7.4	3.0	2.4	10	---	15	58	95	66	6.2	2.5	44
31	8.3	---	4.0	9.0	---	13	---	86	---	5.0	2.1	---
TOTAL	955.5	254.9	102.40	215.7	638.4	576	734	2395	2558	973.0	599.27	160.56
MEAN	30.8	8.50	3.30	6.96	22.8	18.6	24.5	77.3	85.3	31.4	19.3	5.35
MAX	194	17	4.8	14	66	39	74	153	273	253	153	44
MIN	3.3	3.0	.70	2.5	5.0	11	10	16	58	4.5	.46	.00
AC-FT	1900	506	203	428	1270	1140	1460	4750	5070	1930	1190	318
CAL YR 1981	TOTAL	5878.87		MEAN	16.1	MAX	900	MIN	.00	AC-FT	11660	
WTR YR 1982	TOTAL	10162.73		MEAN	27.8	MAX	273	MIN	.00	AC-FT	20160	

DIRTY DEVIL RIVER BASIN

09332700 MUDDY CREEK AT DELTA MINE, NEAR HANKSVILLE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.

SEDIMENT DATA: October 1975 to current year, periodically.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM
OCT 02...	1100	3.4	5060	8.2	15.5	16.0	1700	1500	440	140	650	46
NOV 13...	1000	9.9	4840	8.3	13.0	5.5	1400	1300	330	150	600	47
JAN 28...	1300	17	4010	8.1	7.5	.0	1100	840	250	110	530	52
MAR 10...	1500	14	3420	8.3	15.5	8.5	970	760	190	120	470	51
APR 15...	1100	34	2730	8.3	16.5	10.5	770	580	150	95	350	50
MAY 27...	1330	106	1040	8.1	31.0	16.5	370	180	87	38	89	34
JUN 30...	1300	65	1360	8.3	25.0	18.0	430	230	91	49	140	41
JUL 16...	1230	11	3120	8.3	35.5	22.0	840	670	170	100	380	49
AUG 11...	1300	3.3	5010	8.1	33.0	22.5	1500	1300	400	110	450	40

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 02...	6.9	11	130	2100	600	.4	11	4030	5.5	36.5	.26	.030
NOV 13...	6.9	7.9	180	1700	650	.3	5.1	3560	4.8	94.9	.94	<.010
JAN 28...	7.0	5.8	240	1300	500	.4	9.7	2850	3.9	129	.88	<.010
MAR 10...	6.6	5.7	210	1300	340	.5	9.3	2570	3.5	99.9	.76	<.010
APR 15...	5.5	4.9	190	1000	190	.5	8.0	1920	2.6	174	.68	.010
MAY 27...	2.2	3.0	195	310	39	.3	8.0	694	.94	199	.44	.030
JUN 30...	3.3	3.3	200	430	71	.3	7.8	914	1.2	160	.32	.020
JUL 16...	5.7	7.5	167	1100	240	.4	10	2110	2.9	64.9	.70	.030
AUG 11...	5.1	13	123	1900	280	.5	12	3260	4.4	28.7	3.7	.020

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT 02...	1100	380
NOV 13...	1000	370
JAN 28...	1300	300
MAR 10...	1500	230
APR 15...	1100	230
MAY 27...	1330	90
JUN 30...	1300	120
JUL 16...	1230	290
AUG 11...	1300	340

09332700 MUDDY CREEK AT DELTA MINE, NEAR HANKSVILLE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
NOV 13...	1000	9.9	5.5	891	24	--	--	--	--	--	--	--
MAR 10...	1500	14	8.5	734	29	64	83	96	99	--	--	--
APR 15...	1100	34	10.5	4270	386	60	75	97	99	100	--	--
MAY 27...	1330	106	16.5	6080	1740	24	27	33	70	95	100	--
JUN 30...	1300	65	18.0	876	154	41	47	56	71	87	98	100
JUL 16...	1230	11	22.0	484	15	--	--	--	--	--	--	--

09333500 DIRTY DEVIL RIVER ABOVE POISON SPRING WASH, NEAR HANKSVILLE, UTAH

LOCATION.--Lat 38°05'50", long 110°24'27", in NE¼SW¼SE¼ sec.20, T.31 S., R.14 E., Garfield County, Hydrologic Unit 14070004, on right bank 0.25 mi (0.4 km) upstream from Poison Spring Wash and 25.5 mi (41.0 km) southeast of Hanksville.

DRAINAGE AREA.--4,159 mi² (10,772 km²).

PERIOD OF RECORD.--June 1948 to current year. Prior to October 1968 published as "near Hite."

REVISED RECORDS.--WDR UT-77-1: Drainage area. WDR UT-80-1: 1979, 1977-79(P).

GAGE.--Water-stage recorder and mercury manometer. Altitude of gage is 3,850 ft (1,173 m) from topographic map. Prior to July 15, 1964, at site 28 mi (45 km) downstream at different datum. July 15, 1964 to Dec. 14, 1976, approximately 1,200 ft (360 m) upstream at datum 4.83 ft (1.472 m) higher. Dec. 15, 1976 to Sept. 30, 1980 at site 400 ft (120 m) upstream at datum 4.28 ft (1.305 m) higher.

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

AVERAGE DISCHARGE.--34 years, 96.7 ft³/s (2.739 m³/s), 70,060 acre-ft/yr (86.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 35,000 ft³/s (991 m³/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 ft³/s (255 m³/s) on basis of slope-area measurement at gage height 20.65 ft (6.294 m); no flow at times many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 2,700 ft³/s (76.5 m³/s), 2,860 ft³/s (81.0 m³/s) datum unknown, gage height, 9.74 ft (2.969 m) from floodmarks; minimum daily, 27.0 ft³/s (0.76 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	82	86	102	101	158	87	196	90	41	58	105
2	106	82	88	101	103	152	91	187	81	40	66	74
3	398	89	91	100	100	144	81	187	76	41	72	74
4	169	98	97	102	97	138	82	222	68	41	60	90
5	106	90	100	103	95	125	84	232	65	42	60	140
6	165	94	100	100	92	96	82	243	55	43	61	100
7	103	104	101	94	92	88	73	237	67	44	60	80
8	80	118	101	81	96	106	62	182	84	46	1200	90
9	58	112	100	85	97	98	65	131	61	47	300	85
10	45	99	100	92	93	102	78	122	69	47	150	81
11	44	92	102	103	95	97	73	112	62	46	118	78
12	528	92	101	104	96	101	79	102	59	45	150	76
13	259	96	104	108	121	97	74	90	79	44	200	76
14	115	93	106	101	139	97	73	80	73	44	265	75
15	92	96	106	104	147	97	81	72	76	43	320	74
16	515	88	105	100	143	107	92	50	81	42	400	73
17	262	91	97	92	155	113	78	39	66	43	510	73
18	130	92	97	98	193	104	72	48	135	42	250	73
19	97	90	99	98	198	95	66	57	499	42	1010	73
20	87	89	100	91	205	97	49	57	140	42	150	73
21	85	90	98	98	196	88	51	67	64	43	135	69
22	85	88	95	93	185	79	63	57	55	43	125	64
23	83	92	92	85	184	89	72	58	49	45	120	60
24	86	93	91	90	215	89	70	64	48	46	118	56
25	83	98	89	103	187	90	72	58	45	47	118	60
26	88	71	90	110	173	86	61	97	40	50	710	65
27	85	82	91	115	163	109	51	92	37	560	200	70
28	81	85	92	112	164	113	68	103	39	200	110	90
29	82	85	96	107	---	103	98	119	40	80	98	72
30	83	87	98	103	---	98	148	122	41	54	90	70
31	80	---	100	101	---	80	---	94	---	55	84	---
TOTAL	4307	2758	3013	3076	3925	3236	2276	3577	2444	2088	7368	2339
MEAN	139	91.9	97.2	99.2	140	104	75.9	115	81.5	67.4	238	78.0
MAX	528	118	106	115	215	158	148	243	499	560	1200	140
MIN	27	71	86	81	92	79	49	39	37	40	58	56
AC-FT	8540	5470	5980	6100	7790	6420	4510	7090	4850	4140	14610	4640

CAL YR 1981 TOTAL 33343.30 MEAN 91.4 MAX 2700 MIN .00 AC-FT 66140
WTR YR 1982 TOTAL 40407.00 MEAN 111 MAX 1200 MIN 27 AC-FT 80150

NOTE.--No gage-height record Nov. 27 to Feb. 12, and June 14 to Sept. 30.

ESCALANTE RIVER BASIN

227

09337000 PINE CREEK NEAR ESCALANTE, UTAH

LOCATION.--Lat 37°51'45", long 111°38'07", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ 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 mi² (176 km²).

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 fair. No diversion above station.

AVERAGE DISCHARGE.--30 years, 4.55 ft³/s (0.129 m³/s), 3,300 acre-ft/yr (4.07 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,010 ft³/s (28.6 m³/s) Aug. 2, 1967, gage height, 7.72 ft (2.353 m), from rating curve extended above 35 ft³/s (0.99 m³/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, 100 ft³/s (2.83 m³/s) May 1, gage height, 3.50 ft (1.067 m), no peak above base of 100 ft³/s (2.83 m³/s); minimum daily, 2.4 ft³/s (0.068 m³/s) Jan. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	4.3	3.1	3.9	3.5	3.6	4.3	47	11	5.0	7.1	4.8
2	7.2	4.1	2.9	2.9	3.7	3.7	4.1	62	10	4.7	7.8	4.5
3	5.1	4.0	3.2	2.6	3.4	3.5	4.2	52	10	4.7	7.7	4.4
4	4.9	4.0	3.3	3.5	2.9	3.4	4.5	55	9.6	4.6	7.0	5.3
5	6.2	4.0	3.8	4.4	2.7	3.1	4.5	45	9.3	4.7	6.7	7.4
6	4.5	4.7	3.2	3.8	3.0	3.3	4.4	39	9.2	4.6	6.6	6.4
7	4.1	4.7	3.3	3.0	3.3	4.7	4.4	37	9.0	4.5	6.5	8.9
8	4.1	4.5	3.2	2.4	3.8	3.9	4.0	39	8.7	5.5	6.4	7.1
9	4.0	4.3	3.8	3.3	3.2	3.8	4.5	36	8.4	5.7	6.7	6.2
10	4.0	4.3	4.5	3.7	4.0	4.0	4.7	29	8.2	5.4	6.4	5.3
11	8.0	4.3	3.9	4.3	4.0	4.0	5.4	18	8.1	6.0	7.3	5.1
12	4.3	4.3	3.7	4.1	3.4	4.3	6.9	15	8.0	5.9	7.8	5.0
13	4.7	4.1	3.8	4.0	3.9	4.2	7.7	19	7.9	8.1	11	5.5
14	4.3	4.1	3.9	4.0	4.7	4.5	8.5	38	7.8	7.7	9.5	5.8
15	4.7	4.1	4.0	4.5	4.2	4.3	9.4	42	7.8	7.0	8.3	5.3
16	4.3	4.0	3.9	4.0	5.2	4.1	8.4	33	7.2	6.1	7.4	5.1
17	4.1	3.8	3.5	4.7	3.8	3.9	8.5	35	7.4	5.4	5.5	4.9
18	4.3	3.8	3.0	4.8	4.1	3.8	12	41	8.2	4.7	5.4	4.9
19	4.1	2.9	3.6	4.0	3.7	3.2	13	41	9.9	4.8	4.9	5.0
20	4.1	3.9	4.9	3.9	3.8	3.8	12	42	8.6	7.0	4.6	4.8
21	4.1	4.9	4.0	3.6	3.4	4.0	11	44	8.9	7.0	4.9	4.7
22	4.0	4.5	3.0	3.2	3.5	4.1	12	43	8.0	7.1	5.9	4.7
23	4.0	3.8	2.8	2.9	3.7	4.5	12	38	6.7	7.0	7.2	4.4
24	4.0	3.8	2.6	3.3	3.4	4.7	10	33	5.8	7.0	5.4	4.2
25	4.0	3.4	2.5	3.7	3.6	4.2	12	30	5.5	6.8	8.8	4.3
26	4.0	3.0	2.7	3.9	3.5	4.4	15	27	5.4	6.8	6.5	4.5
27	3.8	3.5	3.1	4.9	3.6	4.1	16	22	5.1	8.7	6.9	7.2
28	3.8	4.5	3.1	3.6	3.7	4.1	28	19	4.9	8.7	6.1	6.1
29	4.3	4.7	3.1	4.4	---	4.3	40	15	4.9	7.7	5.3	5.3
30	4.1	4.0	3.8	3.8	---	3.8	37	13	4.9	7.4	5.1	6.0
31	3.4	---	4.7	3.3	---	4.1	---	11	---	7.2	5.0	---
TOTAL	137.5	122.3	107.9	116.4	102.7	123.4	328.4	1060	234.4	193.5	207.7	163.1
MEAN	4.44	4.08	3.48	3.75	3.67	3.98	10.9	34.2	7.81	6.24	6.70	5.44
MAX	8.0	4.9	4.9	4.9	5.2	4.7	40	62	11	8.7	11	8.9
MIN	3.0	2.9	2.5	2.4	2.7	3.1	4.0	11	4.9	4.5	4.6	4.2
AC-FT	273	243	214	231	204	245	651	2100	465	384	412	324

CAL YR 1981 TOTAL 2301.1 MEAN 6.30 MAX 79 MIN 2.4 AC-FT 4560
WTR YR 1982 TOTAL 2897.3 MEAN 7.94 MAX 62 MIN 2.4 AC-FT 5750

09337500 ESCALANTE RIVER NEAR ESCALANTE, UTAH

LOCATION.--Lat 37°46'41", long 111°34'26", in NE¼NW¼SE¼ sec.9, T.35 S., R.3 E., Garfield County, Hydrologic Unit 14070005, on left bank 150 ft (46 m) downstream from Pine Creek and 2 mi (3 km) northeast of Escalante.

DRAINAGE AREA.--320 mi² (829 km²).

PERIOD OF RECORD.--August 1909 to April 1913, October 1942 to September 1955, December 1971 to current year. Published as Escalante Creek near Escalante 1909-13.

REVISED RECORDS.--WSP 1149: 1943(M), 1944, 1945(M). WRD UT-73-1: 1972.

GAGE.--Water-stage recorder. Altitude of gage, 5,670 ft (1,728 m) from topographic map. Prior to Apr. 30, 1913, staff gage at approximately same site at different datum.

REMARKS.--Records poor. Diversions above station for irrigation of about 2,300 acres (9.31 km²) of crop and pastureland.

AVERAGE DISCHARGE.--26 years (1909-12, 1942-55, 1972-82), 15.0 ft³/s (0.425 m³/s), 10,870 acre-ft/yr (13.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,450 ft³/s (97.7 m³/s) Aug. 1953, day unknown, gage height, 9.9 ft (3.018 m) from outside high-water mark, from rating curve extended above 540 ft³/s (15.3 m³/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; minimum, 0.07 ft³/s (0.002 m³/s) Dec. 24, 1978, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 204 ft³/s (5.78 m³/s) Aug. 25, gage height, 3.42 ft (1.04 m); minimum, 1.6 ft³/s (0.045 m³/s) July 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	9.9	10	13	16	18	21	45	43	2.1	3.2	3.1
2	23	11	12	13	15	22	21	60	33	2.1	5.4	2.7
3	29	11	13	13	15	20	16	63	27	1.9	5.1	2.5
4	8.3	11	13	13	14	17	16	50	22	1.8	4.5	4.2
5	13	10	14	15	13	15	17	47	21	1.6	3.7	14
6	6.9	10	13	14	15	14	15	41	21	1.7	3.7	7.4
7	7.4	11	12	10	15	21	14	37	14	1.8	3.5	9.9
8	7.9	10	12	11	16	16	10	37	14	1.9	3.5	6.9
9	7.4	10	12	12	16	16	15	37	10	2.7	3.1	5.8
10	6.9	10	14	13	17	16	15	31	7.3	2.2	3.5	6.5
11	27	10	12	14	17	20	20	14	8.1	2.5	51	5.8
12	26	10	12	14	18	21	25	7.4	6.1	2.3	24	6.5
13	16	10	12	14	18	20	22	6.5	3.9	2.2	49	7.4
14	11	10	12	15	19	20	22	30	3.7	2.2	19	7.8
15	17	10	12	14	20	24	26	37	4.5	2.1	9.3	5.8
16	19	10	12	14	19	21	26	30	5.1	2.1	19	5.7
17	19	11	12	14	22	18	26	32	4.5	2.2	8.5	5.6
18	19	12	11	14	22	14	23	39	7.5	2.5	6.1	5.6
19	20	10	10	14	23	15	21	40	9.9	2.8	6.1	5.6
20	21	10	14	13	23	14	18	40	7.8	3.2	5.4	5.7
21	17	11	13	14	24	13	16	40	9.4	3.1	5.1	5.6
22	15	12	11	14	25	11	11	40	8.8	2.5	5.8	5.6
23	13	13	10	14	31	7.4	10	35	8.8	2.3	12	6.1
24	12	12	10	15	27	7.8	7.4	31	6.9	2.1	11	6.1
25	12	14	11	16	23	6.9	9.8	46	4.2	2.8	26	6.1
26	10	12	12	17	21	7.8	14	56	3.9	3.9	19	6.1
27	9.9	11	10	18	21	8.3	16	56	3.1	12	44	6.8
28	10	10	12	17	18	7.5	28	54	2.5	5.8	21	12
29	12	12	12	18	---	9.4	37	50	2.3	3.7	7.8	9.0
30	11	13	12	17	---	12	35	43	2.1	2.8	4.5	6.1
31	9.9	---	12	17	---	17	---	43	---	2.8	3.9	---
TOTAL	441.1	326.9	369	444	543	470.1	573.2	1217.9	325.4	87.7	396.7	194.0
MEAN	14.2	10.9	11.9	14.3	19.4	15.2	19.1	39.3	10.8	2.83	12.8	6.47
MAX	29	14	14	18	31	24	37	63	43	12	51	14
MIN	4.5	9.9	10	10	13	6.9	7.4	6.5	2.1	1.6	3.1	2.5
AC-FT	875	648	732	881	1080	932	1140	2420	645	174	787	385

CAL YR 1981 TOTAL 4222.4 MEAN 11.6 MAX 84 MIN 1.6 AC-FT 8380
WTR YR 1982 TOTAL 5389.0 MEAN 14.8 MAX 63 MIN 1.6 AC-FT 10690

09368000 SAN JUAN RIVER AT SHIPROCK, NM
(National stream-quality accounting network, surveillance
network, and radio chemical network station)

LOCATION.--Lat 36°47'32", long 108°43'54", in NW¼ sec.27, T.30 N., R.18 W., San Juan County, Hydrologic Unit 14080105, on left bank 3 mi (5 km) west of Shiprock, 6 mi (10 km) downstream from Chaco River, and at mile 215.0 (345.9 km).

DRAINAGE AREA.--12,900 mi² (33,400 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January to October 1911, February 1927 to current year. Monthly or yearly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1243: 1931, 1934-38, 1951. WSP 1313: 1911, 1933. WDR NM-78-1: 1977.

GAGE.--Water-stage recorder. Datum of gage is 4,848.68 ft (1,477.878 m) NGVD of 1929 (river-profile survey). Prior to Apr. 6, 1922, nonrecording gage and Apr. 7, 1922, to Oct. 25, 1933, water-stage recorder, at site 3 mi (5 km) upstream at different datum. Oct. 26, 1933, to Sept. 30, 1936, water-stage recorder at present site at datum 3.31 ft (1.01 m) higher and Oct. 1, 1936, to Sept. 30, 1952, at datum 1.77 ft (0.54 m) higher. Supplementary water-stage recorders at nearby sites, same datum, used at times.

REMARKS.--Records good except those for October, which are fair. Since 1962 flow partly regulated by Navajo Reservoir (station 09355100). Diversions for irrigation of about 118,000 acres (480 km²) 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.--56 years (water years 1927-82), 2,172 ft³/s (61.51 m³/s), 1,574,000 acre-ft/yr (1.94 km³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD (SINCE 1927).--Maximum discharge, about 80,000 ft³/s (2,270 m³/s) Aug. 11, 1929, gage height, 5.7 ft (1.73 m), site and datum then in use; minimum daily, 8 ft³/s (0.23 m³/s) Aug. 25, 26, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood occurred Oct. 6, 1911, and reached a stage of 22 ft (6.7 m), site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 6,000 ft³/s (170 m³/s), 7,540 ft³/s (214 m³/s) Aug. 26, gage height, 7.16 ft (2.182 m); minimum daily, 648 ft³/s (18.4 m³/s) Feb. 8, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1230	1340	792	857	953	920	1390	2870	4590	3810	2370	1600
2	1510	1300	784	915	903	888	1330	3170	4850	4390	1880	1570
3	5610	1250	791	868	928	1140	1320	3650	4860	3880	1640	1620
4	3050	1180	788	824	920	1200	1410	4170	5050	3680	1640	1570
5	1810	1070	781	872	746	1070	1320	4690	4950	3480	1520	1570
6	1680	827	786	824	704	946	1400	4740	4900	3120	1340	1600
7	1640	772	784	792	662	873	1530	4250	4540	2770	1480	1490
8	1580	787	802	784	648	832	1520	3830	4310	2610	1900	1370
9	1510	779	817	746	697	848	1540	3470	4380	2290	1620	1390
10	1500	799	819	760	662	857	1590	3410	4490	2410	1350	1500
11	1530	768	795	848	746	893	1560	3360	4570	2370	1150	1770
12	1580	769	798	848	711	966	1570	3430	4600	2470	1090	3420
13	1600	781	792	896	648	1960	1960	3380	4610	2360	1070	2900
14	1690	826	795	840	669	1500	2680	3160	4820	2340	1330	3200
15	1620	787	800	912	704	1350	2880	2850	4570	2220	1500	2840
16	1660	789	814	923	711	1350	2980	2760	4300	2180	1460	2800
17	1570	770	810	903	739	1300	2950	2720	4050	2290	1500	2920
18	1520	823	798	893	776	1300	2850	2740	4360	2150	1310	2810
19	1480	856	787	920	832	1300	2790	2700	4080	2050	1170	2670
20	1560	859	768	987	840	1250	2600	2900	3830	2070	1210	2850
21	1440	780	785	976	896	1250	2610	2900	3560	2010	1710	3080
22	1440	793	819	957	944	1220	2600	2990	3690	1930	3290	3080
23	1440	809	785	945	976	1170	2750	3480	3460	1870	2840	2780
24	1370	770	819	953	1060	1120	2710	3610	3380	1840	3820	2520
25	1380	769	808	940	1240	1100	2570	3530	3440	1820	4730	2320
26	1340	768	781	970	1320	1200	2450	3560	3850	1820	6560	2150
27	1330	768	784	986	1090	1300	2380	3870	4130	2040	4540	2010
28	1290	768	792	1010	952	1500	2380	4480	4460	2090	2990	1940
29	1310	778	800	1020	---	1450	2430	4480	4410	2400	2370	2060
30	1340	814	776	985	---	1400	2700	4780	4260	2560	1850	1950
31	1340	---	813	955	---	1200	---	4780	---	3690	1740	---
TOTAL	51950	25949	24663	27909	23677	36653	64750	110710	129350	79010	65970	67350
MEAN	1676	865	796	900	846	1182	2158	3571	4312	2549	2128	2245
MAX	5610	1340	819	1020	1320	1960	2980	4780	5050	4390	6560	3420
MIN	1230	768	768	746	648	832	1320	2700	3380	1820	1070	1370
AC-FT	103000	51470	48920	55360	46960	72700	128400	219600	256600	156700	130900	133600

CAL YR 1981 TOTAL 436960 MEAN 1197 MAX 5610 MIN 231 AC-FT 866700
WTR YR 1982 TOTAL 707941 MEAN 1940 MAX 6560 MIN 648 AC-FT 1404000

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for New Mexico, 1982."

SAN JUAN RIVER BASIN

09372200 McELMO CREEK NEAR BLUFF, UTAH

LOCATION.--Lat 37°13'13", long 109°11'05", in SW¼NW¼SW¼ sec.16, T.41 S., R.15 E., San Juan County, Hydrologic Unit 14080201, 0.5 mi (0.80 km) upstream from mouth, 0.25 mi (0.40 km) north of Aneth Utah Trading Post and 21 mi (33.8 km) southwest of Bluff, Utah.

DRAINAGE AREA.--721 mi² (1,870 km²).

PERIOD OF RECORD.--Oct. 1, 1980 to September 1982 (discontinued).

GAGE.--Water-stage recorder and water-quality mini-monitor. Altitude of gage is 6,200 ft (1,890 m) from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,680 ft³/s (75.9 m³/s) Aug. 24, 1982, gage height, 5.18 ft (1.579 m); minimum daily, 5.8 ft³/s (0.16 m³/s) Apr. 18, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,680 ft³/s (75.9 m³/s) Aug. 24, gage height, 5.18 ft (1.579 m); minimum, 8.7 ft³/s (0.25 m³/s) May 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	33	28	20	29	190	51	19	57	108	95	80
2	42	34	27	21	29	187	49	13	50	103	68	74
3	210	34	26	21	22	265	157	11	54	93	63	72
4	130	35	25	22	75	286	260	9.2	52	67	85	72
5	70	35	25	21	24	220	275	27	54	64	72	90
6	50	33	25	21	37	157	265	38	41	48	67	80
7	45	31	26	17	25	72	297	79	44	60	34	70
8	43	31	27	15	48	46	318	85	52	67	46	64
9	39	30	27	14	65	40	322	70	55	76	70	100
10	39	30	27	14	95	40	354	49	62	77	93	120
11	38	29	26	16	123	37	293	41	69	69	85	167
12	38	27	25	18	100	58	267	37	79	61	79	491
13	40	26	25	19	261	399	209	134	101	64	63	448
14	42	27	25	20	62	206	97	369	133	62	67	838
15	43	30	25	22	30	135	88	261	185	44	104	397
16	42	32	24	23	35	193	70	223	210	41	70	209
17	41	30	24	25	46	230	57	143	201	44	79	166
18	38	29	23	29	138	199	53	87	181	39	116	154
19	38	30	23	62	227	113	48	83	194	36	141	154
20	37	33	23	50	416	65	40	89	199	33	138	157
21	35	33	23	44	580	50	40	120	267	39	178	358
22	34	36	24	47	504	43	37	120	295	42	485	177
23	35	33	25	42	265	40	32	91	323	34	437	138
24	36	32	23	34	178	34	30	97	250	32	1340	130
25	35	31	20	31	223	27	33	120	216	36	1200	130
26	33	28	19	33	294	24	46	125	226	37	600	125
27	33	26	18	38	269	51	59	93	214	41	210	135
28	32	25	17	37	213	89	59	62	212	46	160	166
29	32	26	16	42	---	71	43	77	209	50	100	146
30	32	27	17	47	---	63	27	81	170	54	94	179
31	32	---	18	36	---	66	---	77	---	46	90	---
TOTAL	1468	916	726	901	4413	3696	3976	2930.2	4455	1713	6529	5687
MEAN	47.4	30.5	23.4	29.1	158	119	133	94.5	149	55.3	211	190
MAX	210	36	28	62	580	399	354	369	323	108	1340	838
MIN	32	25	16	14	22	24	27	9.2	41	32	34	64
AC-FT	2910	1820	1440	1790	8750	7330	7890	5810	8840	3400	12950	11280
CAL YR 1981 TOTAL	19182.4			52.6	MAX 299	MIN 5.8	AC-FT 38050					
WTR YR 1982 TOTAL	37410.2			102	MAX 1340	MIN 9.2	AC-FT 74200					

SAN JUAN RIVER BASIN

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09378100 NORTH CREEK ABOVE RANGER STATION, NEAR MONTICELLO, UTAH

LOCATION.--Lat 37°52'23", long 109°21'57", in SE¼SW¼ sec.26, T.33 S., R.23 E., San Juan County, Hydrologic Unit 14080203, on left bank 0.50 mi (0.80 km) northwest of Baker Ranger Station, 1.3 mi (2.1 km) west of Monticello.

DRAINAGE AREA.--8.68 mi² (22.5 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 7,180 ft (2,180 m) from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 69 ft³/s (1.95 m³/s) May 11, 1980, gage height, 5.99 ft (1.826 m); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 0.06 ft³/s (0.002 m³/s) Apr. 12, 13, no peak above base of 30 ft³/s (0.85 m³/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.02	.02	.01	.03	.03	.00	.00
2	.00	.00	.00	.00	.00	.02	.02	.01	.03	.03	.00	.00
3	.00	.00	.00	.00	.00	.01	.01	.01	.03	.02	.00	.00
4	.00	.00	.00	.00	.00	.01	.02	.01	.04	.01	.00	.00
5	.00	.00	.00	.00	.00	.01	.03	.01	.03	.00	.00	.00
6	.00	.00	.00	.00	.00	.02	.03	.01	.04	.00	.00	.00
7	.00	.00	.00	.00	.00	.02	.03	.01	.04	.00	.00	.00
8	.00	.00	.00	.00	.00	.02	.03	.01	.04	.00	.00	.00
9	.00	.00	.00	.00	.00	.02	.03	.01	.04	.00	.00	.00
10	.00	.00	.00	.00	.00	.01	.04	.01	.04	.00	.00	.00
11	.00	.00	.00	.00	.00	.02	.05	.01	.04	.00	.00	.00
12	.00	.00	.00	.00	.00	.03	.06	.01	.04	.00	.00	.00
13	.00	.00	.00	.00	.00	.02	.06	.01	.03	.00	.00	.00
14	.00	.00	.00	.00	.00	.02	.04	.02	.03	.00	.00	.00
15	.00	.00	.00	.00	.00	.01	.05	.02	.03	.00	.00	.00
16	.00	.00	.00	.00	.00	.01	.05	.02	.03	.00	.00	.00
17	.00	.00	.00	.00	.00	.02	.03	.02	.03	.00	.00	.00
18	.00	.00	.00	.00	.00	.02	.02	.01	.03	.00	.00	.00
19	.00	.00	.00	.00	.01	.02	.02	.02	.03	.00	.00	.00
20	.00	.00	.00	.00	.01	.01	.02	.02	.03	.00	.00	.00
21	.00	.00	.00	.00	.02	.02	.01	.02	.03	.00	.00	.00
22	.00	.00	.00	.00	.02	.02	.01	.02	.04	.00	.00	.00
23	.00	.00	.00	.00	.01	.02	.01	.02	.03	.00	.00	.00
24	.00	.00	.00	.00	.02	.03	.01	.02	.03	.00	.00	.00
25	.00	.00	.00	.00	.01	.05	.01	.02	.03	.00	.00	.00
26	.00	.00	.00	.00	.01	.03	.01	.02	.03	.00	.00	.00
27	.00	.00	.00	.00	.02	.04	.01	.02	.03	.00	.00	.00
28	.00	.00	.00	.00	.02	.05	.01	.02	.02	.00	.00	.00
29	.00	.00	.00	.00	---	.03	.02	.02	.03	.00	.00	.00
30	.00	.00	.00	.00	---	.02	.01	.02	.03	.00	.00	.00
31	.00	---	.00	.00	---	.03	---	.03	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.15	.68	.77	.49	.98	.09	.00	.00
MEAN	.000	.000	.000	.000	.005	.022	.026	.016	.033	.003	.000	.000
MAX	.00	.00	.00	.00	.02	.05	.06	.03	.04	.03	.00	.00
MIN	.00	.00	.00	.00	.00	.01	.01	.01	.02	.00	.00	.00
AC-FT	.00	.00	.00	.00	.3	1.3	1.5	1.0	1.9	.2	.00	.00

CAL YR 1981 TOTAL 11.20 MEAN .031 MAX .51 MIN .00 AC-FT 22
WTR YR 1982 TOTAL 3.16 MEAN .009 MAX .06 MIN .00 AC-FT 6.3

SAN JUAN RIVER BASIN

09378200 MONTEZUMA CREEK AT GOLF COURSE, AT MONTICELLO, UTAH

LOCATION.--Lat 37°51'38", long 109°20'30", in SW¼SE¼ sec.36, T.33 S., R.23 E., San Juan County, Hydrologic Unit 14080203, on left bank 1,000 ft (305 m) west of Highway 163, 0.85 mi (1.37 km) south of Monticello.

DRAINAGE AREA.--17.6 mi² (45.6 km²).

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

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

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 259 ft³/s (7.33 m³/s) May 11, 1980, gage height, 7.31 ft (2.228 m); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7.3 ft³/s (0.21 m³/s) Apr. 12, gage height, 6.01 ft (1.832 m), no peak above base of 100 ft³/s (2.83 m³/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.23	.15	.03	.00	.00	.05	.02	1.4	1.4	.00	.02	.01
2	.22	.15	.04	.00	.00	.05	.03	1.5	.01	.00	.02	.01
3	.37	.15	.04	.00	.00	.03	.04	2.0	.01	.00	.02	.01
4	.53	.15	.05	.00	.00	.03	.23	2.5	.00	.00	.02	.01
5	.43	.15	.05	.00	.00	.03	1.0	4.0	.00	.00	.02	.01
6	.33	.15	.04	.00	.00	.04	1.4	4.1	.00	.00	.02	.06
7	.23	.15	.04	.00	.00	.04	1.5	4.0	.00	.00	.02	.02
8	.16	.15	.04	.00	.00	.05	1.6	4.0	.00	.00	.02	.02
9	.07	.15	.04	.00	.00	.06	1.9	3.0	.00	.00	.02	.05
10	.07	.17	.04	.00	.00	.04	2.4	2.0	.00	.00	.02	.02
11	.10	.15	.05	.00	.00	.05	3.2	1.0	.00	.00	.02	.58
12	.13	.18	.04	.00	.00	.06	4.2	.50	.00	.00	.02	.70
13	.08	.15	.04	.00	.00	.06	4.1	.40	.00	.00	.02	1.1
14	.07	.15	.04	.00	.00	.04	3.1	.30	.00	.00	.02	.82
15	.19	.15	.04	.00	.00	.03	3.7	.01	.00	.00	.02	.52
16	.22	.15	.03	.00	.00	.03	3.8	.01	.00	.00	.02	.44
17	.15	.15	.03	.00	.00	.05	3.3	.01	.00	.00	.02	.37
18	.15	.17	.02	.00	.00	.06	3.2	.01	.00	.00	.02	.30
19	.15	.13	.03	.00	.03	.03	3.1	.01	.00	.00	.02	.30
20	.15	.10	.04	.00	.07	.03	3.1	.01	.00	.01	.02	.30
21	.15	.10	.03	.00	.07	.04	2.7	.01	.00	.01	.10	.37
22	.15	.10	.02	.00	.07	.05	2.0	.03	.00	.01	.04	.30
23	.15	.10	.01	.00	.05	.05	1.8	.05	.00	.03	.02	.22
24	.15	.08	.00	.00	.05	.05	1.9	.22	.00	.02	.02	.22
25	.15	.05	.00	.00	.03	.07	1.1	.74	.00	.02	.08	.22
26	.17	.05	.00	.00	.03	.04	.58	.98	.00	.02	.06	.17
27	.15	.05	.00	.00	.04	.05	.75	1.4	.00	.02	.06	.90
28	.15	.04	.00	.00	.06	.07	.94	1.7	.00	.02	.04	.44
29	.15	.04	.00	.00	---	.05	1.4	2.0	.00	.02	.03	.37
30	.15	.04	.00	.00	---	.03	1.3	1.9	.00	.02	.02	.30
31	.15	---	.00	.00	---	.02	---	1.4	---	.02	.01	---
TOTAL	5.70	3.65	.83	.00	.50	1.38	59.39	41.19	1.42	.22	.88	9.16
MEAN	.18	.12	.027	.000	.018	.045	1.98	1.33	.047	.007	.028	.31
MAX	.53	.18	.05	.00	.07	.07	4.2	4.1	1.4	.03	.10	1.1
MIN	.07	.04	.00	.00	.00	.02	.02	.01	.00	.00	.01	.01
AC-FT	11	7.2	1.6	.00	1.0	2.7	118	82	2.8	.4	1.7	18

CAL YR 1981 TOTAL 57.78 MEAN .16 MAX 2.3 MIN .00 AC-FT 115
WTR YR 1982 TOTAL 124.32 MEAN .34 MAX 4.2 MIN .00 AC-FT 247

SAN JUAN RIVER BASIN

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09378630 RECAPTURE CREEK NEAR BLANDING, UTAH

LOCATION.--Lat 37°45'20", long 109°28'33", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ 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 mi² (9.76 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 7,200 ft (2,195 m) from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--17 years, 1.29 ft³/s (0.037 m³/s), 935 acre-ft/yr (1.15 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 142 ft³/s (4.02 m³/s) Oct. 20, 1972, gage height, 2.14 ft (0.653 m); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 8.0 ft³/s (0.23 m³/s), 13 ft³/s (0.37 m³/s) May 4, gage height, 1.15 ft (0.351 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.01	.01	.00	.00	.02	.94	6.5	2.2	.10	.01	.01
2	.00	.01	.01	.00	.00	.02	.73	7.3	2.1	.08	.01	.01
3	.07	.01	.01	.00	.00	.02	.71	8.5	1.9	.08	.01	.01
4	.02	.01	.01	.00	.00	.02	1.0	9.9	1.7	.08	.01	.01
5	.01	.01	.01	.00	.00	.02	1.3	7.7	1.6	.07	.00	.01
6	.01	.01	.01	.00	.00	.02	1.3	6.2	1.5	.06	.00	.04
7	.01	.02	.01	.00	.00	.03	1.4	5.5	1.4	.06	.00	.02
8	.01	.02	.01	.00	.00	.03	1.3	4.9	1.2	.06	.01	.02
9	.01	.02	.01	.00	.00	.05	1.3	4.3	1.1	.04	.01	.02
10	.01	.02	.01	.00	.00	.05	1.4	3.8	1.0	.03	.01	.02
11	.01	.02	.01	.00	.00	.03	2.0	3.0	.95	.03	.01	.05
12	.01	.02	.01	.00	.00	.04	4.3	3.2	.92	.02	.01	.03
13	.01	.02	.01	.00	.00	.05	5.9	2.6	.89	.02	.01	.12
14	.01	.02	.01	.00	.00	.04	6.2	2.2	.84	.02	.01	.07
15	.01	.02	.01	.00	.00	.03	6.5	2.0	.83	.01	.01	.03
16	.01	.02	.01	.00	.00	.03	6.5	2.0	.75	.01	.01	.02
17	.01	.02	.01	.00	.00	.05	5.9	1.9	.70	.02	.01	.02
18	.01	.02	.01	.00	.00	.07	5.9	2.0	.49	.03	.01	.02
19	.01	.02	.01	.00	.00	.05	6.2	2.4	.30	.02	.01	.02
20	.01	.03	.00	.00	.01	.05	5.2	2.8	.19	.02	.01	.02
21	.01	.02	.01	.00	.01	.07	4.0	3.0	.16	.01	.40	.02
22	.01	.02	.01	.00	.01	.10	3.2	3.2	.14	.01	.08	.02
23	.01	.02	.01	.00	.01	.12	2.8	3.2	.12	.02	.02	.02
24	.01	.02	.01	.00	.01	.14	2.4	3.2	.12	.01	.02	.02
25	.01	.02	.01	.00	.00	.30	2.2	2.8	.12	.01	.41	.02
26	.01	.01	.01	.00	.01	.53	2.2	2.8	.11	.01	.17	.02
27	.01	.01	.01	.00	.01	.65	2.4	3.0	.10	.01	.17	.13
28	.01	.01	.01	.00	.02	.88	2.8	3.0	.09	.01	.04	.06
29	.01	.01	.01	.00	---	.88	4.6	3.0	.09	.01	.02	.04
30	.01	.01	.01	.00	---	.59	6.2	2.8	.10	.01	.02	.04
31	.01	---	.01	.00	---	1.1	---	2.4	---	.01	.01	---
TOTAL	.36	.50	.30	.00	.09	6.08	98.78	121.1	23.71	.98	1.53	.96
MEAN	.012	.017	.010	.000	.003	.20	3.29	3.91	.79	.032	.049	.032
MAX	.07	.03	.01	.00	.02	1.1	6.5	9.9	2.2	.10	.41	.13
MIN	.00	.01	.00	.00	.00	.02	.71	1.9	.09	.01	.00	.01
AC-FT	.7	1.0	.6	.00	.2	12	196	240	47	1.9	3.0	1.9

CAL YR 1981 TOTAL 74.32 MEAN .20 MAX 4.2 MIN .00 AC-FT 147
WTR YR 1982 TOTAL 254.39 MEAN .70 MAX 9.9 MIN .00 AC-FT 505

SAN JUAN RIVER BASIN

09378650 RECAPTURE CREEK BELOW JOHNSON CREEK, NEAR BLANDING, UTAH

LOCATION.--Lat 37°40'51", long 109°27'43", in SW¼SW¼SE¼ 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 mi² (130.0 km²).

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,120 ft (1,865 m) from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--7 years, 8.61 ft³/s (0.244 m³/s), 6,240 acre-ft/yr (7.69 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 695 ft³/s (19.7 m³/s) Mar. 14, 1981, gage height, 5.67 ft (1.728 m); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 107 ft³/s (3.03 m³/s) Aug. 25, gage height, 3.19 ft (0.972 m); no peak above base of 230 ft³/s (6.51 m³/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.09	.00	.00	.00	.05	2.5	19	16	9.0	.00	.63
2	.00	.07	.00	.00	.00	.05	1.6	18	15	.23	.00	2.5
3	.14	.03	.00	.00	.00	.04	1.3	19	15	.12	.00	.96
4	.10	.02	.00	.00	.00	.04	1.4	22	14	.11	.00	.07
5	.09	.00	.00	.00	.00	.03	1.4	19	13	.10	.00	.04
6	.05	.00	.00	.00	.00	.04	1.5	17	13	.10	.00	.00
7	.01	.00	.00	.00	.00	.07	1.8	15	12	.09	.00	.00
8	.00	.00	.00	.00	.00	.10	1.8	14	12	.09	.00	.00
9	.00	.00	.00	.00	.00	.15	1.7	14	4.1	.09	.00	.00
10	.00	.00	.00	.00	.00	.15	1.7	13	.49	.08	.00	.00
11	.00	.00	.00	.00	.00	.10	3.1	12	.21	.07	.00	.04
12	.00	.00	.00	.00	.00	.15	10	12	.17	.05	.00	.09
13	.00	.00	.00	.00	.00	.20	29	11	.17	.03	.00	2.3
14	.00	.00	.00	.00	.00	.15	38	10	.17	.02	.00	2.3
15	.00	.00	.00	.00	.00	.12	32	8.6	.16	.01	.00	.24
16	.00	.00	.00	.00	.00	.12	29	8.6	.14	.00	.00	.10
17	.00	.00	.00	.00	.00	.15	24	8.6	.14	.00	.00	.03
18	.00	.00	.00	.00	.00	.30	26	8.9	.13	.00	.00	.01
19	.00	.00	.00	.00	.00	.25	26	9.6	.14	.00	.00	.01
20	.00	.00	.00	.00	.05	.25	24	10	.13	.00	.01	.01
21	.20	.00	.00	.00	.10	.30	19	14	.13	.00	3.9	.01
22	.66	.00	.00	.00	.10	.40	16	16	.12	.00	5.1	.00
23	.12	.00	.00	.00	.06	.52	15	16	.12	.00	6.7	.00
24	.10	.00	.00	.00	.06	1.2	14	16	.11	.00	11	.00
25	.20	.00	.00	.00	.02	1.9	14	16	.11	.00	14	.00
26	.90	.00	.00	.00	.04	4.4	13	16	.11	.00	5.9	.00
27	1.0	.00	.00	.00	.05	4.4	15	16	.10	.00	5.3	6.9
28	.97	.00	.00	.00	.06	2.3	16	20	.10	.00	3.5	3.0
29	.94	.00	.00	.00	---	2.3	23	20	17	.00	2.4	1.3
30	.66	.00	.00	.00	---	1.8	23	19	14	.00	1.8	.56
31	.19	---	.00	.00	---	3.2	---	17	---	.00	1.2	---
TOTAL	6.33	.21	.00	.00	.54	25.23	425.8	455.3	148.05	10.19	60.81	21.10
MEAN	.20	.007	.000	.000	.019	.81	14.2	14.7	4.94	.33	1.96	.70
MAX	1.0	.09	.00	.00	.10	4.4	38	22	17	9.0	14	6.9
MIN	.00	.00	.00	.00	.00	.03	1.3	8.6	.10	.00	.00	.00
AC-FT	13	.4	.00	.00	1.1	50	845	903	294	20	121	42

CAL YR 1981 TOTAL 240.59 MEAN .66 MAX 12 MIN .00 AC-FT 477
WTR YR 1982 TOTAL 1153.56 MEAN 3.16 MAX 38 MIN .00 AC-FT 2290

SAN JUAN RIVER BASIN

235

09378700 COTTONWOOD WASH NEAR BLANDING, UTAH

LOCATION.--Lat 37°33'38", long 109°34'41", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ 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 mi² (531 km²).

PERIOD OF RECORD.--October 1964 to current year. Annual maximum only December 1958 to September 1964 at crest-stage site.

GAGE.--Water-stage recorder. Datum of gage is 5,137.73 ft (1,565.980 m) NGVD of 1929. Prior to October 1964, crest-stage gage only, at site 300 ft (91 m) upstream at different datum; October 1964 to July 13, 1966, at site 50 ft (15 m) upstream at different datum. July 14, 1966 to Aug. 15, 1968, at same site at different datum.

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

AVERAGE DISCHARGE.--18 years, 8.26 ft³/s (0.234 m³/s), 5,980 acre-ft/yr (7.37 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,500 ft³/s (581 m³/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, 867 ft³/s (24.6 m³/s) Aug. 25, gage height, 4.12 ft (1.256 m) from floodmarks, no peak above base of 900 ft³/s (25.5 m³/s); no flow many days in June, July, and Aug.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	2.4	1.5	.40	.04	.32	5.0	3.1	3.0	1.5	.12	.50
2	.12	4.6	1.6	.40	.03	.35	3.2	3.1	2.0	.70	.06	.70
3	3.0	3.8	1.7	.30	.03	.33	2.9	3.1	1.5	.30	.02	.35
4	2.7	3.4	1.7	.20	.03	.35	3.1	2.4	1.0	.25	.00	.27
5	2.5	4.2	2.0	.20	.02	.40	1.8	3.1	.90	.16	.00	.24
6	2.2	5.8	1.8	.30	.01	.56	2.4	2.8	.84	.16	.00	.23
7	2.0	6.2	1.8	.20	.04	.60	2.4	2.5	.80	.10	.00	.23
8	1.9	6.8	2.0	.20	.05	1.0	2.4	2.2	.45	.10	.00	.23
9	2.1	4.2	2.2	.20	.03	1.3	1.2	2.2	.10	.10	.08	.30
10	1.8	3.4	2.0	.25	.05	1.1	1.0	2.0	.00	.02	.00	.45
11	1.8	5.0	2.2	.10	.06	1.0	1.5	1.8	.00	.00	1.0	1.1
12	2.4	3.4	2.0	.20	.04	1.2	6.6	2.0	.00	.00	.40	1.3
13	3.4	3.8	1.6	.10	.04	1.3	9.5	1.7	.00	.00	2.0	1.5
14	2.8	3.3	1.6	.15	.03	1.2	5.8	1.6	.00	.00	.60	1.4
15	13	3.0	1.7	.15	.04	1.1	7.0	1.5	.00	.00	.25	.30
16	9.5	2.7	1.5	.15	.03	1.2	7.4	1.6	.00	.00	.20	.20
17	8.3	2.5	1.4	.16	.09	1.5	3.1	1.6	.00	.20	.06	.12
18	7.0	2.3	1.2	.20	.10	2.0	3.4	1.7	.00	.00	.00	.10
19	6.1	2.5	1.3	.17	.10	1.7	3.4	1.8	2.0	.00	.00	.08
20	5.0	2.3	1.4	.14	.20	2.0	1.5	2.0	1.0	.00	.00	.06
21	5.4	2.5	1.0	.14	.20	2.5	1.8	2.4	1.5	.00	.20	.04
22	5.8	2.4	.80	.10	.18	2.9	2.4	2.9	1.0	.40	.45	.02
23	4.6	2.8	.70	.10	.15	3.0	7.4	2.9	.70	.12	2.5	.08
24	5.4	3.0	.50	.13	.15	3.5	4.2	2.9	.70	.10	3.5	.06
25	6.2	2.4	.60	.14	.10	4.0	3.8	2.9	.60	.00	25	.06
26	4.2	2.0	.50	.15	.15	5.0	5.8	2.9	.60	.02	13	.40
27	6.2	2.0	.60	.10	.20	10	4.6	2.9	.52	.00	10	2.0
28	6.2	2.1	.70	.10	.35	8.3	3.4	4.0	.52	.04	5.0	.70
29	6.2	2.0	.80	.05	---	5.8	3.4	4.0	3.0	2.5	2.0	.40
30	5.0	1.7	.60	.10	---	7.0	3.1	3.7	2.5	1.4	1.5	.20
31	2.8	---	.50	.05	---	5.8	---	3.5	---	.60	1.0	---
TOTAL	135.74	98.5	41.50	5.33	2.54	78.31	114.5	78.8	25.23	8.77	68.94	13.62
MEAN	4.38	3.28	1.34	.17	.091	2.53	3.82	2.54	.84	.28	2.22	.45
MAX	13	6.8	2.2	.40	.35	10	9.5	4.0	3.0	2.5	25	2.0
MIN	.12	1.7	.50	.05	.01	.32	1.0	1.5	.00	.00	.00	.02
AC-FT	269	195	82	11	5.0	155	227	156	50	17	137	27
CAL YR 1981	TOTAL	1377.10	MEAN 3.77	MAX 65	MIN .09	AC-FT 2730						
WTR YR 1982	TOTAL	671.78	MEAN 1.84	MAX 25	MIN .00	AC-FT 1330						

09379500 SAN JUAN RIVER NEAR BLUFF, UTAH

LOCATION.--Lat 37°08'49", long 109°51'51", in SE¼NE¼NW¼ sec.7, T.42 S., R.19 E., San Juan County, Hydrologic Unit 14080205, on left bank 1,600 ft (490 m) downstream from Gypsum Creek, 1,800 ft (550 m) upstream from highway bridge, 20 mi (32 km) southwest of Bluff, at mile 113.5 (182.6 km).

DRAINAGE AREA.--23,000 mi² (60,000 km²), 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 fair. Diversions for irrigation of approximately 200,000 acres (80,900 hm²) 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.--68 years, 2,532 ft³/s (71.71 m³/s), 1,834,000 acre-ft/yr (2.26 km³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--1914-17, 1927-81; maximum discharge, 70,000 ft³/s (1,980 m³/s) Sept. 10, 1927, gage height, 32.0 ft (9.75 m) from rating curve extended above 31,000 ft³/s (878 m³/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 ft³/s (227 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Oct. 4	0445	8,180	232	9.32	2.841
Aug. 25	1515	*19,200	544	14.87	4.532

Minimum, 739 ft³/s (20.9 m³/s) Feb. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1120	1400	1100	939	1150	1230	1550	3060	4810	4000	3070	2550
2	1300	1390	1080	1030	1130	1190	1500	3290	4730	3910	2510	2190
3	2840	1390	1030	1050	1130	1130	1450	3610	5000	4190	2280	1920
4	6610	1360	980	1030	1130	1250	1510	4290	5060	3730	2580	1800
5	3750	1430	955	901	1110	1480	1460	5480	4920	3430	2130	1810
6	2100	1340	969	901	940	1300	1440	6260	4880	3200	1780	2200
7	1820	1240	1020	920	856	1220	1470	4440	4790	2930	1580	1980
8	1710	1110	1020	949	857	1090	1510	3490	4430	2650	1490	1650
9	1690	1040	1020	920	800	1020	1490	3100	4290	2390	2070	1610
10	1650	1010	1020	949	910	1020	1460	2870	4350	2000	1740	1440
11	1640	1010	1000	901	1020	1050	1530	2960	4510	2110	1510	1770
12	1630	974	993	1060	1070	1100	1500	3110	4580	1980	1370	3090
13	1630	929	1000	1140	1010	1290	1500	3340	4520	2000	1520	5560
14	1740	920	1000	1140	930	2680	1870	3240	4670	1900	1810	5540
15	1810	981	982	1140	927	2060	2620	3070	4770	1820	1810	4090
16	1730	1020	969	1120	966	1970	2870	2850	4450	1720	1800	3060
17	1740	978	984	1120	1160	1910	3060	2830	4180	1660	1880	3020
18	1730	945	996	1040	1310	1720	2990	2750	4180	1730	1880	3040
19	1610	932	966	1050	1450	1640	2970	2680	4330	1670	1600	2900
20	1590	978	965	1050	1260	1620	2940	2640	4060	1610	1250	2810
21	1540	960	948	1110	1220	1520	2860	2840	3790	1610	1270	3200
22	1530	967	1000	1150	1230	1440	2790	2870	3520	1610	2150	3790
23	1550	970	1010	1120	1260	1390	2770	3120	3540	1560	4420	3190
24	1520	977	967	1080	1270	1390	2830	3500	3380	1500	4260	2700
25	1480	971	916	1090	1300	1330	2810	3620	3260	1500	11600	2480
26	1430	945	953	1110	1400	1340	2680	3560	3460	1530	11700	2370
27	1440	951	957	1090	1770	1490	2640	3650	3770	1590	10500	2260
28	1430	999	947	1140	1460	1760	2650	4180	4050	1760	6320	2620
29	1360	1070	954	1170	---	1650	2630	4590	4150	2100	4470	2100
30	1340	1050	931	1190	---	1610	2750	4700	4190	2300	3110	1950
31	1360	---	939	1210	---	1640	---	5000	---	2170	2860	---
TOTAL	57420	32237	30571	32810	32026	45530	66100	110990	128620	69860	100320	80690
MEAN	1852	1075	986	1058	1144	1469	2203	3580	4287	2254	3236	2690
MAX	6610	1430	1100	1210	1770	2680	3060	6260	5060	4190	11700	5560
MIN	1120	920	916	901	800	1020	1440	2640	3260	1500	1250	1440
AC-FT	113900	63940	60640	65080	63520	90310	131100	220100	255100	138600	199000	160000
CAL YR 1981 TOTAL	444881			1219	6610	459	AC-FT	882400				
WTR YR 1982 TOTAL	787174			2157	11700	800	AC-FT	1561000				

SAN JUAN RIVER BASIN

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09379500 SAN JUAN RIVER NEAR BLUFF, UT
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1929 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1929 to September 1977, October 1980 to current year.

WATER TEMPERATURES: May 1944 to September 1961, October 1964 to current year.

SUSPENDED-SEDIMENT DISCHARGE: July 1929 to September 1980 (discontinued).

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE (water years 1929-76): Maximum daily, 2,790 micromhos Sept. 19, 1959; minimum daily (water years 1930-76), 208 micromhos June 17, 1952.

WATER TEMPERATURES (water years 1929-76): Maximum, 33.0°C July 31, 1959; minimum (water years 1945-61, 1966-76), 0.0°C on many days during winter period of most years.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 383,000 mg/L Sept. 21, 1929; minimum daily mean, no flow on several days in 1934 and 1939.

SEDIMENT LOADS: Maximum daily, 15,700,000 tons (14,240,000 tonnes) Oct. 20, 1972; minimum daily, 0 tons (0 tonnes) on several days in 1934 and 1939.

EXTREMES FOR CURRENT YEAR.--Although instrumentation was operated, continual malfunction rendered data unusable.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT										
15...	1030	1360	1100	8.3	4.0	8.5	44	6.8	--	--
29...	1140	1360	660	7.9	18.5	10.5	84	10.1	--	--
DEC										
30...	1230	980	800	7.9	5.0	1.5	25	12.0	655	K32
FEB										
23...	1200	1400	1050	8.0	11.5	6.5	1800	9.9	661	--
APR										
21...	1100	2770	430	8.1	12.5	9.0	380	9.3	664	--
JUN										
23...	1200	3480	360	8.0	33.0	20.0	78	7.8	660	K110
AUG										
23...	1230	3770	740	7.9	30.5	23.5	100	6.8	659	--

DATE	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT									
15...	--	300	19	57	38	110	43	3.1	14
29...	--	250	140	72	17	49	30	1.4	2.6
DEC									
30...	140	290	160	80	21	59	31	1.6	2.5
FEB									
23...	--	330	180	90	26	100	39	2.6	2.3
APR									
21...	--	170	68	49	11	26	25	.9	.5
JUN									
23...	250	150	58	43	9.2	20	23	.8	1.1
AUG									
23...	--	200	14	58	13	93	50	3.0	3.2

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

SAN JUAN RIVER BASIN

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)		
OCT											
15...	280	25	190	.3	14	625	617	.85	2300		
29...	110	220	17	.3	10	477	454	.65	1750		
DEC											
30...	130	240	11	.4	8.6	540	501	.73	1430		
FEB											
23...	150	360	26	.5	8.8	746	704	1.0	2820		
APR											
21...	100	110	7.5	.3	8.7	285	274	.39	2130		
JUN											
23...	87	100	6.3	.3	7.4	223	240	.30	2100		
AUG											
23...	185	230	19	.7	11	551	540	.75	5610		
	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)		
OCT											
15...	--	--	--	--	--	--	--	--	--		
29...	.080	.10	.43	.42	.020	.06	.020	.050	.15		
DEC											
30...	.110	.14	.52	.50	.050	.15	.030	<.010	--		
FEB											
23...	.200	.26	.65	1.0	.020	.06	.020	.020	.06		
APR											
21...	.160	.21	2.00	.42	1.20	3.7	.020	.020	.06		
JUN											
23...	.070	.09	1.10	.17	.030	.09	.090	.040	.12		
AUG											
23...	.080	.10	27.0	.85	1.60	4.9	.780	.030	.09		
	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDED RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	
OCT											
15...	1030	6	2	4	200	100	84	1	<1	10	10
29...	1140	2	0	2	200	100	82	<1	<1	20	--
FEB											
23...	1200	12	10	2	1100	800	290	<1	<1	70	60
APR											
21...	1100	8	6	2	1000	800	230	<1	<3	40	--
AUG											
23...	1230	50	48	2	6000	5600	440	2	<1	180	170
	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	
OCT											
15...	0	5	<3	8	5	3	3400	3400	13	4	
29...	<10	5	<3	13	11	2	6200	6000	180	11	
FEB											
23...	10	26	<3	150	150	3	75000	--	<10	55	
APR											
21...	<10	15	<1	55	54	1	35000	35000	16	38	
AUG											
23...	10	96	<1	320	320	4	180000	180000	6	110	

SAN JUAN RIVER BASIN

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

	LEAD, SUS- PENDE 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- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	
OCT 15...	3	1	160	160	3	.1	.0	.1	8	8	
29...	8	3	210	200	14	.1	--	<.1	5	4	
FEB 23...	53	2	1500	1500	1	.1	--	<.1	54	53	
APR 21...	--	<1	1600	--	<3	.1	--	<.1	31	--	
AUG 23...	--	<1	12000	--	<1	1.3	1.2	.1	220	--	
	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, SUS- PENDE RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	
OCT 15...	0	0	0	0	0	0	0	120	110	10	
29...	1	3	1	2	<1	--	<1	40	40	4	
FEB 23...	1	6	2	4	<1	--	<1	290	0	300	
APR 21...	<1	2	1	1	<1	--	<1	250	0	250	
AUG 23...	<1	27	25	2	2	--	<1	1000	640	360	
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)
OCT 29...	1140	--	0	--	.0	--	.0	--	.0	--	.0
FEB 23...	1200	.00	--	.00	--	.00	--	.00	--	.00	--
DATE	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	DI- ELDRIN TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDO- SULFAN, 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)	HEPTA- CHLOR, TOTAL (UG/L)
OCT 29...	--	.0	--	--	.0	--	--	.0	--	--	--
FEB 23...	.00	--	.01	.00	--	.00	.00	--	.00	.00	.00
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)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	
OCT 29...	.0	--	.0	--	.0	--	--	--	--	--	
FEB 23...	--	.00	--	.00	--	.00	.00	.00	.00	.00	

SAN JUAN RIVER BASIN

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	MIREX, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)
OCT 29...	--	.0	--	--	--	--	--	--	--	--
FEB 23...	0	--	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT 29...	1140	1360	10.5	593	71	2180
DEC 30...	1230	980	1.5	166	72	439
FEB 23...	1200	1400	6.5	5020	88	19000
APR 21...	1100	2770	9.0	4240	69	31700
JUN 23...	1200	3480	20.0	848	42	7970
AUG 23...	1230	3770	23.5	47700	--	486000

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 mi² (289,300 km²), approximately, including 3,959 mi² (10,254 km²) in Great Divide Basin in southern Wyoming, which is noncontributing.

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

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Sept. 1, 1964, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by concrete-arch gravity dam; storage began Mar. 13, 1963; dam completed September 1963. Total capacity, 27,000,000 acre-ft (33,300 hm³), consisting of the following: Dead storage, 1,998,000 acre-ft (2,460 hm³) below elevation 3,370 ft (1,027 m)--sill of outlet gates; usable contents, 25,002,000 acre-ft (30,800 hm³) between elevations 3,370 ft (1,027 m) and 3,700 ft (1,128 m)--top of conservation pool. Reservoir is used for power development, to provide storage replacement for upstream irrigation development, and to meet downstream requirements under the Colorado River Compact of 1922. Figures given herein represent usable contents; prior to Oct. 1, 1968, figures of total contents were published (prior to sealing of diversion tunnel July 7, 1965, all storage was usable).

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES (at 2400) FOR PERIOD OF RECORD.--Maximum contents, 25,099,000 acre-ft (30,900 hm³) 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 hm³) Mar. 18, 1965, elevation, 3,490.76 ft (1,063.984 m).

EXTREMES (at 2400) FOR CURRENT YEAR.--Maximum contents, 23,035,000 acre-ft (28,400 hm³) Aug. 1, elevation, 3,687.46 ft (1,123.938 m); minimum, 19,353,000 acre-ft (23,900 hm³) Feb. 13, elevation, 3,661.89 ft (1,116.144 m).

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

3,660	19,099,000	3,680	21,916,000
3,665	19,779,000	3,685	22,662,000
3,670	20,474,000	3,690	23,424,000
3,675	21,187,000		

RESERVOIR STORAGE, IN THOUSANDS OF ACRE FEET, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20745	20749	20555	20125	19590	19483	19639	19885	21192	22683	23035	22903
2	20778	20742	20547	20117	19575	19486	19632	19921	21273	22727	23028	22894
3	20791	20741	20536	20101	19556	19490	19628	19956	21320	22771	23034	22888
4	20825	20714	20519	20079	19531	19493	19643	19983	21381	22816	23029	22892
5	20829	20739	20507	20064	19508	19501	19620	20030	21435	22857	23022	22882
6	20823	20734	20499	20062	19487	19512	19613	20079	21481	22886	23011	22872
7	20821	20725	20490	20033	19467	19524	19605	20142	21522	22913	23032	22880
8	20822	20732	20481	20012	19439	19530	19588	20209	21572	22930	23009	22871
9	20822	20660	20475	19993	19413	19541	19591	20278	21605	22945	23000	22866
10	20822	20714	20465	19983	19400	19552	19582	20319	21649	22973	22990	22865
11	20828	20666	20451	19965	19387	19553	19579	20367	21702	22991	22973	22879
12	20828	20678	20434	19929	19371	19558	19579	20412	21752	23000	22962	22882
13	20818	20666	20421	19892	19353	19562	19572	20451	21803	22999	22950	22903
14	20823	20664	20396	19871	19358	19568	19565	20496	21869	22999	22938	22913
15	20819	20666	20378	19860	19360	19590	19575	20544	21922	23000	22942	22910
16	20828	20660	20364	19852	19371	19591	19588	20581	21977	23006	22933	22924
17	20845	20650	20330	19852	19381	19601	19610	20620	22018	23012	22910	22933
18	20855	20650	20298	19835	19392	19602	19640	20647	22081	23020	22903	22945
19	20843	20629	20270	19812	19399	19603	19669	20681	22124	23023	22895	22959
20	20828	20617	20257	19798	19411	19610	19676	20690	22185	23022	22888	22964
21	20809	20599	20242	19772	19421	19624	19702	20714	22244	23018	22880	22967
22	20795	20599	20221	19746	19425	19629	19723	20742	22290	23009	22879	22965
23	20782	20591	20202	19729	19426	19632	19743	20776	22329	23006	22877	22965
24	20782	20585	20154	19714	19426	19631	19758	20822	22362	23009	22880	22971
25	20784	20575	20176	19701	19428	19627	19778	20848	22410	23008	22888	22982
26	20784	20574	20168	19681	19437	19621	19798	20876	22461	23008	22917	22986
27	20778	20575	20172	19669	19447	19629	19813	20905	22510	23014	22924	22986
28	20778	20589	20158	19640	19470	19632	19827	20952	22551	23005	22930	22997
29	20755	20585	20144	19631	---	19638	19846	21003	22569	23009	22935	23012
30	20751	20569	20125	19620	---	19639	19859	21084	22649	23017	22924	23005
31	20748	---	20119	19606	---	19635	---	21127	---	23017	22909	---
MAX	20855	20749	20555	20125	19590	19639	19859	21127	22649	23023	23035	23012
MIN	20745	20569	20119	19606	19353	19483	19565	19885	21192	22683	22877	22865
(+)	3671.94	3670.68	3667.47	3663.74	3662.74	3663.95	3665.58	3674.59	3684.92	3687.34	3686.63	3687.26
(+)	-3000	-179000	-450000	-513000	-136000	+165000	+224000	+1268000	+1522000	+368000	-108000	+96000

CAL YR 1981 (+) -1985000

WTR YR 1982 (+) +2254000

(+) ELEVATION, IN FEET, AT END OF MONTH
(+) CHANGE IN CONTENTS, IN ACRE-FEET

09380000 COLORADO RIVER AT LEES FERRY, AZ
(National stream-quality accounting network and pesticide station)

LOCATION.--Lat 36°51'53", long 111°35'15", in NE¼SE¼ sec. 13, T.40 N., R.7 E., Coconino County, Hydrologic Unit 14070006, in Navajo Indian Reservation, on left bank at head of Marble Gorge at Lees Ferry, just upstream from Paria River, 16 mi (26 km) downstream from Glen Canyon Dam, 28 mi (45 km) downstream from Utah-Arizona State line, and 61.5 mi (99.0 km) upstream from Little Colorado River.

DRAINAGE AREA.--111,800 mi² (289,600 km²), approximately, including 3,959 mi² (10,254 km²) in Great Divide basin in southern Wyoming which is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1895 to current year. Calendar year estimates and monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 859: 1921-23. WSP 1313: 1914-21.

GAGE.--Water-stage recorder. Datum of gage is 3,106.16 ft (946.758 m) NGVD of 1929. Prior to Jan. 19, 1923, non-recording gages or reference points within 400 ft (120 m) of present gage, at different datums.

REMARKS.--Water-discharge record excellent. Flow completely regulated by Lake Powell 16 mi (26 km) upstream since Mar. 13, 1963. Many diversions above Lake Powell for irrigation, municipal, and industrial use. No diversions or inflow between Lake Powell and the gage.

AVERAGE DISCHARGE.--51 years (water years 1912-62), 17,850 ft³/s (505.5 m³/s), 12,923,000 acre-ft/yr (15,900 hm³/yr); 18 years (water years 1965-82), 12,170 ft³/s (344.7 m³/s), 8,817,000 acre-ft/yr (10,900 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--1895-1962: Maximum discharge, 220,000 ft³/s (6,230 m³/s) June 18, 1921, gage height, 26.5 ft (8.08 m), from floodmarks, from rating curve extended above 120,000 ft³/s (3,400 m³/s) on basis of discharge computed for station near Grand Canyon; minimum 750 ft³/s (21.2 m³/s) Dec. 27, 1924. 1963-82: Maximum discharge, 60,200 ft³/s (1,705 m³/s) June 15, 1965, gage height, 15.02 ft (4.578 m); minimum daily, 700 ft³/s (19.8 m³/s) Jan. 23, 24, 1963, result of closing coffer dam at Glen Canyon Dam.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1868, about 300,000 ft³/s (8,500 m³/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 ft³/s (3,400 m³/s) on basis of discharge computed for flood of June 18, 1921, for station near Grand Canyon.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,700 ft³/s (841.1 m³/s) May 25, gage height, 11.98 ft (3.652 m); minimum daily, 2,910 ft³/s (82.4 m³/s) Mar. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7780	5860	12200	6350	16900	7820	8750	8890	9310	11000	9210	14500
2	6920	11000	13500	9580	15500	12000	11800	7170	9100	14100	12100	15700
3	6460	9200	12300	10400	19400	12700	8930	9530	8520	10900	12100	11800
4	3370	7840	15500	15800	20700	10400	8260	12000	7790	10000	13700	10800
5	8690	9800	13000	15100	21500	10500	11500	14000	9440	11200	14700	9400
6	8600	10300	9790	11800	16000	5200	11400	15400	10800	12000	14000	9030
7	10900	8990	10100	13800	16000	4260	15900	11900	12100	13900	12500	9370
8	9690	6930	10300	14400	17700	7250	16400	7150	12500	18900	12100	13700
9	7920	8870	9850	12600	18900	6300	12400	6500	17000	12300	14300	13100
10	7890	14100	11500	8580	18200	5010	8670	9190	12700	11600	15600	10300
11	3840	15600	12200	14400	17200	9340	7880	8140	10600	9930	16300	6390
12	8540	14800	13700	17500	17900	9440	11400	7930	8020	14700	15900	6340
13	9900	12000	13600	20200	18000	7830	11300	7790	6910	17100	16800	7530
14	9580	7620	18500	16600	9640	2910	14300	8480	7040	18100	14800	10700
15	10300	5670	17200	13200	7730	8720	13400	6300	7940	16500	11400	10200
16	7210	9450	17000	9870	5530	6630	11800	6330	9810	14500	14700	9740
17	5810	10100	20500	6640	4720	7050	8520	9480	11900	9760	16900	10800
18	8400	9910	22200	16100	4910	9240	2940	9890	9260	9940	17700	8640
19	15800	13800	21500	17200	5870	11000	9680	10400	8780	12800	18600	7580
20	20100	16100	12300	18000	4700	8980	10200	13500	8110	13900	16500	11700
21	20800	13200	16900	19300	4740	3420	8520	10500	11100	18700	14300	11200
22	17600	5870	16300	20700	6690	6560	8530	9040	13200	15800	12100	15200
23	13900	9270	16100	19600	10300	8200	10200	7890	15100	14500	14700	16000
24	10300	9070	15300	13100	11800	11000	9410	6300	14200	10500	14400	13100
25	6760	10900	10400	15800	11000	13600	7810	14500	13700	8690	15700	9450
26	9120	5860	8600	15300	8140	12200	8670	18100	11200	9900	15300	6610
27	9210	8380	7650	16000	7530	6990	10500	15400	8990	11900	18900	7200
28	10300	5000	11600	19500	4190	5280	8710	10100	13000	12100	15500	7350
29	12400	7410	12100	16900	---	8600	10700	10400	11100	12100	12800	9000
30	10100	11900	12200	13000	---	8240	10900	8480	10500	13400	18700	8810
31	8690	---	8520	12500	---	9790	---	9990	---	11000	20000	---
TOTAL	306880	294800	422410	449820	341390	256460	309380	310670	319720	401720	462310	311240
MEAN	9899	9827	13630	14510	12190	8273	10310	10020	10660	12960	14910	10370
MAX	20800	16100	22200	20700	21500	13600	16400	18100	17000	18900	20000	16000
MIN	3370	5000	7650	6350	4190	2910	2940	6300	6910	8690	9210	6340
AC-FT	608700	584700	837900	892200	677100	508700	613700	616200	634200	796800	917000	617300

CAL YR 1981 TOTAL 3956780 MEAN 10840 MAX 22200 MIN 3240 AC-FT 7848000
WTR YR 1982 TOTAL 4186800 MEAN 11470 MAX 22200 MIN 2910 AC-FT 8305000

NOTE: Water-quality records for the current year are published in the report "Water Resources Data for Arizona, 1982."

09382000 PARIA RIVER AT LEES FERRY, AZ

LOCATION.--Lat 36°52'20", long 111°35'38", in NW¼NE¼ sec.13, T.40 N., R.7 E., Coconino County, Hydrologic Unit 14070007, on left bank 0.6 mi (1.0 km) northwest of Lees Ferry, and 1.1 mi (1.8 km) upstream from mouth.

DRAINAGE AREA.--1,410 mi² (3,652 km²).

PERIOD OF RECORD.--October 1923 to current year.

REVISED RECORDS.--WSP 1925: 1958(M), drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,123.68 ft (952.098 m), revised, NGVD of 1929. Prior to Oct. 5, 1925, nonrecording gage at site 2,000 ft (610 m) upstream at different datum. Oct. 13, 1925, to Sept. 11, 1929, nonrecording gage at present site and datum.

REMARKS.--Records fair. Diversions above station for irrigation of about 3,300 acres (13.4 km²).

AVERAGE DISCHARGE.--59 years, 29.9 ft³/s (0.847 m³/s), 21,660 acre-ft/yr (26.7 hm³/yr); median of yearly mean discharges, 26 ft³/s (0.74 m³/s), 18,800 acre-ft/yr (23 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,100 ft³/s (456 m³/s) Oct. 5, 1925, gage height, 16.3 ft (4.97 m), from floodmark, from rating curve extended above 2,000 ft³/s (57 m³/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 ft³/s (0.03 m³/s) in most years prior to 1931.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,400 ft³/s (39.6 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Oct. 3	0100	*2,400	68.0	11.08	3.377
Aug. 24	0100	1,760	49.8	10.10	3.078

Minimum daily, 3.1 ft³/s (0.088 m³/s) June 30, July 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	14	31	26	23	30	30	20	3.6	3.3	6.0	12
2	83	12	22	26	22	34	44	24	3.6	3.3	123	11
3	378	12	21	24	16	44	30	87	3.9	3.2	175	11
4	54	13	25	6.0	21	36	30	26	3.7	3.2	40	10
5	41	16	30	8.0	24	28	25	16	3.5	3.1	12	9.9
6	49	16	34	26	14	24	24	13	3.2	3.1	9.3	10
7	30	45	31	21	7.0	23	20	12	3.6	3.9	9.0	12
8	20	45	32	6.8	14	24	20	11	3.3	5.0	9.0	12
9	18	29	29	9.8	11	22	20	9.6	3.3	7.8	9.0	12
10	17	22	29	10	21	19	20	9.0	3.5	4.9	16	18
11	18	22	29	9.4	36	22	20	17	3.6	4.4	14	16
12	344	22	27	13	34	36	25	11	3.5	4.2	37	20
13	128	23	26	18	27	38	22	10	3.5	4.2	146	18
14	33	24	26	21	34	30	20	9.0	3.6	4.0	136	14
15	22	25	24	21	35	36	20	8.0	3.5	4.0	38	22
16	19	24	24	21	42	38	20	7.8	3.5	4.0	15	15
17	19	24	23	23	62	35	20	7.3	3.6	4.2	10	11
18	18	24	18	26	66	35	20	8.3	3.9	4.4	10	11
19	17	23	18	27	67	30	20	7.5	4.0	4.4	15	10
20	16	22	22	24	41	30	20	6.8	3.9	4.2	10	10
21	17	23	25	21	45	29	20	6.8	4.5	4.0	10	10
22	18	24	26	22	51	30	22	6.6	5.6	3.9	92	10
23	18	25	20	11	51	25	30	6.2	6.0	3.9	72	11
24	18	24	16	14	46	25	27	6.0	5.0	4.2	359	11
25	18	24	8.0	20	38	20	20	6.0	4.0	18	73	11
26	18	23	14	29	35	25	20	6.0	3.7	24	100	11
27	18	22	23	31	36	29	20	5.0	3.6	20	48	48
28	18	30	26	42	35	25	20	5.0	3.6	15	209	196
29	20	30	16	38	---	25	20	4.0	3.4	15	38	36
30	16	53	21	33	---	30	20	4.0	3.1	10	20	87
31	14	---	26	23	---	34	---	4.0	---	8.0	15	---
TOTAL	1524.0	735	742.0	651.0	954.0	911	689	379.9	114.3	208.8	1875.3	695.9
MEAN	49.2	24.5	23.9	21.0	34.1	29.4	23.0	12.3	3.81	6.74	60.5	23.2
MAX	378	53	34	42	67	44	44	87	6.0	24	359	196
MIN	7.0	12	8.0	6.0	7.0	19	20	4.0	3.1	3.1	6.0	9.9
AC-FT	3020	1460	1470	1290	1890	1810	1370	754	227	414	3720	1380
CAL YR 1981	TOTAL	11435.5	MEAN 31.3	MAX 650	MIN 4.9	AC-FT 22680						
WTR YR 1982	TOTAL	9480.2	MEAN 26.0	MAX 378	MIN 3.1	AC-FT 18800						

KANAB CREEK BASIN

09403600 KANAB CREEK NEAR KANAB, UTAH

LOCATION.--Lat 37°06'02", Long 112°32'50", in NE¼NE¼SW¼ sec.5, T.43 S., R.6 W., Kane County, Hydrologic Unit 15010003, at upstream edge of left bridge pier on U.S. Highway 89, 300 ft (91 m) upstream from Tiny Canyon and 3.5 mi (5.6 km) north of Kanab.

DRAINAGE AREA.--198 mi² (513 km²).

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 ft³/s (85.5 m³/s) Sept. 8, 1961, gage height, 19.80 ft (6.035 m) at different datum.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,060 ft³/s (30.0 m³/s) Apr. 6, 1980, maximum gage height, 7.63 ft (2.33 m) Aug. 14, 1982; minimum daily discharge, 3.2 ft³/s (0.091 m³/s) July 26, 27, 1982.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 200 ft³/s (5.66 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Aug. 14	1030	*327	9.26	7.63	2.33
Aug. 23	1930	256	7.25	7.08	2.16

Minimum daily, 3.2 ft³/s (0.091 m³/s) July 26, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	13	11	12	20	32	39	14	8.7	3.5	6.8	6.6
2	25	13	16	12	17	34	27	15	7.4	4.2	4.9	6.6
3	26	13	16	12	16	28	30	17	6.9	3.9	3.7	6.6
4	26	12	15	12	15	26	26	16	7.2	4.5	3.7	6.6
5	26	11	12	12	14	22	23	14	6.7	3.9	3.7	6.6
6	25	16	12	12	14	22	23	12	6.0	3.5	3.7	6.6
7	25	12	13	12	14	22	23	10	5.9	3.7	3.7	6.6
8	26	15	13	12	15	23	21	9.4	5.8	4.5	3.7	6.6
9	26	10	10	12	17	21	30	8.6	5.3	5.3	3.7	6.6
10	29	8.7	9.9	12	18	22	28	8.5	4.9	4.5	3.7	6.6
11	60	8.7	12	12	23	25	20	8.5	5.5	4.2	5.0	7.0
12	38	9.9	13	12	17	43	25	8.4	6.7	3.9	7.0	7.0
13	26	9.5	14	13	15	25	20	8.2	6.9	4.2	9.3	7.0
14	38	9.5	13	13	15	25	23	7.9	7.4	4.2	5.4	7.0
15	37	7.9	13	14	16	32	23	7.3	6.1	3.9	4.8	7.0
16	42	9.5	11	14	17	27	22	7.4	5.2	3.7	4.8	7.0
17	25	8.3	11	14	19	21	21	8.3	5.2	4.5	4.8	7.0
18	30	9.1	10	14	16	21	20	9.1	5.6	4.2	4.8	7.0
19	22	13	9.5	14	19	20	19	8.2	5.3	3.7	4.8	7.0
20	19	14	9.9	14	20	19	19	9.0	5.9	4.5	4.8	7.0
21	18	11	14	14	21	19	18	8.3	6.4	3.7	6.5	7.0
22	23	10	15	14	22	21	17	8.0	5.6	3.9	7.0	7.0
23	17	11	12	14	25	20	17	7.3	5.7	3.5	27	7.0
24	18	10	12	14	24	20	16	7.7	5.3	3.7	21	7.0
25	17	9.5	13	14	23	20	16	6.5	5.3	3.7	13	7.0
26	16	12	12	14	27	20	16	8.2	5.5	3.2	20	7.5
27	15	11	14	14	27	22	15	7.8	5.2	3.2	17	25
28	19	15	14	14	28	19	15	5.8	5.3	4.9	12	9.3
29	16	10	13	14	---	19	14	6.5	5.6	6.0	8.5	9.3
30	23	10	12	14	---	18	14	6.6	4.5	5.6	7.0	9.2
31	18	---	12	18	---	22	---	8.1	---	6.0	6.6	---
TOTAL	796	332.6	387.3	412	534	730	640	287.6	179.0	129.9	242.4	231.3
MEAN	25.7	11.1	12.5	13.3	19.1	23.5	21.3	9.28	5.97	4.19	7.82	7.71
MAX	60	16	16	18	28	43	39	17	8.7	6.0	27	25
MIN	15	7.9	9.5	12	14	18	14	5.8	4.5	3.2	3.7	6.6
AC-FT	1580	660	768	817	1060	1450	1270	570	355	258	481	459

CAL YR 1981	TOTAL	5331.3	MEAN 14.6	MAX 94	MIN 5.0	AC-FT	10570
WTR YR 1982	TOTAL	4902.1	MEAN 13.4	MAX 60	MIN 3.2	AC-FT	9720

09404450 EAST FORK VIRGIN RIVER NEAR GLENDALE, UTAH

LOCATION.--Lat 37°20'19", long 112°36'13", in SE¼NE¼NW¼ sec.14, T.40 S., R.7 W., Kane County, Hydrologic Unit 15010008, on right bank 50 ft (15 m) downstream from Lydia's Creek, and 1.0 mi (1.6 km) north of the town of Glendale on U.S. Highway 89.

DRAINAGE AREA.--69.2 mi² (179 km²).

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.--16 years, 20.7 ft³/s (0.586 m³/s), 15,000 acre-ft/yr (18.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 640 ft³/s (18.1 m³/s) July 27, 1976, gage height, 4.14 ft (1.26 m); minimum, 6.3 ft³/s (0.18 m³/s) June 18, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 50 ft³/s (1.42 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 11	0900	50	1.42	Aug. 23	1730	85	2.41
Mar. 12	0230	52	1.47	Aug. 26	1800	69	1.95
Mar. 31	1830	59	1.67	Sept. 27	0400	*93	2.63
							1.64
							1.54
							1.69
							0.500
							.469
							.515

Minimum, 10 ft³/s (0.283 m³/s) July 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	15	17	19	17	26	33	24	15	11	12	12
2	19	15	18	18	17	32	31	24	15	12	13	12
3	19	15	18	16	17	27	32	28	14	12	12	12
4	17	15	17	18	17	23	32	27	13	12	11	12
5	17	15	18	19	16	21	30	26	13	12	11	12
6	15	17	18	18	14	21	29	23	13	12	11	12
7	15	26	18	17	15	21	28	21	13	12	11	12
8	15	18	17	16	16	21	26	20	13	12	11	12
9	14	16	17	18	17	22	26	20	13	12	11	12
10	14	16	17	18	18	23	26	20	13	11	11	12
11	29	15	17	18	19	28	29	20	13	11	11	13
12	22	15	17	17	18	41	37	20	13	11	14	12
13	17	15	17	17	18	28	32	19	13	11	16	13
14	16	15	16	17	19	36	30	19	12	11	12	13
15	17	15	16	17	20	39	29	19	13	11	11	13
16	17	15	16	17	22	32	28	18	12	11	11	13
17	16	15	15	18	21	29	27	18	12	11	11	13
18	15	15	15	18	21	27	27	18	12	11	11	13
19	15	15	16	17	22	27	26	17	12	11	11	13
20	15	16	16	18	24	26	26	17	13	11	11	13
21	15	16	18	18	26	27	25	16	14	11	13	12
22	15	16	16	17	27	27	25	16	13	11	12	12
23	15	16	15	17	27	27	16	16	13	11	19	12
24	15	17	15	19	25	27	26	17	12	11	15	12
25	15	17	15	19	26	28	25	16	12	11	14	12
26	15	16	15	19	26	32	26	15	11	11	21	13
27	15	17	16	20	25	29	26	15	11	11	19	47
28	16	17	15	19	25	28	24	15	12	11	14	19
29	19	18	15	19	---	30	24	15	11	12	13	16
30	15	18	16	16	---	29	24	15	12	11	13	17
31	15	---	17	16	---	37	---	16	---	11	12	---
TOTAL	508	487	509	550	575	871	836	590	381	350	398	421
MEAN	16.4	16.2	16.4	17.7	20.5	28.1	27.9	19.0	12.7	11.3	12.8	14.0
MAX	29	26	18	20	27	41	37	28	15	12	21	47
MIN	14	15	15	16	14	21	24	15	11	11	11	12
AC-FT	1010	966	1010	1090	1140	1730	1660	1170	756	694	789	835

CAL YR 1981 TOTAL 6391.8 MEAN 17.5 MAX 36 MIN 9.6 AC-FT 12680
WTR YR 1982 TOTAL 6476.0 MEAN 17.7 MAX 47 MIN 11 AC-FT 12850

VIRGIN RIVER BASIN

09405420 NORTH FORK VIRGIN RIVER BELOW BULLOCH CANYON, NEAR GLENDALE, UTAH

LOCATION.--Lat 37°25'06", long 112°47'59", in SW¼NW¼SE¼ sec.13, T.39 S., R.9 W., Kane County, Hydrologic Unit 15010008, on left bank 200 ft (61 m) below Bulloch 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 mi² (76.7 km²).

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 good. Diversions for irrigation of about 600 acres (243 hm²) above station.

AVERAGE DISCHARGE.--8 years, 18.5 ft³/s (0.524 m³/s), 13,400 acre-ft/yr (16.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge estimated, 225 ft³/s (6.37 m³/s) Oct. 2, 1977, gage height unknown; minimum, 2.6 ft³/s (0.07 m³/s) Aug. 3, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge determined before station was installed, 1,740 ft³/s (49.3 m³/s) Sept. 9, 1974 on basis of slope-area measurement at gage height 7.44 ft (2.27 m) from high-water marks.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 30 ft³/s (0.85 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Oct. 11	0530	58	1.643	4.91	1.497
Apr. 13	unknown	95	2.690	5.30	1.615
July 26	1900	50	1.416	4.86	1.481
Aug. 12	1330	120	3.398	5.35	1.631
Aug. 23	1730	128	3.625	5.41	1.649
Sept. 27	0245	*204	5.777	5.75	1.753

Minimum, 5.2 ft³/s (0.147 m³/s) Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	13	9.3	9.8	8.3	19	25	35	25	21	15	16
2	17	12	11	8.9	9.3	20	22	39	23	20	21	15
3	14	12	11	12	9.2	18	24	37	23	19	16	14
4	15	11	11	9.4	9.0	16	28	38	22	20	16	14
5	13	11	12	9.8	8.5	15	26	36	22	20	15	14
6	11	13	12	9.5	8.0	14	25	34	23	19	15	14
7	11	17	12	9.0	8.0	15	25	32	24	21	15	18
8	11	13	12	8.6	8.5	15	25	32	23	20	14	15
9	11	12	11	8.4	8.7	15	27	32	22	18	13	13
10	12	11	12	8.5	9.1	16	29	35	22	18	12	17
11	33	10	12	7.3	9.2	23	37	33	22	18	13	18
12	20	10	11	7.2	9.6	29	45	29	22	18	27	17
13	15	9.8	11	7.2	10	24	55	24	22	19	25	20
14	14	9.8	11	7.3	11	27	40	22	21	19	20	18
15	14	9.5	11	7.5	12	25	35	19	21	19	18	18
16	14	9.6	10	7.0	13	22	31	20	20	19	18	17
17	13	9.6	9.2	6.6	13	20	31	22	20	18	19	18
18	12	9.5	9.6	6.6	13	19	31	23	25	18	18	17
19	11	9.9	10	6.5	14	19	31	22	24	18	16	18
20	11	10	10	6.6	15	17	29	24	26	17	16	17
21	10	10	11	7.0	17	17	27	25	25	16	18	18
22	10	10	9.4	7.6	19	18	27	24	22	16	20	18
23	9.8	10	7.9	8.5	18	19	28	26	21	16	33	17
24	11	10	7.8	8.5	17	21	28	25	21	18	31	17
25	11	10	9.2	7.9	18	23	28	26	21	18	32	17
26	10	8.4	9.1	8.1	18	24	30	26	20	23	35	23
27	10	8.7	9.5	8.5	18	23	31	26	20	19	27	44
28	14	10	9.0	8.1	19	25	33	26	20	17	20	24
29	21	11	9.3	7.8	---	23	34	27	21	16	16	21
30	15	9.9	9.1	8.5	---	20	33	27	21	14	16	23
31	14	---	9.1	8.2	---	25	---	26	---	13	16	---
TOTAL	416.9	320.7	318.5	252.4	350.4	626	920	872	664	565	606	550
MEAN	13.4	10.7	10.3	8.14	12.5	20.2	30.7	28.1	22.1	18.2	19.5	18.3
MAX	33	17	12	12	19	29	55	39	26	23	35	44
MIN	9.1	8.4	7.8	6.5	8.0	14	22	19	20	13	12	13
AC-FT	827	636	632	501	695	1240	1820	1730	1320	1120	1200	1090

CAL YR 1981 TOTAL 5273.3 MEAN 14.4 MAX 38 MIN 7.8 AC-FT 10460
WTR YR 1982 TOTAL 6461.9 MEAN 17.7 MAX 55 MIN 6.5 AC-FT 12820

09405450 NORTH FORK VIRGIN RIVER ABOVE ZION NARROWS, NEAR GLENDALE, UTAH

LOCATION.--Lat 37°23'26", long 112°49'30", in NW¼NW¼SW¼ sec.26, T.39 S., R.9 W., Kane County, Hydrologic Unit 15010008, on left bank 300 ft (91.4 m) below diversion, 10 mi (16.1 km) south of Navajo Lake, 22.5 road mi (36.2 km) from Navajo Lake turnoff at U-14 and 13.5 mi (21.7 km) northwest of Glendale.

DRAINAGE AREA.--45.5 mi² (118 km²).

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 fair. Several small diversions for irrigation of about 800 acres (324 hm²) above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 242 ft³/s (6.85 m³/s) Aug. 23, 1982, may have been exceeded by flood of Feb. 14, 1980, discharge unknown; minimum daily, 2.2 ft³/s (0.062 m³/s) Aug. 12, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 70 ft³/s (1.98 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	(m ³ /s)	Gage height (ft)	(m)
Apr. 13	unknown	93	2.63	2.05	0.625
Aug. 12	1830	133	3.77	2.30	.701
Aug. 23	1815	*242	6.85	2.83	.863
Sept. 27	0315	166	4.70	2.48	.756

Minimum daily, 6.0 ft³/s (0.17 m³/s) Jan. 19, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	11	9.4	8.5	8.4	19	25	30	21	16	13	14
2	6.2	10	9.0	8.2	8.8	20	21	36	20	15	16	14
3	8.5	9.7	9.6	9.8	9.0	18	24	35	20	15	13	13
4	9.2	9.7	10	9.0	8.8	17	26	38	19	15	13	12
5	11	9.4	11	9.0	8.4	16	25	32	18	15	12	10
6	9.2	10	11	8.7	8.0	15	24	29	18	15	12	9.6
7	8.5	13	11	8.4	7.8	14	23	29	18	16	12	12
8	8.2	12	11	8.2	7.8	14	23	28	18	15	12	9.5
9	8.0	11	11	8.0	8.0	14	25	28	19	15	13	9.1
10	7.9	11	11	8.0	8.4	15	28	32	19	14	12	11
11	14	10	11	7.2	8.8	20	32	29	19	14	13	11
12	13	10	11	6.9	9.6	28	43	27	19	14	24	10
13	11	9.8	11	6.8	10	25	54	23	18	14	22	12
14	11	10	10	6.8	11	27	44	22	18	14	16	11
15	10	10	11	7.0	12	24	29	20	18	14	15	11
16	10	9.7	10	6.5	12	21	29	20	18	14	14	9.5
17	10	9.7	9.0	6.2	12	20	28	20	17	14	15	9.7
18	11	9.7	8.6	6.1	12	19	28	20	19	14	15	9.5
19	11	8.8	9.0	6.0	12	18	28	19	18	13	14	9.6
20	9.7	8.5	9.5	6.0	14	17	26	20	18	13	14	9.1
21	9.3	9.1	9.9	6.4	16	17	24	20	17	12	15	8.8
22	9.2	9.7	9.0	6.8	18	18	24	20	16	12	9.6	8.4
23	8.7	9.7	7.6	7.7	19	19	24	21	16	12	27	8.1
24	8.5	9.7	7.0	8.0	18	20	25	22	15	13	22	7.9
25	8.5	9.7	7.8	7.6	18	22	24	22	15	13	18	8.0
26	8.5	9.5	8.5	8.0	18	24	25	22	15	15	22	10
27	8.7	12	8.5	8.4	18	23	26	21	15	14	20	49
28	8.9	12	8.5	8.0	19	25	28	21	15	13	17	24
29	14	11	8.5	7.6	---	23	29	22	15	13	15	20
30	12	10	8.5	8.2	---	20	29	22	16	12	15	23
31	11	---	8.5	8.0	---	24	---	21	---	12	15	---
TOTAL	300.8	305.4	296.4	236.0	340.8	616	843	771	527	430	485.6	383.8
MEAN	9.70	10.2	9.56	7.61	12.2	19.9	28.1	24.9	17.6	13.9	15.7	12.8
MAX	14	13	11	9.8	19	28	54	38	21	16	27	49
MIN	6.1	8.5	7.0	6.0	7.8	14	21	19	15	12	9.6	7.9
AC-FT	597	606	588	468	676	1220	1670	1530	1050	853	963	761

CAL YR 1981 TOTAL 4837.3 MEAN 13.3 MAX 41 MIN 2.2 AC-FT 9590
WTR YR 1982 TOTAL 5535.8 MEAN 15.2 MAX 54 MIN 6.0 AC-FT 10980

NOTE.--No gage-height record Dec. 17 to Apr. 14.

VIRGIN RIVER BASIN

09405450 NORTH FORK VIRGIN RIVER ABOVE ZION NARROWS, NEAR GLENDALE, UT--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--October 1974 to September 1977, October 1981 to September 1982. Monthly records, October 1977 to September 1979.

REMARKS.--Unpublished daily records of sediment are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 12,900 mg/L Oct. 2, 1976; minimum daily mean, 1 mg/L Oct. 20, 1975.

SEDIMENT LOADS: Maximum daily, 1,080 tons (980 tonnes) Oct. 2, 1976; minimum daily 0.02 ton (0.02 tonne) Oct. 20, 1975.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,220 mg/L Sept. 27; minimum daily, 3 mg/L July 17, 21.

SEDIMENT LOADS: Maximum daily, 161 tons (146 tonnes) Sept. 27; minimum daily, 0.10 ton (0.091 tonne) July 21.

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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	130	2.1	48	1.4								
2	145	2.4	25	.68								
3	155	3.6	25	.65								
4	150	3.7	25	.65								
5	130	3.9	21	.53								
6	108	2.7	20	.54								
7	90	2.1	20	.70								
8	80	1.8	19	.62								
9	95	2.1	16	.48								
10	130	2.8	12	.36								
11	145	5.5	10	.27								
12	135	4.7	9	.24								
13	110	3.3	9	.24								
14	80	2.4	9	.24								
15	40	1.1	8	.22								
16	44	1.2	8	.21								
17	35	.95	8	.21								
18	24	.71	8	.21								
19	10	.30	8	.19								
20	8	.21	8	.18								
21	9	.23	10	.25								
22	6	.15	11	.29								
23	5	.12	11	.29								
24	6	.14	12	.31								
25	7	.16	13	.34								
26	52	1.2	12	.31								
27	83	1.9	12	.39								
28	80	1.9	11	.36								
29	68	2.6	11	.33								
30	75	2.4	11	.30								
31	86	2.6	---	---								
TOTAL	---	60.97	---	11.99	---	15	---	10	---	55	---	525

09405500 NORTH FORK VIRGIN RIVER NEAR SPRINGDALE, UTAH

LOCATION.--Lat 37°12'35", long 112°58'40", in NW¼SW¼NW¼ sec.22, T.41 S., R.10 W., Washington County, Hydrologic Unit 15010008, on right bank in Zion National Park, 0.2 mi (0.3 km) downstream from point of diversion of Springdale Canal, 0.5 mi (0.8 km) downstream from Pine Creek, and 1.9 mi (3.1 km) northeast of Springdale.

DRAINAGE AREA.--344 mi² (891 km²).

PERIOD OF RECORD.--May 1913 to June 1914, June to November 1923, April to June, August and September 1925 (fragmentary), October 1925 to current year. Published as Zion Creek near Springdale 1913-14 (flow of Springdale Canal not included) and as Mukuntuweap River near Springdale 1923, 1925-32.

GAGE.--Water-stage recorder. Altitude of gage is 3,970 ft (1,210 m) from topographic map. May 13, 1913 to June 30, 1914, nonrecording gage at site 3.2 mi (5.1 km) downstream at different datum. June 6, 1923 to Dec. 14, 1949, nonrecording gages at several sites within 0.8 mi (1.3 km) of present site at various datums.

REMARKS.--Records good. Figures given herein include Springdale Canal, which diverts water in NW¼NW¼ sec.22, T.41 S., R.10 W., for irrigation in vicinity of Springdale. Diversion for irrigation of about 1,400 acres (570 hm²) above station.

AVERAGE DISCHARGE.--57 years, 103 ft³/s (2.917 m³/s), 74,620 acre-ft/yr (92.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,150 ft³/s (259 m³/s) Dec. 6, 1966, gage height, 12.98 ft (3.956 m), from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of drift measurement at gage height 6.7 ft (2.045 m), and a slope-area measurement at gage height 10.25 ft (3.124 m); minimum observed, 20 ft³/s (0.57 m³/s) July 31, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,780 ft³/s (78.7 m³/s) Sept. 27, gage height, 6.65 ft (2.027 m) minimum daily, 33 ft³/s (0.935 m³/s) Dec. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	53	43	60	51	73	116	731	137	84	61	55
2	153	51	48	48	49	86	102	745	126	81	71	54
3	112	49	50	39	48	72	99	801	113	80	49	53
4	56	49	51	46	52	61	101	777	105	79	42	59
5	57	49	53	57	45	58	104	574	98	79	41	63
6	52	59	53	56	41	54	92	409	90	79	58	58
7	49	83	52	40	41	57	86	423	87	80	64	63
8	47	61	52	35	46	63	81	449	85	82	65	65
9	45	56	52	40	49	58	85	415	85	79	64	59
10	45	53	52	48	51	62	93	368	82	78	62	69
11	94	54	51	49	53	190	140	322	81	75	64	66
12	73	52	50	51	52	272	261	280	80	78	79	57
13	57	51	50	46	49	94	258	250	78	78	110	59
14	53	52	49	45	53	124	293	274	76	77	60	63
15	52	52	49	45	57	243	336	290	75	78	49	57
16	53	51	51	45	63	108	311	277	75	79	45	54
17	54	49	42	46	64	87	295	314	81	79	45	55
18	54	50	43	46	62	94	337	330	92	79	55	57
19	50	47	53	47	58	82	362	305	93	79	46	56
20	50	47	52	46	62	75	287	289	82	78	61	54
21	50	50	53	48	65	71	236	281	86	80	61	53
22	48	51	49	42	69	72	214	263	76	89	81	52
23	48	49	37	44	73	79	188	253	72	110	117	50
24	48	50	33	46	64	83	276	237	71	160	139	49
25	48	50	45	49	66	91	369	207	69	109	73	49
26	48	41	51	54	70	129	430	194	68	78	80	63
27	48	48	55	56	68	102	522	183	66	64	97	530
28	49	52	44	55	65	98	641	175	62	56	86	113
29	67	58	51	57	---	130	758	169	83	51	63	72
30	58	48	53	52	---	105	704	160	82	47	56	73
31	51	---	54	49	---	104	---	150	---	43	55	---
TOTAL	1812	1565	1521	1487	1586	3077	8177	10895	2556	2468	2099	2280
MEAN	58.5	52.2	49.1	48.0	56.6	99.3	273	351	85.2	79.6	67.7	76.0
MAX	153	83	55	60	73	272	758	801	137	160	139	530
MIN	43	41	33	35	41	54	81	150	62	43	41	49
AC-FT	3590	3100	3020	2950	3150	6100	16220	21610	5070	4900	4160	4520

CAL YR 1981 TOTAL 31969 MEAN 87.6 MAX 694 MIN 33 AC-FT 63410
WTR YR 1982 TOTAL 39523 MEAN 108 MAX 801 MIN 33 AC-FT 78390

09406000 VIRGIN RIVER AT VIRGIN, UTAH

LOCATION.--Lat 37°11'53", long 113°12'22", in SE¼NW¼NE¼ sec.28, T.41 S., R.12 W., Washington County, Hydrologic Unit 15010008, on left bank 1.1 mi (1.8 km) west of Virgin and 2.3 mi (3.7 km) downstream from North Creek.

DRAINAGE AREA.--934 mi² (2,420 km²).

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 good. Diversions for irrigation of about 2,800 acres (1,100 hm²) above station.

AVERAGE DISCHARGE.--66 years, 206 ft³/s (5.834 m³/s), 149,200 acre-ft/yr (184 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,800 ft³/s (646 m³/s) Dec. 6, 1966, gage height, 18.00 ft (5.486 m) from rating curve extended above 5,000 ft³/s (142 m³/s) on basis of one slope-area measurement and one float measurement; minimum observed, 22 ft³/s (0.623 m³/s) July 10, 1920, June 11, 1921.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,600 ft³/s (45.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	(m ³ /s)	Gage height (ft)	(m)
Mar. 12	0230	1,990	56.4	5.21	1.588
Aug. 23	2315	*9,700	275	9.50	2.896

Minimum, 71 ft³/s (2.01 m³/s) July 31, Aug. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	100	111	145	126	140	230	659	157	92	79	84
2	480	96	114	133	113	193	228	718	136	87	291	84
3	344	101	118	122	117	164	216	740	121	87	202	78
4	96	93	124	117	133	146	203	719	113	91	95	86
5	96	92	117	141	136	133	203	588	109	87	85	113
6	102	110	123	137	131	123	193	459	100	87	89	86
7	92	137	129	123	111	125	186	456	97	91	103	82
8	91	112	128	106	122	133	173	489	96	160	105	95
9	86	117	129	102	109	128	179	454	95	104	106	87
10	92	112	124	112	118	132	191	396	97	94	107	94
11	167	112	127	148	136	185	255	354	98	91	108	127
12	131	107	125	139	117	708	403	314	100	87	149	101
13	79	104	115	122	114	165	389	285	96	85	459	102
14	74	110	122	138	119	163	403	301	96	85	145	108
15	79	108	120	126	126	477	424	336	96	85	101	122
16	80	108	127	125	133	244	399	324	102	85	92	164
17	87	109	118	125	167	181	371	370	104	87	118	181
18	84	105	109	136	153	176	410	381	108	87	115	178
19	90	99	124	135	136	175	460	346	121	87	102	172
20	82	105	128	125	134	168	407	323	135	87	98	188
21	85	105	133	145	144	157	332	316	112	118	112	161
22	96	107	132	129	161	152	314	294	110	130	147	145
23	99	101	117	124	172	157	286	286	116	198	725	120
24	97	107	106	124	160	160	350	274	108	92	570	148
25	92	114	120	137	143	174	468	254	100	94	154	137
26	91	111	118	143	148	273	527	230	92	92	175	180
27	89	110	124	140	143	246	744	216	87	100	164	574
28	94	119	117	127	141	196	745	201	87	103	154	230
29	115	122	120	147	---	245	687	191	87	178	115	125
30	101	113	140	128	---	218	617	180	83	89	99	126
31	93	---	138	134	---	209	---	175	---	76	95	---
TOTAL	3596	3246	3797	4035	3763	6246	10993	11629	3159	3116	5259	4278
MEAN	116	108	122	130	134	201	366	375	105	101	170	143
MAX	480	137	140	148	172	708	745	740	157	198	725	574
MIN	74	92	106	102	109	123	173	175	83	76	79	78
AC-FT	7130	6440	7530	8000	7460	12390	21800	23070	6270	6180	10430	8490
CAL YR 1981	TOTAL	55333	MEAN 152	MAX	1090	MIN 71	AC-FT	109800				
WTR YR 1982	TOTAL	63117	MEAN 173	MAX	745	MIN 74	AC-FT	125200				

09406300 KANARRA CREEK AT KANARRAVILLE, UTAH

LOCATION.--Lat 37°32'17", long 113°10'04", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.35, T.37 S., R.12 W., Iron County, Hydrologic Unit 15010008, on left bank 1,100 ft (335 m) upstream from mouth of canyon and 0.7 mi (1.1 km) east of Kanarraville.

DRAINAGE AREA.--9.85 mi² (25.51 km²).

PERIOD OF RECORD.--August 1959 to September 1982 (discontinued).

REVISED RECORDS.--WDR UT-80-1: 1979.

GAGE.--Water-stage recorder and artificial control. Altitude of gage is 5,730 ft (1,747 m) above mean sea level, from topographic map. August 1959 to Oct. 16, 1968 at site 1,200 ft (366 m) downstream at different datum; Oct. 16, 1968 to June 24, 1980 at site 300 ft (91 m) upstream at different datum.

REMARKS.--Records good except those for winter period and no gage-height record, Aug. 23 to Sept. 30, which are poor. One small diversion 2 mi (3 km) above station diverts water from a spring for the water supply of Kanarraville. Total flow is usually diverted at mouth of canyon for irrigation.

AVERAGE DISCHARGE.--23 years, 4.15 ft³/s (0.118 m³/s), 3,010 acre-ft/yr (3.71 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 1,000 ft³/s (28.3 m³/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 and peak above base of 100 ft³/s (2.83 m³/s), 296 ft³/s (8.38 m³/s), from slope-area measurement, Aug. 23, gage height, 4.16 ft (1.268 m); minimum daily, 0.8 ft³/s (0.023 m³/s) Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.6	2.4	2.3	1.9	2.5	3.0	13	5.5	3.1	2.5	2.2
2	3.3	2.6	2.5	2.3	1.9	3.0	3.5	16	5.5	3.0	2.5	2.2
3	2.9	2.6	2.5	2.1	1.9	2.9	3.0	16	5.4	3.0	2.5	2.2
4	2.7	2.6	2.5	2.0	1.5	2.5	3.0	17	5.2	3.1	2.3	2.2
5	2.6	2.6	2.4	2.0	1.1	2.4	2.9	14	5.1	3.1	2.3	2.2
6	2.4	2.7	2.4	1.7	.80	2.8	2.9	12	4.9	3.1	2.3	2.3
7	2.2	3.1	2.4	1.3	1.0	2.5	2.9	13	4.9	3.0	2.3	2.4
8	2.2	2.7	2.6	1.2	1.4	2.6	2.7	12	4.8	3.2	2.3	2.4
9	2.2	2.6	2.6	1.5	1.7	2.6	2.9	11	4.7	3.1	2.3	2.3
10	2.2	2.6	2.6	1.9	1.8	2.4	3.1	10	4.7	2.9	2.3	2.5
11	3.1	2.6	2.6	2.0	1.8	2.8	4.6	9.5	4.6	2.9	2.2	2.9
12	2.6	2.6	2.6	2.0	1.9	3.2	6.5	8.8	4.3	2.7	3.9	2.6
13	2.4	2.6	2.7	2.2	2.1	2.8	6.5	8.5	4.2	2.6	3.0	2.8
14	2.4	2.6	2.5	2.2	2.6	3.3	6.8	8.5	4.0	2.6	2.4	2.6
15	2.5	2.6	2.4	2.2	2.5	3.6	6.5	9.1	4.0	2.7	2.4	2.5
16	2.7	2.6	2.4	2.2	2.8	2.9	5.8	9.5	4.0	2.6	2.3	2.4
17	2.5	2.6	2.4	2.2	2.6	3.0	6.1	8.7	4.2	2.5	2.5	2.4
18	2.4	2.4	2.2	2.3	2.3	2.9	6.5	8.5	4.1	2.5	2.6	2.2
19	2.4	2.2	2.5	2.2	2.3	3.1	6.1	8.2	4.0	2.6	2.4	2.2
20	2.4	2.4	2.4	2.1	2.4	3.7	5.5	8.5	4.0	2.4	2.4	2.0
21	2.4	2.4	2.5	1.9	2.5	3.2	5.2	7.9	3.9	2.4	2.8	2.0
22	2.4	2.4	2.4	1.6	2.8	3.2	5.2	7.1	3.6	2.4	2.6	2.0
23	2.3	2.4	1.6	2.1	2.7	3.0	5.8	7.1	3.6	2.4	11	2.0
24	2.4	2.4	2.0	2.3	2.6	3.1	6.8	7.0	3.6	2.6	3.0	2.0
25	2.4	2.5	2.1	2.4	2.6	2.9	7.6	6.9	3.5	2.7	2.8	2.1
26	2.3	2.4	2.2	2.7	2.6	2.8	9.7	6.7	3.4	2.8	2.8	2.2
27	2.4	2.5	2.2	2.2	2.6	2.8	11	6.1	3.3	2.7	2.7	4.0
28	2.4	2.6	2.0	2.1	2.4	3.0	11	6.1	3.3	2.7	2.5	2.4
29	3.1	2.6	2.2	2.1	---	3.5	12	5.8	3.1	2.6	2.4	2.1
30	2.6	2.5	2.2	2.0	---	3.1	12	5.7	3.1	2.5	2.4	2.0
31	2.4	---	2.2	2.0	---	3.1	---	5.5	---	2.4	2.3	---
TOTAL	77.6	76.6	73.2	63.3	59.10	91.2	177.1	293.7	126.5	84.9	87.0	70.3
MEAN	2.50	2.55	2.36	2.04	2.11	2.94	5.90	9.47	4.22	2.74	2.81	2.34
MAX	3.3	3.1	2.7	2.7	2.8	3.7	12	17	5.5	3.2	11	4.0
MIN	2.2	2.2	1.6	1.2	.80	2.4	2.7	5.5	3.1	2.4	2.2	2.0
AC-FT	154	152	145	126	117	181	351	583	251	168	173	139

CAL YR 1981 TOTAL 1193.50 MEAN 3.27 MAX 11 MIN 1.6 AC-FT 2370
WTR YR 1982 TOTAL 1280.50 MEAN 3.51 MAX 17 MIN .80 AC-FT 2540

09406600 ASH CREEK RESERVOIR NEAR NEW HARMONY, UTAH

LOCATION.--Lat 37°24'38", long 113°14'05", in NE¼NE¼SE¼ sec.7, T.39 S., R.12 W., Washington County, Hydrologic Unit 15010008, on left bank 300 ft (91 m) west of Highway I-15, 5.9 mi (9.5 km) southeast of New Harmony.

DRAINAGE AREA.--133 mi² (344 km²).

PERIOD OF RECORD.--Nov. 7, 1972 to September 1982 (discontinued).

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 hm³) between gage heights 36 ft (11.0 m), approximate bottom of reservoir, and 87 ft (26.5 m). Limited storage to a gage height of 60 ft (18.3 m). No dead storage. Reservoir dam is used for flood control and as a road base for Highway I-15. Capacity table furnished by Utah Dept. of Natural Resources and Energy.

REVISIONS.--Water year 1976.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 4,510 acre-ft (5.56 hm³) Apr. 29, 1973, gage height, 76.1 ft (23.20 m); no contents at times in 1974, 1976, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,730 acre-ft (2.13 hm³) May 8, gage height, 58.85 ft (17.937 m); minimum, 473 acre-ft (0.583 hm³) July 30, gage height, 44.80 ft (13.655 m).

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

44	425	55	1,330
45	485	60	1,850
50	874		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	590	600	650	670	670	750	1180	1510	1350	690	480	510
2	600	600	650	670	670	750	1200	1550	1320	670	480	510
3	600	600	660	670	670	760	1200	1610	1300	650	480	510
4	590	600	660	670	660	750	1200	1690	1280	630	480	510
5	590	610	660	670	660	750	1190	1710	1250	620	480	510
6	590	610	660	670	660	740	1180	1720	1220	590	480	510
7	590	610	660	660	650	740	1170	1720	1190	590	490	520
8	570	610	670	660	650	730	1160	1720	1170	580	490	520
9	570	620	670	660	640	730	1150	1720	1140	570	490	520
10	560	620	670	650	650	720	1130	1710	1120	560	490	520
11	560	620	670	650	650	720	1120	1700	1100	550	490	520
12	560	620	670	660	650	720	1220	1690	1070	540	490	520
13	560	620	660	650	660	710	1280	1670	1050	530	490	520
14	560	620	670	650	660	730	1330	1650	1030	520	490	520
15	560	620	670	650	670	860	1380	1630	1010	510	490	520
16	560	620	670	650	690	880	1390	1620	1000	500	490	520
17	560	620	660	650	710	900	1410	1610	970	500	490	530
18	560	620	660	650	730	930	1410	1600	950	490	490	530
19	570	620	670	640	730	950	1410	1590	930	500	500	530
20	570	620	670	650	740	970	1400	1570	910	500	500	530
21	570	620	670	650	740	970	1400	1560	890	510	500	530
22	570	620	660	640	760	980	1380	1540	870	510	500	530
23	580	630	660	650	760	1000	1360	1530	850	520	500	530
24	580	630	660	650	760	1000	1340	1520	830	520	500	530
25	580	630	660	650	760	1000	1330	1510	810	530	500	540
26	580	630	670	660	760	1060	1340	1490	790	530	500	540
27	580	640	660	660	760	1100	1360	1480	770	500	500	540
28	590	640	670	660	750	1110	1390	1450	750	480	510	540
29	590	650	670	670	---	1150	1430	1430	730	480	510	540
30	590	650	670	670	---	1170	1470	1400	710	480	510	540
31	590	---	670	670	---	1180	---	1380	---	480	510	---
MAX	600	650	670	670	760	1180	1470	1720	1350	690	510	540
MIN	560	600	650	640	640	710	1120	1380	710	480	480	510
(†)	46.4	47.1	47.4	47.3	48.5	53.4	56.4	55.5	47.9	45.0	---	---
(‡)	-37	+60	+20	0	+80	+430	+290	-90	+670	-230	+30	+30

CAL YR 1981 (†) +95

WTR YR 1982 (‡) -87

(†) GAGE HEIGHT, IN FEET, AT END OF MONTH
(‡) CHANGE IN CONTENTS, IN ACRE-FEET

VIRGIN RIVER BASIN

09406700 SOUTH ASH CREEK BELOW MILL CREEK, NEAR PINTURA, UTAH

LOCATION.--Lat 37°21'50", long 113°20'01", in SW¼SW¼SE¼ sec.29, T.39 S., R.13 W., Washington County, Hydrologic Unit 15010008, on right bank 150 ft (46 m) downstream from Harmon Creek, and 3.5 mi (5.6 km) northwest of Pintura.

DRAINAGE AREA.--11.0 mi² (28.5 km²).

PERIOD OF RECORD.--August 1966 to September 1982 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,290 ft (1,612 m) from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--16 years, 6.90 ft³/s (0.195 m³/s), 5,000 acre-ft/yr (6.16 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,910 ft³/s (54.1 m³/s) Dec. 6, 1966, gage height, 5.83 ft (1.777 m); minimum, 0.21 ft³/s (0.006 m³/s) Aug. 14, 15, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 100 ft³/s (2.83 m³/s), 113 ft³/s (3.20 m³/s) Aug. 26, gage height, 2.92 ft (0.890 m); minimum, 0.46 ft³/s (0.013 m³/s) Dec. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.2	1.3	1.6	2.0	2.8	6.1	12	8.2	4.6	2.5	1.9
2	1.6	1.1	1.6	1.5	1.7	3.6	6.8	13	8.1	4.5	2.6	1.8
3	1.5	1.1	1.4	1.5	1.8	3.0	6.5	13	8.0	4.3	2.5	1.7
4	1.4	1.1	1.3	1.6	1.7	2.7	6.5	15	7.8	4.2	2.3	1.8
5	1.4	1.1	1.3	1.6	1.7	2.6	5.9	14	7.7	4.2	2.2	1.7
6	1.3	1.2	1.4	1.6	1.8	2.5	5.7	13	7.6	4.0	2.2	1.7
7	1.2	1.3	1.4	1.6	1.8	2.5	5.2	13	7.4	4.0	2.2	1.8
8	1.2	1.2	1.4	1.9	1.7	2.4	5.0	12	7.4	4.1	2.1	1.7
9	1.2	1.1	1.4	1.8	1.6	2.4	5.2	12	7.2	4.0	2.0	1.6
10	1.2	1.1	1.4	1.5	1.7	2.3	6.1	12	7.1	3.8	1.9	1.7
11	1.3	1.1	1.3	1.5	1.7	3.6	13	11	7.0	3.7	2.0	1.7
12	1.4	1.1	1.3	1.5	1.7	4.4	13	10	6.8	3.5	2.1	1.6
13	1.3	1.1	1.3	1.5	1.7	3.2	11	9.8	6.6	3.5	2.2	1.6
14	1.4	1.1	1.3	1.5	1.8	8.6	12	9.4	6.6	3.2	2.1	1.5
15	1.3	1.1	1.4	1.5	1.8	12	12	9.2	6.4	3.2	1.9	1.4
16	1.3	1.1	1.4	1.5	2.0	6.9	11	9.1	6.3	3.1	1.8	1.3
17	1.3	1.1	1.3	1.6	2.0	4.8	11	9.1	6.2	3.0	1.8	1.1
18	1.3	1.1	1.5	1.6	1.9	4.2	11	9.3	6.2	3.0	1.9	1.0
19	1.2	1.2	1.4	1.5	2.0	3.8	11	9.3	6.1	3.0	1.7	.94
20	1.2	1.2	1.4	1.5	2.2	3.5	11	9.2	6.2	2.8	1.7	.86
21	1.2	1.2	1.4	1.2	2.6	3.7	10	9.2	5.9	2.8	1.7	.79
22	1.2	1.2	1.4	4.0	3.0	5.1	10	9.2	5.7	2.7	1.7	.73
23	1.2	1.2	1.4	1.8	2.8	5.5	9.5	9.2	5.5	2.7	3.2	.68
24	1.2	1.2	1.3	1.8	2.6	5.6	8.9	9.0	5.4	2.7	2.8	.64
25	1.2	1.2	1.5	1.8	2.6	5.5	8.8	8.9	5.3	2.9	2.3	.60
26	1.2	1.2	1.5	1.8	2.7	14	8.9	8.8	5.1	2.8	5.8	.81
27	1.2	1.3	1.4	1.8	2.7	9.5	9.4	8.8	5.0	3.4	2.9	1.1
28	1.2	1.3	1.6	1.8	2.7	8.0	10	8.7	4.8	2.9	2.3	1.3
29	1.3	1.4	1.4	1.7	---	6.8	11	8.6	4.7	2.7	2.1	1.4
30	1.3	1.3	1.4	1.7	---	6.8	11	8.4	4.7	2.5	2.0	1.4
31	1.3	---	1.4	1.7	---	7.2	---	8.3	---	2.4	1.9	---
TOTAL	39.6	35.2	43.2	52.5	58.0	159.5	272.5	321.5	193.0	104.2	70.4	39.85
MEAN	1.28	1.17	1.39	1.69	2.07	5.15	9.08	10.4	6.43	3.36	2.27	1.33
MAX	1.6	1.4	1.6	4.0	3.0	14	13	15	8.2	4.6	5.8	1.9
MIN	1.1	1.1	1.3	1.2	1.6	2.3	5.0	8.3	4.7	2.4	1.7	.60
AC-FT	79	70	86	104	115	316	541	638	383	207	140	79
CAL YR 1981	TOTAL	1047.20	MEAN	2.87	MAX	21	MIN	1.1	AC-FT	2080		
WTR YR 1982	TOTAL	1389.45	MEAN	3.81	MAX	15	MIN	.60	AC-FT	2760		

VIRGIN RIVER BASIN

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09407200 ASH CREEK BELOW WEST FIELD DITCH, AT TOQUERVILLE, UTAH

LOCATION.--Lat 37°15'38", long 113°16'30", in SW¼NW¼SE¼ sec.35, T.40 S., R.13 W., Washington County, Hydrologic Unit 15010008, on left bank 400 ft (122 m) below the West Field Ditch diversion from Ash Creek, 0.5 mi (0.8 km) along turnoff from State Road 15 at north end of Toquerville.

DRAINAGE AREA.--190 mi² (492 km²).

PERIOD OF RECORD.--November 1972 to September 1982 (discontinued).

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.--9 years, 23.2 ft³/s (0.657 m³/s) 16,810 acre-ft/yr (20.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,850 ft³/s (52.4 m³/s) March 5, 1978; minimum daily, 4.4 ft³/s (0.125 m³/s) October 23-26, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,080 ft³/s (30.6 m³/s) Aug. 23; minimum daily, 11 ft³/s (0.312 m³/s) several days during April and May.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	16	15	15	14	15	18	12	14	12	12	15
2	17	16	15	14	14	15	15	12	14	12	13	14
3	16	16	15	14	14	15	17	11	15	12	13	13
4	16	16	15	14	14	13	15	62	15	12	13	14
5	16	16	15	14	14	13	14	19	15	12	13	13
6	16	16	15	14	14	13	12	19	15	12	13	13
7	16	16	15	14	14	13	12	17	15	12	14	13
8	16	16	15	14	14	12	12	17	14	12	14	13
9	16	16	16	14	14	14	11	19	14	12	13	12
10	16	16	16	13	14	14	12	21	15	12	13	12
11	16	16	15	14	14	17	13	25	14	12	13	13
12	16	16	16	14	14	18	29	23	15	12	13	12
13	16	16	16	14	14	16	23	21	15	12	13	12
14	16	16	16	14	14	16	22	16	15	12	13	12
15	16	16	16	14	14	34	23	15	15	12	12	12
16	16	16	16	14	14	20	21	15	16	13	13	12
17	16	16	15	14	14	19	19	14	16	13	13	12
18	16	16	15	14	14	15	18	15	14	13	13	12
19	16	16	16	14	14	14	13	14	14	13	13	12
20	16	16	16	14	14	14	15	14	15	13	13	13
21	16	15	15	14	14	13	13	14	15	16	13	13
22	16	15	15	14	14	13	12	14	14	14	16	13
23	16	15	15	14	15	15	12	14	12	12	45	13
24	16	16	15	14	14	16	11	14	12	12	19	13
25	16	16	15	14	14	13	11	14	12	12	19	13
26	16	16	15	14	15	25	11	14	12	12	15	19
27	16	16	15	14	14	27	11	14	13	12	18	18
28	16	16	16	14	15	19	11	14	12	12	16	13
29	16	16	15	14	---	19	11	14	12	12	15	13
30	16	15	15	14	---	15	12	15	12	12	15	13
31	16	---	15	14	---	16	---	14	---	12	15	---
TOTAL	497	476	475	434	395	511	449	536	421	383	466	395
MEAN	16.0	15.9	15.3	14.0	14.1	16.5	15.0	17.3	14.0	12.4	15.0	13.2
MAX	17	16	16	15	15	34	29	62	16	16	45	19
MIN	16	15	15	13	14	12	11	11	12	12	12	12
AC-FT	986	944	942	861	783	1010	891	1060	835	760	924	783
CAL YR 1981	TOTAL	6710	MEAN	18.4	MAX	40	MIN	15	AC-FT	13310		
WTR YR 1982	TOTAL	5438	MEAN	14.9	MAX	62	MIN	11	AC-FT	10790		

09408000 LEEDS CREEK NEAR LEEDS, UTAH

LOCATION.--Lat 37°16'03", long 113°22'12", in SW¼SE¼NE¼ sec.36, T.40 S., R.14 W., Washington County, Hydrologic Unit 15010008, on left bank 1,150 ft (351 m) upstream from Leeds Ditch diversion, 2.1 mi (3.4 km) north of Leeds, and 4.4 mi (7.1 km) upstream from mouth.

DRAINAGE AREA.--15.5 mi² (40.1 km²).

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 except those of no gage-height record, Dec. 16 to Jan. 26, which are poor. One diversion above station for domestic use.

AVERAGE DISCHARGE.--18 years, 7.44 ft³/s (0.211 m³/s), 5,390 acre-ft/yr (6.65 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,710 ft³/s (76.7 m³/s) Aug. 6, 1967, gage height, 5.78 ft (1.762 m), site and datum then in use; minimum recorded, 0.23 ft³/s (0.007 m³/s) Jan. 3, 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge measured, 2,980 ft³/s (84.4 m³/s) Aug. 12, 1964, gage height, 6.00 ft (1.829 m), from slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 50 ft³/s (1.42 m³/s), 278 ft³/s (7.87 m³/s) Aug. 23, gage height, 3.40 ft (1.036 m); minimum daily, 1.8 ft³/s (0.051 m³/s) Jan. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	2.7	2.7	2.5	2.7	2.9	4.4	6.6	8.2	8.5	4.9	5.6
2	3.8	2.7	2.7	2.6	2.7	3.1	4.6	7.1	8.3	8.4	5.1	5.6
3	3.0	2.7	2.7	2.6	2.7	3.0	4.7	6.9	8.7	8.2	5.0	5.4
4	2.8	2.7	2.7	2.5	2.7	2.9	4.3	7.6	8.9	8.0	4.7	5.4
5	2.8	2.6	2.9	2.2	2.6	2.9	4.3	7.3	9.0	8.0	4.6	5.4
6	2.7	2.7	2.7	2.1	2.5	2.9	4.3	7.2	9.0	7.8	4.5	5.4
7	2.6	3.4	2.7	1.9	2.6	2.9	4.3	7.2	9.1	7.8	4.6	5.2
8	2.7	2.7	2.7	1.8	2.8	2.9	4.2	7.2	9.4	7.7	4.5	5.2
9	2.7	2.6	2.8	2.0	3.0	2.8	4.1	7.3	9.4	7.7	4.3	5.2
10	2.7	2.6	2.6	2.1	3.0	2.8	4.1	7.4	9.5	7.4	4.2	5.0
11	2.7	2.6	2.5	2.3	2.9	3.0	5.2	7.4	9.4	7.2	4.2	5.1
12	2.7	2.6	2.5	2.4	2.7	3.2	5.7	7.2	9.5	7.0	4.4	4.7
13	2.7	2.6	2.4	2.5	2.7	3.0	6.0	7.2	9.7	6.9	4.6	4.7
14	2.8	2.6	2.6	2.6	2.7	3.5	6.2	7.1	9.8	6.7	4.4	4.6
15	2.8	2.6	2.7	2.7	2.7	5.6	6.3	7.1	9.8	6.6	4.2	4.2
16	2.9	2.6	2.8	2.7	2.9	4.6	6.3	7.0	9.9	6.5	4.0	4.2
17	2.8	2.6	2.8	2.8	3.0	4.3	6.2	7.0	9.6	6.3	4.1	4.1
18	2.8	2.6	2.8	2.8	2.9	4.0	6.1	6.9	9.7	6.2	4.3	4.0
19	2.8	2.6	2.8	2.8	2.9	3.9	6.1	7.0	9.7	6.1	4.0	4.0
20	2.7	2.7	2.8	2.8	2.9	3.9	6.2	6.9	9.6	5.9	3.9	3.8
21	2.7	2.6	2.8	2.5	3.0	4.0	6.2	6.9	9.5	5.8	3.9	3.6
22	2.7	2.6	2.8	2.4	3.0	4.2	6.1	6.8	9.2	5.7	4.3	3.5
23	2.7	2.6	2.6	2.4	3.0	4.5	6.0	6.8	9.4	5.7	8.5	3.3
24	2.7	2.6	2.2	2.5	3.0	4.5	5.9	7.0	9.3	5.7	7.8	3.3
25	2.7	2.6	2.3	2.8	3.0	4.2	5.8	7.1	9.1	5.7	5.7	3.3
26	2.6	2.7	2.4	2.8	2.9	8.4	5.9	7.2	9.0	5.7	8.6	4.0
27	2.6	2.9	2.4	2.8	2.9	6.5	6.0	7.3	8.8	5.7	20	5.0
28	2.6	2.9	2.4	2.8	2.9	4.9	6.1	7.5	8.6	5.7	14	5.8
29	2.7	2.9	2.4	2.8	---	4.8	6.3	7.9	8.6	5.5	9.0	5.3
30	2.7	2.7	2.4	2.7	---	4.6	6.5	8.0	8.6	5.2	6.4	5.2
31	2.7	---	2.4	2.7	---	4.4	---	8.1	---	5.0	5.8	---
TOTAL	85.6	80.6	81.0	77.9	79.3	123.1	164.4	223.2	276.3	206.3	182.5	139.1
MEAN	2.76	2.69	2.61	2.51	2.83	3.97	5.48	7.20	9.21	6.65	5.89	4.64
MAX	3.8	3.4	2.9	2.8	3.0	8.4	6.5	8.1	9.9	8.5	20	5.8
MIN	2.6	2.6	2.2	1.8	2.5	2.8	4.1	6.6	8.2	5.0	3.9	3.3
AC-FT	170	160	161	155	157	244	326	443	548	409	362	276

CAL YR 1981 TOTAL 1554.1 MEAN 4.26 MAX 18 MIN 2.2 AC-FT 3080
WTR YR 1982 TOTAL 1719.3 MEAN 4.71 MAX 20 MIN 1.8 AC-FT 3410

09408150 VIRGIN RIVER NEAR HURRICANE, UTAH

LOCATION.--Lat 37°09'45", long 113°23'42", in NE¼NE¼SW¼ sec.2, T.42 S., R.14 W., Washington County, Hydrologic Unit 15010008, on left bank at downstream side of bridge on State Highway 17, 1.8 mi (2.9 km) downstream from Quail Creek and 6.2 mi (10.0 km) west of Hurricane.

DRAINAGE AREA.--1,499 mi² (3,882 km²).

PERIOD OF RECORD.--March 1967 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 2,760 ft (841 m) from topographic map.

REMARKS.--Records good. Diversions for irrigation of about 9,400 acres (3,800 hm²) above station.

AVERAGE DISCHARGE.--15 years, 235 ft³/s (6.655 m³/s), 170,300 acre-ft/yr (210 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,700 ft³/s (530 m³/s) Mar. 5, 1978, gage height, 16.28 ft (4.962 m); minimum, 23 ft³/s (0.65 m³/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 ft³/s (569 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,100 ft³/s (59.5 m³/s) and maximum(*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Mar. 12	0500	2,340	66.3	5.14	1.567
Aug. 24	0230	5,620	159	7.96	2.426
Sept. 27	0615	*6,810	193	8.62	2.627

Minimum, 38 ft³/s (1.08 m³/s) Aug. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	120	230	199	188	220	288	798	155	87	94	100
2	600	118	183	238	185	262	276	837	150	87	145	96
3	400	118	178	203	187	236	296	857	142	86	254	82
4	140	115	158	206	197	197	258	720	134	79	65	75
5	145	115	186	237	186	182	247	620	128	75	58	116
6	140	118	212	264	180	171	223	520	124	76	53	100
7	121	210	155	227	181	165	198	493	120	78	59	99
8	120	165	180	148	191	167	189	506	115	93	58	108
9	107	144	237	157	197	166	183	491	107	125	56	94
10	108	135	258	169	201	162	172	426	102	91	55	93
11	139	127	195	171	217	176	183	401	98	85	51	115
12	213	126	169	198	202	935	442	355	94	78	60	108
13	152	120	180	210	199	304	431	310	92	75	169	102
14	135	120	229	224	203	247	417	314	87	72	119	106
15	130	123	220	214	213	626	436	335	84	71	83	97
16	134	121	174	164	224	390	410	324	83	69	69	91
17	134	125	152	169	252	276	371	345	79	71	53	91
18	139	123	148	171	226	265	400	352	82	73	83	94
19	137	132	153	172	219	276	444	338	104	71	51	98
20	129	132	150	170	219	295	389	313	94	72	40	97
21	120	134	168	189	226	250	346	300	93	72	49	98
22	122	136	188	171	242	230	315	282	91	72	59	87
23	122	134	188	169	251	236	290	264	78	99	403	88
24	125	123	146	168	243	233	331	250	75	135	1990	84
25	119	130	146	178	228	243	440	230	69	100	151	84
26	122	151	150	191	233	276	488	215	69	86	236	130
27	117	148	156	190	230	410	593	201	68	84	217	2040
28	118	158	155	186	223	273	654	189	65	108	191	397
29	128	175	149	205	---	312	732	184	70	128	162	188
30	149	186	163	194	---	292	660	173	83	77	122	201
31	129	---	202	192	---	288	---	167	---	69	104	---
TOTAL	4779	4082	5558	5944	5943	8761	11102	12110	2935	2644	5359	5359
MEAN	154	136	179	192	212	283	370	391	97.8	85.3	173	179
MAX	600	210	258	264	252	935	732	857	155	135	1990	2040
MIN	85	115	146	148	180	162	172	167	65	69	40	75
AC-FT	9480	8100	11020	11790	11790	17380	22020	24020	5820	5240	10630	10630
CAL YR 1981	TOTAL	65494	MEAN 179	MAX 1530	MIN 72	AC-FT 129900						
WTR YR 1982	TOTAL	74576	MEAN 204	MAX 2040	MIN 40	AC-FT 147900						

09408400 SANTA CLARA RIVER NEAR PINE VALLEY, UTAH

LOCATION.--Lat 37°23'00" Long 113°28'57", in NW¼SE¼NE¼ sec.24, T.39 S., R.15 W., Washington County, Hydrologic Unit 15010008, in Dixie National Forest, on right bank 150 ft (46 m) upstream from highway bridge, 0.6 mi (1.0 km) downstream from Pine Valley Reservoir, 1.6 mi (2.6 km) southeast of town of Pine Valley, and 2.5 mi (4.0 km) upstream from Grass Valley Creek.

DRAINAGE AREA.--18.7 mi² (48.4 km²).

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.--23 years, 10.0 ft³/s (0.283 m³/s), 7,240 acre-ft/yr (8.93 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 776 ft³/s (22.0 m³/s) Dec. 6, 1966, gage height, 6.85 ft (2.088 m); minimum, 0.37 ft³/s (0.010 m³/s) Mar. 30, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 60 ft³/s (1.70 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Apr. 11	2030	82	2.32	2.60	0.792
May 2	2000	*84	2.38	2.64	.805

Minimum, 1.2 ft³/s (0.034 m³/s) Jan. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.1	1.7	1.6	1.8	2.5	7.2	43	25	7.9	5.5	5.0
2	2.8	2.1	1.6	1.5	1.8	2.6	6.2	64	23	7.6	5.5	4.8
3	2.8	2.0	1.8	1.4	1.8	2.4	6.4	66	21	7.4	5.3	4.6
4	2.6	1.9	1.8	1.5	1.8	2.2	7.5	62	20	7.2	5.1	4.7
5	2.5	1.9	1.8	1.5	1.8	2.1	8.0	52	19	7.2	4.9	4.5
6	2.4	2.1	1.8	1.5	1.8	2.4	7.1	40	17	7.0	4.8	4.5
7	2.3	2.0	1.7	1.5	2.1	2.4	6.6	37	16	7.0	4.9	4.8
8	2.4	1.9	1.7	1.6	2.1	1.9	6.2	38	15	8.1	4.7	4.5
9	2.4	1.9	1.7	1.7	2.0	1.9	6.4	35	15	7.2	4.6	4.4
10	2.3	1.9	1.7	1.7	1.8	2.0	7.8	28	14	6.7	4.4	4.7
11	2.6	1.9	1.7	1.7	1.8	2.6	29	23	14	6.4	4.4	4.9
12	2.4	1.9	1.7	1.7	1.6	3.5	47	19	13	6.2	5.4	4.5
13	2.3	1.8	1.7	1.6	1.6	3.1	33	18	13	6.0	5.2	4.4
14	2.3	1.8	1.7	1.6	1.8	4.2	29	19	13	5.8	4.7	4.3
15	2.3	1.8	1.7	1.6	2.1	5.0	27	22	12	5.6	4.4	4.1
16	2.3	1.8	1.7	1.6	2.3	4.2	22	23	12	5.4	4.3	4.1
17	2.3	1.8	1.6	1.6	2.5	3.8	20	28	12	5.3	4.8	4.4
18	2.2	1.8	1.6	1.6	2.2	3.8	21	34	12	5.2	4.9	4.1
19	2.2	1.8	1.6	1.6	2.1	3.7	21	35	12	5.1	4.4	4.0
20	2.2	1.8	1.6	1.6	2.3	5.7	18	37	12	5.0	4.2	4.0
21	2.2	1.8	1.7	1.5	2.8	6.4	15	38	11	4.8	4.2	3.9
22	2.1	1.8	1.7	1.9	3.1	6.4	13	38	10	4.8	4.4	3.8
23	2.1	1.8	1.5	1.7	3.1	3.9	11	41	9.8	4.7	6.7	3.7
24	2.1	1.7	1.4	1.7	2.8	4.7	12	42	9.4	4.6	9.9	3.7
25	2.1	1.6	1.5	1.8	2.6	5.5	16	40	9.2	8.6	9.3	3.8
26	2.1	1.5	1.6	2.2	2.6	6.1	20	39	8.9	6.8	17	4.6
27	2.0	1.7	1.6	2.1	2.4	6.5	24	38	8.6	7.2	13	5.3
28	2.0	1.8	1.5	2.0	2.4	7.8	29	36	8.3	7.9	7.8	6.0
29	2.5	1.9	1.6	1.9	---	7.0	35	33	8.0	6.3	6.2	5.5
30	2.1	1.9	1.7	1.9	---	6.0	36	29	8.0	5.8	5.5	5.8
31	2.1	---	1.6	1.8	---	6.0	---	26	---	5.5	5.2	---
TOTAL	71.4	55.5	51.3	52.2	60.9	128.3	547.4	1123	401.2	196.3	185.6	135.4
MEAN	2.30	1.85	1.65	1.68	2.18	4.14	18.2	36.2	13.4	6.33	5.99	4.51
MAX	2.8	2.1	1.8	2.2	3.1	7.8	47	66	25	8.6	17	6.0
MIN	2.0	1.5	1.4	1.4	1.6	1.9	6.2	18	8.0	4.6	4.2	3.7
AC-FT	142	110	102	104	121	254	1090	2230	796	389	368	269

CAL YR 1981 TOTAL 2118.4 MEAN 5.80 MAX 80 MIN 1.4 AC-FT 4200
WTR YR 1982 TOTAL 3008.5 MEAN 8.24 MAX 66 MIN 1.4 AC-FT 5970

VIRGIN RIVER BASIN

259

09408500 SANTA CLARA-PINTO DIVERSION NEAR PINTO, UTAH
(Transmountain diversion)

LOCATION.--Lat 37°28'04", long 113°28'21", in SW¼SE¼NW¼ sec.19, T.38 S., R.14 W., Washington County, Hydrologic Unit 15010008, on right bank 0.2 mi (0.3 km) downstream from outlet of diversion tunnel and 6 mi (10 km) southeast of Pinto.

PERIOD OF RECORD.--October 1953 to September 1962 (monthly discharge only, October 1953 to September 1960), October 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,820 ft (2,079 m) from topographic map. Prior to September 1962, at site 600 ft (183 m) upstream at different datum.

REMARKS.--Records good. Flow at this station is seasonal occurring during the snowmelt period and heavy storm periods. This is a transmountain diversion from a tributary of Santa Clara River in Colorado River Basin to Pinto Creek in Escalante Valley in the Great Basin.

AVERAGE DISCHARGE.--22 years (1953-62, 1969-82) 3.31 ft³/s (0.094 m³/s), 2,400 acre-ft/yr (2.96 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 139 ft³/s (3.94 m³/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, 75 ft³/s (2.12 m³/s) May 13, gage height, 2.23 ft (0.680 m); no flow for extended periods during year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	3.1	42	11	.00	.00	.00
2	.00	.00	.00	.00	.00	.02	3.6	52	11	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	4.3	55	10	.00	.00	.00
4	.00	.00	.00	.00	.00	.01	4.4	44	8.3	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	4.1	34	6.3	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	3.3	27	5.3	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	3.7	26	4.8	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	3.0	26	3.8	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	2.8	26	3.4	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	3.1	24	3.3	.00	.00	.00
11	.00	.00	.00	.00	.00	.05	7.4	21	2.7	.00	.00	.00
12	.00	.00	.00	.00	.00	.72	25	18	2.0	.00	.00	.00
13	.00	.00	.00	.00	.00	.08	29	14	1.2	.00	.00	.00
14	.00	.00	.00	.00	.00	.13	34	14	1.1	.00	.00	.00
15	.00	.00	.00	.00	.00	.43	35	16	1.1	.00	.00	.00
16	.00	.00	.00	.00	.00	.27	26	17	1.0	.00	.00	.00
17	.00	.00	.00	.00	.00	.41	24	20	1.0	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	23	23	1.7	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	25	25	2.3	.00	.00	.00
20	.00	.00	.00	.00	.00	.46	19	23	1.8	.00	.00	.00
21	.00	.00	.00	.00	.00	1.9	15	23	2.1	.00	.00	.00
22	.00	.00	.00	.00	.00	.68	12	22	1.1	.00	.00	.00
23	.00	.00	.00	.00	.00	.92	11	22	.79	.00	.00	.00
24	.00	.00	.00	.00	.00	.77	11	22	.44	.00	.00	.00
25	.00	.00	.00	.00	.11	.53	18	22	.24	.00	.00	.00
26	.00	.00	.00	.00	.19	1.1	25	21	.14	.00	.00	.00
27	.00	.00	.00	.00	.16	4.7	32	21	.04	.00	.00	.00
28	.00	.00	.00	.00	.04	4.9	35	20	.00	.00	.00	.00
29	.00	.00	.00	.00	---	3.1	44	19	.00	.00	.00	.00
30	.00	.00	.00	.00	---	2.7	41	16	.00	.00	.00	.00
31	.00	---	.00	.00	---	4.5	---	13	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.50	28.38	526.8	768	87.95	.00	.00	.00
MEAN	.000	.000	.000	.000	.018	.92	17.6	24.8	2.93	.000	.000	.000
MAX	.00	.00	.00	.00	.19	4.9	44	55	11	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	2.8	13	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	1.0	56	1040	1520	174	.00	.00	.00
CAL YR 1981	TOTAL	707.58	MEAN 1.94	MAX 48	MIN .00	AC-FT 1400						
WTR YR 1982	TOTAL	1411.63	MEAN 3.87	MAX 55	MIN .00	AC-FT 2800						

VIRGIN RIVER BASIN

09409880 SANTA CLARA RIVER AT GUNLOCK, UTAH

LOCATION.--Lat 37°16'55", long 113°46'00", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ 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 mi² (702 km²).

PERIOD OF RECORD.--August 1969 to current year.

GAGE.--Water-stage recorder and artificial concrete control. Altitude of gage is 3,628 ft (1,106 m) from topographic map.

REMARKS.--Records fair. Many diversions for irrigation above station. Flow regulated by several reservoirs and powerplant above station.

AVERAGE DISCHARGE.--13 years, 27.4 ft³/s (0.776 m³/s), 19,850 acre-ft/yr (24.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,810 ft³/s (79.6 m³/s) Feb. 14, 1980, gage height, 5.74 ft (1.750 m) from rating curve extended above 1,580 ft³/s (44.7 m³/s); no flow several days during 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 199 ft³/s (5.64 m³/s) Mar. 26, gage height, 4.17 ft (1.271 m); minimum daily, 5.0 ft³/s (0.142 m³/s) Aug. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	19	23	18	5.5	17	43	27	30	16	6.6	9.5
2	6.0	18	22	18	5.6	17	42	30	31	15	6.7	10
3	6.5	18	22	18	6.1	18	49	33	28	16	8.8	10
4	14	18	21	18	6.6	19	46	34	27	16	9.0	9.0
5	18	19	19	18	7.9	19	43	52	27	17	12	9.5
6	18	19	19	18	11	19	41	50	29	17	8.4	9.0
7	18	20	20	24	14	19	36	43	26	17	8.1	11
8	18	20	20	30	9.1	20	31	38	25	17	8.6	10
9	17	21	20	25	9.1	19	32	28	28	16	11	9.0
10	17	21	21	20	9.1	17	34	28	26	17	10	12
11	16	21	21	15	11	17	31	28	24	17	7.5	14
12	16	21	21	12	14	19	41	33	23	17	14	14
13	17	20	20	10	15	19	35	28	18	16	10	12
14	17	20	20	9.0	16	20	33	27	18	17	5.0	13
15	16	21	20	8.5	15	81	30	27	17	17	5.5	13
16	17	21	20	8.0	14	77	30	24	18	13	6.0	10
17	17	20	20	7.0	15	59	30	30	20	10	7.5	13
18	17	21	20	6.5	16	50	30	33	18	11	9.9	12
19	17	21	21	6.2	16	45	29	36	19	8.7	11	12
20	16	21	21	6.2	16	41	29	35	22	8.2	8.4	12
21	16	21	21	6.0	16	41	29	35	23	6.6	8.8	12
22	17	20	20	6.0	17	39	31	35	23	6.4	10	9.4
23	15	20	20	6.0	17	37	31	36	22	6.4	11	8.5
24	14	20	19	6.0	19	40	28	39	21	8.0	10	7.1
25	13	21	20	6.2	19	48	25	37	19	8.9	9.5	8.0
26	13	21	20	6.1	18	91	22	34	18	8.7	9.0	10
27	13	21	19	6.2	18	91	24	31	21	9.9	9.0	12
28	15	22	19	6.2	17	66	24	30	20	11	8.5	13
29	16	23	19	6.0	---	63	27	31	19	15	8.0	13
30	18	22	19	6.1	---	51	28	30	17	10	9.0	18
31	19	---	18	5.7	---	45	---	27	---	5.8	9.2	---
TOTAL	473.0	611	625	361.9	373.0	1224	984	1029	677	395.6	276.0	335.0
MEAN	15.3	20.4	20.2	11.7	13.3	39.5	32.8	33.2	22.6	12.8	8.90	11.2
MAX	19	23	23	30	19	91	49	52	31	17	14	18
MIN	5.5	18	18	5.7	5.5	17	22	24	17	5.8	5.0	7.1
AC-FT	938	1210	1240	718	740	2430	1950	2040	1340	785	547	664

CAL YR 1981 TOTAL 7047.0 MEAN 19.3 MAX 61 MIN 2.0 AC-FT 13980
WTR YR 1982 TOTAL 7364.5 MEAN 20.2 MAX 91 MIN 5.0 AC-FT 14610

VIRGIN RIVER BASIN

261

09410100 SANTA CLARA RIVER BELOW WINSOR DAM, NEAR SANTA CLARA, UTAH

LOCATION.--Lat 37°11'24", long 113°46'03", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.28, T.41 S., R.17 W., Washington County, Hydrologic Unit 15010008, on left bank 900 ft (274 m) downstream from Winsor Dam, 0.6 mi (1.0 km) northwest of Shivwits Indian Village, and 7.5 mi (12.1 km) northwest of Santa Clara.

DRAINAGE AREA.--378 mi² (979 km²).

PERIOD OF RECORD.--December 1971 to current year.

REVISED RECORDS.--WRD UT-73-1: 1972(M).

GAGE.--Water-stage recorder. Altitude of gage is 3,210 ft (978 m) from topographic map, prior to July 11, 1979 at several sites downstream at different datums.

REMARKS.--Records good

AVERAGE DISCHARGE.--10 years, 28.9 ft³/s (0.818 m³/s), 20,9400 acre-ft/yr (25.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,700 ft³/s (48.1 m³/s) Mar. 28, 1979, gage height, 5.75 ft (1.753 m) from rating curve extended above 980 ft³/s (27.8 m³/s) slope-area measurement; no flow several days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 945 ft³/s (26.8 m³/s) Aug. 23, gage height, 4.70 ft (1.433 m); minimum, no flow on several days during February and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	.55	3.1	.11	.01	17	36	24	28	25	12	3.2
2	2.4	.59	3.2	.11	.01	16	12	23	28	24	13	15
3	3.1	.58	2.7	.09	.01	14	9.5	23	28	23	13	18
4	1.8	.63	2.0	.09	.00	14	23	23	27	23	13	19
5	.78	.78	2.1	.09	.00	14	39	23	27	23	22	22
6	.33	.78	2.4	.09	.00	14	26	23	25	23	22	21
7	.46	.80	3.3	.24	.00	14	24	24	23	24	23	21
8	.28	2.0	2.9	.46	.00	14	18	24	22	44	24	14
9	.28	11	2.5	.28	.00	15	16	24	22	12	17	15
10	.20	12	1.5	.11	.00	16	14	23	23	12	14	15
11	.91	14	1.4	.05	.00	16	12	17	22	12	14	15
12	.66	13	1.1	.04	.00	16	17	16	23	14	24	15
13	.78	14	1.2	.05	.00	14	25	16	23	13	9.1	2.3
14	.46	13	.55	.05	.00	15	23	16	23	12	1.6	.00
15	.39	12	.55	.04	.00	16	19	17	23	13	1.6	.00
16	.66	14	.55	.04	.00	15	30	16	23	15	7.1	.35
17	.55	14	.46	.04	.00	22	14	17	22	21	22	.21
18	.33	14	.39	.03	.00	32	13	18	28	17	23	.15
19	.17	14	.39	.04	.40	34	18	21	27	18	21	.07
20	.14	12	.33	.04	1.5	31	17	21	25	24	22	.24
21	.17	9.8	.33	.07	5.0	24	15	23	23	26	23	.15
22	.11	7.3	.33	.02	10	26	14	30	17	29	24	.41
23	.28	5.4	.28	.02	12	30	13	25	17	28	66	15
24	.46	5.2	.28	.01	14	31	13	25	16	28	18	15
25	.39	4.5	.24	.01	15	34	12	25	18	29	15	15
26	.28	4.4	.24	.01	15	91	12	26	26	24	2.5	12
27	.33	4.3	.24	.01	16	195	14	27	25	2.0	3.0	11
28	.33	4.3	.24	.01	18	106	17	27	27	8.7	2.2	9.0
29	.46	3.8	.20	.01	---	78	22	27	27	21	2.1	5.7
30	.46	3.6	.17	.01	---	62	23	28	27	14	2.1	5.8
31	.55	---	.14	.02	---	59	---	28	---	13	2.5	---
TOTAL	25.60	216.31	35.31	2.29	106.93	1095	560.5	700	715	614.7	478.8	285.58
MEAN	.83	7.21	1.14	.074	3.82	35.3	18.7	22.6	23.8	19.8	15.4	9.52
MAX	7.1	14	3.3	.46	18	195	39	30	28	44	66	22
MIN	.11	.55	.14	.01	.00	14	9.5	16	16	2.0	1.6	.00
AC-FT	51	429	70	4.5	212	2170	1110	1390	1420	1220	950	566
CAL YR 1981	TOTAL	6925.62	MEAN	19.0	MAX	98	MIN	.11	AC-FT	13740		
WTR YR 1982	TOTAL	4836.02	MEAN	13.2	MAX	195	MIN	.00	AC-FT	9590		

VIRGIN RIVER BASIN

09413200 VIRGIN RIVER NEAR BLOOMINGTON, UTAH

LOCATION.--Lat 37°04'14", long 113°34'55", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ 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 mi² (9,922 km²).

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 fair. Diversions for irrigation of about 19,600 acres (7,900 hm²) above station.

AVERAGE DISCHARGE.--5 years, 338 ft³/s (9.572 m³/s), 244,900 acre-ft/yr (302 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 10,000 ft³/s (283 m³/s) Feb. 15, 1980; minimum, 5.8 ft³/s (0.164 m³/s) Sept. 21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,780 ft³/s (107 m³/s) Aug. 24, gage height, 7.70 ft (2.347 m); minimum daily, 26 ft³/s (0.736 m³/s) June 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	120	270	200	195	158	304	565	104	75	161	45
2	245	115	240	250	200	209	298	643	108	80	537	40
3	800	110	200	225	132	191	289	653	94	80	700	40
4	500	105	175	210	164	184	255	667	83	75	1000	50
5	200	105	195	220	195	168	254	678	72	75	100	50
6	140	110	220	300	178	154	220	488	77	75	90	47
7	120	250	180	200	182	155	195	410	82	75	70	45
8	110	220	200	150	192	153	176	411	83	100	50	45
9	100	190	250	150	201	158	147	411	69	120	45	43
10	95	170	300	160	214	154	122	411	61	105	45	52
11	120	160	220	170	238	170	165	407	57	85	50	71
12	250	150	195	185	212	787	343	348	54	80	70	71
13	180	145	180	200	200	321	362	240	62	70	150	72
14	140	140	175	250	199	247	346	250	63	60	110	72
15	125	135	165	240	206	552	380	260	44	55	60	72
16	130	135	160	185	218	472	361	270	26	55	50	72
17	135	135	155	170	240	316	347	280	38	55	40	72
18	140	135	150	160	230	327	361	290	48	55	70	72
19	140	140	150	170	218	334	386	270	82	60	50	71
20	135	145	155	180	203	325	344	260	74	60	40	95
21	135	150	165	220	212	302	336	260	60	65	60	95
22	130	155	180	220	219	282	272	250	52	70	100	95
23	130	155	200	215	220	288	266	222	53	75	500	95
24	130	155	165	215	230	288	272	187	72	130	2400	95
25	125	160	155	215	223	297	338	189	98	120	190	95
26	125	170	150	215	202	323	406	160	70	105	300	97
27	125	170	150	210	181	576	479	150	50	95	200	1550
28	130	180	155	220	161	397	551	114	60	95	150	657
29	135	195	155	210	---	377	603	122	65	92	100	304
30	150	220	165	200	---	372	600	132	70	53	80	269
31	130	---	180	195	---	330	---	109	---	34	50	---
TOTAL	5286	4625	5755	6310	5665	9367	9778	10107	2031	2429	7618	4549
MEAN	171	154	186	204	202	302	326	326	67.7	78.4	246	152
MAX	800	250	300	300	240	787	603	678	108	130	2400	1550
MIN	36	105	150	150	132	153	122	109	26	34	40	40
AC-FT	10480	9170	11420	12520	11240	18580	19390	20050	4030	4820	15110	9020

CAL YR 1981 TOTAL 61701 MEAN 169 MAX 1220 MIN 16 AC-FT 122400
WTR YR 1982 TOTAL 73520 MEAN 201 MAX 2400 MIN 26 AC-FT 145800

NOTE.--No gage-height record Oct. 2 to Feb. 4, June 27 to July 26, Aug. 3 to Sept. 8.

VIRGIN RIVER BASIN

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ

LOCATION.--Lat 36°53'30", Long 113°55'25", in SW¼SW¼ sec.4, T.40 N., R.15 W., Mohave County, Hydrologic Unit 15010010, on right bank 0.5 mi (0.8 km) downstream from Beaver Dam Wash, 0.4 mi (0.6 km) upstream from Littlefield, and 36 mi (58 km) upstream from waterline of Lake Mead at elevation 1,221 ft (372.2 m) NGVD of 1929.

DRAINAGE AREA.--5,090 mi² (13,200 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to current year.

REVISED RECORDS.--WSP 959: 1932. WSP 979: 1930-31, 1933-37. WSP 1313: 1940(M).

GAGE.--Water-stage recorder. Datum of gage is 1,763.68 ft (537.570 m) NGVD of 1929. Prior to May 28, 1933, non-recording gage at site 300 ft (91 m) upstream and May 28, 1933, to Nov. 7, 1939, at same site, both at datum 2.53 ft (0.771 m) higher. Nov. 8, 1939, to Mar. 31, 1942, nonrecording gage at same site at datum 2.00 ft (0.610 m) higher. Apr. 1, 1942, to Sept. 30, 1970, water-stage recorder at same site at same datum. Oct. 1, 1970, to Aug. 7, 1979 at site 300 ft (91 m) upstream at same datum.

REMARKS.--Records fair. Diversion above station for irrigation of about 23,200 acres (93.9 km²).

AVERAGE DISCHARGE.--53 years, 234 ft³/s (6.627 m³/s), 169,500 acre-ft/yr (209 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,200 ft³/s (997 m³/s) Dec. 6, 1966, gage height, 15.66 ft (4.773 m), site then in use, from rating curve extended above 1,500 ft³/s (42.5 m³/s) on basis of slope-area measurement of peak flow; minimum, 38 ft³/s (1.08 m³/s) May 1, 10, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 3,000 ft³/s (85.0 m³/s), 4,840 ft³/s (137 m³/s) Sept. 27, gage height, 8.69 ft (2.649 m); minimum daily, 68 ft³/s (1.93 m³/s) June 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	175	199	214	229	222	344	606	136	80	99	89
2	93	179	185	237	225	241	344	691	136	80	275	80
3	1170	182	192	222	225	262	320	727	132	80	1190	87
4	292	192	182	210	225	249	288	766	122	80	225	89
5	192	192	199	218	225	241	297	844	110	80	145	128
6	159	192	203	253	210	222	274	559	100	80	125	120
7	147	253	207	237	210	207	245	471	104	85	117	94
8	136	253	214	214	218	210	233	465	108	82	122	104
9	136	214	203	203	225	225	214	453	104	80	128	96
10	127	192	218	222	233	225	189	424	90	106	120	106
11	127	185	218	237	274	218	210	380	80	85	128	114
12	162	185	207	237	257	811	298	354	74	80	207	122
13	179	196	199	237	253	533	386	306	72	80	251	125
14	159	192	203	222	257	360	380	297	80	80	200	117
15	141	169	199	222	270	520	402	301	76	78	145	117
16	147	172	196	222	262	656	397	301	68	78	120	114
17	159	159	192	225	279	407	391	270	87	78	120	106
18	156	166	196	233	279	396	365	262	89	74	122	106
19	159	175	179	233	279	396	386	311	92	76	133	101
20	147	175	172	233	266	360	360	301	120	76	133	99
21	136	175	182	266	270	349	349	275	114	74	112	96
22	136	182	185	253	262	325	306	229	99	108	101	96
23	141	179	185	225	257	325	283	214	92	96	151	87
24	144	182	179	225	257	330	274	203	87	89	1040	89
25	141	172	185	229	266	335	325	189	104	101	381	106
26	153	179	196	245	245	335	411	173	89	109	339	106
27	159	182	199	253	225	599	474	166	80	233	367	1520
28	159	182	203	253	214	441	579	154	80	148	232	889
29	159	196	199	249	---	391	644	139	80	142	183	330
30	189	203	207	253	---	407	663	142	80	145	114	247
31	189	---	210	229	---	360	---	136	---	104	106	---
TOTAL	5782	5630	6093	7211	6897	11158	10631	11109	2885	2967	7231	5680
MEAN	187	188	197	233	246	360	354	358	96.2	95.7	233	189
MAX	1170	253	218	266	279	811	663	844	136	233	1190	1520
MIN	88	159	172	203	210	207	189	136	68	74	99	80
AC-FT	11470	11170	12090	14300	13680	22130	21090	22030	5720	5890	14340	11270

CAL YR 1981 TOTAL 76456 MEAN 209 MAX 1400 MIN 72 AC-FT 151700
WTR YR 1982 TOTAL 83274 MEAN 228 MAX 1520 MIN 68 AC-FT 165200

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

GREAT BASIN

GREAT SALT LAKE BASIN

10010000 GREAT SALT LAKE, UTAH

LOCATION.--Lat 40°44'05", long 112°12'45", in NE¼SW¼NW¼ sec.17, T.1 S., R.3 W., Salt Lake County, Hydrologic Unit 16020204, at Salt Lake County Boat Harbor on southeast shore of lake, 17.1 mi (27.5 km) west of Salt Lake City.

PERIOD OF RECORD.--September 1875 to December 1899, October 1902 to current year. Records for October 1902 to September 1912 and diagram showing fluctuations of lake from 1851-1950, published only in WSP 1314.

REVISED RECORDS.--WSP 1314: 1877. WDR-UT-74-1: 1967-73.

GAGE.--Water-stage recorder at Boat Harbor since October 1938. Datum at gage since September 15, 1970 is 4,186.80 ft (1,276.14 m) NGVD of 1929. October 1938 to April 15, 1967, at datum 4,186.9 ft (1,276.17 m) and April 15, 1967 to September 15, 1970, at datum 4,186.85 ft (1,276.15 m). Prior to October 1938, staff gages at sites and datums as follows: September 1875 to October 1877 at Black Rock at 4,208.4 ft (1,282.72 m) NGVD of 1929, November 1877 to November 1879 at Farmington Bay at 4,206.9 ft (1,282.26 m) NGVD of 1929, November 1879 to April 1881 near Black Rock at 4,203.1 ft (1,281.10 m) NGVD of 1929, April 1881 to December 1899 at Garfield Landing at 4,198.5 ft (1,279.70 m) NGVD of 1929, and July 1903 to October 1938 at Saltair at 4,196.9 ft (1,279.22 m) NGVD of 1929. Staff gage at midlake October 1902 to September 1956 at 4,197.9 ft (1,279.52 m) NGVD of 1929.

REMARKS.--To compensate for wind effect and seiches, elevations given for the gage are taken from a mean-slope line defined by several days' gage-height graph, preceding and following 0001 hours, for the 1st and 15th of each month. Wind effects may cause substantial changes in elevations which are not shown in the published elevations.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 4,210.9 ft (1,283.48 m) June 30, 1876; minimum, 4,191.35 ft (1,277.523 m) Oct. 15, Nov. 1, 1963. Maximum elevation since 1847, 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, 4,200.85 ft (1,280.419 m) June 1, 15; minimum, 4,198.20 ft (1,279.611 m) Oct. 1.

GAGE HEIGHT AND ELEVATION, IN FEET, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Day	Gage height	Elevation
Oct. 1	11.40	4,198.20
15	11.60	4,198.40
Nov. 1	11.65	4,198.45
15	11.70	4,198.50
Dec. 1	11.70	4,198.50
15	11.75	4,198.55
Jan. 1	11.90	4,198.70
15	12.00	4,198.80
Feb. 1	12.10	4,198.90
15	12.15	4,198.95
Mar. 1	12.50	4,199.30
15	12.75	4,199.55
Apr. 1	13.10	4,199.90
15	13.40	4,200.20
May 1	13.60	4,200.40
15	13.90	4,200.70
June 1	14.05	4,200.85
15	14.05	4,200.85
July 1	13.80	4,200.60
15	13.70	4,200.50
Aug. 1	13.60	4,200.40
15	13.25	4,200.05
Sept. 1	13.10	4,199.90
15	13.00	4,199.80

GREAT SALT LAKE BASIN

265

10010050 GREAT SALT LAKE AT PROMONTORY POINT, UTAH

LOCATION.--Lat 41°12'55", Long 112°29'55", in NE¼SW¼SE¼ sec.26, T.6 N., R.6 W., Box Elder County, Hydrologic Unit 16020310, at pipeline energy dissipator at head end of flume, 1.4 mi (2.3 km) west of Saline on south side of causeway, 500 ft (152 m) south of pumping plant, 27.3 mi (43.9 km) west of Ogden, and 31.1 mi (50.0 km) south of Thiokol.

PERIOD OF RECORD.--October 1968 to September 1982 (discontinued).

REVISED RECORDS.--WDR UT-75-1: 1968-1975.

GAGE.--Water-stage recorder on pier of pipeline energy dissipator. Datum of gage, 4,190.126 ft (1,277.150 m) NGVD of 1929. Levels from USGS B. M. 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, 4,200.30 ft (1,280.251 m) June 1, 15; minimum, 4,198.00 ft (1,279.550 m) Oct. 1.

GAGE HEIGHT AND ELEVATION, IN FEET, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Day		Gage height	Elevation
Oct.	1	7.85	4,198.00
	15	8.05	4,198.20
Nov.	1	8.05	4,198.20
	15	8.05	4,198.20
Dec.	1	8.05	4,198.20
	15	8.10	4,198.25
Jan.	1	8.25	4,198.40
	15	8.35	4,198.50
Feb.	1	8.35	4,198.50
	15	8.50	4,198.65
Mar.	1	8.65	4,198.80
	15	8.95	4,199.10
Apr.	1	9.35	4,199.50
	15	9.50	4,199.65
May	1	9.65	4,199.80
	15	9.90	4,200.05
June	1	10.15	4,200.30
	15	10.15	4,200.30
July	1	10.00	4,200.15
	15	9.90	4,200.05
Aug.	1	9.75	4,199.90
	15	9.55	4,199.70
Sept.	1	9.30	4,199.45
	15	9.15	4,199.30

GREAT SALT LAKE BASIN

10010100 GREAT SALT LAKE NEAR SALINE, UTAH

LOCATION.--Lat 41°15'30", long 112°29'58", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ 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.--WDR UT-75-1: 1966-75.

GAGE.--Water-stage recorder on pier of boat harbor. Datum of gage, 4,189.976 ft (1,277.105 m) NGVD of 1929 by levels from U.S. Topographic Division, B.M. 78FMK.

REMARKS.--To compensate for wind effect and seiches, elevations given for the gage are taken from a mean slope line defined by several days' gage-height graph preceding and following 0001 hours, for the 1st and 15th of each month. Wind effects may cause substantial changes in elevations which are not shown in the published elevations.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 4,200.30 ft (1,280.251 m) May 1, 15, June 1, 1976; minimum, 4,192.70 ft (1,277.935 m) Oct. 15, Nov. 1, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4,198.65 ft (1,279.749 m) June 1, 15; minimum, 4,197.20 ft (1,279.307 m) Oct. 1.

GAGE HEIGHT AND ELEVATION, IN FEET, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Day	Gage height	Elevation
Oct. 1	7.20	4,197.20
15	7.35	4,197.35
Nov. 1	7.25	4,197.25
15	7.30	4,197.30
Dec. 1	7.30	4,197.30
15	7.35	4,197.35
Jan. 1	7.50	4,197.50
15	7.55	4,197.55
Feb. 1	7.60	4,197.60
15	7.70	4,197.70
Mar. 1	7.80	4,197.80e
15	8.00	4,198.00e
Apr. 1	8.15	4,198.15
15	8.35	4,198.35
May 1	8.40	4,198.40
15	8.60	4,198.60
June 1	8.65	4,198.65
15	8.65	4,198.65
July 1	8.60	4,198.60
15	8.55	4,198.55
Aug. 1	8.55	4,198.55
15	8.40	4,198.40
Sept. 1	8.30	4,198.30
15	8.15	4,198.15

e Estimated.

BEAR RIVER BASIN

267

10010400 EAST FORK BEAR RIVER NEAR EVANSTON, WY

LOCATION.--Lat 40°52'25", long 110°47'00", in SE¼SE¼SW¼ 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 mi² (89.6 km²).

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, which are fair.

AVERAGE DISCHARGE.--9 years, 51.7 ft³/s (1.464 m³/s), 37,460 acre-ft/yr (46.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 784 ft³/s (22.2 m³/s) June 8, 1981, gage height, 4.20 ft (1.280 m); minimum, 4.5 ft³/s (0.127 m³/s) Apr. 17, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 539 ft³/s (15.3 m³/s) June 28, gage height, 3.70 ft (1.128 m); minimum daily, 5.0 ft³/s (0.142 m³/s) Jan. 7, 8, Feb. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	29	13	7.0	6.5	14	21	38	150	381	97	33
2	13	23	13	7.0	6.5	14	20	47	142	314	93	32
3	18	21	12	7.0	6.0	14	20	61	157	291	92	30
4	21	22	11	7.0	5.5	15	20	80	173	277	83	29
5	20	19	11	7.0	5.0	16	20	88	169	255	76	32
6	18	17	12	6.0	5.0	17	19	83	145	195	71	39
7	18	14	11	5.0	5.5	19	19	79	141	175	66	57
8	22	15	11	5.0	6.0	24	19	75	150	172	64	41
9	18	17	11	6.0	6.5	28	19	70	155	174	61	37
10	18	22	11	6.0	7.0	27	19	62	184	168	57	48
11	31	23	10	6.0	7.0	23	19	49	223	166	54	51
12	22	21	10	6.0	7.5	19	18	44	258	168	54	43
13	20	13	10	6.0	8.0	19	19	39	260	169	52	46
14	19	13	10	6.0	9.0	21	21	39	264	169	49	47
15	19	14	9.9	6.0	10	19	20	47	224	165	45	55
16	20	14	11	6.0	10	16	20	50	247	155	53	70
17	19	13	11	6.5	10	16	20	58	290	146	65	63
18	19	15	11	6.5	10	20	19	81	316	137	53	57
19	20	13	11	6.5	10	21	19	90	333	131	49	56
20	20	12	10	6.5	10	19	19	76	350	127	47	90
21	19	12	10	6.5	12	17	20	86	373	123	45	66
22	20	12	10	6.5	14	16	21	111	384	125	44	60
23	21	13	9.0	6.5	14	15	20	144	397	130	41	56
24	16	13	9.0	6.5	14	15	20	182	360	124	38	53
25	18	13	9.0	6.5	14	21	24	210	380	134	36	59
26	20	13	9.0	6.5	14	23	25	243	357	132	34	134
27	16	13	9.0	6.5	14	22	25	292	392	133	36	192
28	16	13	9.0	6.5	14	22	27	290	433	130	49	145
29	18	14	9.0	6.5	---	21	29	216	426	125	43	117
30	18	14	8.0	6.5	---	21	35	186	378	120	36	105
31	30	---	8.0	6.5	---	21	---	153	---	106	34	---
TOTAL	600	480	318.9	196.5	261.0	595	636	3369	8211	5317	1717	1943
MEAN	19.4	16.0	10.3	6.34	9.32	19.2	21.2	109	274	172	55.4	64.8
MAX	31	29	13	7.0	14	28	35	292	433	381	97	192
MIN	13	12	8.0	5.0	5.0	14	18	38	141	106	34	29
AC-FT	1190	952	633	390	518	1180	1260	6680	16290	10550	3410	3850

CAL YR 1981 TOTAL 17861.9 MEAN 48.9 MAX 582 MIN 7.7 AC-FT 35430
WTR YR 1982 TOTAL 23644.4 MEAN 64.8 MAX 433 MIN 5.0 AC-FT 46900

BEAR RIVER BASIN

1001200 WEST FORK BEAR RIVER AT WHITNEY DAM, NEAR OAKLEY, UTAH

LOCATION.--Lat 40°50'30", long 110°55'35", in NE¼ sec.9, T.1 N., R.9 E., Summit County, Hydrologic Unit 16010101, Wasatch National Forest, on left bank 1,380 ft (421 m) downstream from Whitney Dam, 7 mi (11 km) upstream from Deer Creek, and 21.5 mi (34.6 km) northeast of Oakley.

DRAINAGE AREA.--6.79 mi² (17.59 km²).

PERIOD OF RECORD.--October 1963 to current year. Prior to October 1965 published as, "at Whitney Dam Site."

REVISED RECORD.--WRD UT-73-1: Drainage area.

GAGE.--Water-stage recorder and concrete control with V-notch sharp-crested weir since Aug. 4, 1966. Altitude of gage is 9,120 ft (2,780 m) from topographic map.

REMARKS.--Records fair. Flow regulated by Whitney Reservoir, total capacity, 4,700 acre-ft (5.80 hm³) since July 1966.

AVERAGE DISCHARGE.--16 years (water years 1967-82), 7.88 ft³/s (0.223 m³/s), 5,710 acre-ft/yr (7.04 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 145 ft³/s (4.11 m³/s) June 13, 1965; maximum gage height, 3.08 ft (0.939 m) June 26, 1967; no flow July 24 to Sept. 30, Nov. 16-29, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 107 ft³/s (3.03 m³/s) Sept. 11, gage height, 2.84 ft (0.866 m); minimum daily, 0.96 ft³/s (0.027 m³/s) Sept. 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	62	6.8	4.6
2	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	53	6.4	4.6
3	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	44	6.1	4.6
4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	41	5.8	4.6
5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	39	5.5	70
6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	36	5.5	69
7	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	32	5.3	68
8	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	31	5.5	67
9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	28	5.5	67
10	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	8.8	3.4	5.3	66
11	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	17	5.2	5.2	90
12	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	17	9.7	5.1	99
13	1.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5	17	12	5.0	98
14	1.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5	17	13	5.0	99
15	1.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5	40	12	5.0	101
16	1.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5	73	12	4.9	99
17	1.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5	66	11	4.9	95
18	1.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5	58	10	4.9	93
19	1.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	62	9.5	4.9	40
20	1.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	72	9.0	4.8	2.7
21	1.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	72	8.7	4.7	2.7
22	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	73	8.1	4.6	2.4
23	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	76	8.0	4.6	1.4
24	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	75	7.9	4.7	1.2
25	2.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	73	8.0	4.7	1.1
26	2.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	60	9.7	4.7	1.2
27	2.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	60	10	4.6	1.1
28	1.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5	66	10	4.6	.96
29	1.5	1.5	1.5	1.5	---	1.5	1.5	1.5	66	9.4	4.6	.96
30	1.5	1.5	1.5	1.5	---	1.5	1.5	1.5	62	8.6	4.6	.96
31	1.5	---	1.5	1.5	---	1.5	---	1.5	---	7.6	4.6	---
TOTAL	52.6	45.0	46.5	46.5	42.0	46.5	45.0	46.5	1144.3	568.8	158.4	1297.48
MEAN	1.70	1.50	1.50	1.50	1.50	1.50	1.50	1.50	38.1	18.3	5.11	43.2
MAX	2.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	76	62	6.8	101
MIN	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.4	4.6	.96
AC-FT	104	89	92	92	83	92	89	92	2270	1130	314	2570

CAL YR 1981 TOTAL 2228.42 MEAN 6.11 MAX 49 MIN .25 AC-FT 4420
WTR YR 1982 TOTAL 3539.58 MEAN 9.70 MAX 101 MIN .96 AC-FT 7020

BEAR RIVER BASIN

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10011400 WEST FORK BEAR RIVER BELOW DEER CREEK, NEAR EVANSTON, WY

LOCATION.--Lat 40°56'26", long 110°51'30", in NE¼SE¼NW¼ 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 mi² (135.2 km²).

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 fair. Flow regulated by Whitney Reservoir, total capacity, 4,700 acre-ft (5.80 hm³), since July 1966.

AVERAGE DISCHARGE.--9 years, 42.1 ft³/s (1.192 m³/s), 30,500 acre-ft/yr (37.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 594 ft³/s (16.8 m³/s) May 28, 1982, gage height, 3.79 ft (1.155 m); minimum, 2.0 ft³/s (0.057 m³/s) Aug. 11, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 594 ft³/s (16.8 m³/s) May 28, gage height, 3.79 ft (1.155 m); minimum daily, 8.0 ft³/s (0.227 m³/s) Jan. 7, 8, Feb. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	21	22	14	9.5	15	12	64	224	205	32	14
2	10	19	23	12	9.5	14	12	78	191	172	31	13
3	15	18	23	12	9.5	14	12	100	199	152	30	13
4	17	18	22	12	9.0	14	12	125	216	140	27	40
5	15	18	22	12	8.0	14	12	159	202	140	25	75
6	15	18	19	10	8.0	14	12	154	179	123	25	79
7	13	18	18	8.0	8.5	14	12	147	161	107	25	82
8	14	18	19	8.0	9.0	14	12	138	162	103	26	76
9	13	18	19	8.5	9.5	14	12	129	159	98	26	75
10	14	19	17	9.0	10	14	12	119	185	63	23	86
11	22	19	16	9.0	10	14	12	96	219	58	22	100
12	17	19	15	9.0	10	13	15	89	230	61	22	111
13	16	19	15	9.0	11	13	17	91	219	61	22	114
14	16	21	15	9.0	12	13	17	107	223	59	22	114
15	16	20	16	9.5	13	13	17	136	238	58	20	118
16	18	20	17	9.5	13	13	17	142	288	53	20	114
17	17	20	15	9.5	13	13	17	150	299	48	20	106
18	17	21	16	9.5	13	13	17	188	284	46	19	101
19	17	20	17	9.5	13	13	17	196	281	44	18	69
20	17	20	17	9.5	13	13	17	163	284	44	19	24
21	17	20	17	9.5	14	13	17	193	267	41	19	19
22	17	19	17	9.5	15	13	17	205	270	40	18	17
23	17	19	16	9.5	16	13	17	221	271	40	17	15
24	17	19	15	9.5	15	13	17	261	258	40	16	15
25	17	20	14	9.5	15	13	17	289	249	41	16	16
26	17	19	14	9.5	15	13	21	316	223	60	16	38
27	18	18	14	9.5	15	13	26	366	214	61	16	53
28	18	18	14	9.5	15	12	34	362	219	56	16	38
29	21	19	14	9.5	---	12	46	277	212	47	17	32
30	20	21	14	9.5	---	12	56	258	198	41	16	32
31	19	---	14	9.5	---	12	---	203	---	36	15	---
TOTAL	506.9	576	526	303.0	331.5	411	551	5522	6824	2338	656	1799
MEAN	16.4	19.2	17.0	9.77	11.8	13.3	18.4	178	227	75.4	21.2	60.0
MAX	22	21	23	14	16	15	56	366	299	205	32	118
MIN	9.9	18	14	8.0	8.0	12	12	64	159	36	15	13
AC-FT	1010	1140	1040	601	658	815	1090	10950	13540	4640	1300	3570
CAL YR 1981	TOTAL	14331.7	MEAN	39.3	MAX	237	MIN	8.9	AC-FT	28430		
WTR YR 1982	TOTAL	20344.4	MEAN	55.7	MAX	366	MIN	8.0	AC-FT	40350		

10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE

LOCATION.--Lat 40°57'55", long 110°51'10", in SE¼NW¼SE¼ sec.30, T.3 N., R.10 E., Summit County, Utah Hydrologic Unit 16010101, on left bank 400 ft (122 m) downstream from West Fork and 2.8 mi (4.5 km) upstream from Utah-Wyoming State line.

DRAINAGE AREA.--172 mi² (445 km²).

PERIOD OF RECORD.--July 1942 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,965 ft (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 hm³) since 1966. Three diversions above station for irrigation of about 265 acres (1.07 km²) above and 2,600 acres (10.5 km²) below station.

AVERAGE DISCHARGE.--40 years, 189 ft³/s (5.352 m³/s), 136,900 acre-ft/yr (169 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,980 ft³/s (84.4 m³/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 ft³/s (0.340 m³/s) Nov. 9, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,100 ft³/s (31.2 m³/s), and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 28	0100	*1,790	50.7	3.77	1.149
June 29	0200	1,530	43.3	3.50	1.067

Minimum discharge, 26 ft³/s (0.74 m³/s) Apr. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	65	45	40	38	40	38	287	856	1240	272	74
2	38	65	47	38	38	40	38	394	765	1050	254	72
3	56	61	47	40	38	38	41	498	807	982	287	71
4	82	58	47	40	33	38	38	606	902	934	233	90
5	72	59	44	40	30	38	42	618	870	878	210	135
6	61	58	43	38	32	38	39	546	744	693	192	148
7	56	58	43	36	35	38	38	522	688	631	180	211
8	69	55	42	36	35	38	39	491	709	620	181	154
9	65	49	42	38	35	38	39	469	723	624	190	145
10	58	50	42	40	35	37	42	427	870	575	163	170
11	133	52	42	45	35	38	45	354	1010	556	149	221
12	95	50	39	41	39	36	61	316	1120	564	149	199
13	78	53	40	40	44	39	59	317	1090	566	142	210
14	74	55	40	45	46	40	69	359	1110	562	136	217
15	63	55	42	40	43	40	72	469	1010	541	122	234
16	80	53	40	40	44	38	63	534	1090	502	117	283
17	76	53	40	39	43	37	65	564	1230	458	182	255
18	70	52	40	40	42	38	69	751	1250	422	141	227
19	69	43	44	39	43	38	59	786	1250	394	127	182
20	67	45	45	39	45	38	55	636	1280	375	120	214
21	67	50	44	40	44	38	55	751	1260	360	120	155
22	58	52	43	39	46	38	58	863	1290	354	112	129
23	61	53	42	39	46	40	67	982	1340	376	106	117
24	63	53	40	41	44	42	82	1130	1240	370	95	110
25	55	49	40	42	42	41	100	1170	1290	398	89	118
26	56	38	40	38	42	38	112	1280	1200	463	85	353
27	62	45	40	39	42	38	120	1420	1260	453	87	689
28	58	45	40	39	41	39	138	1410	1330	420	102	520
29	70	45	40	39	---	38	180	1100	1330	386	114	404
30	67	53	40	39	---	36	206	998	1220	386	89	375
31	55	---	40	38	---	44	---	821	---	313	80	---
TOTAL	2073	1572	1303	1227	1120	1197	2129	21869	32134	17446	4626	6482
MEAN	66.9	52.4	42.0	39.6	40.0	38.6	71.0	705	1071	563	149	216
MAX	133	65	47	45	46	44	206	1420	1340	1240	287	689
MIN	38	38	39	36	30	36	38	287	688	313	80	71
AC-FT	4110	3120	2580	2430	2220	2370	4220	43380	63740	34600	9180	12860
CAL YR 1981 TOTAL	63616		MEAN 174	MAX 1650	MIN 32	AC-FT 126200						
WTR YR 1982 TOTAL	93178		MEAN 255	MAX 1420	MIN 30	AC-FT 184800						

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DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	3.8	8.5	8.0	8.0	13	28	100	30	15	9.0	.26
2	.17	6.0	8.0	8.0	8.0	13	25	110	23	18	6.8	.20
3	.32	8.3	8.0	8.0	8.0	13	22	120	23	13	5.4	.20
4	.78	8.3	8.0	8.0	7.5	13	28	142	24	9.0	3.6	.16
5	.78	9.0	8.0	8.0	7.0	13	22	133	25	14	2.4	.13
6	1.2	9.0	8.0	7.5	7.5	15	22	83	44	27	2.2	.14
7	1.0	9.7	8.0	7.0	8.0	15	22	81	40	17	2.9	.19
8	.80	8.0	8.0	7.0	8.0	15	20	80	34	17	4.0	.32
9	.90	7.7	8.0	7.5	8.0	15	19	88	33	37	6.0	.32
10	1.0	8.0	8.0	8.0	8.0	15	17	90	28	21	3.1	.35
11	1.2	9.0	8.0	8.0	9.0	16	18	59	30	18	1.5	3.1
12	2.5	8.0	8.0	8.0	9.0	16	20	46	30	13	1.2	3.6
13	2.0	8.0	8.0	8.0	9.0	16	30	42	35	11	1.1	3.8
14	1.8	8.3	8.0	8.0	9.0	16	80	47	33	11	1.2	5.7
15	1.7	8.7	8.0	8.0	9.0	20	95	75	40	8.7	1.2	7.7
16	1.6	8.3	8.0	8.0	10	25	85	77	34	6.3	1.1	8.3
17	2.0	8.0	8.0	8.0	10	26	75	81	26	4.0	1.1	8.3
18	2.0	8.7	8.0	8.0	10	25	65	113	17	2.0	1.1	8.3
19	1.8	7.7	8.0	8.0	10	24	55	116	15	2.0	.99	8.3
20	1.5	6.8	8.0	8.0	10	25	45	52	15	4.2	.92	8.3
21	1.1	9.0	8.0	8.0	11	24	40	67	18	4.2	.92	8.3
22	.85	10	8.0	8.0	11	20	35	88	21	2.4	.85	6.8
23	.78	11	8.0	8.0	11	25	45	80	18	2.7	.71	5.1
24	.78	14	8.0	8.0	11	21	60	100	21	9.4	.41	4.7
25	.71	11	8.0	8.0	11	23	75	91	16	38	.32	4.4
26	.78	9.0	8.0	8.0	12	25	80	86	22	42	.29	18
27	.92	6.6	8.0	8.0	12	28	85	86	19	32	.29	90
28	1.1	6.6	8.0	8.0	12	31	80	88	14	35	.23	51
29	2.0	6.6	8.0	8.0	---	39	90	45	12	35	.20	37
30	2.9	9.0	8.0	8.0	---	28	100	40	12	17	.20	44
31	2.4	---	8.0	8.0	---	24	---	37	---	13	.29	---
TOTAL	39.53	252.1	248.5	245.0	264.0	637	1483	2543	752	498.9	61.52	336.97
MEAN	1.28	8.40	8.02	7.90	9.43	20.5	49.4	82.0	25.1	16.1	1.98	11.2
MAX	2.9	14	8.5	8.0	12	39	100	142	44	42	9.0	90
MIN	.16	3.8	8.0	7.0	7.0	13	17	37	12	2.0	.20	.13
AC-FT	78	500	493	486	524	1260	2940	5040	1490	990	122	668
CAL YR 1981	TOTAL	5266.94										
WTR YR 1982	TOTAL	7361.52										
			MEAN	14.4	MAX 144	MIN .00	AC-FT 10450					
			MEAN 20.2		MAX 142	MIN .13	AC-FT 14600					

BEAR RIVER BASIN

10015900 SULPHUR CREEK BELOW RESERVOIR, NEAR EVANSTON, WY

LOCATION.--Lat 41°09'21", long 110°50'05", in SE¼SE¼SE¼ 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 mi² (179.2 km²).

PERIOD OF RECORD.--April 1958 to current year.

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

GAGE.--Water-stage recorder and concrete V-notch control. Altitude of gage is 7,120 ft (2,170 m) from topographic map.

REMARKS.--Records good. Flow regulated by Sulphur Creek Reservoir, capacity, 7,100 acre-ft (8.75 hm³). Records prior to 1965 do not include flow over spillway of the dam.

AVERAGE DISCHARGE.--18 years (water years 1965-82), 23.2 ft³/s (0.657 m³/s), 16,810 acre-ft/yr (20.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD (SINCE 1966).--Maximum discharge, 425 ft³/s (12.0 m³/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 daily discharge, 178 ft³/s (5.04 m³/s) May 5; no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	33	104	45	26	32	32
2	.00	.00	.00	.00	.00	.00	33	115	45	26	27	32
3	.00	.00	.00	.00	.00	.00	33	126	45	24	21	32
4	.00	.00	.00	.00	.00	.00	33	148	45	19	18	32
5	.00	.00	.00	.00	.00	.00	33	178	45	21	19	26
6	.00	.00	.00	.00	.00	.00	33	177	45	33	17	16
7	.00	.00	.00	.00	.00	.00	33	177	45	36	17	13
8	.00	.00	.00	.00	.00	.00	33	176	45	34	17	13
9	.00	.00	.00	.00	.00	.00	29	176	45	42	8.2	13
10	.00	.00	.00	.00	.00	.00	25	175	45	46	.00	13
11	.00	.00	.00	.00	.00	.00	25	175	45	40	1.9	13
12	.00	.00	.00	.00	.00	.00	25	174	45	34	3.7	13
13	.00	.00	.00	.00	.00	.00	25	173	45	29	3.7	13
14	.00	.00	.00	.00	.00	.00	25	172	45	27	3.7	13
15	.00	.00	.00	.00	.00	16	25	171	45	23	3.7	13
16	.00	.00	.00	.00	.00	33	25	44	45	19	3.7	13
17	.00	.00	.00	.00	.00	33	25	1.1	45	15	3.7	13
18	.00	.00	.00	.00	.00	33	25	1.1	45	11	3.7	13
19	.00	.00	.00	.00	.00	33	25	1.1	45	9.0	3.7	13
20	.00	.00	.00	.00	.00	33	25	1.0	45	7.1	7.8	13
21	.00	.00	.00	.00	.00	33	25	1.0	37	4.6	12	13
22	.00	.00	.00	.00	.00	33	25	26	2.0	4.7	12	13
23	.00	.00	.00	.00	.00	33	25	44	2.4	5.1	15	13
24	.00	.00	.00	.00	.00	33	25	44	5.2	9.6	26	13
25	.00	.00	.00	.00	.00	33	25	45	12	41	26	13
26	.00	.00	.00	.00	.00	33	42	45	21	99	27	13
27	.00	.00	.00	.00	.00	33	60	45	29	92	27	13
28	.00	.00	.00	.00	.00	33	71	45	31	99	29	14
29	.00	.00	.00	.00	---	33	82	45	29	99	32	14
30	.00	.00	.00	.00	---	33	93	45	27	66	32	19
31	.00	---	.00	.00	---	33	---	45	---	37	32	---
TOTAL	.00	.00	.00	.00	.00	544.00	1041	2895.3	1095.6	1078.1	485.50	490
MEAN	.000	.000	.000	.000	.000	17.5	34.7	93.4	36.5	34.8	15.7	16.3
MAX	.00	.00	.00	.00	.00	33	93	178	45	99	32	32
MIN	.00	.00	.00	.00	.00	.00	25	1.0	2.0	4.6	.00	13
AC-FT	.00	.00	.00	.00	.00	1080	2060	5740	2170	2140	963	972
CAL YR 1981	TOTAL	7311.10	MEAN 20.0	MAX 159	MIN .00	AC-FT	14500					
WTR YR 1982	TOTAL	7629.50	MEAN 20.9	MAX 178	MIN .00	AC-FT	15130					

10019500 CHAPMAN CANAL AT STATE LINE, NEAR EVANSTON, WY

LOCATION.--Lat 41°24'24", long 111°02'26", in SE¼ sec.36, T.17 N., R.121 W., Uinta County, Hydrologic Unit 16010101, on left bank at highway bridge, 6.5 mi (10.5 km) downstream from headgates, and 10 mi (16 km) northwest of Evanston.

PERIOD OF RECORD.--April 1942 to current year (prior to October 1944, irrigation seasons only). Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder and flashboard control. Altitude of gage is 6,570 ft (2,003 m) from river-profile map. Prior to Oct. 11, 1946, nonrecording gage, and Oct. 11, 1946 to Aug. 2, 1961, water-stage recorder at site 20 ft (6 m) downstream at same datum.

REMARKS.--Records poor. Canal diverts water from Bear River in NW¼ sec.36, T.16 N., R.121 W. Many diversions above station for irrigation in Wyoming. Flow at station is for storage in Neponset Reservoir, Utah, and irrigation in Saleratus basin, Utah.

AVERAGE DISCHARGE.--38 years (water years 1945-82), 19.9 ft³/s (0.564 m³/s), 14,420 acre-ft/yr (17.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 143 ft³/s (4.05 m³/s) June 24, 1970; no flow at times each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	21	1.9	.00	.00	.00	60	9.2	43	68	5.0	.36
2	6.7	50	.00	.00	.00	.00	57	9.6	48	62	5.0	2.9
3	8.8	52	.00	.00	.00	.00	56	10	45	56	4.3	4.0
4	15	48	.00	.00	.00	.00	60	11	45	53	3.7	4.3
5	24	45	.00	.00	.00	.00	56	9.9	49	57	3.2	3.7
6	24	47	.00	.00	.00	.00	56	10	51	70	2.9	5.0
7	23	49	.00	.00	.00	.00	57	12	49	54	1.5	5.4
8	22	56	.00	.00	.00	.00	54	13	49	44	.84	7.4
9	21	53	.00	.00	.00	2.3	53	13	48	42	.84	5.7
10	20	48	.00	.00	.00	4.7	52	15	46	41	1.2	6.0
11	19	43	.00	.00	.00	5.0	53	22	50	37	1.1	8.1
12	18	43	.00	.00	.00	5.0	74	41	55	34	.96	9.6
13	17	43	.00	.00	.00	5.0	68	46	60	34	.96	4.8
14	16	51	.00	.00	.00	5.0	10	44	62	36	.84	5.4
15	15	56	.00	.00	.00	5.0	8.8	56	65	40	.84	8.2
16	14	56	.00	.00	.00	5.0	7.8	60	65	36	.84	8.1
17	13	52	.00	.00	.00	5.0	7.1	60	69	30	.84	3.7
18	12	53	.00	.00	.00	5.0	7.4	65	70	25	.72	3.4
19	12	51	.00	.00	.00	5.0	7.8	69	67	22	.72	3.2
20	12	39	.00	.00	.00	5.0	11	72	68	19	.72	3.4
21	11	50	.00	.00	.00	5.0	11	73	65	22	.72	3.4
22	11	64	.00	.00	.00	5.0	10	74	57	34	.60	3.2
23	11	61	.00	.00	.00	5.0	10	75	48	41	.48	2.6
24	10	69	.00	.00	.00	5.0	11	66	48	43	.36	1.2
25	10	73	.00	.00	.00	5.0	11	47	53	27	.36	1.5
26	10	55	.00	.00	.00	20	11	44	56	3.4	.36	5.7
27	9.2	50	.00	.00	.00	40	11	57	59	6.4	.36	14
28	8.5	50	.00	.00	.00	60	9.2	67	65	8.8	.36	21
29	8.5	50	.00	.00	---	66	9.6	64	67	10	.48	17
30	9.2	30	.00	.00	---	60	9.2	62	68	8.1	.36	14
31	8.8	---	.00	.00	---	58	---	56	---	6.4	.60	---
TOTAL	427.1	1508	1.90	.00	.00	386.00	918.9	1332.7	1690	1070.1	42.06	186.26
MEAN	13.8	50.3	.061	.000	.000	12.5	30.6	43.0	56.3	34.5	1.36	6.21
MAX	24	73	1.9	.00	.00	66	74	75	70	70	5.0	21
MIN	6.7	21	.00	.00	.00	.00	7.1	9.2	43	3.4	.36	.36
AC-FT	847	2990	3.8	.00	.00	766	1820	2640	3350	2120	83	369
CAL YR 1981	TOTAL	8445.08	MEAN 23.1	MAX 105	MIN .00	AC-FT 16750						
WTR YR 1982	TOTAL	7563.02	MEAN 20.7	MAX 75	MIN .00	AC-FT 15000						

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UTAH

LOCATION.--Lat 41°26'04", long 111°01'01", in NW¼ 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 mi² (1,948 km²).

PERIOD OF RECORD.--October 1961 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,455 ft (1,967.5 m) from river-profile map.

REMARKS.--Records good except those for winter months, which are fair. Diversion for irrigation of about 43,500 acres (176 km²) above station.

AVERAGE DISCHARGE.--21 years, 232 ft³/s (6.57 m³/s), 168,100 acre-ft/yr (207 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,340 ft³/s (94.6 m³/s) June 13, 1965, gage height, 5.89 ft (1.795 m); minimum, 0.1 ft³/s (0.003 m³/s) Aug. 24, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,870 ft³/s (53.0 m³/s) May 29, gage height, 5.05 ft (1.539 m); minimum, 7.0 ft³/s (0.198 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	59	30	50	53	100	216	756	825	1020	320	31
2	8.0	30	50	50	53	100	190	848	744	986	285	24
3	8.4	34	50	50	53	100	166	992	660	810	270	24
4	16	30	50	50	53	100	212	1130	690	714	250	27
5	53	26	50	50	53	100	169	1220	690	732	190	26
6	59	26	50	50	53	110	169	1140	690	756	154	37
7	45	27	50	50	53	110	173	1040	620	562	133	44
8	39	21	50	50	53	110	151	980	568	465	133	68
9	41	22	50	50	53	110	148	956	550	440	139	48
10	49	21	50	50	53	110	133	944	580	435	123	48
11	56	19	50	53	53	120	136	866	678	390	95	83
12	122	16	50	53	53	120	148	720	830	360	75	115
13	99	16	50	53	53	120	250	645	968	345	70	136
14	88	17	50	53	55	120	655	630	980	345	67	224
15	86	19	50	53	60	150	750	678	1010	340	65	280
16	81	20	48	55	80	200	645	774	938	315	59	285
17	101	19	48	55	80	204	556	696	1030	280	53	310
18	101	18	48	55	80	190	502	795	1160	245	67	265
19	97	18	48	55	80	183	425	1010	1170	232	75	220
20	84	15	48	55	80	193	320	938	1180	212	62	200
21	79	14	48	55	85	183	280	848	1190	200	48	255
22	77	20	48	55	85	151	275	974	1230	193	51	183
23	72	21	48	55	85	157	345	1060	1240	157	38	139
24	70	21	48	55	85	157	450	1220	1220	180	36	115
25	68	28	48	55	85	190	592	1380	1150	208	41	118
26	65	23	48	55	90	193	630	1430	1160	552	41	193
27	64	20	48	55	90	220	650	1550	1100	640	38	988
28	53	17	48	55	90	240	630	1700	1150	592	26	1040
29	62	17	48	55	---	300	726	1730	1200	615	28	842
30	79	16	48	55	---	212	800	1220	1100	550	39	732
31	75	---	48	55	---	183	---	986	---	415	38	---
TOTAL	2004.9	670	1498	1645	1899	4836	11492	31856	28301	14286	3109	7100
MEAN	64.7	22.3	48.3	53.1	67.8	156	383	1028	943	461	100	237
MAX	122	59	50	55	90	300	800	1730	1240	1020	320	1040
MIN	7.5	14	30	50	53	100	133	630	550	157	26	24
AC-FT	3980	1330	2970	3260	3770	9590	22790	63190	56140	28340	6170	14080
CAL YR 1981	TOTAL	65932.38	MEAN 181	MAX 1720	MIN .86	AC-FT 130800						
WTR YR 1982	TOTAL	108696.90	MEAN 298	MAX 1730	MIN 7.5	AC-FT 215600						

BEAR RIVER BASIN

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10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969 to current year. Prior to 1981 water year, published in "Water Resources Data for Wyoming."

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	COLI- FORM, FECAL, 0.7 UM-MP (COLS./ 100 ML)
OCT 14...	1115	88	390	8.5	7.0	5.0	15	8.5	604	130
NOV 17...	1200	18	710	8.5	13.0	7.5	3.0	9.2	600	K10
JAN 13...	1030	53	600	7.8	-12.0	.5	3.0	7.6	605	K2
FEB 18...	1030	79	630	8.4	.0	.0	--	7.4	605	--
MAR 10...	1130	105	690	8.2	10.0	1.0	110	8.5	603	510
APR 14...	1100	720	460	8.3	10.0	6.0	360	8.5	600	--
MAY 18...	1055	762	290	8.2	15.0	10.0	30	9.4	600	K960
JUN 07...	1330	625	270	8.1	17.0	10.0	12	8.2	600	990
JUL 07...	1300	538	270	8.1	23.0	15.0	15	6.4	605	400
AUG 18...	1430	70	380	8.4	25.0	22.5	2.5	9.0	615	590
SEP 14...	1030	224	450	8.0	10.0	10.0	17	9.2	605	1000

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)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	CAR- BONATE FET-FLD (MG/L AS CO3)
OCT 14...	180	8	46	17	.2	12	.4	2.1	210	0
NOV 17...	230	17	55	23	19	15	.5	2.5	260	0
JAN 13...	230	--	58	20	18	15	.5	1.8	--	--
FEB 18...	190	--	44	20	23	20	.7	3.4	--	--
MAR 10...	240	--	59	24	24	17	.7	3.0	--	--
APR 14...	220	--	48	25	22	17	.6	3.7	--	--
MAY 18...	130	--	36	11	6.0	9	.2	1.5	--	--
JUN 07...	140	--	38	12	10	13	.4	2.0	--	--
JUL 07...	130	--	34	12	11	15	.4	1.3	--	--
AUG 18...	180	--	45	16	14	14	.5	1.9	--	--
SEP 14...	210	--	51	19	16	14	.5	2.4	--	--

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

BEAR RIVER BASIN

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	ALKA- LINITY FIELD (MG/L AS CACO3)	ALKA- LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT										
14...	170	--	1.1	17	14	.0	6.3	220	.30	52.3
NOV										
17...	210	--	1.3	20	20	.6	4.9	280	.38	13.6
JAN										
13...	--	210	--	15	20	.5	8.0	270	.37	38.6
FEB										
18...	--	210	--	18	5.2	.4	7.6	250	.34	53.3
MAR										
10...	--	240	--	28	23	.2	8.6	310	.42	87.9
APR										
14...	--	210	--	34	21	.6	8.3	290	.39	564
MAY										
18...	--	130	--	10	6.6	.1	5.4	150	.20	309
JUN										
07...	--	140	--	12	6.6	.3	6.5	170	.23	287
JUL										
07...	--	140	--	7.2	5.6	.6	6.8	160	.22	232
AUG										
18...	--	170	--	14	12	.2	.6	200	.27	37.8
SEP										
14...	--	200	--	20	17	.2	5.3	250	.34	151

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)
OCT									
14...	.140	.47	.61	--	<.10	.01	--	.140	.25
NOV									
17...	.140	.45	.59	.73	.14	.36	3.2	.220	.34
JAN									
13...	.150	.85	1.00	1.4	.37	1.0	6.1	.190	.58
FEB									
18...	.270	1.9	2.20	2.6	.37	.70	11	.760	1.4
MAR									
10...	.110	.66	.77	--	<.09	.10	--	.460	3.4
APR									
14...	.080	.85	.93	--	<.10	.00	--	2.00	.43
MAY									
18...	.090	1.4	1.50	1.7	.20	.00	7.5	.180	.64
JUN									
07...	.120	.78	.90	--	<.10	.10	--	.110	.40
JUL									
07...	.110	1.9	2.00	--	<.10	.00	--	.000	.98
AUG									
18...	.110	.89	1.00	--	<.10	.10	--	.140	.21
SEP									
14...	.090	1.2	1.30	--	<.10	.50	--	.230	.43

10020200 WOODRUFF NARROWS RESERVOIR NEAR WOODRUFF, UTAH

LOCATION.--Lat 41°30'10", long 111°00'55", in SE¼NW¼ 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 mi² (2,031 km²).

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

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

GAGE.--Water-stage recorder and mercury manometer. Datum of gage is 6,405 ft (1,952.2 m) from levels by Bureau of Reclamation.

REMARKS.--Records fair. Reservoir formed by earthfill, rock-faced dam. Storage began Jan. 5, 1962. Total capacity, 28,000 acre-ft (34.5 hm³) below spillway crest. Total capacity increased to 57,300 in 1980. Gage height of spillway is 50.4 ft (15.36 m). Figures given herein represent total contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed contents, 60,470 acre-ft (74.6 hm³) May 5, June 28, 1982, gage height, 51.8 ft (15.79 m); minimum observed, 880 acre-ft (1.09 hm³) Sept. 15-25, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum observed contents, 60,470 acre-ft (74.6 hm³) May 5, June 28, gage height, 51.8 ft (15.79 m); minimum observed, 15,670 acre-ft (19.3 hm³) Oct. 2-4, 6, 7.

Capacity table (gage height, in feet, and total contents, in acre-feet)

26	15,670	36	29,330	46	47,620
28	17,870	38	32,750	48	51,920
30	20,280	40	36,160	50	56,400
32	23,080	42	39,840	52	60,920
34	25,900	44	43,720		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15780	18110	17870	---	---	---	---	---	59790	---	---	---
2	15670	18110	---	---	---	---	---	---	---	---	51920	---
3	15670	18110	---	---	---	26760	---	---	---	---	---	---
4	15670	18110	---	---	23500	---	---	59790	---	---	---	---
5	15780	18110	---	---	---	---	---	60470	---	---	---	---
6	15670	18230	---	---	---	---	---	---	---	---	---	---
7	15670	18230	---	---	---	---	---	---	59790	---	---	---
8	15780	18230	---	---	---	---	---	---	---	---	---	---
9	15780	18110	---	---	---	---	---	---	---	---	49340	47620
10	15890	18110	---	---	---	---	---	---	---	---	---	---
11	15890	18110	---	---	---	---	---	---	---	---	---	---
12	16110	18110	---	---	---	---	---	---	---	---	---	---
13	16220	18110	---	---	---	---	---	---	---	---	---	---
14	16330	18110	---	---	---	---	---	---	---	---	---	---
15	16440	18110	---	---	---	---	---	---	---	---	---	---
16	16550	18110	---	---	---	---	---	---	---	---	---	---
17	16660	18110	---	---	---	---	---	---	---	---	---	---
18	16770	18110	---	---	---	---	---	---	---	---	---	---
19	16990	18110	---	---	---	---	---	60010	---	54130	47620	---
20	17100	18110	---	22380	---	---	---	---	---	---	---	---
21	17210	17990	---	---	---	---	---	---	---	---	---	---
22	17320	17990	---	---	---	---	---	---	---	---	---	52360
23	17430	17990	---	---	---	---	---	---	---	---	---	52580
24	17540	17990	---	---	---	---	---	---	---	---	---	52800
25	17540	17990	---	---	---	---	---	---	---	---	---	53030
26	17650	---	---	---	---	---	---	---	---	---	---	53910
27	17650	17870	---	---	---	---	53030	---	---	---	---	55720
28	17760	17870	---	---	a26400	---	---	---	60470	---	---	57300
29	17760	---	---	---	---	---	---	---	---	---	---	57980
30	17870	a17870	---	---	---	---	a55930	---	a60470	---	---	58200
31	17990	---	a20570	a23200	---	a32500	---	a59820	---	a52230	47230	---
(+)	28.1	---	---	---	---	---	---	---	---	---	45.8	50.8
(#)	+2210	-120	+2700	+2630	+3200	+6100	+23430	+3890	+650	-8240	-5000	+10970

CAL YR 1981 (+) +6990

WTR YR 1982 (+) +42420

(+) ELEVATION, IN FEET, AT END OF MONTH

(#) CHANGE IN CONTENTS, IN ACRE-Feet

(a) NO GAGE-HEIGHT RECORD, CONTENTS INTERPOLATED

BEAR RIVER BASIN

10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UTAH

LOCATION.--Lat 41°30'20", long 111°00'50", in NW¼NW¼ sec.32, T.18 N., R.120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, on right bank 1,100 ft (340 m) downstream from Woodruff Narrows Dam, 1.6 mi (2.6 km) upstream from Salt Creek, 5.4 mi (8.7 km) upstream from Wyoming-Utah State line, and 7.7 mi (12.4 km) east of Woodruff.

DRAINAGE AREA.--784 mi² (2,031 km²).

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORD.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6,398.96 ft (1,950.403 m) NGVD of 1929 (levels by Utah Water Resources Division from Bureau of Reclamation bench mark). Prior to Sept. 26, 1962, at site 175 ft (53.3 m) upstream at same datum.

REMARKS.--Records good. Flow regulated by Woodruff Narrows Reservoir (station 10020200) beginning January 1962. Diversions for irrigation of about 43,500 acres (176 km²) above station.

AVERAGE DISCHARGE.--21 years, 224 ft³/s (6.34 m³/s), 162,300 acre-ft/yr (200 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,000 ft³/s (85.0 m³/s) June 14, 1965, gage height, 7.88 ft (2.402 m); no flow July 4, 5, 1962, Aug. 30, 31, Sept. 1, 2, 6, 7, 1979, Oct. 30, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,860 ft³/s (52.7 m³/s) May 28, gage height, 6.47 ft (1.972 m); minimum daily, 10 ft³/s (0.283 m³/s) several days during September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN LEVELS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	25	26	27	26	29	32	124	1050	1100	357	12
2	28	25	26	27	27	29	32	370	854	1030	358	12
3	23	25	25	27	27	29	32	631	750	906	359	12
4	22	26	25	27	27	28	33	879	700	791	359	12
5	22	26	25	27	27	28	33	1020	704	746	360	11
6	21	26	25	27	27	28	33	1090	707	817	362	11
7	21	26	26	28	26	28	33	1030	680	840	362	11
8	21	26	26	28	27	28	33	965	618	648	313	11
9	21	26	25	28	27	28	33	922	594	540	141	11
10	21	26	25	28	27	29	33	891	573	546	140	11
11	21	26	26	28	27	29	33	856	613	667	140	11
12	21	26	26	28	27	29	34	749	697	616	140	11
13	21	26	26	28	27	29	34	648	844	613	142	11
14	22	26	26	28	27	29	34	593	934	611	142	10
15	22	26	26	28	28	29	34	575	1010	425	142	10
16	22	26	26	27	27	29	35	623	985	356	143	10
17	24	26	26	27	27	30	35	642	986	358	142	10
18	24	26	26	27	27	30	35	654	1080	357	142	10
19	24	26	26	27	27	30	35	791	1150	357	142	10
20	24	26	26	27	27	30	35	913	1170	358	142	10
21	24	26	26	26	27	30	35	845	1200	359	142	10
22	24	26	26	26	27	30	35	866	1200	358	120	10
23	24	26	26	26	27	30	36	952	1230	357	13	10
24	24	26	26	26	28	31	36	1050	1250	356	13	10
25	24	26	26	26	28	31	37	1220	1190	355	12	11
26	24	26	26	26	28	31	37	1330	1180	355	12	11
27	24	26	26	26	28	31	37	1470	1130	356	12	11
28	25	26	26	26	28	32	37	1620	1120	356	12	20
29	25	26	27	26	---	32	37	1720	1140	359	12	223
30	25	27	27	26	---	32	38	1510	1190	358	12	451
31	25	---	27	26	---	32	---	1300	---	358	12	---
TOTAL	725	778	803	835	760	920	1036	28849	28529	16609	4900	984
MEAN	23.4	25.9	25.9	26.9	27.1	29.7	34.5	931	951	536	158	32.8
MAX	32	27	27	28	28	32	38	1720	1250	1100	362	451
MIN	21	25	25	26	26	28	32	124	573	355	12	10
AC-FT	1440	1540	1590	1660	1510	1820	2050	57220	56590	32940	9720	1950
CAL YR 1981	TOTAL	61408.74	MEAN 168	MAX 1350	MIN .66	AC-FT 121800						
WTR YR 1982	TOTAL	85728.00	MEAN 235	MAX 1720	MIN 10	AC-FT 170000						

10020900 WOODRUFF CREEK BELOW RESERVOIR, NEAR WOODRUFF, UTAH

LOCATION.--Lat 41°28'06", long 111°18'50", in NE¼SE¼SW¼ sec.31, T.9 N., R.6 E., Rich County, Hydrologic Unit 16010101, on left bank 0.2 mi (0.3 km) downstream from Woodruff Creek Dam, 4.8 mi (7.7 km) upstream from Birch Creek, and 8.5 mi (13.7 km) southwest of Woodruff.

DRAINAGE AREA.--50.0 mi² (129.5 km²).

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

REVISED RECORDS.--WRD UT-74-1: Drainage area. WRD UT-72-1: 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 hm³) since Nov. 2, 1970.

AVERAGE DISCHARGE.--12 years, 26.5 ft³/s (0.750 m³/s), 19,200 acre-ft/yr (23.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 509 ft³/s (14.4 m³/s) (revised) 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, 411 ft³/s (11.6 m³/s) May 28, gage height, 3.31 ft (1.009 m); no flow on many days.

REVISIONS.--The maximum discharge for the water year 1971 has been revised to 509 ft³/s (14.4 m³/s) May 16, 1971, gage height, 3.62 ft (1.103 m), superseding figure published in the report for 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	11	.00	.00	.00	.00	7.8	118	158	98	41	.00
2	14	11	.00	.00	.00	.00	7.8	168	151	96	40	.00
3	14	10	.00	.00	.00	.00	7.8	230	145	95	40	.00
4	14	10	.00	.00	.00	.00	7.8	259	151	95	40	.00
5	13	4.7	.00	.00	.00	.00	7.8	197	154	86	38	.00
6	13	.07	.00	.00	.00	.00	7.8	159	136	72	38	.00
7	13	.00	.00	.00	.00	.00	7.8	147	112	72	36	.00
8	13	.00	.00	.00	.00	.00	7.9	155	106	72	32	.00
9	13	.00	.00	.00	.00	.00	8.3	157	104	72	31	.00
10	13	.00	.00	.00	.00	.00	8.3	149	106	70	31	.00
11	13	.00	.00	.00	.00	.00	8.4	130	111	69	31	.00
12	13	.00	.00	.00	.00	.00	9.2	114	110	69	30	.00
13	13	.00	.00	.00	.00	.00	8.8	117	106	69	30	.00
14	13	.00	.00	.00	.00	.00	9.0	137	106	68	30	.00
15	13	.00	.00	.00	.00	.00	9.3	158	99	57	30	.00
16	13	.00	.00	.00	.00	.00	9.3	177	93	48	18	.00
17	12	.00	.00	.00	.00	.00	9.3	219	87	48	.00	.00
18	12	.00	.00	.00	.00	.00	9.7	255	80	48	.00	.00
19	12	.00	.00	.00	.00	.00	9.4	251	76	47	.00	.00
20	12	.00	.00	.00	.00	.00	9.6	202	69	46	.00	.00
21	12	.00	.00	.00	.00	.00	9.9	200	64	46	.00	.00
22	12	.00	.00	.00	.00	.00	9.9	240	60	45	.00	.00
23	12	.00	.00	.00	.00	.00	9.9	279	59	45	.00	.00
24	12	.00	.00	.00	.00	.00	10	322	57	45	.00	.00
25	12	.00	.00	.00	.00	2.8	10	319	60	44	.00	.00
26	12	.00	.00	.00	.00	7.3	17	330	56	43	.00	.00
27	12	.00	.00	.00	.00	7.3	79	362	50	43	.00	.00
28	12	.00	.00	.00	.00	7.3	95	360	50	43	.00	.00
29	11	.00	.00	.00	---	7.8	108	219	58	42	.00	.00
30	11	.00	.00	.00	---	7.7	101	161	98	42	.00	.00
31	11	---	.00	.00	---	7.8	---	139	---	41	.00	---
TOTAL	382.4	46.77	.00	.00	.00	48.00	620.8	6430	2872	1876	536.00	.00
MEAN	12.3	1.56	.000	.000	.000	1.55	20.7	207	95.7	60.5	17.3	.000
MAX	14	11	.00	.00	.00	7.8	108	362	158	98	41	.00
MIN	7.4	.00	.00	.00	.00	.00	7.8	114	50	41	.00	.00
AC-FT	758	93	.00	.00	.00	95	1230	12750	5700	3720	1060	.00

CAL YR 1981 TOTAL 3385.33 MEAN 9.27 MAX 122 MIN .00 AC-FT 6710
WTR YR 1982 TOTAL 12811.97 MEAN 35.1 MAX 362 MIN .00 AC-FT 25410

BEAR RIVER BASIN

10026500 BEAR RIVER NEAR RANDOLPH, UTAH

LOCATION.--Lat 41°48'02", long 111°04'20", in SE¼NE¼ sec.7, T.12 N., R.8 E., Rich County, Hydrologic Unit 16010101, on left bank 3.7 mi (6.0 km) upstream from Twin Creek, 5.0 mi (8.0 km) upstream from Utah-Wyoming State line, and 11 mi (18 km) northeast of Randolph.

DRAINAGE AREA.--1,616 mi² (4,185 km²).

PERIOD OF RECORD.--October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft (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 fair. Diversion for irrigation of about 94,500 acres (382 km²) above station. Flow regulated by upstream reservoirs.

AVERAGE DISCHARGE.--39 years, 194 ft³/s (5.49 m³/s), 140,600 acre-ft/yr (173 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,660 ft³/s (75.3 m³/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 ft³/s (0.05 m³/s) Nov. 12, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,090 ft³/s (30.9 m³/s) June 2, gage 5.81 ft (1.771 m); minimum daily, 10 ft³/s (0.283 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	40	40	45	44	100	195	170	1000	715	440	59
2	14	40	40	45	44	100	185	250	1050	741	431	57
3	18	40	40	45	44	100	175	350	900	717	419	64
4	22	40	40	45	44	100	165	500	750	676	405	75
5	22	40	40	45	44	100	155	620	650	641	399	74
6	22	40	40	45	44	100	150	700	520	640	395	72
7	29	40	40	45	44	103	145	780	440	576	393	72
8	31	40	40	45	44	113	140	850	435	567	397	71
9	30	40	40	45	44	135	135	920	389	547	407	72
10	31	40	40	45	44	160	135	940	379	493	345	65
11	41	40	40	45	44	205	140	960	362	429	250	70
12	38	40	40	45	44	190	145	960	284	416	227	78
13	37	40	40	45	44	184	160	950	356	416	214	107
14	40	40	40	45	44	175	180	900	396	430	206	114
15	38	40	40	45	44	215	200	850	477	432	200	109
16	37	40	40	48	47	194	180	780	590	441	193	104
17	42	40	40	48	52	177	160	740	580	408	190	99
18	40	40	40	48	70	176	140	740	600	375	188	95
19	39	40	40	48	70	185	120	760	622	357	190	92
20	38	40	40	48	70	160	110	780	643	347	181	90
21	38	40	40	48	80	150	100	800	664	360	176	88
22	38	40	40	48	80	145	93	800	694	358	174	85
23	38	40	40	48	80	145	89	820	715	348	170	84
24	38	40	40	48	100	145	89	840	743	343	159	83
25	38	40	40	48	100	145	93	860	747	338	125	85
26	38	40	40	48	100	150	98	890	782	409	106	140
27	38	40	40	48	100	163	110	920	791	467	98	185
28	38	40	40	48	100	175	120	940	811	522	92	186
29	38	40	40	48	---	185	135	930	707	472	91	176
30	38	40	40	48	---	200	150	900	673	479	75	179
31	38	---	40	48	---	200	---	940	---	463	63	---
TOTAL	1037	1200	1240	1443	1709	4775	4192	24140	18750	14923	7399	2930
MEAN	33.5	40.0	40.0	46.5	61.0	154	140	779	625	481	239	97.7
MAX	42	40	40	48	100	215	200	960	1050	741	440	186
MIN	10	40	40	45	44	100	89	170	284	338	63	57
AC-FT	2060	2380	2460	2860	3390	9470	8310	47880	37190	29600	14680	5810

CAL YR 1981 TOTAL 33803.8 MEAN 92.6 MAX 813 MIN 7.7 AC-FT 67050
WTR YR 1982 TOTAL 83738.0 MEAN 229 MAX 1050 MIN 10 AC-FT 166100

BEAR RIVER BASIN

281

10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY

LOCATION.--Lat 41°56'20", long 110°59'05", in SE¼SE¼ sec.25, T.23 N., R.120 W., Lincoln County, Hydrologic Unit 16010102, 800 ft (243 m) downstream from Pixley Dam, 11 mi (18 km) south of Cokeville, and 17.5 mi (28.2 km) downstream from Twin Creek.

DRAINAGE AREA.--2,032 mi² (5,263 km²).

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.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,185 ft (1,885.2 m) from river-profile map. Oct. 31, 1941 to Nov. 30, 1943, at site 200 ft (61 m) downstream at different datum.

REMARKS.--Records fair. 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 ft³/s (65.1 m³/s) Mar. 25, 1956; minimum recorded, 0.24 ft³/s (0.007 m³/s) Apr. 26, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum recorded discharge, 1,270 ft³/s (36.0 m³/s) June 2, gage height, 7.77 ft (2.368 m); minimum recorded, 73 ft³/s (2.07 m³/s) May 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								196	594	616	508	86
2								167	949	620	488	83
3								205	1080	632	474	81
4								350	920	628	460	89
5								526	755	616	444	96
6								582	628	610	424	94
7								632	524	598	422	92
8								692	468	576	424	92
9								730	472	570	452	92
10								752	408	550	428	93
11								767	378	536	336	90
12								812	352	536	276	90
13								890	296	516	266	102
14								752	332	502	254	129
15								640	366	500	250	137
16								536	404	498	241	127
17								454	440	504	239	121
18								173	480	506	232	118
19								150	590	462	225	110
20								228	610	428	223	106
21								254	610	426	212	104
22								254	608	424	209	101
23								264	612	412	205	98
24								268	620	410	201	94
25								280	632	398	178	95
26								308	638	446	143	111
27								348	642	502	130	232
28								382	645	574	121	243
29								398	642	580	117	278
30								422	618	554	112	232
31								490	---	538	97	---
TOTAL								13902	17313	16268	8791	3616
MEAN								448	577	525	284	121
MAX								890	1080	632	508	278
MIN								150	296	398	97	81
AC-FT								27570	34340	32270	17440	7170

BEAR RIVER BASIN

10032000 SMITHS FORK NEAR BORDER, WY

LOCATION.--Lat 42°17'16", long 110°52'14", in NW¼ sec.33, T.27 N., R.118 W., Lincoln County, Hydrologic Unit 16010102, on left bank 4.5 mi (7.2 km) upstream from Howland Creek, 6 mi (10 km) downstream from Hobbie Creek, and 12 mi (19 km) northeast of Border.

DRAINAGE AREA.--165 mi² (427 km²).

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 m²) above station.

AVERAGE DISCHARGE.--40 years, 196 ft³/s (5.55 m³/s), 142,000 acre-ft/yr (175 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,610 ft³/s (45.6 m³/s) June 18, 1971, gage height, 5.61 ft (1.710 m); minimum, 21 ft³/s (0.59 m³/s) Mar. 29, 1975, Jan. 24, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,490 ft³/s (42.2 m³/s) May 28, gage height, 4.96 ft (1.512 m); minimum daily, 50 ft³/s (1.42 m³/s) many days during January and February.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	70	61	50	50	61	63	430	853	963	280	168
2	74	71	62	50	50	62	61	587	820	889	283	163
3	76	70	68	50	50	60	62	771	815	801	277	160
4	81	69	68	50	50	60	62	816	813	766	269	157
5	76	69	68	50	50	59	62	752	838	752	264	154
6	74	68	68	50	50	61	61	685	824	700	259	152
7	73	68	66	50	50	60	61	715	744	621	252	158
8	77	67	67	50	50	58	60	778	719	588	257	158
9	75	67	67	50	50	60	60	745	648	597	262	152
10	77	66	66	50	50	60	59	721	623	561	253	163
11	103	66	64	50	50	62	63	635	641	535	236	178
12	91	66	71	50	50	58	80	619	683	508	225	161
13	83	67	66	55	50	57	77	697	776	492	223	167
14	81	69	65	55	50	63	84	804	874	475	221	171
15	77	69	66	55	50	64	88	927	922	457	216	163
16	80	68	63	55	57	61	81	1020	945	436	210	157
17	78	68	64	55	63	61	80	1140	1010	413	213	151
18	75	69	62	55	61	61	84	1210	1070	392	208	147
19	74	65	71	55	61	61	77	1230	1090	374	202	143
20	73	65	78	55	61	59	76	1090	1080	362	197	142
21	72	68	71	55	63	56	76	1110	1100	347	192	140
22	71	68	68	55	65	57	84	1140	1120	333	188	138
23	70	67	66	55	65	62	103	1210	1130	326	184	135
24	70	69	66	55	62	60	135	1290	1130	330	181	135
25	70	67	68	55	62	58	175	1320	1130	330	179	137
26	70	64	65	55	62	60	218	1360	1100	316	176	172
27	70	62	63	55	62	62	261	1420	1070	317	175	191
28	70	61	61	55	61	62	315	1410	1050	334	179	196
29	76	60	59	55	---	65	364	1170	1040	339	186	177
30	74	60	58	55	---	62	353	971	1010	314	179	168
31	70	---	50	55	---	61	---	863	---	300	175	---
TOTAL	2356	2003	2026	1645	1555	1873	3485	29636	27668	15268	6801	4754
MEAN	76.0	66.8	65.4	53.1	55.5	60.4	116	956	922	493	219	158
MAX	103	71	78	55	65	65	364	1420	1130	963	283	196
MIN	70	60	50	50	50	56	59	430	623	300	175	135
AC-FT	4670	3970	4020	3260	3080	3720	6910	58780	54880	30280	13490	9430

CAL YR 1981 TOTAL 42137 MEAN 115 MAX 481 MIN 50 AC-FT 83580
WTR YR 1982 TOTAL 99070 MEAN 271 MAX 1420 MIN 50 AC-FT 196500

BEAR RIVER BASIN

283

10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY

LOCATION.--Lat 42°07'36", long 110°58'21", in SE¼NE¼ sec.28, T.25 N., R.119 W., Lincoln County, Hydrologic Unit 16010102, on left bank 1.1 mi (1.8 km) upstream from Wyman Dam, 2.8 mi (4.5 km) northwest of Cokeville, and 3.8 mi (6.1 km) downstream from Smiths Fork.

DRAINAGE AREA.--2,447 mi² (6,338 km²).

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

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

GAGE.--Water-stage recorder. Altitude of gage is 6,140 ft (1,871 m) from river-profile map.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by diversion for irrigation, return flow from irrigated areas, and regulation by upstream reservoirs.

AVERAGE DISCHARGE.--28 years, 428 ft³/s (12.1 m³/s), 310,100 acre-ft/yr (382 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,780 ft³/s (107 m³/s) Mar. 26, 1956, gage height, 7.54 ft (2.298 m); minimum, 31 ft³/s (0.878 m³/s) Oct. 4, 5, 6, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,100 ft³/s (59.5 m³/s) June 3, gage height, 6.18 ft (1.884 m); minimum, 95 ft³/s (2.69 m³/s) Oct. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	166	170	120	180	300	468	821	1620	1640	891	272
2	96	163	174	120	180	302	436	871	1760	1600	846	265
3	98	172	180	130	180	355	408	990	2050	1520	808	258
4	110	167	180	140	150	400	400	1170	1970	1480	762	251
5	108	165	180	158	120	379	366	1390	1790	1490	739	264
6	104	164	181	150	140	354	358	1470	1620	1450	713	278
7	104	161	187	140	150	329	348	1500	1440	1440	680	275
8	109	152	204	150	165	313	335	1600	1260	1380	670	269
9	125	150	205	150	150	290	321	1680	1250	1360	709	265
10	161	151	193	150	150	286	308	1730	1150	1300	686	294
11	184	163	192	150	150	403	318	1750	1080	1250	611	306
12	191	164	185	150	150	566	438	1720	1070	1260	503	279
13	195	174	190	150	150	504	628	1820	1030	1240	482	304
14	182	185	193	150	150	467	792	1780	1100	1170	472	392
15	174	189	192	150	150	452	776	1680	1200	1080	462	386
16	177	188	188	160	153	482	684	1610	1240	1060	450	371
17	182	187	182	170	154	480	571	1550	1340	1020	454	349
18	174	192	160	179	162	436	519	1440	1410	1020	436	328
19	171	187	179	170	239	459	473	1290	1540	950	413	319
20	166	183	200	170	256	391	428	1340	1630	873	414	304
21	164	187	180	170	260	362	402	1330	1650	831	405	297
22	160	189	160	170	291	362	396	1330	1660	818	398	293
23	159	192	145	170	350	365	414	1350	1670	786	392	291
24	164	200	150	170	497	359	471	1390	1680	766	381	282
25	162	202	170	170	477	347	554	1430	1720	755	370	282
26	157	188	170	170	415	365	617	1470	1730	751	339	322
27	152	165	170	190	324	433	662	1540	1680	861	318	476
28	154	155	170	190	324	485	705	1650	1660	952	313	603
29	173	150	170	190	---	564	788	1680	1650	1050	317	567
30	176	160	150	190	---	564	792	1610	1650	978	307	534
31	169	---	130	190	---	509	---	1540	---	932	294	---
TOTAL	4703	5211	5480	4977	6217	12663	15176	45522	45300	35063	16035	9976
MEAN	152	174	177	161	222	408	506	1468	1510	1131	517	333
MAX	195	202	205	190	497	566	792	1820	2050	1640	891	603
MIN	96	150	130	120	120	286	308	821	1030	751	294	251
AC-FT	9330	10340	10870	9870	12330	25120	30100	90290	89850	69550	31810	19790
CAL YR 1981	TOTAL	83884	MEAN 230	MAX	964	MIN 84	AC-FT	166400				
WTR YR 1982	TOTAL	206323	MEAN 565	MAX	2050	MIN 96	AC-FT	409200				

BEAR RIVER BASIN

10039500 BEAR RIVER AT BORDER, WY

LOCATION.--Lat 42°12'40", long 111°03'11", in NE¼NE¼NE¼ 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 (0.3 km) west of Border, and 2.1 mi (3.4 km) upstream from Thomas Fork.

DRAINAGE AREA.--2,486 mi² (6,439 km²).

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

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

GAGE.--Water-stage recorder. Datum of gage is 6,051.63 ft (1,844.537 m) NGVD of 1929, unadjusted.

REMARKS.--Records fair. Natural flow of stream affected by regulation by upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--45 years, 421 ft³/s (11.92 m³/s), 305,000 acre-ft/yr (376 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,680 ft³/s (104 m³/s) May 11, 1952, gage height, 8.89 ft (2,710 m); minimum, 24 ft³/s (0.68 m³/s) Apr. 29, 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,010 ft³/s (56.9 m³/s) June 3; minimum daily, 95 ft³/s (2.69 m³/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	165	170	120	180	300	471	780	1580	1600	920	286
2	95	163	175	120	180	300	440	831	1720	1560	880	250
3	96	165	180	130	180	355	413	950	2010	1480	833	199
4	104	167	180	140	150	400	416	1130	1930	1440	784	192
5	108	163	180	160	120	380	383	1350	1750	1450	758	194
6	104	163	180	150	140	355	373	1430	1580	1410	725	207
7	104	163	190	140	150	330	365	1460	1400	1400	697	211
8	108	151	205	150	165	315	353	1560	1220	1330	673	207
9	117	149	205	150	150	290	341	1640	1210	1320	704	201
10	151	147	195	150	150	285	329	1690	1110	1280	694	219
11	176	151	190	150	150	400	334	1710	1040	1240	639	252
12	187	154	185	150	150	565	440	1680	1030	1220	535	230
13	189	158	190	150	150	505	606	1780	990	1210	491	247
14	181	180	190	150	150	475	788	1740	1060	1160	491	343
15	162	181	190	150	150	462	822	1640	1160	1080	465	365
16	165	180	190	150	155	475	736	1570	1200	1050	465	391
17	172	180	180	150	155	487	619	1510	1300	1020	459	373
18	165	181	160	180	160	443	558	1400	1370	1040	443	363
19	163	180	180	170	240	462	507	1260	1500	1000	419	353
20	162	174	210	170	255	408	459	1300	1590	920	413	336
21	158	176	180	170	260	378	428	1290	1610	837	411	329
22	154	178	160	170	290	373	413	1290	1620	822	399	322
23	153	183	145	170	350	373	428	1310	1630	799	391	322
24	151	189	150	170	500	368	462	1350	1640	777	383	312
25	153	194	170	170	475	358	535	1390	1680	762	370	312
26	153	183	170	170	415	365	596	1430	1690	747	348	339
27	147	170	170	190	325	416	635	1500	1640	841	327	459
28	147	160	170	190	325	468	666	1610	1620	936	324	622
29	163	150	170	190	---	545	750	1640	1610	1050	324	609
30	174	165	150	190	---	561	750	1570	1610	1020	317	593
31	167	---	130	190	---	497	---	1500	---	956	310	---
TOTAL	4527	5063	5490	4950	6220	12694	15416	44291	44100	34757	16392	9638
MEAN	146	169	177	160	222	409	514	1429	1470	1121	529	321
MAX	189	194	210	190	500	565	822	1780	2010	1600	920	622
MIN	95	147	130	120	120	285	329	780	990	747	310	192
AC-FT	8980	10040	10890	9820	12340	25180	30580	87850	87470	68940	32510	19120
CAL YR 1981	TOTAL	79561	MEAN 218	MAX 849	MIN 61	AC-FT 157800						
WTR YR 1982	TOTAL	203538	MEAN 558	MAX 2010	MIN 95	AC-FT 403700						

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year. Prior to 1981 water year, published in "Water Resources Data for Wyoming."

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1965 to September 1976, January 1978 to September 1981 (discontinued).

WATER TEMPERATURES: October 1965 to September 1976, January 1978 to September 1981 (discontinued).

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,580 micromhos Dec. 27, 1975; minimum daily, 312 micromhos Apr. 3, 1969.

WATER TEMPERATURES: Maximum, 23.5°C Aug. 14, 1980; minimum, 0.0°C on many days during winter periods.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT											
14...	1500	172	620	8.4	5.0	7.0	8.8	8.6	614	--	24
NOV											
17...	1430	176	920	8.4	8.0	6.0	7.0	7.6	610	23	--
JAN											
13...	1330	129	*620	7.8	-12.0	.0	4.2	8.2	615	11	K3
FEB											
18...	1400	208	740	7.8	2.0	.5	--	8.0	600	19	--
MAR											
10...	1500	316	670	8.3	13.0	.0	56	8.8	612	19	200
APR											
14...	1500	822	620	8.5	13.0	10.0	--	7.9	605	--	--
MAY											
19...	1230	1250	490	8.1	6.0	8.0	72	9.6	610	18	1000
JUN											
09...	0930	1270	530	8.0	7.0	10.0	--	7.8	615	65	600
JUL											
07...	1000	1390	510	8.1	13.0	13.0	69	7.6	615	96	120
AUG											
18...	1100	428	540	8.0	25.0	19.0	--	7.0	615	17	130
SEP											
14...	1600	355	540	8.1	14.0	8.0	9.2	9.8	>615	23	160

DATE	STREP- TOCOC- CI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE FET-FLD (MG/L AS HCO3)
OCT											
14...	75	260	--	53	64	25	25	17	.7	2.3	--
NOV											
17...	--	270	32	--	66	26	24	16	.6	2.1	290
JAN											
13...	K1	290	--	89	73	26	26	16	.7	1.4	--
FEB											
18...	--	250	--	--	63	22	22	16	.6	1.9	--
MAR											
10...	790	230	--	31	56	22	29	21	.9	3.6	--
APR											
14...	--	260	--	--	60	27	46	27	1.2	4.0	--
MAY											
19...	280	210	--	34	61	15	10	9	.3	1.8	--
JUN											
09...	110	250	--	--	62	24	27	19	.7	2.7	--
JUL											
07...	34	230	--	14	51	26	25	19	.8	2.6	--
AUG											
18...	84	240	--	--	60	23	25	18	.7	1.9	--
SEP											
14...	560	240	--	40	61	21	20	15	.6	1.6	--

* Laboratory values.

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

BEAR RIVER BASIN

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	CAR- BONATE FET-FLD (MG/L AS CO3)	ALKA- LITY FIELD (MG/L AS CACO3)	ALKA- LITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 14...	--	--	210	--	75	27	.2	8.8	377	354	.51
NOV 17...	0	240	--	1.8	56	26	.6	7.6	--	350	.48
JAN 13...	--	--	230	--	69	27	.5	10	370	370	.50
FEB 18...	--	--	210	--	58	20	.4	9.0	--	320	.44
MAR 10...	--	--	200	--	65	30	.3	9.5	342	336	.47
APR 14...	--	--	210	--	100	36	.7	8.6	--	410	.56
MAY 19...	--	--	180	--	35	9.1	.2	8.0	243	246	.33
JUN 09...	--	--	230	--	45	21	.4	9.3	--	330	.45
JUL 07...	--	--	220	--	35	25	.2	8.6	317	306	.43
AUG 18...	--	--	210	--	50	20	.2	8.2	--	320	.44
SEP 14...	--	--	199	--	65	20	.2	7.9	335	326	.46

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
OCT 14...	175	--	.090	.12	.49	.13	.040	.12	.020	.020	.06
NOV 17...	166	12	--	--	--	<.10	.250	--	--	--	--
JAN 13...	129	6	.090	.12	.44	<.10	.810	2.5	.140	.020	.06
FEB 18...	180	13	--	--	--	.40	.270	--	--	--	--
MAR 10...	292	104	.240	.31	.89	.10	.220	.67	.180	.040	.12
APR 14...	910	--	--	--	.82	.50	.820	--	--	--	--
MAY 19...	820	195	.070	.09	1.60	.11	.300	.92	.060	.030	.09
JUN 09...	1130	113	--	--	--	.20	.240	--	--	--	--
JUL 07...	1190	105	.070	.09	1.40	<.10	.540	1.7	.090	.030	.09
AUG 18...	370	99	--	--	--	<.10	.160	--	--	--	--
SEP 14...	321	14	--	--	.70	<.10	.070	.21	.020	.010	.03

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
OCT 14...	1500	2	0	2	100	0	100	1	--	<1	<10
MAR 10...	1500	2	0	2	100	9	<100	1	0	2	10
MAY 19...	1230	2	1	1	100	0	110	<1	--	3	<10
SEP 14...	1600	1	0	1	100	0	110	<1	--	<1	<10

BEAR RIVER BASIN

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10039500 BEAR RIVER AT BORDER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	CHROMIUM, SUS- PENDE RECov. (UG/L AS CR)	CHROMIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECov- ERABLE (UG/L AS CO)	COBALT, SUS- PENDE RECov- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECov- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECov- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECov- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECov- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 14...	0	<10	4	--	3	5	4	1	510	--	<10
MAR 10...	--	<10	1	0	1	10	9	1	1900	--	<10
MAY 19...	--	<10	1	--	<1	18	16	2	2900	2900	23
SEP 14...	--	<10	<1	--	<1	1	0	4	460	450	14

DATE	LEAD, TOTAL RECov- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECov- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGANESE, TOTAL RECov- ERABLE (UG/L AS MN)	MANGANESE, SUS- PENDE RECov- ERABLE (UG/L AS MN)	MANGANESE, DIS- SOLVED (UG/L AS MN)	MERCURY, TOTAL RECov- ERABLE (UG/L AS HG)	MERCURY, SUS- PENDE RECov- ERABLE (UG/L AS HG)	MERCURY, DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECov- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECov- ERABLE (UG/L AS NI)
OCT 14...	1	0	1	60	50	<10	.1	.1	<.1	6	6
MAR 10...	5	4	1	130	110	20	.1	--	<.1	2	1
MAY 19...	14	10	4	150	140	<10	2.2	.1	2.1	5	--
SEP 14...	12	10	2	50	40	14	.7	.0	.8	3	2

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELENIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECov- ERABLE (UG/L AS AG)	SILVER, SUS- PENDE RECov- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECov- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECov- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 14...	<1	<1	0	<1	<1	0	<1	30	20	<10
MAR 10...	1	<1	--	<1	<1	--	<1	30	--	<10
MAY 19...	<1	1	--	<1	2	--	<1	120	100	24
SEP 14...	1	1	--	<1	<1	--	<1	50	20	32

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT 14...	1500	172	7.0	58	82	27
NOV 17...	1430	176	6.0	60	72	29
JAN 13...	1330	129	.0	45	92	16
FEB 18...	1400	208	.5	20	66	11
MAR 10...	1500	316	.0	181	93	154
APR 14...	1500	822	10.0	3010	91	6680
MAY 19...	1230	1250	8.0	214	87	722
JUN 09...	0930	1270	10.0	190	88	652
JUL 07...	1000	1390	13.0	244	85	916

BEAR RIVER BASIN

10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE

LOCATION.--Lat 42°24'10", long 111°01'30", in SE¼NW¼ sec.19, T.28 N., R.119 W., Lincoln County, Wyoming, Hydrologic Unit 16010102, on right bank 1.3 mi (2.1 km) upstream from State line, 1.5 mi (2.4 km) downstream from Giraffe Creek, and 3.5 mi (5.6 km) northeast of Geneva, Idaho.

DRAINAGE AREA.--113 mi² (293 km²).

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 and early spring periods, which are fair.

AVERAGE DISCHARGE.--33 years, 55.0 ft³/s (1.56 m³/s), 39,850 acre-ft/yr (49.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,040 ft³/s (29.5 m³/s) May 14, 1971, gage height, 3.84 ft (1.170 m); minimum, 2.6 ft³/s (0.074 m³/s) Mar. 2, 1956, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 150 ft³/s (4.25 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 4	unknown	*869	24.6	3.46	1.055
May 16	unknown	825	23.4	3.38	1.030

Minimum daily, 7.0 ft³/s (0.198 m³/s) Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	11	11	9.5	9.0	16	16	340	324	97	45	28
2	9.5	11	12	9.0	10	16	16	450	309	92	45	27
3	10	11	12	9.5	10	16	17	580	291	87	43	27
4	12	11	12	10	8.0	16	18	680	270	85	42	26
5	11	11	12	10	7.0	16	18	628	253	86	40	26
6	10	11	12	9.0	8.0	16	19	599	246	83	39	25
7	10	11	12	8.0	9.0	16	20	626	224	80	38	27
8	12	11	12	9.0	9.0	16	22	677	222	82	40	31
9	11	11	12	10	9.0	16	25	656	204	88	41	27
10	12	11	12	10	9.5	16	30	614	191	77	38	26
11	22	12	12	10	10	16	40	560	182	74	36	38
12	18	11	12	10	10	16	50	557	176	72	36	31
13	15	11	12	12	10	16	50	590	172	69	35	29
14	14	13	12	12	10	16	55	641	168	67	35	34
15	13	14	12	12	10	16	63	685	163	65	35	44
16	14	13	12	12	12	16	57	700	162	63	33	36
17	14	13	12	12	14	16	55	680	160	61	33	32
18	12	12	12	12	15	16	55	660	150	60	33	29
19	12	12	12	12	15	16	46	690	140	58	32	27
20	11	12	12	12	15	16	46	655	134	57	31	26
21	11	12	11	12	14	16	48	643	129	55	31	26
22	11	13	11	12	14	16	53	627	125	52	30	26
23	11	13	11	12	14	16	60	625	121	52	29	25
24	11	13	11	12	14	16	75	617	114	54	28	24
25	11	13	11	12	14	16	95	586	111	62	28	24
26	11	12	11	12	14	16	130	561	108	52	28	25
27	11	11	11	10	14	16	170	538	104	52	29	33
28	11	11	11	10	14	16	220	502	98	54	29	66
29	14	11	11	10	---	16	310	423	94	66	34	47
30	13	11	10	10	---	16	300	374	92	53	31	39
31	12	---	10	10	---	16	---	338	---	47	32	---
TOTAL	379.3	353	358	332.0	321.5	496	2179	18102	5237	2102	1079	931
MEAN	12.2	11.8	11.5	10.7	11.5	16.0	72.6	584	175	67.8	34.8	31.0
MAX	22	14	12	12	15	16	310	700	324	97	45	66
MIN	9.5	11	10	8.0	7.0	16	16	338	92	47	28	24
AC-FT	752	700	710	659	638	984	4320	35910	10390	4170	2140	1850
CAL YR 1981 TOTAL	6499.0		MEAN 17.8	MAX 66	MIN 8.0	AC-FT 12890						
WTR YR 1982 TOTAL	31869.8		MEAN 87.3	MAX 700	MIN 7.0	AC-FT 63210						

10044000 BEAR RIVER AT HARER, ID

LOCATION.--Lat 42°11'50", long 111°10'05", in NW¼NW¼NW¼ 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 mi² (7,353 km²).

PERIOD OF RECORD.--June 1913 to current year. Monthly discharge only October 1916 to December 1918 published in WSP 1314.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,000 ft (1,830 m) from topographic map. Prior to Aug. 24, 1914, staff gage at site 1,500 ft (457 m) downstream at different datum.

REMARKS.--Records good except those for winter months, which are fair. Natural flow of stream affected by upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--69 years, 519 ft³/s (14.70 m³/s), 376,000 acre-ft/yr (464 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,440 ft³/s (126 m³/s) May 7, 1952, gage height, 11.04 ft (3.365 m); minimum daily, 26 ft³/s (0.74 m³/s) Aug. 21-27, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,480 ft³/s (70.2 m³/s) May 29, gage height, 8.61 ft (2.624 m); minimum daily, 105 ft³/s (2.97 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	187	234	218	191	346	599	1210	2200	1800	1140	336
2	111	184	224	203	189	338	586	1260	2210	1780	1100	317
3	117	182	217	197	196	352	553	1340	2320	1760	1040	267
4	123	189	209	167	198	364	554	1500	2450	1700	965	241
5	125	190	214	142	190	370	535	1690	2440	1690	908	234
6	126	187	230	171	179	377	512	1920	2280	1720	868	234
7	124	187	224	148	170	380	498	2060	2080	1680	853	253
8	125	186	222	125	173	379	482	2120	1900	1640	807	246
9	124	180	209	122	179	378	467	2220	1700	1570	813	241
10	125	178	221	125	183	392	455	2310	1620	1550	830	249
11	171	175	201	129	186	413	451	2380	1540	1470	782	287
12	201	184	191	134	190	461	550	2420	1450	1440	688	294
13	203	188	183	143	193	483	693	2410	1380	1430	603	290
14	184	197	191	154	200	506	899	2430	1360	1400	588	345
15	172	213	197	165	210	546	1090	2420	1430	1370	554	445
16	166	209	189	173	218	582	1060	2380	1440	1290	543	479
17	191	206	200	174	217	585	930	2360	1510	1250	526	484
18	183	208	219	175	214	581	779	2370	1580	1210	527	462
19	173	210	176	177	214	546	709	2350	1620	1210	503	438
20	170	205	185	181	235	556	649	2310	1730	1150	480	418
21	168	201	205	185	260	474	618	2270	1790	1030	468	389
22	174	201	231	188	266	445	592	2230	1800	963	456	372
23	174	207	194	192	288	448	610	2200	1790	952	439	360
24	170	214	190	194	331	448	648	2200	1800	914	425	361
25	172	222	217	195	422	441	726	2240	1840	896	409	348
26	173	197	222	195	462	443	833	2280	1870	875	392	353
27	171	151	295	194	417	475	926	2320	1860	923	366	426
28	167	197	202	190	377	542	1010	2390	1820	1070	362	570
29	176	267	196	187	---	619	1100	2460	1780	1220	357	755
30	189	250	203	184	---	660	1200	2450	1790	1290	353	774
31	190	---	190	185	---	639	---	2330	---	1200	354	---
TOTAL	4943	5952	6481	5312	6748	14569	21314	66830	54380	41443	19499	11268
MEAN	159	198	209	171	241	470	710	2156	1813	1337	629	376
MAX	203	267	295	218	462	660	1200	2460	2450	1800	1140	774
MIN	105	151	176	122	170	338	451	1210	1360	875	353	234
AC-FT	9800	11810	12860	10540	13380	28900	42280	132600	107900	82200	38680	22350

CAL YR 1981 TOTAL 91295 MEAN 250 MAX 968 MIN 89 AC-FT 181100
WTR YR 1982 TOTAL 258739 MEAN 709 MAX 2460 MIN 105 AC-FT 513200

BEAR RIVER BASIN

10046000 RAINBOW INLET CANAL NEAR DINGLE, ID

LOCATION.--Lat 42°13'48", long 111°17'43", in NW¼SW¼SE¼ sec.3, T.14 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 1.5 mi (2.4 km) west of Dingle and 1.8 mi (2.9 km) downstream from headworks at Stewart Dam.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only prior to October 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Elevation of gage datum is 5,922.0 ft (1,805.03 m) NGVD of 1929 (by topographic survey). Prior to Oct. 1, 1923, at site 300 ft (91 m) downstream at different datum; Oct. 1, 1923 to Oct. 27, 1944, at site 0.5 mi (0.8 km) downstream at different datum.

REMARKS.--Records good. Canal diverts from Bear River at Stewart Dam in NE¼ sec.34, T.13 S., R.44 E., for storage in Bear Lake. At times flow in canal is augmented by surplus water from Black Otter Slough entering at the station and by seepage and surplus water from irrigation.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--60 years, 342 ft³/s (9.685 m³/s), 247,800 acre-ft/yr (306 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,180 ft³/s (118 m³/s) May 7, 1952, gage height, 8.62 ft (2.627 m); no flow Apr. 28, 1977 and Oct. 1, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,270 ft³/s (64.3 m³/s) May 13-15; minimum daily, 5.7 ft³/s (0.16 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	161	156	132	110	314	580	1140	1920	1400	985	280
2	5.8	158	154	115	111	302	569	1170	1870	1370	951	257
3	13	163	170	108	112	316	551	1240	2000	1350	890	249
4	15	164	151	108	105	325	534	1370	2050	1390	854	208
5	16	154	149	103	99	336	530	1540	2060	1390	803	199
6	29	150	159	95	101	361	475	1690	1970	1400	769	203
7	46	148	155	101	98	353	471	1920	1780	1400	749	216
8	42	147	149	90	98	361	454	1980	1620	1350	715	215
9	47	143	140	82	100	343	423	2050	1460	1370	705	210
10	54	141	159	83	103	347	409	2110	1320	1340	722	223
11	66	141	167	84	100	349	407	2160	1130	1270	704	237
12	78	140	181	92	98	484	466	2240	1030	1210	644	262
13	122	146	148	100	99	480	604	2270	971	1170	524	258
14	136	153	152	108	101	493	763	2270	914	1150	499	270
15	117	163	161	109	102	475	945	2270	955	1140	499	369
16	107	171	161	115	104	469	1000	2230	951	1020	452	431
17	119	168	144	115	116	485	930	2190	983	984	416	463
18	130	162	88	119	129	494	815	2180	1040	950	431	461
19	127	168	105	119	142	471	716	2120	1090	950	428	440
20	125	168	141	120	157	475	669	2100	1140	985	415	425
21	125	165	182	116	186	455	619	2090	1230	938	393	409
22	125	163	187	114	218	413	587	2060	1320	773	383	400
23	131	168	144	113	223	379	586	1990	1320	767	371	383
24	129	174	138	113	250	397	613	1930	1340	767	352	380
25	132	180	118	113	300	392	674	1980	1380	765	343	370
26	134	177	117	114	394	391	714	1960	1430	746	335	406
27	137	169	123	116	369	413	841	1970	1430	721	314	450
28	141	144	126	122	338	463	895	2000	1410	828	301	584
29	144	159	120	128	---	548	975	2040	1360	971	308	721
30	155	152	130	116	---	624	1090	2060	1350	1060	262	726
31	159	---	133	110	---	613	---	2020	---	1030	278	---
TOTAL	2912.5	4760	4508	3373	4463	13121	19905	60340	41824	33955	16795	10705
MEAN	94.0	159	145	109	159	423	664	1946	1394	1095	542	357
MAX	159	180	187	132	394	624	1090	2270	2060	1400	985	726
MIN	5.7	140	88	82	98	302	407	1140	914	721	262	199
AC-FT	5780	9440	8940	6690	8850	26030	39480	119700	82960	67350	33310	21230

CAL YR 1981 TOTAL 47903.2 MEAN 131 MAX 601 MIN 5.7 AC-FT 95020
WTR YR 1982 TOTAL 216661.5 MEAN 594 MAX 2270 MIN 5.7 AC-FT 429700

BEAR RIVER BASIN

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10046500 BEAR RIVER BELOW STEWART DAM, NEAR MONTPELIER, ID

LOCATION.--Lat 42°15'14", Long 111°17'35", in NW¼NW¼NE¼ 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 mi² (7,389 km²).

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only January 1922 to September 1922, published in WSP 1314.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,950 ft (1,814 m) from topographic map.

REMARKS.--Records good. Water diverted at Stewart Dam through Rainbow inlet canal (station 10046000) for storage in Bear Lake.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--60 years, 44.4 ft³/s (1.257 m³/s), 32,170 acre-ft/yr (39.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,050 ft³/s (86.4 m³/s) June 3, 1923; no flow July 15, 1956, July 13, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 175 ft³/s (4.96 m³/s) July 26, gage height, 2.01 ft (0.613 m); minimum, 1.2 ft³/s (0.034 m³/s) July 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	6.0	6.0	6.8	6.2	7.9	9.9	7.0	8.2	12	40	51
2	5.8	5.8	6.0	6.7	6.2	7.4	10	7.1	8.1	12	67	50
3	5.4	6.1	5.9	6.4	6.3	7.9	10	7.2	8.3	11	52	48
4	5.8	6.0	5.9	6.3	6.3	8.7	11	7.5	8.5	11	50	44
5	7.3	6.0	5.9	6.2	6.3	9.4	11	7.9	8.8	11	49	42
6	9.2	6.1	5.8	6.2	6.3	9.6	10	8.5	9.1	11	49	41
7	11	6.2	5.8	5.9	6.0	9.8	9.8	9.3	9.3	10	50	44
8	12	6.3	5.7	5.6	5.7	10	9.5	7.1	9.5	9.2	49	44
9	13	6.8	5.6	5.7	5.5	10	9.3	7.1	9.6	8.9	48	43
10	14	7.0	6.6	5.7	5.5	10	9.1	7.1	9.7	8.9	48	44
11	9.9	6.9	6.5	5.8	5.4	10	8.9	7.1	9.3	8.9	42	47
12	8.6	6.9	6.3	5.9	5.4	11	8.9	7.2	9.4	7.9	38	49
13	9.6	6.8	6.2	6.0	5.5	23	9.7	7.3	9.5	7.6	44	50
14	15	6.8	6.0	6.0	5.5	21	18	7.1	9.6	7.5	59	56
15	22	6.7	6.1	6.1	5.6	20	18	7.6	9.8	7.4	57	63
16	26	6.7	6.1	6.2	5.6	19	6.3	7.4	9.9	7.6	53	27
17	30	6.6	6.0	6.3	5.8	21	5.9	7.0	10	7.7	49	11
18	34	6.5	6.0	6.3	6.0	21	5.8	7.0	10	7.4	52	13
19	36	6.5	6.3	6.3	6.2	19	5.8	7.3	10	7.3	50	13
20	37	6.4	6.7	6.4	6.4	19	5.2	7.7	13	6.1	48	13
21	39	6.3	7.1	6.4	6.6	17	4.9	7.9	14	4.9	47	13
22	39	6.3	7.2	6.4	8.1	12	5.5	8.1	9.5	3.9	45	13
23	22	6.3	7.1	6.4	8.3	12	6.0	8.2	9.6	3.6	44	13
24	5.1	6.3	7.0	6.4	8.1	11	5.9	8.0	10	2.7	42	14
25	5.6	6.5	6.8	6.4	7.7	11	5.4	7.7	10	2.0	56	13
26	5.9	6.3	6.6	6.4	8.2	11	5.4	7.5	11	38	55	13
27	5.7	6.3	6.4	6.2	8.5	10	6.0	7.9	11	29	55	15
28	5.8	6.1	6.3	6.1	8.2	12	6.3	8.5	12	56	55	18
29	5.7	6.1	6.4	6.1	---	17	6.7	8.4	12	43	54	11
30	5.9	6.0	6.5	6.1	---	11	6.8	8.4	11	44	50	11
31	6.1	---	6.6	6.1	---	10	---	8.3	---	41	50	---
TOTAL	462.0	191.6	195.4	191.8	181.4	408.7	251.0	237.4	299.7	448.5	1547	927
MEAN	14.9	6.39	6.30	6.19	6.48	13.2	8.37	7.66	9.99	14.5	49.9	30.9
MAX	39	7.0	7.2	6.8	8.5	23	18	9.3	14	56	67	63
MIN	4.6	5.8	5.6	5.6	5.4	7.4	4.9	7.0	8.1	2.0	38	11
AC-FT	916	380	388	380	360	811	498	471	594	890	3070	1840

CAL YR 1981 TOTAL 3137.4 MEAN 8.60 MAX 39 MIN 2.7 AC-FT 6220
WTR YR 1982 TOTAL 5341.5 MEAN 14.6 MAX 67 MIN 2.0 AC-FT 10590

10055500 BEAR LAKE AT LIFTON, NEAR ST. CHARLES, ID

LOCATION.--Lat 42°07'160", long 111°18'52", in NE¼ sec.16, T.15 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, in Lifton pumping plant of Utah Power & Light Co., 3.5 mi (5.6 km) east of St. Charles.

DRAINAGE AREA.--435 mi² (1,127 km²), approximately (does not include Mud Lake drainage).

PERIOD OF RECORD.--October 1903 to June 1906, elevations only, published as "at Fish Haven", January 1921 to current year. Monthly contents only January 1921 to September 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,900 ft (1,798.3 m) Utah Power & Light Co. datum.

REMARKS.--Outflow regulated by gates and pumps at the north end of Bear Lake and by gates in dike at north end of Mud Lake, a shallow interconnected lake. Principal inflow to Bear Lake is from Bear River through Rainbow inlet canal (station 10046000) and Dingle inlet canals into Mud Lake, from which the inflow can enter into Bear Lake either through the pumping plant or an opening in the dividing causeway. The inflow can be routed directly into the Outlet canal (station 10059500). Usable capacity of Bear Lake is 1,421,000 acre-ft (1.75 km³) 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 here-in given represent usable contents.

COOPERATION.--Records furnished by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,423,000 acre-ft (1.75 km³) 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, 1,310,000 acre-ft (1.62 km³) several days during July and August, elevation, 5,922.07 ft (1,805.047 m); minimum, 872,000 acre-ft (1.08 km³) several days during October and November, elevation, 5,915.76 ft (1,803.124 m).

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

5,915	821,000	5,920	1,165,000
5,916	888,600	5,921	1,235,000
5,917	956,900	5,922	1,305,000
5,918	1,026,000	5,923	1,375,000
5,919	1,095,000		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	882000	872000	873000	884000	904000	922000	960000	1010000	1160000	1260000	1310000	1290000
2	882000	872000	873000	885000	904000	923000	962000	1010000	1160000	1270000	1310000	1290000
3	881000	872000	873000	885000	904000	923000	963000	1010000	1170000	1270000	1310000	1290000
4	880000	872000	873000	886000	904000	924000	965000	1010000	1170000	1270000	1310000	1280000
5	878000	872000	873000	887000	904000	925000	967000	1010000	1180000	1270000	1310000	1280000
6	878000	872000	873000	887000	905000	925000	969000	1010000	1180000	1270000	1310000	1280000
7	876000	872000	873000	888000	906000	926000	971000	1020000	1190000	1270000	1310000	1280000
8	875000	872000	874000	889000	906000	927000	973000	1020000	1190000	1280000	1310000	1270000
9	874000	872000	874000	889000	906000	927000	976000	1020000	1200000	1280000	1310000	1270000
10	872000	872000	874000	890000	907000	928000	978000	1030000	1200000	1280000	1310000	1270000
11	872000	872000	874000	891000	908000	929000	980000	1030000	1200000	1280000	1310000	1260000
12	872000	872000	874000	891000	908000	930000	982000	1030000	1210000	1290000	1310000	1260000
13	872000	872000	875000	892000	908000	931000	984000	1040000	1210000	1290000	1310000	1260000
14	872000	872000	876000	893000	909000	932000	987000	1040000	1210000	1290000	1310000	1260000
15	872000	872000	876000	893000	910000	934000	989000	1050000	1210000	1300000	1310000	1250000
16	872000	872000	876000	894000	910000	935000	991000	1060000	1220000	1300000	1310000	1250000
17	872000	872000	876000	895000	911000	936000	993000	1060000	1220000	1300000	1310000	1250000
18	872000	872000	876000	895000	912000	938000	995000	1070000	1220000	1300000	1310000	1250000
19	872000	872000	876000	896000	912000	939000	997000	1070000	1220000	1310000	1310000	1250000
20	872000	872000	877000	897000	913000	940000	998000	1080000	1220000	1310000	1310000	1250000
21	872000	872000	878000	897000	913000	942000	998000	1080000	1220000	1310000	1310000	1250000
22	872000	872000	878000	905000	914000	944000	998000	1090000	1220000	1310000	1310000	1240000
23	872000	872000	878000	899000	915000	946000	998000	1100000	1230000	1310000	1310000	1240000
24	872000	872000	879000	900000	916000	947000	999000	1110000	1230000	1310000	1310000	1240000
25	872000	872000	880000	900000	917000	949000	999000	1110000	1230000	1310000	1310000	1240000
26	872000	872000	880000	901000	918000	950000	1000000	1120000	1240000	1310000	1310000	1240000
27	872000	872000	881000	902000	919000	951000	1000000	1130000	1240000	1310000	1300000	1240000
28	872000	873000	882000	902000	921000	953000	1000000	1130000	1250000	1310000	1300000	1240000
29	872000	873000	883000	903000	---	954000	1000000	1140000	1250000	1310000	1300000	1240000
30	872000	873000	883000	904000	---	956000	1010000	1150000	1260000	1310000	1300000	1240000
31	872000	---	883000	904000	---	958000	---	1150000	---	1310000	1290000	---
MAX	882000	873000	883000	905000	921000	958000	1010000	1150000	1260000	1310000	1310000	1290000
MIN	872000	872000	873000	884000	904000	922000	960000	1010000	1160000	1260000	1290000	1240000
(+)	5915.76	5915.77	5915.92	5916.22	5916.47	5917.01	5917.70	5919.83	5921.34	5922.13	5921.81	5921.08
(-)	-10500	+1000	+10000	+21000	+17000	+37000	+52000	+140000	+110000	+50000	-20000	-50000

CAL YR 1981 (+) -176000

WTR YR 1982 (+) +357500

(+) ELEVATION, IN FEET, AT END OF MONTH

(-) CHANGE IN CONTENTS, IN ACRE-FEET

10058600 BLOOMINGTON CREEK AT BLOOMINGTON, ID

LOCATION (REVISED).--Lat 42°34'08", long 111°25'48", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.21, T.14 S., R.43 E., Bear Lake County, Hydrologic 16010201, on left bank 1 mi (2 km) west of Bloomington.

DRAINAGE AREA.--24.0 mi² (62.2 km²).

PERIOD OF RECORD.--October 1960 to current year.

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

GAGE.--Water-stage recorder 4 ft (1.2 m) above 8-ft (2.44-m) concrete flume. Altitude of gage is 6,070 ft (1,850 m) from topographic map.

REMARKS.--Records good except those of no gage-height record Mar. 3 to Apr. 14, which are fair.

AVERAGE DISCHARGE.--22 years, 29.4 ft³/s (0.833 m³/s), 21,300 acre-ft/yr (26.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 248 ft³/s (7.02 m³/s) June 11, 1971, gage height, 4.66 ft (1.420 m); minimum, 9.4 ft³/s (0.27 m³/s) Jan. 27, 1961, Feb. 26, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 179 ft³/s (5.07 m³/s) May 27, gage height, 3.92 ft (1.195 m); minimum daily, 13 ft³/s (0.368 m³/s) many days in January and February.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	16	16	16	13	15	19	55	107	100	46	32
2	17	16	16	17	14	16	19	64	109	94	45	32
3	17	16	16	16	13	16	19	73	110	88	44	32
4	18	16	16	16	13	16	19	71	116	87	44	31
5	17	16	16	16	13	16	19	64	113	86	44	31
6	17	16	16	16	13	17	20	60	111	83	42	31
7	16	16	16	14	13	17	20	61	97	79	41	34
8	17	16	16	13	13	17	20	63	103	78	42	31
9	17	16	16	13	13	17	21	64	96	77	41	31
10	17	16	16	13	13	17	23	58	98	74	40	33
11	20	16	16	13	13	17	26	54	103	71	39	31
12	18	16	15	13	13	17	28	52	110	68	39	31
13	17	16	16	13	13	17	28	53	110	67	39	31
14	17	16	16	13	14	17	28	58	116	65	38	32
15	17	16	17	13	14	17	28	63	131	64	37	31
16	18	16	16	13	18	18	28	67	132	62	37	30
17	17	16	15	13	16	18	28	71	133	60	37	30
18	17	16	16	13	15	18	28	83	132	59	36	29
19	17	15	16	13	14	18	26	96	128	57	36	29
20	16	16	23	13	14	18	24	84	123	56	36	29
21	16	16	18	13	15	18	25	95	121	55	35	29
22	16	17	16	13	16	18	28	99	120	54	35	28
23	16	17	16	13	14	18	34	109	121	54	35	28
24	16	17	16	13	14	18	42	118	118	54	34	28
25	16	16	16	13	14	18	45	121	116	53	34	28
26	16	15	16	14	14	19	45	133	111	52	34	35
27	16	15	16	13	14	19	49	146	108	51	33	31
28	16	16	16	13	14	19	52	138	106	50	32	31
29	17	15	16	13	---	19	55	111	104	52	32	29
30	16	16	16	13	---	19	52	101	101	49	33	34
31	16	---	16	13	---	19	---	94	---	48	32	---
TOTAL	521	479	504	424	390	543	898	2579	3404	2047	1172	922
MEAN	16.8	16.0	16.3	13.7	13.9	17.5	29.9	83.2	113	66.0	37.8	30.7
MAX	20	17	23	17	18	19	55	146	133	100	46	35
MIN	16	15	15	13	13	15	19	52	96	48	32	28
AC-FT	1030	950	1000	841	774	1080	1780	5120	6750	4060	2320	1830
CAL YR 1981	TOTAL	7025	MEAN 19.2	MAX 63	MIN 14	AC-FT 13930						
WTR YR 1982	TOTAL	13883	MEAN 38.0	MAX 146	MIN 13	AC-FT 27540						

BEAR RIVER BASIN

10059500 BEAR LAKE OUTLET CANAL NEAR PARIS, ID

LOCATION.--Lat 42°13'00", long 111°20'35", in SW¼NW¼SW¼ sec.8, T.14 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 2,000 ft (610 m) downstream from headgates (at dike) and 3 mi (5 km) southeast of Paris.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only January 1922 to September 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is 5,912.6 ft (1,802.16 m) NGVD of 1929, unadjusted.

REMARKS.--Records good. Flow regulated by Bear Lake (station 10055500).

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--60 years, 372 ft³/s (10.54 m³/s), 269,500 acre-ft/yr (332 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,870 ft³/s (53.0 m³/s) Aug. 8, 1924; minimum daily, 1 ft³/s (0.28 m³/s) for many days in 1937, 1954, 1959, 1961, 1964, 1977, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,310 ft³/s (37.1 m³/s) Aug. 13, gage height, 18.10 ft (5.517 m); minimum daily, 2.0 ft³/s (0.057 m³/s) many days during October and November.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	2.0	5.0	3.0	3.0	4.0	10	10	16	16	1090	1240
2	20	2.0	5.0	3.0	3.0	4.0	10	10	16	15	1100	1240
3	20	2.0	5.0	3.0	3.0	4.0	10	10	16	15	1060	1240
4	20	5.0	5.0	3.0	3.0	4.0	10	11	16	15	1010	1230
5	20	5.0	5.0	3.0	3.0	6.0	10	11	16	15	1090	1220
6	20	5.0	5.0	3.0	3.0	6.0	12	14	16	15	1140	1230
7	2.0	5.0	5.0	3.0	3.0	6.0	12	14	16	12	1140	1250
8	2.0	5.0	5.0	3.0	3.0	7.0	12	14	16	12	1140	1270
9	2.0	5.0	5.0	3.0	3.0	5.0	12	14	16	12	1130	1260
10	2.0	5.0	5.0	3.0	3.0	5.0	12	14	16	12	1080	1270
11	2.0	5.0	5.0	3.0	3.0	7.0	12	14	16	12	1150	1270
12	2.0	5.0	5.0	3.0	3.0	7.0	12	14	16	12	1190	1270
13	2.0	5.0	5.0	3.0	3.0	7.0	12	14	16	12	1250	1270
14	2.0	5.0	5.0	3.0	3.0	7.0	12	14	12	10	1270	1250
15	2.0	5.0	5.0	3.0	3.0	8.0	12	14	12	12	1230	1220
16	2.0	5.0	5.0	3.0	3.0	8.0	12	14	12	12	1230	1140
17	2.0	5.0	5.0	3.0	3.0	8.0	12	14	12	199	1260	1030
18	2.0	5.0	5.0	3.0	3.0	8.0	12	14	12	193	1200	1030
19	2.0	5.0	5.0	3.0	3.0	8.0	12	14	12	291	1250	1030
20	2.0	5.0	5.0	3.0	3.0	8.0	12	14	12	677	1230	1040
21	2.0	5.0	5.0	3.0	3.0	8.0	12	14	16	864	1230	1020
22	2.0	5.0	5.0	3.0	4.0	8.0	12	14	16	776	1220	994
23	2.0	5.0	5.0	3.0	4.0	8.0	12	14	16	842	1210	989
24	2.0	5.0	5.0	3.0	4.0	8.0	12	14	16	858	1240	984
25	2.0	5.0	5.0	3.0	4.0	8.0	12	14	16	876	1240	967
26	2.0	5.0	5.0	3.0	4.0	8.0	10	14	16	963	1250	985
27	2.0	5.0	5.0	3.0	4.0	8.0	10	14	16	1080	1250	1020
28	2.0	5.0	5.0	3.0	4.0	8.0	10	14	16	1070	1240	1030
29	2.0	5.0	5.0	3.0	---	10	10	14	16	1080	1240	1040
30	2.0	5.0	5.0	3.0	---	10	10	14	16	1010	1240	1080
31	2.0	---	5.0	3.0	---	12	---	14	---	1080	1200	---
TOTAL	185.0	141.0	155.0	93.0	91.0	223.0	340	416	452	12068	36800	34109
MEAN	5.97	4.70	5.00	3.00	3.25	7.19	11.3	13.4	15.1	389	1187	1137
MAX	35	5.0	5.0	3.0	4.0	12	12	14	16	1080	1270	1270
MIN	2.0	2.0	5.0	3.0	3.0	4.0	10	10	12	10	1010	967
AC-FT	367	280	307	184	180	442	674	825	897	23940	72990	67660

CAL YR 1981	TOTAL	107143.1	MEAN 294	MAX 1430	MIN 2.0	AC-FT 212500
WTR YR 1982	TOTAL	85073.0	MEAN 233	MAX 1270	MIN 2.0	AC-FT 168700

BEAR RIVER BASIN

295

10068500 BEAR RIVER AT PESCADERO, ID

LOCATION.--Lat 42°24'06", Long 111°21'22", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ 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 mi² (9,596 km²).

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 period, which are poor. Flow regulated by Bear Lake (station 10055500) and diversions above station for irrigation.

AVERAGE DISCHARGE.--46 years, 592 ft³/s (16.76 m³/s), 428,900 acre-ft/yr (529 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,840 ft³/s (109 m³/s) June 10, 1923; minimum daily, 23 ft³/s (0.65 m³/s) Mar. 14-17, 1936.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,380 ft³/s (39.1 m³/s) Sept. 10, 14, gage height, 4.98 ft (1.518 m); minimum, 46 ft³/s (1.30 m³/s) Oct. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	77	70	59	55	103	264	529	597	367	1240	1330
2	52	75	70	59	54	105	254	529	582	363	1240	1330
3	52	75	71	59	51	102	280	534	568	363	1220	1340
4	58	73	74	58	48	96	283	568	592	367	1210	1340
5	55	73	76	54	47	99	272	613	602	340	1190	1330
6	53	71	76	50	47	105	278	608	602	321	1240	1330
7	52	71	76	50	47	115	267	587	602	370	1240	1360
8	48	68	76	52	47	123	256	568	592	306	1250	1360
9	47	69	76	53	48	135	241	558	577	278	1240	1350
10	49	71	74	54	48	141	229	534	558	292	1220	1360
11	61	73	72	54	50	156	241	506	506	278	1190	1360
12	68	70	70	54	52	241	328	488	430	261	1250	1350
13	71	71	68	54	56	226	446	450	407	248	1290	1360
14	72	75	68	54	63	251	563	426	407	238	1360	1370
15	78	78	70	54	69	224	686	418	418	219	1340	1340
16	73	81	74	55	74	244	642	414	403	212	1310	1310
17	72	81	72	55	76	236	692	430	384	318	1330	1190
18	72	84	70	55	76	248	676	450	434	360	1320	1150
19	72	79	69	55	78	221	592	497	434	360	1350	1130
20	87	82	70	55	78	214	506	548	434	634	1320	1130
21	92	81	74	55	78	251	446	511	438	938	1320	1120
22	90	83	67	55	79	234	414	493	434	895	1300	1110
23	84	84	62	55	80	217	388	488	430	965	1300	1100
24	82	92	60	55	81	183	360	497	410	998	1270	1090
25	78	98	59	55	83	209	353	515	396	1020	1280	1090
26	82	87	59	56	85	189	367	506	442	1050	1310	1140
27	81	70	59	56	88	203	396	454	446	1180	1320	1210
28	79	70	59	56	95	234	434	463	399	1220	1320	1220
29	81	70	59	56	---	286	480	577	381	1250	1330	1220
30	77	70	59	56	---	306	515	623	374	1200	1350	1240
31	76	---	59	56	---	283	---	608	---	1230	1330	---
TOTAL	2147	2302	2118	1704	1833	5980	12149	15990	14279	18441	39780	37660
MEAN	69.3	76.7	68.3	55.0	65.5	193	405	516	476	595	1283	1255
MAX	92	98	76	59	95	306	692	623	602	1250	1360	1370
MIN	47	68	59	50	47	96	229	414	374	212	1190	1090
AC-FT	4260	4570	4200	3380	3640	11860	24100	31720	28320	36580	78900	74700
CAL YR 1981	TOTAL	133749	MEAN 366	MAX 1460	MIN 47	AC-FT 265300						
WTR YR 1982	TOTAL	154383	MEAN 423	MAX 1370	MIN 47	AC-FT 306200						

BEAR RIVER BASIN

10072800 EIGHTMILE CREEK NEAR SODA SPRINGS, ID

LOCATION.--Lat 42°32'15", long 111°34'20", in NW¼NW¼SE¼ 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 mi² (58.5 km²).

PERIOD OF RECORD.--October 1960 to current year.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,170 ft (1,881 m) from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--22 years, 16.7 ft³/s (0.473 m³/s), 12,100 acre-ft/yr (14.9 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 209 ft³/s (5.92 m³/s) June 14, 1978, gage height, 2.39 ft (0.728 m); minimum, 0.73 ft³/s (0.021 m³/s) Nov. 17, 18, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 140 ft³/s (3.96 m³/s) June 19, 20; minimum daily, 1.0 ft³/s (0.028 m³/s) Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.2	1.9	2.5	1.6	4.0	7.5	40	100	74	19	10
2	2.2	2.2	2.0	2.4	1.6	4.5	7.0	60	95	70	18	10
3	3.2	2.2	2.1	2.2	1.6	4.0	7.0	80	93	65	18	9.7
4	2.9	2.1	2.1	2.1	1.6	3.4	6.5	105	93	63	17	9.7
5	2.5	2.1	2.2	1.9	1.2	3.4	6.5	91	95	58	17	9.2
6	2.2	2.1	2.3	1.5	1.0	3.2	6.5	76	93	55	17	9.2
7	2.2	2.1	2.7	1.2	1.3	3.2	6.0	74	88	52	16	9.2
8	2.2	2.1	2.5	1.4	1.5	3.1	5.5	67	88	52	16	8.8
9	2.2	2.0	2.5	1.5	1.5	3.2	5.5	58	80	52	16	8.8
10	2.7	2.0	2.7	1.5	1.5	3.3	5.5	51	78	48	16	11
11	4.7	2.0	2.5	1.5	1.5	4.0	10	45	78	46	15	9.7
12	4.0	2.0	2.2	1.5	1.5	3.7	16	41	86	44	15	9.7
13	3.3	2.2	2.6	1.5	1.8	3.4	15	39	98	40	15	9.7
14	3.0	2.5	2.7	1.5	2.0	4.0	17	39	107	39	15	9.2
15	2.7	2.6	3.2	1.7	3.0	5.2	17	42	115	36	15	9.7
16	2.9	2.7	2.7	1.7	4.0	4.7	16	49	123	35	14	8.8
17	2.6	2.7	1.9	1.7	3.5	4.6	15	60	137	33	14	8.4
18	2.4	2.7	1.9	1.8	3.0	4.7	14	78	137	31	13	8.4
19	2.4	2.2	2.2	1.9	2.7	4.7	13	95	140	28	13	8.4
20	2.2	2.4	5.4	1.7	2.8	4.5	12	93	140	27	12	8.4
21	2.2	2.3	4.0	1.8	3.2	4.5	11	95	128	26	12	8.0
22	2.1	3.4	3.2	1.7	3.5	4.5	12	105	125	25	12	8.0
23	2.1	2.9	2.9	1.7	3.0	4.5	17	115	117	24	11	8.0
24	2.1	3.4	2.8	1.6	2.9	4.5	21	123	110	23	11	7.6
25	2.1	2.9	2.9	1.6	2.8	5.5	23	123	105	23	11	8.8
26	2.1	1.9	2.9	1.6	2.7	6.5	25	117	98	22	11	13
27	2.1	1.9	2.9	1.6	2.9	7.5	30	125	91	21	11	11
28	2.1	1.9	2.9	1.6	3.0	9.0	35	134	86	21	11	11
29	2.5	1.7	2.8	1.6	---	9.0	40	117	82	20	11	10
30	2.3	1.8	2.7	1.6	---	8.0	35	105	78	20	12	10
31	2.2	---	2.6	1.6	---	7.5	---	95	---	19	11	---
TOTAL	78.8	69.2	82.9	52.7	64.2	149.8	457.5	2537	3084	1192	435	281.4
MEAN	2.54	2.31	2.67	1.70	2.29	4.83	15.3	81.8	103	38.5	14.0	9.38
MAX	4.7	3.4	5.4	2.5	4.0	9.0	40	134	140	74	19	13
MIN	2.1	1.7	1.9	1.2	1.0	3.1	5.5	39	78	19	11	7.6
AC-FT	156	137	164	105	127	297	907	5030	6120	2360	863	558

CAL YR 1981 TOTAL 3628.9 MEAN 9.94 MAX 68 MIN 1.7 AC-FT 7200
WTR YR 1982 TOTAL 8484.5 MEAN 23.2 MAX 140 MIN 1.0 AC-FT 16830

10075000 BEAR RIVER AT SODA SPRINGS, ID

LOCATION.--Lat 42°36'50", long 111°34'58", in NW¼SW¼NW¼ sec.29, T.9 S., R.42 E., Caribou County, Hydrologic Unit 16010202, on left bank 800 ft (244 m) upstream from Bailey Creek road bridge and 2 mi (3 km) south of Soda Springs.

DRAINAGE AREA.--3,972 mi² (10,287 km²).

PERIOD OF RECORD.--May to September 1896, May, June 1898, and October 1953 to current year in reports of Geological Survey. Irrigation season only during 1944-49, 1951-53 in reports of Bear River Hydrometric Data (Geological Survey open-file report).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,760 ft (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 up-stream reservoirs, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--29 years, 637 ft³/s (18.0 m³/s), 461,500 acre-ft/yr (569 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,380 ft³/s (181 m³/s) June 9, 15, 1896, gage height, 8.40 ft (2.560 m), datum then in use; minimum, 41 ft³/s (1.16 m³/s) Nov. 16, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,410 ft³/s (39.9 m³/s) Aug. 14; minimum daily, 93 ft³/s (2.63 m³/s) Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	134	181	145	135	222	424	848	956	571	1380	1370
2	93	134	181	145	130	235	399	863	995	561	1380	1370
3	99	133	181	145	130	251	420	922	951	544	1370	1380
4	119	132	181	145	130	238	446	1000	916	550	1360	1380
5	112	132	180	145	130	237	420	993	924	550	1330	1360
6	100	131	180	145	130	270	419	963	906	507	1350	1360
7	100	131	180	145	130	265	415	933	912	521	1360	1400
8	106	130	148	145	130	260	405	919	917	525	1360	1390
9	113	130	148	145	130	258	379	924	888	510	1340	1360
10	108	130	148	145	140	263	357	889	850	481	1300	1380
11	134	130	148	145	140	271	428	845	813	478	1260	1390
12	158	131	148	145	160	289	675	805	743	448	1270	1360
13	158	133	148	144	180	310	773	770	710	425	1320	1380
14	155	149	148	144	192	332	864	742	705	403	1410	1380
15	153	153	148	144	194	353	974	733	714	373	1400	1380
16	152	154	148	144	196	355	950	732	731	357	1340	1350
17	148	156	148	144	198	341	923	751	728	375	1340	1270
18	142	155	148	144	200	329	927	784	728	484	1350	1190
19	142	151	148	145	202	334	840	842	756	490	1370	1160
20	141	147	148	145	204	320	756	879	754	573	1370	1160
21	141	157	148	145	206	312	705	902	748	914	1360	1150
22	140	169	148	145	208	335	686	871	743	977	1350	1140
23	140	170	148	145	210	293	685	876	748	982	1320	1130
24	139	190	148	145	212	297	660	884	721	1080	1300	1120
25	138	192	148	145	214	285	644	897	698	1140	1310	1130
26	138	183	148	145	216	305	654	925	697	1150	1340	1240
27	137	182	148	145	218	324	675	941	706	1210	1360	1330
28	137	182	148	145	220	382	719	904	662	1330	1360	1330
29	136	182	148	145	---	451	800	942	596	1380	1370	1310
30	135	182	148	145	---	468	841	1000	569	1360	1390	1310
31	135	---	148	135	---	441	---	991	---	1330	1390	---
TOTAL	4042	4565	4816	4479	4885	9626	19263	27270	23485	22579	41810	38960
MEAN	130	152	155	144	174	311	642	880	783	728	1349	1299
MAX	158	192	181	145	220	468	974	1000	995	1380	1410	1400
MIN	93	130	148	135	130	222	357	732	569	357	1260	1120
AC-FT	8020	9050	9550	8880	9690	19090	38210	54090	46580	44790	82930	77280
CAL YR 1981	TOTAL	163532	MEAN 448	MAX 1400	MIN 93	AC-FT 324400						
WTR YR 1982	TOTAL	205780	MEAN 564	MAX 1410	MIN 93	AC-FT 408200						

10076400 SODA CREEK AT FIVEMILE MEADOWS, NEAR SODA SPRINGS, ID

LOCATION.--Lat 42°43'45", long 111°36'55", in NW¼NE¼SW¼ 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 mi² (133.9 km²).

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.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,980 ft (1,822 m) from topographic map. April 1923 to October 1926 at different datum and Oct. 1, 1964 to Aug. 26, 1965 at site 400 ft (122 m) upstream at different datum.

REMARKS.--Records good except those for winter period, which are poor. Records herein include flow in Schmidt ditch.

AVERAGE DISCHARGE.--18 years, 15.6 ft³/s (0.442 m³/s), 11,300 acre-ft/yr (13.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 121 ft³/s (3.43 m³/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, Dec. 15, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 33 ft³/s (0.935 m³/s) Apr. 18, gage height, 1.32 ft (0.402 m); no flow Dec. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	2.1	1.6	2.5	1.5	2.2	4.5	18	21	22	24	20
2	2.5	2.1	1.6	2.4	1.5	2.8	4.0	18	22	22	24	20
3	3.0	2.1	1.8	2.2	1.5	2.6	3.5	19	22	22	24	20
4	2.8	2.1	1.8	2.1	1.5	2.4	3.5	18	21	22	24	20
5	2.6	2.0	1.6	1.9	1.3	2.3	3.5	18	21	22	23	20
6	2.5	2.0	1.4	1.5	1.0	2.2	3.5	18	21	22	23	19
7	2.5	1.9	1.5	1.2	1.3	2.1	3.5	18	21	22	23	19
8	2.5	1.9	1.6	1.4	1.5	2.1	3.0	19	22	23	23	20
9	2.5	1.8	1.7	1.5	1.5	2.1	3.0	20	21	24	23	20
10	3.0	1.8	1.8	1.5	1.5	2.3	3.0	23	20	23	23	21
11	4.0	1.8	1.8	1.5	1.5	2.9	8.0	22	20	23	23	21
12	3.8	1.9	1.8	1.5	1.5	2.9	13	22	20	22	22	21
13	3.5	1.9	1.8	1.5	1.7	2.8	17	21	20	22	23	21
14	3.3	2.0	1.7	1.5	1.9	3.0	24	19	20	22	23	21
15	3.2	2.0	1.5	1.7	2.0	4.0	27	19	20	22	22	21
16	3.1	1.9	2.0	1.7	2.2	3.5	26	19	20	22	22	21
17	3.0	2.0	1.9	1.7	2.4	3.0	30	19	21	22	21	20
18	2.9	1.9	2.8	1.8	2.6	2.9	33	19	20	23	20	20
19	2.8	1.8	1.7	1.9	2.7	2.8	32	19	20	22	20	20
20	2.7	1.9	5.4	1.7	2.8	2.7	27	19	20	23	20	20
21	2.5	1.8	2.9	1.8	2.9	2.5	25	19	20	22	20	20
22	2.4	2.3	2.1	1.7	2.9	2.5	25	19	21	22	20	20
23	2.3	2.2	2.3	1.7	2.5	2.5	26	19	21	23	19	19
24	2.4	2.6	2.5	1.6	2.2	2.5	26	19	21	23	19	19
25	2.3	2.5	2.5	1.5	2.2	2.5	25	19	21	24	20	20
26	2.3	2.1	2.7	1.5	2.2	2.7	22	19	23	23	20	23
27	2.2	2.2	2.9	1.5	2.2	3.0	20	19	23	23	19	24
28	2.3	2.4	2.9	1.5	2.2	5.0	18	20	22	24	20	23
29	2.5	2.2	2.7	1.5	---	6.5	18	20	22	25	20	24
30	2.3	1.8	2.6	1.5	---	5.5	18	20	22	25	21	24
31	2.1	---	2.6	1.5	---	4.5	---	20	---	25	20	---
TOTAL	84.4	61.0	67.5	52.0	54.7	93.3	495.0	600	629	706	668	621
MEAN	2.72	2.03	2.18	1.68	1.95	3.01	16.5	19.4	21.0	22.8	21.5	20.7
MAX	4.0	2.6	5.4	2.5	2.9	6.5	33	23	23	25	24	24
MIN	2.1	1.8	1.4	1.2	1.0	2.1	3.0	18	20	22	19	19
AC-FT	167	121	134	103	108	185	982	1190	1250	1400	1320	1230

CAL YR 1981 TOTAL 2226.8 MEAN 6.10 MAX 18 MIN 1.4 AC-FT 4420
WTR YR 1982 TOTAL 4131.9 MEAN 11.3 MAX 33 MIN 1.0 AC-FT 8200

BEAR RIVER BASIN

299

10079500 BEAR RIVER AT ALEXANDER, ID

LOCATION.--Lat 42°38'42", long 111°41'51", in NE¼SW¼NW¼ sec.17, T.9 S., R.41 E., Caribou County, Hydrologic Unit 16010202, on right bank 600 ft (183 m) downstream from Soda hydroelectric plant of Utah Power & Light Co., 0.5 mi (0.8 km) southeast of Alexander, and 5 mi (8 km) downstream from Soda Creek.

DRAINAGE AREA.--4,099 mi² (10,616 km²).

PERIOD OF RECORD.--March 1911 to current year. Monthly discharge only for some periods, published in WSP 1314.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,650 ft (1,722 m) from topographic map.

REMARKS.--Records good. Natural flow of stream affected by upstream reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--71 years, 770 ft³/s (21.81 m³/s), 557,900 acre-ft/yr (688 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,740 ft³/s (139 m³/s) Mar. 31, 1911; maximum gage height, 15.95 ft (4.862 m) Dec. 11, 1919 (backwater from ice); minimum discharge, 15 ft³/s (0.42 m³/s) Aug. 24, 1979, when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,900 ft³/s (53.8 m³/s) Aug. 13, gage height, 3.41 ft (1.039 m); minimum daily, 32 ft³/s (0.91 m³/s) Dec. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	384	752	58	146	469	416	697	777	1160	604	1340	1620
2	388	741	57	130	357	347	682	778	1150	740	1350	1560
3	701	729	52	163	469	436	687	600	1160	552	1370	1560
4	1080	726	51	228	448	338	679	869	1120	565	1390	1560
5	797	647	48	322	472	494	692	865	1130	557	1360	1550
6	385	513	46	327	381	395	701	864	1120	541	1410	1550
7	1030	272	43	345	460	415	695	897	1060	565	1530	1490
8	447	308	45	360	333	293	703	1040	1040	502	1530	1460
9	391	600	66	165	289	455	673	1040	1030	588	1530	1500
10	201	278	46	170	375	338	682	987	919	473	1480	1520
11	192	348	46	248	350	465	668	881	880	471	1480	1510
12	184	257	32	235	232	482	684	917	884	569	1510	1520
13	175	283	61	328	190	472	704	890	856	471	1560	1580
14	166	298	61	141	270	468	683	893	821	476	1560	1560
15	160	303	59	295	246	465	676	831	833	504	1560	1560
16	155	241	59	242	442	646	676	749	844	485	1440	1560
17	150	289	83	213	498	655	921	917	849	568	1500	1570
18	145	196	60	244	508	641	915	892	804	510	1280	1550
19	141	163	69	352	413	553	848	941	841	512	1240	1570
20	136	126	74	213	256	390	528	1060	870	508	1230	1570
21	132	140	59	318	455	521	681	1090	889	602	1240	1580
22	128	135	57	281	471	540	686	976	904	1020	1240	1420
23	124	105	78	275	453	544	784	958	912	983	1230	1320
24	120	104	76	351	424	545	894	1080	916	1000	1240	1220
25	116	103	86	339	454	559	891	1080	811	1120	1240	1240
26	112	102	81	289	331	492	875	1080	638	1150	1390	1230
27	145	100	90	329	464	670	863	1090	651	1210	1530	1230
28	317	61	92	447	413	672	851	1100	710	1280	1590	1240
29	258	61	97	339	---	670	635	1100	593	1480	1570	1240
30	675	61	95	472	---	682	702	1150	607	1350	1570	1240
31	865	---	101	233	---	685	---	1150	---	1340	1620	---
TOTAL	10400	9042	2028	8540	10923	15744	22056	29542	27002	23296	44110	43880
MEAN	335	301	65.4	275	390	508	735	953	900	751	1423	1463
MAX	1080	752	101	472	508	685	921	1150	1160	1480	1620	1620
MIN	112	61	32	130	190	293	528	600	593	471	1230	1220
AC-FT	20630	17930	4020	16940	21670	31230	43750	58600	53560	46210	87490	87040

CAL YR 1981 TOTAL 202813 MEAN 556 MAX 1400 MIN 32 AC-FT 402300
WTR YR 1982 TOTAL 246563 MEAN 676 MAX 1620 MIN 32 AC-FT 489100

BEAR RIVER BASIN

10084500 COTTONWOOD CREEK NEAR CLEVELAND, ID

LOCATION.--Lat 42°19'57", long 111°46'27", in NW¼SE¼SW¼ 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 mi² (159.8 km²).

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.--43 years, 31.6 ft³/s (0.895 m³/s), 22,890 acre-ft/yr (28.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 788 ft³/s (22.3 m³/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 ft³/s (5.66 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Apr. 13	2000	381	10.8	3.13	0.954
May 3	1900	*763	21.6	3.84	1.170

Minimum daily, 2.6 ft³/s (0.074 m³/s) Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	4.9	5.4	10	12	25	46	365	159	29	15	12
2	2.6	4.9	5.4	9.8	12	31	42	418	168	27	14	12
3	3.0	4.9	5.6	10	12	29	40	515	156	25	14	11
4	2.8	4.8	6.3	10	11	27	41	389	143	24	13	11
5	2.8	4.9	6.7	10	8.0	25	39	313	132	21	13	11
6	2.8	4.9	6.8	8.0	6.5	24	40	269	127	19	13	11
7	2.9	4.9	7.3	6.5	9.0	23	36	261	118	18	12	20
8	3.0	4.9	8.5	9.0	9.0	23	35	254	118	21	12	14
9	3.0	4.9	9.7	11	9.0	23	34	261	108	28	13	12
10	3.4	4.9	11	11	9.0	26	34	213	98	23	12	14
11	3.8	4.9	10	11	9.0	33	71	186	85	19	12	17
12	3.6	4.9	9.4	11	10	32	266	168	83	17	12	16
13	3.7	5.0	11	11	11	31	266	168	80	16	12	17
14	3.6	5.0	11	11	12	35	283	180	83	16	12	15
15	3.6	4.9	11	12	13	44	242	190	80	15	13	16
16	3.8	4.9	11	13	16	38	186	220	73	15	12	16
17	3.9	4.9	9.5	13	22	34	180	242	70	14	12	14
18	4.0	4.9	8.8	14	26	33	165	254	66	14	12	14
19	4.1	4.9	9.3	13	27	31	130	246	62	13	12	14
20	4.2	4.9	17	12	29	29	114	213	58	13	12	14
21	4.4	4.9	18	13	31	27	118	213	54	13	11	12
22	4.6	5.0	13	13	31	27	159	220	53	12	11	12
23	4.7	5.1	12	12	28	27	238	227	50	12	10	13
24	4.9	5.2	9.2	12	24	27	313	220	46	15	10	13
25	4.9	5.2	8.8	13	24	26	353	213	40	21	10	17
26	4.9	5.2	8.5	13	25	31	361	213	41	16	10	59
27	4.9	5.2	8.2	13	25	35	365	210	36	15	10	41
28	4.9	5.2	8.0	12	24	53	377	210	33	24	11	32
29	5.2	5.2	8.8	12	---	69	418	174	28	31	14	35
30	4.9	5.4	9.5	12	---	54	353	148	27	21	13	29
31	4.9	---	9.7	13	---	48	---	132	---	16	15	---
TOTAL	120.4	149.7	294.4	354.3	484.5	1020	5345	7505	2475	583	377	544
MEAN	3.88	4.99	9.50	11.4	17.3	32.9	178	242	82.5	18.8	12.2	18.1
MAX	5.2	5.4	18	14	31	69	418	515	168	31	15	59
MIN	2.6	4.8	5.4	6.5	6.5	23	34	132	27	12	10	11
AC-FT	239	297	584	703	961	2020	10600	14890	4910	1160	748	1080

CAL YR 1981 TOTAL 6019.9 MEAN 16.5 MAX 266 MIN 2.5 AC-FT 11940
WTR YR 1982 TOTAL 19252.3 MEAN 52.7 MAX 515 MIN 2.6 AC-FT 38190

BEAR RIVER BASIN

301

10086500 BEAR RIVER BELOW UTAH POWER & LIGHT CO.'S TAILRACE, AT ONEIDA, ID

LOCATION.--Lat 42°16'00", long 111°45'04", in NE¼SE¼NW¼ sec.26, T.12 S., R.40 E., Franklin County, Hydrologic Unit 16010202, on right bank 200 ft (61 m) downstream from tailrace of Oneida plant and 6 mi (10 km) south of Cleveland.

DRAINAGE AREA.--4,456 mi² (11,541 km²).

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only October 1921 to September 1945, published in WSP 1314.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,800 ft (1,460 m) from topographic map.

REMARKS.--Records good. Natural flow of stream affected by upstream reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--61 years, 829 ft³/s (23.48 m³/s), 600,600 acre-ft/yr (741 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,480 ft³/s (155 m³/s) May 8, 1922; minimum, 3.0 ft³/s (0.085 m³/s) June 13, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,160 ft³/s (89.5 m³/s) July 12, gage height, 6.86 ft (2.091 m); minimum, 10 ft³/s (0.28 m³/s) Oct. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	323	22	57	291	643	790	660	1980	1340	368	1330	1650
2	353	21	86	206	414	813	1310	1880	1300	132	1680	1780
3	428	104	319	297	945	882	583	1310	1880	246	1320	1440
4	235	23	192	541	337	719	1660	1890	1560	371	1830	1770
5	225	26	451	359	718	768	778	757	1640	147	1490	1630
6	1170	280	203	514	2280	505	1060	2020	1410	626	944	1630
7	1140	375	509	461	601	675	961	1390	1600	356	1600	1900
8	414	311	47	568	545	559	1480	2200	932	622	1120	1560
9	396	598	442	53	429	1360	740	1620	1560	263	1410	1490
10	203	633	163	555	677	690	869	1680	1680	632	1980	1760
11	351	542	497	482	316	960	710	1790	1090	156	1020	1430
12	98	701	170	665	774	898	1830	1370	1050	1460	1840	2030
13	1210	606	153	1170	535	23	936	1660	1050	505	1470	1550
14	1490	412	214	51	346	590	1450	1450	1010	184	1630	1690
15	1360	29	484	425	38	1270	1680	1420	1090	215	1110	1690
16	1100	530	244	315	393	1060	1310	1650	1250	195	1650	1760
17	857	1080	337	523	714	1220	1440	1330	1330	173	1150	1970
18	618	51	393	43	580	64	1400	1570	1270	244	1490	1670
19	51	606	40	334	687	543	1600	1880	134	154	1840	1600
20	425	648	588	965	718	451	1430	1810	435	646	838	1590
21	215	310	28	572	731	498	1740	1980	960	722	1610	1990
22	205	20	738	282	514	767	714	1750	867	332	799	1680
23	187	426	336	195	1390	768	1080	1800	1260	479	1620	1680
24	103	33	396	583	562	892	1510	886	421	164	809	1500
25	373	395	41	611	796	699	1600	2320	304	878	1430	1510
26	225	34	299	477	609	722	1290	1870	895	1360	980	1440
27	206	32	197	113	780	660	1450	1790	696	1090	1210	1880
28	71	293	389	232	350	1590	2080	1790	623	1530	1340	1410
29	25	195	304	454	---	968	1950	1690	579	1500	1840	1770
30	37	764	244	745	---	1170	1270	1420	1100	1630	1350	1410
31	23	---	160	974	---	828	---	1790	---	1050	1540	---
TOTAL	14117	10100	8721	14056	18422	24402	38571	51743	32316	18430	43270	49860
MEAN	455	337	281	453	658	787	1286	1669	1077	595	1396	1662
MAX	1490	1080	738	1170	2280	1590	2080	2320	1880	1630	1980	2030
MIN	23	20	28	43	38	23	583	757	134	132	799	1410
AC-FT	28000	20030	17300	27880	36540	48400	76510	102600	64100	36560	85830	98900

CAL YR 1981 TOTAL 214643 MEAN 588 MAX 1660 MIN 20 AC-FT 425700
WTR YR 1982 TOTAL 324008 MEAN 888 MAX 2320 MIN 20 AC-FT 642700

10090500 BEAR RIVER NEAR PRESTON, ID

LOCATION.--Lat 42°10'05", long 111°50'59", in NW¼NE¼NW¼ 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 mi² (11,772 km²).

PERIOD OF RECORD.--October 1889 to December 1916, January to September 1917 (gage heights only), October 1943 to current year. Prior to 1903 published as "at Battlecreek". Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 205: 1905-7. WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,524.8 ft (1,379.16 m) NGVD of 1929, unadjusted. October 1889 to September 1917, nonrecording gages at several sites within 5 mi (8 km) downstream at different datums.

REMARKS.--Records fair. Station is below all irrigation diversions from Bear River in Idaho except Cub River pumps in SE¼ sec.20, T.16 S., R.39 E. Natural flow of stream affected by storage reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--39 years (water years 1944-82), 865 ft³/s (24.50 m³/s), 626,700 acre-ft/yr (773 hm³/yr).

EXTREMES FOR PERIOD OF RECORD (since 1943).--Maximum discharge, 4,420 ft³/s (125 m³/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 ft³/s (241 m³/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 daily discharge, 2,800 ft³/s (79.3 m³/s) May 27; minimum daily, 23 ft³/s (0.65 m³/s) July 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	258	41	90	318	700	807	670	1900	1400	330	1250	1490
2	416	40	192	238	500	989	1280	1970	1390	246	1540	1610
3	426	104	239	452	900	926	547	1730	2120	195	1160	1350
4	250	51	145	518	400	772	1570	2200	1720	386	1440	1520
5	49	42	468	411	700	730	697	1760	1790	114	1350	1430
6	1270	239	142	457	1600	535	1050	2250	1570	484	626	1430
7	730	353	406	490	1300	730	911	2080	1620	270	1480	1770
8	607	286	142	600	600	479	1510	2220	1070	496	677	1480
9	250	421	406	200	500	958	751	2100	1820	185	1270	1370
10	436	888	192	400	287	926	997	2050	1510	496	1460	1690
11	109	626	468	500	262	881	565	2130	1390	52	919	1330
12	484	570	202	600	600	1040	2000	1700	1050	836	1440	1950
13	535	690	148	1000	600	142	1200	1520	1170	501	1340	1490
14	1240	343	209	200	500	535	1790	2050	1210	73	1440	1650
15	2040	182	442	400	198	1480	1850	1600	1190	35	844	1650
16	1140	334	278	350	420	1070	1140	2110	1450	109	1460	1690
17	904	934	308	500	790	1210	1170	1770	1630	23	1220	1720
18	376	321	431	100	587	169	1760	1760	1540	97	1290	1630
19	484	416	136	300	790	507	1590	2190	291	27	1490	1540
20	213	583	518	1000	762	401	1480	2070	710	442	751	1560
21	372	401	202	700	769	463	1690	2490	1110	535	1210	1980
22	199	92	583	300	636	772	1000	2160	997	179	710	1650
23	291	286	362	200	1270	779	807	2170	1350	262	1230	1630
24	128	160	401	600	790	919	1800	966	484	97	658	1490
25	343	362	109	600	734	626	1810	2030	436	690	1220	1670
26	270	58	330	500	814	724	942	2140	958	1140	765	1280
27	239	42	239	200	762	559	1960	2800	904	744	1030	2080
28	202	154	321	200	508	1560	2100	1720	704	1320	1150	1440
29	54	185	321	400	---	997	2280	2140	518	1380	1640	2140
30	54	772	316	600	---	1210	1540	1420	1100	1390	1220	1340
31	47	---	231	900	---	807	---	2050	---	737	1380	---
TOTAL	14416	9976	8977	14234	19279	24703	40457	61246	36202	13871	36660	48050
MEAN	465	333	290	459	689	797	1349	1976	1207	447	1183	1602
MAX	2040	934	583	1000	1600	1560	2280	2800	2120	1390	1640	2140
MIN	47	40	90	100	198	142	547	966	291	23	626	1280
AC-FT	28590	19790	17810	28230	38240	49000	80250	121500	71810	27510	72720	95310
CAL YR 1981	TOTAL	202491	MEAN 555	MAX 2040	MIN 25	AC-FT 401600						
WTR YR 1982	TOTAL	328071	MEAN 899	MAX 2800	MIN 23	AC-FT 650700						

BEAR RIVER BASIN

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10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE

LOCATION.--Lat 42°00'47", long 111°55'14", in NW¼ 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 mi² (12,642 km²).

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

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

GAGE.--Water-stage recorder. Altitude of gage is 4,420 ft (1,347 m) from topographic map. Prior to Sept. 10, 1982 at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records fair. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--12 years, 1,153 ft³/s (32.65 m³/s), 835,300 acre-ft/yr (1.03 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,190 ft³/s (119 m³/s) June 12, 1971, gage height, 8.25 ft (2.515 m); minimum observed, 73 ft³/s (2.07 m³/s) June 29, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,080 ft³/s (87.2 m³/s) May 9, gage height, 8.04 ft (2.451 m); minimum daily, 50 ft³/s (2.42 m³/s) Oct. 31, July 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	310	60	550	140	800	817	907	1670	1900	1040	1160	1450
2	400	60	160	350	500	1030	1150	2040	1530	400	1440	1430
3	500	60	130	320	980	1300	953	2250	1490	150	1020	1230
4	290	120	280	450	500	711	1150	1760	1890	300	1150	1540
5	120	60	200	514	700	861	1040	2180	1690	320	1440	1390
6	620	70	380	461	1200	776	800	1990	1790	100	1250	1350
7	800	290	300	680	1300	790	1170	2470	1610	580	789	1640
8	940	400	330	220	1000	665	1420	1900	1660	330	1280	1420
9	420	400	100	400	600	679	923	2290	1510	400	981	1340
10	350	740	400	300	320	1180	1170	2140	1140	200	1070	1700
11	240	800	280	300	300	783	494	2100	1600	400	1620	1350
12	430	480	400	500	700	1330	1550	2210	1200	300	683	1950
13	130	500	200	1200	700	595	1970	1400	1090	1100	1420	1500
14	1160	580	140	400	600	512	1560	1950	1190	250	1100	1650
15	1550	420	340	300	200	1390	1790	1750	1100	50	1310	1700
16	1410	120	480	500	300	1490	1510	1820	1300	80	1210	1650
17	1020	644	270	600	600	1360	1410	2030	1400	60	1090	1800
18	760	756	330	300	800	765	1630	1560	1340	70	897	1600
19	610	140	360	300	500	628	1690	2090	1410	60	1120	1550
20	637	606	120	1040	719	496	1620	2040	442	80	1410	1550
21	420	548	610	750	826	400	1790	2250	568	200	679	2000
22	280	300	250	400	809	939	1590	2100	1090	400	1220	1700
23	250	70	590	300	1110	882	826	2080	983	220	638	1650
24	210	420	300	600	1180	1020	1480	1740	1340	80	1250	1650
25	170	160	350	600	521	500	1770	1420	626	250	686	1600
26	360	280	300	600	1170	832	1670	2270	536	824	1070	1200
27	250	70	230	300	605	500	1730	2030	830	1040	746	2100
28	240	60	220	300	761	1700	1800	1990	778	987	1030	1450
29	100	280	270	400	---	1070	2320	1860	675	1390	1400	2150
30	80	350	340	650	---	1380	2010	1850	570	1450	1160	1350
31	50	---	390	940	---	866	---	1530	---	1540	1310	---
TOTAL	15107	9844	9600	15115	20301	28247	42893	60760	36278	14651	34629	47640
MEAN	487	328	310	488	725	911	1430	1960	1209	473	1117	1588
MAX	1550	800	610	1200	1300	1700	2320	2470	1900	1540	1620	2150
MIN	50	60	100	140	200	400	494	1400	442	50	638	1200
AC-FT	29960	19530	19040	29980	40270	56030	85080	120500	71960	29060	68690	94490
CAL YR 1981	TOTAL	227538	MEAN 623	MAX 1660	MIN 50	AC-FT 451300						
WTR YR 1982	TOTAL	335065	MEAN 918	MAX 2470	MIN 50	AC-FT 664600						

BEAR RIVER BASIN

10093000 CUB RIVER NEAR PRESTON, ID

LOCATION (REVISED).--Lat 42°08'25", long 111°41'26', in NW¼NW¼ sec.8, 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 mi² (81.8 km²).

PERIOD OF RECORD.--March 1940 to September 1952, October 1955 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 5,285.1 ft (1,610.90 m) NGVD of 1929, unadjusted.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--39 years, 84.3 ft³/s (2.39 m³/s), 61,080 acre-ft/yr (75.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 840 ft³/s (23.8 m³/s) June 18, 1982; 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, 840 ft³/s (23.8 m³/s) June 18, gage height, 2.80 ft (0.853 m); minimum daily, 14 ft³/s (0.396 m³/s) Feb. 5-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	22	19	20	20	38	34	168	353	430	93	56
2	24	21	19	19	20	42	32	226	362	392	90	56
3	25	21	19	21	19	36	31	337	366	353	88	56
4	24	21	19	21	16	31	30	416	416	329	86	54
5	23	21	19	19	14	29	29	383	466	313	83	54
6	22	21	19	19	14	27	29	317	430	287	83	54
7	22	21	19	18	14	25	28	294	349	266	80	54
8	23	21	19	18	14	25	26	284	337	250	79	52
9	22	21	19	18	14	26	26	270	317	241	79	52
10	22	20	19	18	14	29	26	241	341	228	76	53
11	25	20	19	18	18	39	39	208	411	217	75	51
12	26	20	19	18	18	34	75	185	487	203	75	52
13	25	20	19	18	19	32	72	177	526	192	73	50
14	25	20	19	20	20	36	79	200	599	187	73	51
15	24	20	20	20	25	42	78	244	645	180	72	49
16	25	20	20	20	37	36	70	302	700	170	70	48
17	24	20	19	20	29	32	67	353	722	158	69	47
18	24	20	19	20	27	32	67	461	776	148	68	47
19	24	20	20	20	25	30	62	509	768	142	67	46
20	24	20	26	20	26	28	56	445	730	137	67	46
21	24	19	25	20	31	27	54	402	693	130	66	46
22	23	20	23	20	32	26	60	455	665	124	65	45
23	23	20	22	22	29	26	73	509	658	120	65	45
24	22	21	22	20	28	25	91	580	658	117	64	44
25	22	21	22	20	26	26	113	526	645	115	63	44
26	22	20	22	20	26	30	132	515	605	110	62	51
27	22	20	22	20	27	35	134	586	562	107	60	52
28	22	19	21	20	29	42	148	679	532	105	60	56
29	23	20	22	20	---	42	168	562	509	102	60	54
30	22	19	22	20	---	38	161	392	471	99	58	56
31	22	---	21	20	---	35	---	325	---	96	57	---
TOTAL	725	609	634	607	631	1001	2090	11551	16099	6048	2226	1521
MEAN	23.4	20.3	20.5	19.6	22.5	32.3	69.7	373	537	195	71.8	50.7
MAX	26	22	26	22	37	42	168	679	776	430	93	56
MIN	22	19	19	18	14	25	26	168	317	96	57	44
AC-FT	1440	1210	1260	1200	1250	1990	4150	22910	31930	12000	4420	3020
CAL YR 1981	TOTAL	22796	MEAN	62.5	MAX	499	MIN	13	AC-FT	45220		
WTR YR 1982	TOTAL	43742	MEAN	120	MAX	776	MIN	14	AC-FT	86760		

BEAR RIVER BASIN

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10099000 HIGH CREEK NEAR RICHMOND, UTAH

LOCATION (REVISED).--Lat 41°58'40", Long 111°44'55", in SW¼SW¼SE¼ 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 mi² (42.0 km²).

PERIOD OF RECORD.--April to September 1944, April to September 1945 (monthly discharge only, published in WSP 1314), April 1946 to September 1952, February 1971 to September 1972, October 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,250 ft (1,600 m) from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--11 years (1946-52, 1972, 1979-82), 33.6 ft³/s (0.952 m³/s), 24,340 acre-ft/yr (30.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 355 ft³/s (10.1 m³/s) May 16, 1971, gage height, 2.80 ft (0.853 m); maximum gage height, 3.67 ft (1.119 m) Feb. 1-15, 1972, backwater from ice; minimum observed, 2.6 ft³/s (0.074 m³/s) Jan. 5, 1950, result of ice jam upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 100 ft³/s (2.83 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
May 4	0100	*303	8.58
May 28	0300	257	7.28
			2.60
			2.46
			0.792
			.750

Minimum daily, 7.0 ft³/s (0.198 m³/s) Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	12	11	12	14	22	21	101	144	138	36	19
2	10	13	11	9.0	14	26	20	136	146	130	36	18
3	11	12	11	10	12	25	19	193	144	123	35	18
4	11	11	11	11	10	23	18	257	146	118	33	18
5	11	11	10	13	7.0	21	16	188	157	112	33	18
6	10	11	10	14	8.0	19	16	140	146	106	32	18
7	9.9	11	10	8.0	9.5	18	16	128	128	100	31	18
8	10	11	10	9.0	10	16	14	122	124	93	30	18
9	10	11	10	9.8	10	16	14	119	117	87	30	17
10	9.9	11	10	9.9	10	16	14	108	119	83	29	18
11	14	11	10	9.9	12	20	23	92	132	79	28	17
12	15	11	10	10	12	27	99	82	151	74	27	17
13	13	11	10	11	12	26	73	78	173	72	27	17
14	12	11	10	12	12	27	68	82	206	71	26	17
15	12	11	11	11	11	29	62	94	198	68	26	17
16	13	11	10	12	17	30	50	110	206	65	25	16
17	13	11	9.9	11	24	26	44	128	220	62	25	16
18	12	11	9.9	11	21	24	42	146	222	59	24	16
19	12	11	10	11	19	22	37	180	211	57	24	16
20	12	11	16	11	17	21	31	146	201	54	23	15
21	11	10	15	11	19	19	27	138	196	51	23	15
22	11	11	13	11	30	18	27	138	195	50	23	15
23	11	10	13	13	30	18	36	164	190	49	22	15
24	10	12	11	13	26	18	51	190	190	48	22	15
25	10	13	12	13	22	17	64	198	185	48	22	15
26	9.5	12	13	13	19	18	67	209	177	45	21	23
27	9.1	12	13	14	19	21	73	245	167	46	21	25
28	9.5	12	13	14	20	25	89	239	160	44	21	27
29	11	11	12	14	---	26	94	190	152	41	21	28
30	12	11	12	13	---	25	94	155	145	39	20	28
31	11	---	12	14	---	23	---	142	---	37	20	---
TOTAL	345.9	338	349.8	358.6	446.5	682	1319	4638	5048	2249	816	550
MEAN	11.2	11.3	11.3	11.6	15.9	22.0	44.0	150	168	72.5	26.3	18.3
MAX	15	13	16	14	30	30	99	257	222	138	36	28
MIN	9.1	10	9.9	8.0	7.0	16	14	78	117	37	20	15
AC-FT	686	670	694	711	886	1350	2620	9200	10010	4460	1620	1090

CAL YR 1981	TOTAL	10133.7	MEAN 27.8	MAX 280	MIN 5.0	AC-FT 20100
WTR YR 1982	TOTAL	17140.8	MEAN 47.0	MAX 257	MIN 7.0	AC-FT 34000

BEAR RIVER BASIN

10104700 LITTLE BEAR RIVER BELOW DAVENPORT CREEK, NEAR AVON, UTAH

LOCATION (REVISED).--Lat 41°30'45", long 111°48'34", in NE¼SW¼SW¼ 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 mi² (159.5 km²).

PERIOD OF RECORD.--October 1960 to current year. Published as "10105700 South Fork Little Bear River near Avon," 1960-62.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,020 ft (1,530 m) from topographic map.

REMARKS.--Records good. A few small diversions for irrigation above station.

AVERAGE DISCHARGE.--22 years, 56.0 ft³/s (1.586 m³/s), 40,570 acre-ft/yr (50.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,180 ft³/s (33.4 m³/s) Apr. 11, 1982, gage height, 4.43 ft (1.350 m); minimum, 6.3 ft³/s (0.18 m³/s) Feb. 3, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,180 ft³/s (33.4 m³/s) Apr. 11, gage height, 4.43 ft (1.350 m); minimum, 11 ft³/s (0.312 m³/s) Feb. 5.

REVISIONS.--The maximum discharge for the water year 1980 has been revised to 1,010 ft³/s (28.6 m³/s) Jan. 14, 1980, gage height, 3.97 ft (1.210 m), superseding figures published in 1980 and 1981.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	20	21	26	26	84	82	248	173	93	50	33
2	17	20	24	22	26	148	74	281	169	86	47	32
3	20	20	23	26	25	83	77	350	167	81	47	32
4	23	19	22	27	17	62	78	341	169	80	46	30
5	20	19	22	28	16	54	64	271	178	90	44	30
6	18	18	23	19	23	47	61	233	173	81	44	31
7	18	19	24	20	24	46	58	210	158	76	42	32
8	22	18	22	25	25	43	55	214	154	80	43	31
9	18	18	22	26	24	47	51	214	148	76	44	31
10	19	18	21	26	24	52	55	205	152	72	43	38
11	34	18	21	25	24	137	243	187	158	67	42	35
12	30	18	20	25	23	151	437	180	163	68	42	35
13	24	18	20	24	23	87	279	167	169	65	40	39
14	22	24	20	24	30	156	274	167	171	64	40	35
15	20	25	30	24	47	314	233	182	167	64	39	34
16	24	22	28	25	170	115	200	196	152	64	39	33
17	23	21	23	26	131	92	198	200	146	62	38	32
18	20	23	20	26	77	80	187	212	140	61	38	32
19	19	21	30	25	58	72	160	241	132	60	38	31
20	19	21	66	24	58	66	146	210	128	58	37	31
21	18	21	46	26	75	59	146	202	124	57	35	31
22	18	21	32	25	106	58	160	207	116	55	34	30
23	18	22	27	24	93	58	184	219	113	57	35	30
24	18	24	24	25	57	62	214	231	109	55	35	30
25	18	24	30	24	46	65	236	233	105	54	35	32
26	18	20	28	28	46	88	248	233	102	52	34	68
27	18	21	27	32	59	110	251	246	100	57	34	54
28	18	19	25	30	55	116	261	258	96	61	38	88
29	25	16	27	30	---	101	300	214	91	58	39	73
30	22	20	34	27	---	76	253	189	90	55	35	100
31	20	---	27	28	---	72	---	176	---	52	34	---
TOTAL	638	608	829	792	1408	2801	5265	6917	4213	2061	1231	1193
MEAN	20.6	20.3	26.7	25.5	50.3	90.4	176	223	140	66.5	39.7	39.8
MAX	34	25	66	32	170	314	437	350	178	93	50	100
MIN	17	16	20	19	16	43	51	167	90	52	34	30
AC-FT	1270	1210	1640	1570	2790	5560	10440	13720	8360	4090	2440	2370

CAL YR 1981 TOTAL 11904 MEAN 32.6 MAX 158 MIN 10 AC-FT 23610
WTR YR 1982 TOTAL 27956 MEAN 76.6 MAX 437 MIN 16 AC-FT 55450

LOCATION.--Lat 41°31'06", long 111°42'49", in SE¼NW¼ 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 951 ft³/s (26.9 m³/s) May 2, gage height, 3.88 ft (1.183 m); minimum daily, 5.3 ft³/s (0.150 m³/s) Nov. 13, 21.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	6.5	5.7	9.4	11	30	44	475	92	34	19	11
2	5.6	6.3	6.0	7.5	11	35	42	592	86	33	18	10
3	6.4	6.3	6.3	10	11	35	40	640	81	33	16	10
4	7.0	6.3	6.3	9.8	7.3	33	44	598	77	33	16	10
5	6.2	6.1	6.0	10	6.7	30	40	435	74	33	15	9.8
6	5.9	5.7	6.3	7.7	8.4	28	40	361	76	32	14	9.8
7	5.7	5.7	6.7	5.8	11	27	38	334	73	31	14	9.3
8	6.5	5.7	6.3	8.4	11	26	36	349	66	31	14	9.3
9	6.0	5.7	6.3	10	10	26	35	326	64	30	14	8.8
10	6.2	5.7	6.3	9.9	9.8	28	34	275	60	29	14	8.8
11	9.0	5.7	6.3	9.8	9.8	33	40	228	59	28	13	8.8
12	8.5	5.7	6.2	9.7	9.3	40	170	208	57	27	13	8.8
13	7.5	5.3	6.3	9.6	9.3	39	209	208	56	27	13	8.8
14	6.9	6.0	6.3	9.3	11	40	238	217	56	26	12	8.4
15	6.5	6.4	7.7	9.3	13	52	246	228	56	25	12	8.4
16	7.2	5.9	7.8	9.3	18	52	195	233	52	23	12	8.4
17	7.1	5.8	7.1	9.4	27	46	176	233	51	22	12	8.4
18	6.9	6.4	6.7	9.6	24	43	174	233	50	21	12	8.4
19	6.7	5.7	7.3	9.6	23	40	150	245	49	20	12	8.4
20	6.5	5.7	9.6	9.3	22	37	124	206	45	20	12	8.4
21	6.4	5.3	12	10	23	34	111	190	44	20	12	8.4
22	6.3	5.5	11	9.6	31	32	122	180	43	20	11	8.4
23	6.3	5.8	11	9.7	35	31	181	173	42	20	11	8.0
24	6.3	6.1	9.8	9.7	31	31	274	168	42	20	11	8.0
25	6.3	6.5	11	9.6	28	31	350	156	40	20	11	8.0
26	6.2	6.0	10	10	26	36	416	145	39	20	11	8.0
27	6.1	6.0	10	11	27	42	403	136	37	20	10	8.4
28	6.2	5.7	9.7	11	26	52	442	134	37	20	11	11
29	7.7	5.7	9.8	11	---	61	466	122	36	20	11	19
30	7.2	5.7	10	10	---	56	398	107	34	20	11	21
31	6.7	---	9.3	12	---	48	---	97	---	19	11	---
TOTAL	205.4	176.9	247.1	297.0	490.6	1174	5278	8232	1674	777	398	290.2
MEAN	6.63	5.90	7.97	9.58	17.5	37.9	176	266	55.8	25.1	12.8	9.67
MAX	9.0	6.5	12	12	35	61	466	640	92	34	19	21
MIN	5.4	5.3	5.7	5.8	6.7	26	34	97	34	19	10	8.0
AC-FT	407	351	490	589	973	2330	10470	16330	3320	1540	789	576
CAL YR 1981	TOTAL	4952.5										
WTR YR 1982	TOTAL	19240.2	MEAN	13.6	MAX	157	MIN	4.6	AC-FT	9820		
			MEAN	52.7	MAX	640	MIN	5.3	AC-FT	38160		

BEAR RIVER BASIN

10106000 LITTLE BEAR RIVER NEAR PARADISE, UTAH

LOCATION.--Lat 41°35'25", long 111°51'10", in NW¼NE¼SE¼ 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 mi² (513 km²).

PERIOD OF RECORD.--January 1937 to current year. Monthly discharge only for some periods, published in WSP 1314.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,680 ft (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 km²), 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 hm³), since 1962. No diversion between station and Hyrum Reservoir.

AVERAGE DISCHARGE.--45 years, 90.5 ft³/s (2.563 m³/s), 65,570 acre-ft/yr (80.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,000 ft³/s (56.6 m³/s) Feb. 11, 1962, gage height, 6.52 ft (1.987 m), from rating curve extended above 600 ft³/s (17.0 m³/s); minimum, 4 ft³/s (0.11 m³/s) Aug. 14, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,780 ft³/s (50.4 m³/s) Apr. 12, gage height, 8.58 ft (2.615 m); minimum daily, 28 ft³/s (0.793 m³/s) Oct. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	37	40	51	42	127	148	696	293	80	57	51
2	28	37	41	45	41	264	135	867	278	62	60	51
3	28	37	42	45	42	155	132	1060	254	57	63	52
4	37	37	41	44	40	115	142	1040	254	55	63	52
5	49	35	41	45	35	102	115	867	257	76	62	51
6	41	34	41	40	35	90	115	727	244	67	60	51
7	41	34	42	35	35	88	106	672	217	62	52	52
8	46	34	40	35	40	84	106	684	202	62	55	52
9	41	34	40	40	40	86	125	714	181	58	57	52
10	41	34	38	40	40	96	125	654	181	55	60	62
11	60	34	37	40	40	244	335	555	181	54	57	62
12	63	34	37	40	40	262	778	490	181	67	55	70
13	51	34	37	40	40	160	361	450	172	65	54	72
14	48	36	36	40	50	230	337	441	181	67	49	82
15	42	41	44	40	65	556	271	455	166	67	49	80
16	45	37	48	40	222	172	208	470	150	65	48	76
17	45	36	40	40	230	138	202	460	145	62	49	76
18	41	37	35	41	142	122	193	480	138	60	46	74
19	44	36	42	40	108	110	163	555	125	58	48	72
20	44	35	90	40	100	102	138	480	115	58	51	76
21	37	35	78	42	128	94	135	436	104	60	49	72
22	36	36	58	40	181	90	158	432	94	58	45	70
23	36	36	49	38	205	92	196	436	90	58	45	70
24	36	38	41	38	112	96	341	446	88	58	49	72
25	36	41	49	37	92	98	530	414	82	58	55	86
26	35	37	46	40	86	120	590	414	82	60	54	152
27	33	36	46	51	108	150	618	432	76	63	52	135
28	33	36	41	45	108	175	642	470	76	70	51	172
29	42	37	45	45	---	169	825	397	74	65	52	166
30	40	37	62	40	---	122	636	349	74	72	52	175
31	37	---	52	42	---	118	---	317	---	60	49	---
TOTAL	1265	1082	1419	1279	2447	4627	8906	17360	4755	1939	1648	2436
MEAN	40.8	36.1	45.8	41.3	87.4	149	297	560	159	62.5	53.2	81.2
MAX	63	41	90	51	230	556	825	1060	293	80	63	175
MIN	28	34	35	35	35	84	106	317	74	54	45	51
AC-FT	2510	2150	2810	2540	4850	9180	17670	34430	9430	3850	3270	4830
CAL YR 1981	TOTAL	16408	MEAN	45.0	MAX	163	MIN	21	AC-FT	32550		
WTR YR 1982	TOTAL	49163	MEAN	135	MAX	1060	MIN	28	AC-FT	97510		

BEAR RIVER BASIN

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10108400 LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UTAH

LOCATION.--Lat 41°44'35", long 111°45'40", in NE¼NW¼ sec.31, T.12 N., R.2 E., Cache County, Hydrologic Unit 16010203, Cache National Forest, on left bank 487 ft (148 m) downstream from head and 3.8 mi (6.1 km) east of Logan.

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

GAGE.--Water-stage recorder and 8-ft (2.448-m) concrete Parshall flume. Datum of gage is 4,858.69 ft (1,480.929 m) NGVD of 1929 (Bureau of Public Roads bench mark).

REMARKS.--Records good.

AVERAGE DISCHARGE.--19 years, 24.8 ft³/s (0.702 m³/s), 17,970 acre-ft/yr (22.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 111 ft³/s (3.14 m³/s) May 23, 1963, May 28, 1966; no flow at times most years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	.30	1.7	6.7	6.3	5.7	.00	7.7	37	70	60	51
2	31	.30	5.4	6.5	6.3	5.5	.00	9.3	36	70	60	51
3	30	.30	5.2	6.6	6.2	5.4	.00	16	37	69	60	51
4	29	.30	5.0	6.5	6.2	5.4	.00	.51	37	68	60	51
5	29	2.9	5.2	6.5	5.0	5.4	.00	4.4	37	68	59	50
6	16	2.5	5.0	6.5	4.0	5.2	.00	18	48	67	59	51
7	.59	2.6	5.0	6.2	4.5	5.2	.00	17	61	66	58	50
8	.50	2.5	5.1	6.2	5.0	5.2	.00	17	61	66	58	51
9	.50	2.3	4.9	6.4	5.0	5.2	.00	16	61	66	58	50
10	.50	2.3	5.1	6.4	5.0	5.2	.00	16	61	66	58	50
11	.50	2.3	5.0	6.4	5.0	5.2	.00	16	61	65	58	51
12	.50	2.3	4.9	6.8	5.0	5.2	.00	16	62	65	58	46
13	.50	2.1	4.9	7.1	5.5	5.1	.00	16	62	65	57	41
14	.50	2.0	4.9	7.1	5.5	5.0	.00	16	62	65	57	28
15	15	1.8	4.8	7.1	6.0	4.9	.00	17	62	64	57	28
16	27	1.6	4.7	6.9	6.0	4.9	.00	24	62	67	57	28
17	27	1.4	4.6	6.9	6.0	5.2	.00	40	62	69	57	28
18	27	1.4	4.6	6.8	6.0	2.4	.00	41	62	69	56	28
19	27	1.4	4.7	6.8	5.7	.23	.00	24	62	68	56	28
20	27	1.4	4.7	6.8	5.5	.20	.00	.35	62	68	56	28
21	27	1.4	6.5	6.8	5.7	.20	.00	2.0	62	68	58	28
22	27	1.4	6.8	6.8	5.4	.20	.00	25	62	68	60	28
23	26	1.4	6.7	6.8	5.8	.20	.57	47	62	68	59	28
24	27	1.4	6.7	6.8	5.7	.20	3.5	48	65	64	59	28
25	26	1.4	6.8	6.5	5.7	.12	5.3	49	71	37	59	28
26	26	1.7	6.8	6.3	5.7	.10	7.0	48	70	56	58	20
27	26	1.6	6.8	6.2	5.7	.10	7.7	48	70	65	58	8.7
28	.44	1.6	6.5	6.2	5.7	.10	8.3	42	70	64	58	8.2
29	.30	1.6	6.8	6.2	---	.10	9.6	38	70	61	58	7.7
30	.30	1.7	6.8	6.2	---	.10	9.0	37	70	61	51	7.3
31	.30	---	6.6	6.4	---	.04	---	37	---	61	51	---
TOTAL	505.43	49.20	169.2	204.4	155.1	93.19	50.97	753.26	1767	2014	1788	1031.9
MEAN	16.3	1.64	5.46	6.59	5.54	3.01	1.70	24.3	58.9	65.0	57.7	34.4
MAX	31	2.9	6.8	7.1	6.3	5.7	9.6	49	71	70	60	51
MIN	.30	.30	1.7	6.2	4.0	.04	.00	.35	36	37	51	7.3
AC-FT	1000	98	336	405	308	185	101	1490	3500	3990	3550	2050
CAL YR 1981	TOTAL	6984.11	MEAN 19.1	MAX 84	MIN .22	AC-FT 13850						
WTR YR 1982	TOTAL	8581.65	MEAN 23.5	MAX 71	MIN .00	AC-FT 17020						

10109000 LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UTAH

LOCATION.--Lat 41°44'40", long 111°47'00", in NE¼ sec.36, T.12 N., R.1 E., Cache County, Hydrologic Unit 16010203, on right bank 0.5 mi (0.8 km) upstream from State dam, and 2.5 mi (4.0 km) east of Logan.

DRAINAGE AREA.--214 mi² (554 km²).

PERIOD OF RECORD.--June 1896 to current year. Published as Logan River near Logan prior to 1913. Records since May 1913 equivalent to earlier records, if records for Utah Power & Light Co.'s tailrace near Logan (station 10108000) are added. Monthly discharge only for some periods, published in WSP 1314.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,680 ft (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: 69 years (water years 1914-82), 130 ft³/s (3.682 m³/s), 94,180 acre-ft/yr (116 hm³/yr).
Combined river and canal: 86 years, 272 ft³/s (7.703 m³/s), 197,100 acre-ft/yr (243 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--River only: Maximum discharge, 2,000 ft³/s (56.6 m³/s) Mar. 21, 1916, gage height, 5.6 ft (1.71 m), datum then in use, from rating curve extended above 1,000 ft³/s (28.3 m³/s); minimum daily, 6 ft³/s (0.17 m³/s) Nov. 7, 1940.
Combined river and canal: Maximum discharge observed, 2,480 ft³/s (70.2 m³/s) May 24, 1907; minimum daily, 50 ft³/s (1.42 m³/s) Jan. 21, 1935.

EXTREMES FOR CURRENT YEAR.--River only: Maximum discharge, 1,330 ft³/s (37.7 m³/s) May 28, gage height, 5.75 ft (1.753 m); minimum, 28 ft³/s (0.793 m³/s) Dec. 3.
Combined river and canal: Maximum daily discharge, 1,310 ft³/s (37.1 m³/s) May 28; minimum daily, 64 ft³/s (1.81 m³/s) Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	101	89	87	80	119	152	676	988	884	352	210
2	85	101	85	82	82	131	150	772	968	836	338	205
3	91	103	83	83	82	131	145	896	948	796	331	202
4	95	93	68	85	75	127	145	1090	972	776	320	202
5	89	99	89	85	59	123	145	984	984	776	310	195
6	91	99	89	85	65	121	143	860	948	732	301	195
7	111	99	91	72	75	117	141	824	880	692	295	192
8	115	99	91	74	87	113	137	816	884	672	298	195
9	111	99	89	83	82	115	139	812	848	668	292	190
10	109	97	87	85	83	121	137	776	860	652	286	190
11	119	97	87	89	80	131	143	708	888	628	280	200
12	113	97	87	87	82	139	261	664	928	608	274	195
13	113	97	87	85	85	135	304	672	940	588	268	212
14	111	99	87	85	91	141	338	716	972	572	262	218
15	103	99	93	85	93	150	362	780	988	556	256	218
16	83	97	91	85	117	152	324	836	992	544	253	210
17	87	97	80	87	135	152	310	872	1020	520	247	205
18	87	97	83	87	121	150	310	920	1020	499	244	205
19	85	95	89	85	117	152	286	996	1020	478	238	202
20	85	95	113	83	111	145	259	948	1010	468	235	200
21	85	95	113	85	113	139	253	944	1000	454	229	200
22	85	95	101	85	121	139	271	976	1000	443	226	195
23	85	99	89	83	123	137	320	1010	1000	436	220	192
24	85	101	82	85	119	135	401	1090	992	432	218	192
25	83	99	93	85	119	133	471	1110	976	457	218	192
26	82	93	89	85	119	137	485	1160	956	426	212	247
27	82	91	89	87	117	141	513	1250	936	404	212	262
28	97	89	85	83	115	150	572	1270	924	401	212	259
29	109	85	85	83	---	155	652	1130	912	408	215	247
30	107	89	95	82	---	155	640	1030	892	380	218	250
31	105	---	82	87	---	152	---	968	---	366	212	---
TOTAL	2973	2896	2761	2609	2748	4238	8909	28556	28646	17552	8072	6277
MEAN	95.9	96.5	89.1	84.2	98.1	137	297	921	955	566	260	209
MAX	119	103	113	89	135	155	652	1270	1020	884	352	262
MIN	82	85	68	72	59	113	137	664	848	366	212	190
AC-FT	5900	5740	5480	5170	5450	8410	17670	56640	56820	34810	16010	12450

CAL YR 1981 TOTAL 53236 MEAN 146 MAX 584 MIN 68 AC-FT 105600
WTR YR 1982 TOTAL 116237 MEAN 318 MAX 1270 MIN 59 AC-FT 230600

BEAR RIVER BASIN

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10109001 LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UTAH--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF LOGAN RIVER ABOVE STATE DAM

AND LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UTAH

WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	101	91	94	86	125	152	684	1030	954	412	261
2	116	101	90	89	88	137	150	781	1000	906	398	256
3	121	103	88	90	88	136	145	912	985	865	391	253
4	124	93	73	92	81	132	145	1090	1010	844	380	253
5	118	102	94	92	64	128	145	988	1020	844	369	245
6	107	102	94	92	69	126	143	878	996	799	360	246
7	112	102	96	78	80	122	141	841	941	758	353	242
8	116	102	96	80	92	118	137	833	945	738	356	246
9	112	101	94	89	87	120	139	828	909	734	350	240
10	110	99	92	91	88	126	137	792	921	718	344	240
11	120	99	92	95	85	136	143	724	949	693	338	251
12	114	99	92	94	87	144	261	680	990	673	332	241
13	114	99	92	92	91	140	304	688	1000	653	325	253
14	112	101	92	92	97	146	338	732	1030	637	319	246
15	118	101	98	92	99	155	362	797	1050	620	313	246
16	110	99	96	92	123	157	324	860	1050	611	310	238
17	114	98	85	94	141	157	310	912	1080	589	304	233
18	114	98	88	94	127	152	310	961	1080	568	300	233
19	112	96	94	92	123	152	286	1020	1080	546	294	230
20	112	96	118	90	117	145	259	948	1070	536	291	228
21	112	96	120	92	119	139	253	946	1060	522	287	228
22	112	96	108	92	126	139	271	1000	1060	511	286	223
23	111	100	96	90	129	137	321	1060	1060	504	279	220
24	112	102	89	92	125	135	405	1140	1060	496	277	220
25	109	100	100	92	125	133	476	1160	1050	494	277	220
26	108	95	96	91	125	137	492	1210	1030	482	270	267
27	108	93	96	93	123	141	521	1300	1010	469	270	271
28	97	91	92	89	121	150	580	1310	994	465	270	267
29	109	87	92	89	---	155	662	1170	982	469	273	255
30	107	91	102	88	---	155	649	1070	962	441	269	257
31	105	---	89	93	---	152	---	1010	---	427	263	---
TOTAL	3481	2943	2935	2815	2906	4327	8961	29325	30404	19566	9860	7309
MEAN	112	98.1	94.7	90.8	104	140	299	946	1013	631	318	244
MAX	124	103	120	95	141	157	662	1310	1080	954	412	271
MIN	97	87	73	78	64	118	137	680	909	427	263	220
AC-FT	6900	5840	5820	5580	5760	8580	17770	58170	60310	38810	19560	14500
CAL YR 1981	TOTAL	60238	MEAN 165	MAX 599	MIN 73	AC-FT 119500						
WTR YR 1982	TOTAL	124832	MEAN 342	MAX 1310	MIN 64	AC-FT 247600						

BEAR RIVER BASIN

10113500 BLACKSMITH FORK ABOVE UTAH POWER & LIGHT CO.'S DAM, NEAR HYRUM, UTAH

LOCATION.--Lat 41°37'18", long 111°44'42", in NW¼SE¼NE¼ 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 mi² (694 km²).

PERIOD OF RECORD.--October 1913 to current year. Monthly discharge only for October 1913, published in WSP 1314.

REVISED RECORDS.--WSP 1514: 1925. WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,000.60 ft (1,524.183 m) NGVD of 1929, unadjusted. Prior to Oct. 2, 1934, at site 1,000 ft (305 m) upstream at different datum.

REMARKS.--Records good. A few small diversions for irrigation of about 200 acres (809,000 m²) above station. Flow is slightly regulated by powerplant above station.

AVERAGE DISCHARGE.--69 years, 128 ft³/s (3.625 m³/s), 92,740 acre-ft/yr (114 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,620 ft³/s (45.9 m³/s) May 15, 1917, gage height, 6.5 ft (1.98 m) from floodmarks, site and datum then in use, from rating curve extended above 800 ft³/s (22.7 m³/s); minimum, 4.7 ft³/s (0.133 m³/s) Nov. 28, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 140 ft³/s (3.96 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Apr. 12	0700	501	14.2	4.08	1.24
May 4	0900	*1,460	41.3	6.61	2.015
Sept. 26	2000	180	5.10	3.47	1.06

Minimum, 18 ft³/s (0.510 m³/s) Feb. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	68	60	65	58	112	158	772	358	198	161	144
2	60	66	60	61	58	138	154	895	340	193	159	144
3	64	66	60	61	61	132	146	1040	328	188	159	144
4	66	66	60	62	54	125	152	1240	319	188	157	142
5	62	66	60	66	40	119	142	892	313	193	157	141
6	61	66	60	62	37	113	146	748	310	186	156	141
7	61	66	60	53	45	110	142	712	294	184	156	142
8	72	66	60	32	60	110	138	698	292	184	157	141
9	65	65	60	41	60	110	136	712	281	182	157	141
10	65	64	60	56	60	119	132	628	276	182	156	146
11	78	64	60	66	60	150	152	548	268	178	154	144
12	77	64	58	65	60	178	384	512	268	176	154	144
13	68	64	60	65	60	146	351	509	266	176	154	146
14	66	66	60	64	62	146	387	520	266	173	154	146
15	66	66	66	64	66	195	401	526	263	169	152	144
16	68	65	64	62	96	173	348	540	256	163	152	142
17	66	64	61	61	127	164	340	544	253	163	152	141
18	65	65	58	61	112	160	343	558	253	163	152	141
19	65	64	61	61	102	160	307	620	246	163	150	141
20	65	64	73	60	96	154	283	540	240	163	150	141
21	65	64	75	62	96	144	273	516	233	165	148	139
22	65	64	72	61	112	140	288	509	231	165	146	139
23	65	66	65	61	123	136	338	506	226	165	144	137
24	66	65	61	61	113	136	418	502	221	165	144	137
25	66	65	65	58	108	138	501	492	214	165	139	141
26	66	64	66	60	102	150	562	478	207	163	141	163
27	66	60	65	62	106	158	600	474	204	165	141	161
28	68	61	64	61	106	184	657	467	198	167	146	159
29	73	60	65	62	---	202	776	427	193	166	146	157
30	70	60	73	60	---	169	721	388	193	167	144	154
31	68	---	64	62	---	156	---	367	---	163	144	---
TOTAL	2058	1934	1956	1858	2240	4527	9876	18880	7810	5381	4682	4343
MEAN	66.4	64.5	63.1	59.9	80.0	146	329	609	260	174	151	145
MAX	78	68	75	66	127	202	776	1240	358	198	161	163
MIN	60	60	58	32	37	110	132	367	193	163	139	137
AC-FT	4080	3840	3880	3690	4440	8980	19590	37450	15490	10670	9290	8610
CAL YR 1981	TOTAL	28715	MEAN	78.7	MAX	295	MIN	58	AC-FT	56960		
WTR YR 1982	TOTAL	65545	MEAN	180	MAX	1240	MIN	32	AC-FT	130000		

BEAR RIVER BASIN

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10126000 BEAR RIVER NEAR CORINNE, UTAH

LOCATION.--Lat 41°34'35", long 112°06'00", in NE¼SE¼NE¼ sec.30, T.10 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on right bank 1.2 mi (1.9 km) downstream from Salt Creek, 2.0 mi (3.2 km) northeast of Corinne, and 2.8 mi (4.5 km) downstream from Malad River.

DRAINAGE AREA.--7,029 mi² (18,205 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1949 to September 1957, October 1963 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 4,204.6 ft (1,281.56 m), unadjusted. Auxiliary nonrecording gage 7,800 ft (2,380 m) downstream July 27, 1950 to Nov. 21, 1955.

REMARKS.--Records good except those for winter months, which are fair. Natural flow of stream affected by up-stream reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--27 years, 1,720 ft³/s (48.71 m³/s), 1,246,000 acre-ft/yr (1.54 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,880 ft³/s (223 m³/s) June 8, 1980, gage height, 15.87 ft (4.837 m); minimum daily, 72 ft³/s (2.04 m³/s) Aug. 20, 21, 26, Sept. 8, 1964, July 5, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,950 ft³/s (197 m³/s) May 8, gage height, 14.84 ft (4.523 m); minimum daily, 174 ft³/s (4.93 m³/s) Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	1300	436	1100	950	2200	2670	4680	4750	1180	1970	1210
2	174	481	459	1100	900	2100	3330	5070	4480	1150	1820	1570
3	342	648	924	900	900	2000	3250	5300	4200	1220	1480	1570
4	407	458	1140	700	900	2000	2980	5500	3990	1270	1330	1310
5	392	559	1120	600	800	2300	2920	5790	3780	1030	2130	1550
6	347	534	1170	500	600	2600	2840	6250	3700	499	1440	1450
7	912	709	886	500	500	2800	2710	6720	3640	576	1460	1240
8	563	617	796	500	500	2700	2660	6930	3580	537	1560	1300
9	433	610	741	500	500	2620	2640	6830	3390	308	632	1140
10	368	649	916	600	500	2310	2820	6580	3150	265	789	1530
11	988	1010	795	700	500	1970	2830	6320	3050	261	1070	1610
12	1360	923	1220	900	500	2140	2800	6120	2930	290	723	1770
13	1480	825	917	1100	500	2750	3030	5890	2810	713	350	1620
14	727	1540	861	1400	600	3170	3490	5580	2410	557	560	2090
15	1130	1510	727	1400	800	3490	3920	5260	2870	699	800	2190
16	1290	1170	1030	1400	1000	3610	4070	4930	2730	523	1020	1950
17	1650	911	1300	1200	1200	3820	4220	4700	3060	667	1460	2370
18	1890	1160	1570	1000	1600	4140	4380	4590	3060	335	1070	2150
19	1950	680	1670	1000	1600	4340	4140	4480	3050	372	612	2400
20	1680	933	1210	1000	1500	4350	3940	4450	3040	308	681	1670
21	1610	1160	967	1000	1500	4030	3780	4540	3010	256	836	2300
22	713	843	1260	1000	1600	3300	3690	4610	2250	272	775	2280
23	255	907	1470	1200	1700	2790	3610	4570	1920	272	642	2280
24	837	829	1680	1300	1700	2300	3560	4550	2310	272	387	2150
25	757	938	1670	1500	1500	2480	3470	4380	2380	310	744	2120
26	1250	1080	1140	1500	1600	2300	3410	4460	1960	342	908	2240
27	519	972	1460	1500	1700	2450	3620	4440	1770	352	706	2910
28	363	1410	1150	1200	1900	2440	3920	4220	1920	821	897	3240
29	810	821	1160	1000	---	2150	4020	4380	1770	1680	956	3520
30	558	642	1160	1000	---	2550	4290	4720	1750	2240	893	3730
31	1150	---	1100	1000	---	3060	---	4860	---	1860	972	---
TOTAL	27079	26829	34105	31300	30050	87260	103010	161700	88710	21437	31673	60460
MEAN	874	894	1100	1010	1073	2815	3434	5216	2957	692	1022	2015
MAX	1950	1540	1680	1500	1900	4350	4380	6930	4750	2240	2130	3730
MIN	174	458	436	500	500	1970	2640	4220	1750	256	350	1140
AC-FT	53710	53220	67650	62080	59600	173100	204300	320700	176000	42520	62820	119900
CAL YR 1981	TOTAL	333117	MEAN	913	MAX	3790	MIN	93	AC-FT	660700		
WTR YR 1982	TOTAL	703613	MEAN	1928	MAX	6930	MIN	174	AC-FT	1396000		

BEAR RIVER BASIN

10126000 BEAR RIVER NEAR CORINNE, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1973 to current year.

SPECIFIC CONDUCTANCE: April 1976 to September 1981, once daily (discontinued).

WATER TEMPERATURES: October 1974 to September 1981, once daily (discontinued).

SEDIMENT DATA: October 1976 to current year, periodically.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 6,140 micromhos July 5, 1979; minimum daily, 440 micromhos May 25, 1978.

WATER TEMPERATURES: Maximum, 30.0°C July 27, 28, 1978; minimum, 0.0°C on many days during winter period each year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT										
15...	1030	1340	1100	8.3	4.0	8.5	--	6.8	659	510
JAN										
12...	1000	1170	*1520	8.0	-15.0	.5	4.7	6.8	655	K2
MAR										
09...	1130	2550	1720	8.1	10.0	8.0	40	9.1	660	700
MAY										
17...	1600	4690	600	8.0	22.0	17.0	42	7.9	655	K26000
JUL										
08...	0900	653	1440	8.4	13.0	19.5	100	6.5	655	190
SEP										
13...	1400	1520	1100	8.2	13.5	16.0	36	7.5	655	190

DATE	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT									
15...	250	--	--	--	--	--	--	--	--
JAN									
12...	<1	390	52	86	43	180	49	4.0	18
MAR									
09...	270	340	42	71	40	130	44	3.4	14
MAY									
17...	95	220	19	53	21	47	31	1.5	5.7
JUL									
08...	260	250	20	58	26	210	63	6.3	12
SEP									
13...	890	310	50	61	39	100	40	2.8	9.9

DATE	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT									
15...	--	--	--	--	--	--	--	--	--
JAN									
12...	340	39	290	.4	17	918	878	1.3	2900
MAR									
09...	300	72	180	.5	16	692	704	.94	4760
MAY									
17...	200	34	65	.2	9.1	342	355	.47	4330
JUL									
08...	232	35	310	.2	11	809	802	1.1	1430
SEP									
13...	263	60	150	.2	15	606	593	.82	2490

* Laboratory value.

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

BEAR RIVER BASIN

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10126000 BEAR RIVER NEAR CORINNE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

		NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
	DATE									
	OCT 15...	.140	.18	.69	.57	.190	.58	.040	.060	.18
	JAN 12...	.360	.46	1.00	1.3	.420	1.3	.360	.120	.37
	MAR 09...	.250	.32	1.40	1.5	.210	.64	.220	.100	.31
	MAY 17...	.070	.09	1.40	.25	.230	.71	.070	.030	.09
	JUL 08...	.110	.14	.20	.55	.790	2.4	.150	.040	.12
	SEP 13...	.080	.10	1.60	.41	.110	.34	.060	.070	.21
			ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)
	DATE	TIME								
MAR 09...	1130		7	0	7	100	20	81	2	0
MAY 17...	1600		2	0	3	<100	--	58	<1	--
SEP 13...	1400		4	0	4	100	3	97	2	--
		CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)
	DATE									
MAR 09...	10	<10	<10	1	<1	9	7	2	1800	--
MAY 17...	<10	<10	<10	<1	<1	18	16	2	1500	--
SEP 13...	10	<10	<10	4	<1	4	1	3	1400	1400
		LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE 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- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
	DATE									
MAR 09...	7	--	--	<1	80	70	6	.2	--	<.1
MAY 17...	13	10	10	3	80	--	<3	2.1	.0	2.6
SEP 13...	6	3	3	3	70	70	4	.8	.0	1.1
		NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)
	DATE									
MAR 09...	0	2	2	1	0	1	<1	<1	110	80
MAY 17...	--	<1	<1	<1	--	<1	<1	<1	40	--
SEP 13...	--	<1	<1	1	0	1	<1	1	60	40

BEAR RIVER BASIN

10126000 BEAR RIVER NEAR CORINNE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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)
OCT 15...	1030	--	0	--	.0	--	1.0	--	.6	--	.9
MAR 09...	1130	<.10	--	<.01	--	<.10	--	<.01	--	<.01	--
MAY 17...	1600	.10	<1	<.01	<.1	<.10	<1.0	<.01	<.1	<.01	.1

DATE	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)
OCT 15...	--	.0	--	--	.0	--	--	.0	--	--
MAR 09...	<.01	--	.01	<.01	--	<.01	<.01	--	.00	<.01
MAY 17...	<.01	<.1	.02	<.01	<.1	<.01	<.01	<.1	<.01	<.01

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)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)
OCT 15...	.1	--	.0	--	.0	--	--	--	--	--
MAR 09...	--	<.01	--	<.01	--	.00	<.01	.00	.00	.00
MAY 17...	<.1	<.01	<.1	<.01	<.1	<.01	<.01	<.01	<.01	<.01

DATE	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PER- THANE IN BOTTOM MATERIAL (UG/KG)	2, 4-DP TOTAL (UG/L)
OCT 15...	--	.0	--	--	--	--	--	--	.0	--	.0	.00	--
MAR 09...	<1	--	.00	.04	<.01	<.01	<.10	<.10	--	<.01	--	--	<.01
MAY 17...	<1	<10	<.01	.05	<.01	<.01	<.10	<.10	<1.0	<.01	<.1	<1.00	<.01

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT 15...	1030	1340	8.5	432	80	1560
JAN 12...	1000	1170	.5	15	67	47
MAR 09...	1130	2550	8.0	179	95	1230
MAY 17...	1600	4690	17.0	139	86	1760
JUL 08...	0900	653	19.5	220	97	388

BEAR RIVER BASIN

317

10126180 SULPHUR CREEK NEAR CORINNE, UTAH

LOCATION.--Lat 41°34'25", long 112°13'07", in SW¼SE¼NE¼ sec.30, T.10 N., R.3 W., Box Elder County, Hydrologic Unit 16010204, on right bank 100 ft (30 m) downstream from bridge on State Highway 83 and 6 mi (10 km) northwest of Corinne.

DRAINAGE AREA.--15.4 mi² (39.9 km²).

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 fair.

AVERAGE DISCHARGE.--11 years, 65.5 ft³/s (1.85 m³/s), 47,450 acre-ft/yr (58.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 236 ft³/s (6.68 m³/s) Jan. 15, 1980, gage height, 2.98 ft (0.908 m); minimum, 8.6 ft³/s (0.244 m³/s) Feb. 8, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 175 ft³/s (4.96 m³/s) Mar. 17, gage height, 2.42 ft (0.738 m); minimum recorded, 8.8 ft³/s (0.249 m³/s) Jan. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	64	46	33	14	74	34	40	70	72	118	89
2	89	64	39	29	14	70	34	45	77	73	113	85
3	87	65	36	29	14	72	34	45	86	74	110	79
4	95	65	33	25	14	67	33	52	82	75	92	78
5	98	65	33	22	13	61	31	50	78	79	83	68
6	92	69	34	23	11	58	31	51	74	84	81	66
7	88	71	34	21	10	57	30	53	74	90	79	70
8	90	73	33	19	9.5	58	29	54	73	93	76	74
9	92	74	34	18	9.5	55	27	53	56	97	80	73
10	92	74	34	19	9.5	51	27	50	48	99	79	86
11	105	74	34	20	9.5	53	27	52	51	98	73	96
12	118	74	33	19	9.5	71	30	54	51	108	74	97
13	113	74	34	18	9.5	70	33	54	58	109	73	105
14	103	75	33	18	9.5	59	34	52	61	99	73	108
15	94	75	33	18	9.5	96	36	51	66	94	77	109
16	87	74	33	17	26	160	37	47	61	101	79	107
17	85	74	34	17	29	168	35	40	70	98	76	110
18	82	70	33	16	44	155	32	44	81	88	71	113
19	85	68	34	16	48	141	30	56	82	97	67	116
20	83	66	38	16	47	138	29	46	80	98	67	119
21	80	66	39	15	49	102	29	41	78	93	69	116
22	74	66	39	15	57	90	27	42	74	92	71	104
23	73	66	40	15	75	80	27	42	70	94	78	100
24	73	68	41	15	83	65	27	39	69	89	77	98
25	70	69	39	15	84	51	27	50	70	100	79	99
26	68	69	37	15	79	42	26	54	71	105	85	122
27	70	69	36	15	78	37	16	51	73	106	89	155
28	71	69	36	15	80	33	14	53	72	110	92	144
29	69	63	33	15	---	36	22	60	71	126	95	139
30	68	48	31	15	---	33	22	62	70	123	97	117
31	65	---	33	15	---	33	---	65	---	118	97	---
TOTAL	2646	2061	1099	578	945.0	2336	870	1548	2097	2982	2570	3042
MEAN	85.4	68.7	35.5	18.6	33.8	75.4	29.0	49.9	69.9	96.2	82.9	101
MAX	118	75	46	33	84	168	37	65	86	126	118	155
MIN	65	48	31	15	9.5	33	14	39	48	72	67	66
AC-FT	5250	4090	2180	1150	1870	4630	1730	3070	4160	5910	5100	6030

CAL YR 1981 TOTAL 22885.0 MEAN 62.7 MAX 118 MIN 28 AC-FT 45390
WTR YR 1982 TOTAL 22774.0 MEAN 62.4 MAX 168 MIN 9.5 AC-FT 45170

BEAR RIVER BASIN

10127040 SALT SPRING NEAR TREMONTON, UTAH

LOCATION.--Lat 41°42'44", Long 112°13'38", in SW¼SE¼, sec.6, T.11 N., R.3 W., Box Elder County, Hydrologic Unit 16010204, 3 mi (5 km) west of Tremonton.

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

REMARKS.--Records fair. Record is computed by subtracting water diverted from the West Side Canal into Salt Spring from the record for station 10127050.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 32 ft³/s (0.91 m³/s) July 24-29, 1979; minimum daily, 17 ft³/s (0.48 m³/s) Nov. 14-20, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 25 ft³/s (0.71 m³/s) many days in June, August, and September; minimum daily, 18 ft³/s (0.51 m³/s) many days in January, February, and March.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	21	22	22	18	18	19	21	21	24	25	25
2	21	21	22	22	18	18	19	21	21	24	25	25
3	21	21	23	22	18	18	19	21	21	24	25	25
4	21	21	23	21	18	18	19	21	21	24	25	25
5	21	21	22	21	18	18	19	21	21	24	25	25
6	21	21	22	21	18	18	19	21	22	24	25	25
7	21	21	22	21	18	18	19	21	22	24	25	25
8	21	21	22	21	18	18	19	21	22	24	25	25
9	21	21	22	21	18	18	19	21	22	24	25	25
10	21	21	22	21	18	18	19	21	22	24	25	25
11	21	21	22	20	18	18	20	20	22	24	25	25
12	21	21	22	20	18	18	20	20	23	24	25	25
13	21	21	22	20	18	18	20	20	23	24	25	25
14	21	21	22	20	18	18	20	20	24	24	25	25
15	21	21	23	20	18	18	20	20	23	24	25	25
16	21	22	22	20	18	18	20	20	23	24	25	25
17	21	22	22	20	18	18	20	21	24	24	25	25
18	21	22	22	19	18	18	20	21	24	24	25	25
19	21	22	22	19	18	18	20	21	24	24	25	25
20	21	22	22	19	18	18	21	21	24	24	25	25
21	21	22	22	19	18	18	21	21	24	24	25	25
22	21	22	22	19	18	18	21	21	24	24	25	25
23	21	22	22	19	18	18	21	21	24	24	25	25
24	21	22	22	19	18	18	21	22	24	24	25	25
25	21	22	22	19	18	18	21	21	24	24	25	25
26	21	22	22	19	18	20	21	22	24	24	25	25
27	21	22	22	19	18	20	21	22	25	24	25	25
28	21	22	22	19	18	19	21	21	25	24	25	25
29	21	22	22	18	---	20	22	21	24	24	25	25
30	21	22	22	18	---	20	22	21	24	24	25	25
31	21	---	22	18	---	20	---	21	---	24	25	---
TOTAL	651	645	685	616	504	569	603	648	691	744	775	750
MEAN	21.0	21.5	22.1	19.9	18.0	18.4	20.1	20.9	23.0	24.0	25.0	25.0
MAX	21	22	23	22	18	20	22	22	25	24	25	25
MIN	21	21	22	18	18	18	19	20	21	24	25	25
AC-FT	1290	1280	1360	1220	1000	1130	1200	1290	1370	1480	1540	1490
CAL YR 1981	TOTAL	7702	MEAN 21.1	MAX 23	MIN 18	AC-FT	15280					
WTR YR 1982	TOTAL	7881	MEAN 21.6	MAX 25	MIN 18	AC-FT	15630					

BEAR RIVER BASIN

319

10127050 SALT CREEK BELOW SALT SPRING, NEAR TREMONTON, UTAH

LOCATION.--Lat 41°42'41", long 112°13'36", in SW¼SE¼, sec.6, T.11 N., R.3 W., Box Elder County, Hydrologic Unit 16010204, on right bank 250 ft (76 m) below Salt Spring and 3 mi (5 km) west of Tremonton.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,280 ft (1,305 m) from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 184 ft³/s (5.21 m³/s) Feb. 18, 1980, gage height, 6.12 ft (1.865 m); minimum, 19 ft³/s (0.54 m³/s) Apr. 29-30, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 127 ft³/s (3.60 m³/s) Sept. 26, gage height, 4.54 ft (1.384 m); minimum daily, 18 ft³/s (0.51 m³/s) many days in January, February, and March.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	40	45	22	18	18	19	21	44	24	88	29
2	91	39	27	22	18	22	19	21	75	24	70	32
3	94	37	23	22	18	23	19	21	77	24	60	31
4	95	37	23	21	18	22	19	21	68	38	37	34
5	94	37	22	21	18	22	19	21	52	51	27	36
6	89	36	22	21	18	23	19	21	41	49	26	38
7	91	36	22	21	18	22	19	21	47	44	26	35
8	91	36	22	21	18	22	19	21	35	47	46	35
9	85	36	22	21	18	18	19	21	24	61	56	37
10	82	36	22	21	18	18	19	21	23	65	36	52
11	85	36	22	20	18	18	20	20	22	55	34	48
12	88	36	22	20	18	18	20	20	23	58	38	58
13	81	36	22	20	18	18	20	20	23	44	36	70
14	79	35	22	20	18	18	20	20	24	31	30	51
15	73	35	23	20	18	36	20	20	23	36	32	50
16	58	35	22	20	18	41	20	20	23	43	32	59
17	57	69	22	20	18	32	20	21	24	37	29	65
18	56	80	22	19	18	27	20	55	24	37	32	67
19	52	69	22	19	18	25	20	21	24	47	31	67
20	48	67	22	19	18	25	21	21	24	50	32	67
21	52	66	22	19	18	23	21	21	24	47	34	66
22	50	66	22	19	18	22	21	21	24	41	35	61
23	41	67	22	19	18	22	21	21	24	47	34	57
24	41	67	22	19	18	21	21	22	24	52	36	61
25	41	67	22	19	18	21	21	21	24	110	34	69
26	41	68	22	19	18	20	21	22	24	98	29	102
27	41	68	22	19	18	20	21	22	25	90	32	63
28	41	66	22	19	18	19	21	37	25	93	56	51
29	39	63	22	18	---	20	22	21	24	116	67	60
30	40	70	22	18	---	20	22	21	24	109	59	65
31	40	---	22	18	---	20	---	25	---	102	41	---
TOTAL	2047	1536	713	616	504	696	603	702	962	1770	1255	1616
MEAN	66.0	51.2	23.0	19.9	18.0	22.5	20.1	22.6	32.1	57.1	40.5	53.9
MAX	95	80	45	22	18	41	22	55	77	116	88	102
MIN	39	35	22	18	18	18	19	20	22	24	26	29
AC-FT	4060	3050	1410	1220	1000	1380	1200	1390	1910	3510	2490	3210

CAL YR 1981 TOTAL 14420 MEAN 39.5 MAX 100 MIN 20 AC-FT 28600
WTR YR 1982 TOTAL 13020 MEAN 35.7 MAX 116 MIN 18 AC-FT 25830

BEAR RIVER BASIN

10127100 BLACK SLOUGH NEAR BRIGHAM CITY, UTAH

LOCATION.--Lat 41°30'36", long 112°03'34", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ 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 mi² (80.5 km²).

PERIOD OF RECORD.--September 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,210 ft (1,283 m) from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--11 years, 43.5 ft³/s (1.232 m³/s), 31,520 acre-ft/yr (38.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD (REVISED).--Maximum discharge, 171 ft³/s (4.84 m³/s) Mar. 11, 1973, gage height, 3.78 ft (1.152 m); minimum, 2.7 ft³/s (0.076 m³/s) July 14, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 165 ft³/s (4.67 m³/s) Sept. 30, gage height, 4.00 ft (1.219 m); minimum, 8.7 ft³/s (0.25 m³/s) June 29, 30.

REVISIONS.--The maximum discharge, as previously published in reports for 1976 to 1981, has been revised to 171 ft³/s (4.84 m³/s) Mar. 11, 1973, gage height, 3.78 ft (1.152 m), which was established in 1973 and published in reports for 1973 to 1975.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	39	44	81	55	110	112	84	32	12	51	43
2	32	39	43	90	54	110	112	76	35	14	44	41
3	35	39	42	90	53	111	110	74	42	14	38	42
4	33	39	44	92	49	110	106	88	38	12	33	41
5	34	39	44	80	40	111	103	91	29	20	29	35
6	38	39	45	70	38	109	101	90	36	26	27	35
7	41	40	46	80	38	108	100	88	49	25	25	36
8	38	40	48	63	39	107	96	76	41	24	20	37
9	41	41	47	57	40	106	92	67	36	28	19	38
10	45	42	47	53	42	104	86	82	34	37	19	41
11	52	42	47	44	43	106	82	92	32	34	16	52
12	58	42	45	40	40	117	89	91	30	32	14	55
13	60	45	44	39	39	115	96	80	30	28	12	57
14	60	45	45	38	40	116	96	65	25	23	12	63
15	55	46	48	39	41	132	94	53	28	21	15	66
16	55	47	50	41	64	137	92	40	33	23	20	67
17	56	47	52	45	87	141	90	32	32	22	20	64
18	56	47	51	46	90	141	86	28	28	17	19	56
19	56	46	50	48	95	146	82	38	25	16	19	58
20	55	45	57	50	99	145	80	63	20	17	19	61
21	54	44	65	51	107	143	77	64	18	15	19	60
22	53	44	72	53	115	141	73	45	16	15	20	46
23	51	44	76	57	121	138	69	35	14	14	21	39
24	48	46	77	56	121	134	68	28	13	15	22	36
25	46	48	74	54	119	131	65	25	12	19	20	38
26	45	50	68	54	116	127	65	25	12	25	22	87
27	43	50	63	56	115	124	65	25	11	26	26	144
28	42	50	57	57	112	120	71	32	10	30	30	143
29	41	48	54	57	---	118	77	38	9.3	38	37	157
30	40	46	63	56	---	118	83	39	8.9	51	41	162
31	40	---	74	56	---	116	---	36	---	56	44	---
TOTAL	1431	1319	1682	1793	2012	3792	2618	1790	779.2	749	773	1900
MEAN	46.2	44.0	54.3	57.8	71.9	122	87.3	57.7	26.0	24.2	24.9	63.3
MAX	60	50	77	92	121	146	112	92	49	56	51	162
MIN	28	39	42	38	38	104	65	25	8.9	12	12	35
AC-FT	2840	2620	3340	3560	3990	7520	5190	3550	1550	1490	1530	3770

CAL YR 1981 TOTAL 13421.6 MEAN 36.8 MAX 104 MIN 3.7 AC-FT 26620
WTR YR 1982 TOTAL 20638.2 MEAN 56.5 MAX 162 MIN 8.9 AC-FT 40940

BEAR RIVER BASIN

321

10127110 BEAR RIVER BASIN OUTFLOW ACROSS STATE HIGHWAY 83, NEAR CORINNE, UTAH

LOCATION.--Records of discharge are collected at 3 continuous recording gaging stations (see stations 10126000, 10126180, and 10127100) and 46 culvert or bridge openings which cross State Highway 83 from Brigham City on the east to the base of Little Mountain 7.2 mi (11.6 km) west of Corinne.

PERIOD OF RECORD.--October 1971 to current year.

REMARKS.--Records good. Three of the culvert crossings are distributaries of canals. Flow through the other openings generally is determined by current meter measurements, discharge based on computerized ratings for flow through culverts, or field estimates. Records for station 10127100 Black Slough are collected at a bridge crossing on county road about 2 mi (3.2 km) downstream from State Highway 83 in order to include Box Elder Creek. Most of the flow that crosses Highway 83 is included in records for station 10126000 Bear River near Corinne.

AVERAGE DISCHARGE.--11 years, 2,033 ft³/s (57.6 m³/s), 1,473,000 acre-ft/yr (1.82 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 8,440 ft³/s (239 m³/s) June 8, 1980; minimum daily, 240 ft³/s (6.80 m³/s) Apr. 26, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 7,110 ft³/s (201 m³/s) May 8; minimum daily, 437 ft³/s (12.4 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	437	1500	595	1260	1060	2460	2940	4860	5040	1480	2410	1520
2	443	683	610	1270	1010	2360	3600	5250	4780	1450	2250	1880
3	612	850	1070	1070	1010	2260	3510	5480	4510	1530	1900	1880
4	686	660	1280	864	1000	2270	3230	5700	4290	1580	1720	1610
5	673	759	1260	749	891	2560	3160	5990	4070	1350	2500	1840
6	620	736	1310	639	686	2860	3080	6450	3990	839	1810	1740
7	1190	913	1030	647	588	3070	2940	6920	3940	923	1820	1560
8	834	823	938	627	591	2970	2890	7110	3870	886	1910	1620
9	709	817	882	620	594	2880	2860	7000	3660	673	980	1480
10	648	857	1060	712	598	2580	3020	6760	3410	641	1130	1890
11	1290	1220	935	804	599	2240	3030	6510	3310	635	1400	2010
12	1680	1130	1360	994	599	2440	3010	6310	3190	677	1050	2180
13	1800	1030	1050	1190	598	3060	3250	6070	3080	1100	671	2060
14	1030	1750	997	1490	699	3470	3710	5740	2670	928	879	2530
15	1420	1720	865	1490	899	3840	4140	5410	3140	1070	1120	2660
16	1570	1380	1170	1490	1140	4040	4280	5060	3000	904	1350	2420
17	1930	1120	1440	1300	1370	4260	4430	4810	3340	1050	1780	2860
18	2170	1360	1710	1100	1780	4570	4580	4700	3350	699	1380	2640
19	2230	876	1810	1110	1790	4770	4320	4610	3340	746	917	2910
20	1950	1130	1360	1110	1700	4770	4120	4590	3320	689	984	2190
21	1870	1350	1130	1110	1710	4420	3960	4680	3300	633	1140	2840
22	969	1030	1430	1110	1820	3680	3850	4730	2530	648	1080	2790
23	507	1100	1640	1310	1950	3150	3770	4680	2190	651	948	2800
24	1080	1020	1850	1410	1960	2640	3720	4640	2590	652	691	2670
25	990	1130	1840	1610	1760	2810	3620	4480	2660	707	1040	2660
26	1480	1280	1300	1600	1860	2610	3560	4730	2240	750	1210	2850
27	743	1170	1610	1610	1960	2750	3760	4700	2060	764	1020	3630
28	586	1600	1290	1310	2160	2730	4070	4490	2210	1240	1210	3950
29	1030	1010	1300	1110	---	2440	4180	4670	2060	2120	1270	4230
30	771	809	1300	1110	---	2840	4460	5010	2040	2690	1210	4420
31	1360	---	1260	1110	---	3340	---	5150	---	2310	1290	---
TOTAL	35308	32813	38682	34936	34382	97140	109050	167290	97180	33015	42070	74320
MEAN	1139	1094	1248	1127	1228	3134	3635	5396	3239	1065	1357	2477
MAX	2230	1750	1850	1610	2160	4770	4580	7110	5040	2690	2500	4420
MIN	437	660	595	620	588	2240	2860	4480	2040	633	671	1480
AC-FT	70030	65080	76730	69300	68200	192700	216300	331800	192800	65490	83450	147400
CAL YR 1981	TOTAL	410105	MEAN	1124	MAX	4150	MIN	342	AC-FT	813400		
WTR YR 1982	TOTAL	796186	MEAN	2181	MAX	7110	MIN	437	AC-FT	1579000		

WEBER RIVER BASIN

10128000 SMITH AND MOREHOUSE CREEK NEAR OAKLEY, UTAH

LOCATION.--Lat 40°47'09", Long 111°06'42", in NW 1/4 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 mi² (87.5 km²).

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.--8 years, 52.5 ft³/s (1.487 m³/s), 38,040 acre-ft/yr (46.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 569 ft³/s (16.1 m³/s) June 23, 1982, gage height, 5.15 ft (1.570 m); minimum, 6.8 ft³/s (0.19 m³/s) Jan. 3, Apr. 21, Sept. 22, 23, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 569 ft³/s (16.1 m³/s) June 23, gage height, 5.15 ft (1.570 m); minimum daily, 11 ft³/s (0.312 m³/s) Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	24	18	15	14	16	15	131	255	360	56	48
2	11	24	19	15	14	15	15	142	227	258	54	43
3	16	24	19	16	14	15	15	204	230	264	52	38
4	24	20	18	16	14	15	16	264	264	240	50	34
5	20	24	18	16	14	15	16	264	270	211	47	23
6	18	24	18	16	14	15	16	217	227	162	45	15
7	18	24	17	16	14	15	16	194	204	141	42	17
8	24	23	16	16	14	15	15	182	204	139	42	16
9	24	22	16	16	14	15	15	170	220	124	42	15
10	20	21	16	15	14	15	16	150	308	81	40	20
11	28	21	16	15	14	16	16	142	320	121	38	27
12	28	19	16	15	13	16	21	135	348	109	37	19
13	28	21	16	15	13	16	24	129	332	131	38	19
14	27	21	16	15	13	16	26	109	291	139	37	23
15	26	21	16	15	13	16	27	109	276	121	32	26
16	26	21	16	15	14	16	28	129	316	123	32	29
17	26	21	16	15	14	16	30	139	372	127	33	29
18	26	21	16	15	14	16	30	194	385	108	31	28
19	26	18	16	15	13	15	30	270	395	99	27	24
20	26	21	16	14	14	15	30	225	385	95	25	27
21	27	21	16	14	14	15	31	227	368	93	24	28
22	27	21	16	14	14	15	31	270	430	88	24	24
23	27	20	16	14	14	15	32	303	460	84	23	23
24	27	20	16	15	14	15	34	339	405	80	23	20
25	26	19	16	15	15	15	36	330	400	76	23	23
26	25	18	16	14	15	16	39	375	360	71	23	37
27	24	18	16	14	15	16	45	404	390	66	21	66
28	24	17	16	14	16	16	50	398	425	66	21	80
29	25	17	16	14	---	16	59	333	390	62	21	83
30	24	17	16	14	---	15	119	300	348	61	19	86
31	19	---	16	14	---	16	---	249	---	60	34	---
TOTAL	728	623	511	462	392	479	893	7027	9805	3960	1056	990
MEAN	23.5	20.8	16.5	14.9	14.0	15.5	29.8	227	327	128	34.1	33.0
MAX	28	24	19	16	16	16	119	404	460	360	56	86
MIN	11	17	16	14	13	15	15	109	204	60	19	15
AC-FT	1440	1240	1010	916	778	950	1770	13940	19450	7850	2090	1960

CAL YR 1981 TOTAL 16832 MEAN 46.1 MAX 397 MIN 10 AC-FT 33390
WTR YR 1982 TOTAL 26926 MEAN 73.8 MAX 460 MIN 11 AC-FT 53410

WEBER RIVER BASIN

323

10128500 WEBER RIVER NEAR OAKLEY, UTAH

LOCATION.--Lat 40°44'14", long 111°14'50", in SE¼NE¼ sec.15, T.1 S., R.6 E., Summit County, Hydrologic Unit 16020101, on right bank 1.5 mi (2.4 km) downstream from South Fork, 2.2 mi (3.5 km) upstream from Weber-Provo diversion canal, and 3.2 mi (5.1 km) northeast of Oakley.

DRAINAGE AREA.--162 mi² (420 km²).

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. 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 hm³).

AVERAGE DISCHARGE.--78 years, 219 ft³/s (6.202 m³/s), 158,700 acre-ft/yr (196 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,170 ft³/s (118 m³/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 ft³/s (56.6 m³/s); minimum observed, 15 ft³/s (0.425 m³/s) Dec. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,200 ft³/s (34.0 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 28	0430	*1650	46.7	7.56	2.304
June 22	2045	1560	44.2	7.47	2.277

Minimum daily, 48 ft³/s (1.359 m³/s) Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	87	59	63	54	67	74	628	996	1160	209	127
2	51	87	66	53	58	70	78	780	912	997	206	125
3	66	87	68	61	59	67	72	945	896	967	196	122
4	94	82	64	63	52	67	72	1020	982	900	188	114
5	81	87	66	65	48	65	69	975	998	809	174	107
6	70	83	65	59	53	66	72	855	900	668	167	97
7	69	78	64	52	58	64	70	787	794	627	162	106
8	84	76	63	58	54	65	69	750	787	620	158	99
9	84	78	64	61	54	67	65	712	804	557	160	91
10	77	75	65	63	57	68	69	620	952	493	151	114
11	120	72	65	64	56	74	81	557	1100	514	145	135
12	102	74	61	63	57	79	156	514	1190	480	143	107
13	94	73	65	62	60	71	153	493	1180	487	139	111
14	93	72	62	65	64	76	162	507	1160	463	137	122
15	90	77	66	63	66	78	167	564	1100	421	131	133
16	96	79	63	64	65	74	165	613	1180	392	125	135
17	94	79	55	63	62	73	167	668	1320	357	131	133
18	94	75	56	63	60	72	169	826	1350	338	122	122
19	93	70	64	61	57	72	158	960	1330	313	120	109
20	91	73	69	60	60	73	149	839	1320	309	120	122
21	91	77	65	60	62	65	149	872	1250	289	123	120
22	88	71	60	55	65	69	162	975	1360	303	120	109
23	87	74	53	53	69	67	191	1070	1380	303	113	104
24	85	78	57	67	62	68	231	1200	1330	273	118	99
25	85	71	60	62	65	69	273	1200	1280	273	120	102
26	85	64	58	61	64	72	303	1280	1250	296	120	201
27	85	66	62	59	67	73	327	1390	1310	286	118	396
28	84	63	58	54	65	77	388	1510	1340	276	113	323
29	99	58	66	61	---	78	463	1220	1240	257	118	296
30	93	58	64	58	---	73	521	1140	1220	237	113	302
31	80	---	62	64	---	71	---	999	---	225	111	---
TOTAL	2656	2244	1935	1880	1673	2190	5245	27469	34211	14890	4371	4383
MEAN	85.7	74.8	62.4	60.6	59.8	70.6	175	886	1140	480	141	146
MAX	120	87	69	67	69	79	521	1510	1380	1160	209	396
MIN	51	58	53	52	48	64	65	493	787	225	111	91
AC-FT	5270	4450	3840	3730	3320	4340	10400	54480	67860	29530	8670	8690

CAL YR 1981	TOTAL	63290	MEAN 173	MAX 1550	MIN 42	AC-FT 125500
WTR YR 1982	TOTAL	103147	MEAN 283	MAX 1510	MIN 48	AC-FT 204600

WEBER RIVER BASIN

10129400 ROCKPORT RESERVOIR NEAR WANSHIP, UTAH

LOCATION.--Lat 40°47'25", long 111°24'12", in NW¼NW¼SE¼ sec.29, T.1 N., R.5 E., Summit County, Hydrologic Unit 16020101, in powerhouse on downstream side of dam on Weber River, 1.2 mi (1.9 km) south of Wanship and 1.2 mi (1.9 km) upstream from Silver Creek.

DRAINAGE AREA.--334 mi² (865 km²).

PERIOD OF RECORD.--February 1957 to current year. Month-end contents only prior to October 1960, published in WSP 1734.

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

GAGE.--Mercury gage in powerhouse read once daily. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill rock-faced dam; storage began in fall of 1956; dam completed March 1957. Usable capacity, 60,860 acre-ft (75.1 hm³) 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 hm³). Figures given herein represent usable contents. Water is used for irrigation, domestic, and industrial purposes.

COOPERATION.--Capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 65,030 acre-ft (80.2 hm³) June 24, 27, 28, 1967; minimum observed since storage began, 152 acre-ft (0.19 hm³) Sept. 10, 15, 1959, elevation, 5,931.2 ft (1,807.46 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 62,820 acre-ft (77.5 hm³) July 6, elevation, 6,038.8 ft (1,840.63 m); minimum observed, 27,520 acre-ft (33.9 hm³) Apr. 10, 11; elevation, 5,999.1 ft (1,828.53 m).

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

5,999	27,450	6,030	53,600
6,010	35,660	6,040	64,140
6,020	44,110		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43660	40860	38670	37600	35270	29950	28360	34400	44920	61940	61080	57470
2	43400	40690	38590	37680	35110	29880	28290	35190	46200	62490	60860	57270
3	43220	40600	38500	37680	34870	29880	28150	36060	47400	62600	60860	57060
4	43040	40600	38420	37680	34640	29800	28150	37350	48720	62710	60860	56950
5	43040	40520	38420	37760	34400	29660	28080	38170	50160	62710	60650	56850
6	43040	40430	38340	37680	34090	29440	28010	38750	51810	62820	60540	56750
7	42780	40350	38250	37760	33780	29300	27870	38590	52700	62600	60430	56640
8	42600	40350	38170	37680	33550	29150	27800	38090	54000	62490	60430	56540
9	42510	40260	38010	37680	33320	28930	27660	37600	53900	62490	60330	56440
10	42340	40180	37930	37680	33090	28720	27520	36870	53900	62380	60330	56330
11	42250	40090	37840	37680	32780	28580	27520	36060	54200	62270	60220	56640
12	42420	40010	37680	37760	32560	28720	27730	35190	54700	62160	60110	56640
13	42420	39920	37600	37760	32250	28860	28720	33940	55510	62160	60000	56640
14	42340	39840	37430	37760	32030	28860	29220	32560	56330	62050	59900	56950
15	42250	39760	37350	37680	31800	29010	29580	32480	56850	61940	59790	57160
16	42160	39760	37270	37600	31580	29220	29950	32480	56850	61730	59790	57470
17	42250	39670	37270	37520	31430	29220	29800	32560	57160	61620	59680	57470
18	42160	39590	37270	37430	31200	29150	30540	32710	57890	61510	59580	57580
19	42070	39500	37270	37430	31050	29080	30760	32860	58410	61400	59470	57580
20	41990	39420	37270	37350	30910	29010	30830	34090	58730	61290	59370	57580
21	41810	39420	37350	37350	30760	28860	30830	33940	59150	61190	59260	57680
22	41640	39420	37350	37190	30540	28720	30760	33940	59370	61080	59050	57780
23	41550	39340	37350	36950	30460	28580	30760	34010	60000	61080	58840	57780
24	41380	39340	37270	36790	30460	28360	30830	34330	60650	60860	58620	57890
25	41210	39250	37270	36540	30390	28150	31050	34950	60860	60860	58410	57890
26	41030	39170	37350	36380	30240	28080	31430	35500	60970	60860	58310	57990
27	40860	39080	37430	36300	30170	28150	31800	37270	60860	60860	58200	59790
28	40780	39080	37430	36060	30020	28220	32330	39840	60970	60970	57990	60750
29	40780	38920	37520	35900	---	28510	33010	41990	61190	60970	57890	61510
30	40860	38830	37520	35660	---	28510	33700	43310	61510	61080	57680	61940
31	40860	---	37520	35500	---	28360	---	44380	---	61190	57580	---
MAX	43660	40860	38670	37760	35270	29950	33700	44380	61510	62820	61080	61940
MIN	40780	38830	37270	35500	30020	28080	27520	32480	44920	60860	57580	56330
(+)	6016.3	6013.9	6012.3	6009.8	6002.6	6000.3	6007.5	6020.3	6037.6	6037.3	6033.9	6038.0
(-)	-3070	-2030	-1310	-2020	-5480	-1660	+5340	+10680	+17130	-320	-3610	+4360

CAL YR 1981 (+) -2830

WTR YR 1982 (+) +18010

(+) ELEVATION, IN FEET, AT END OF MONTH
(-) CHANGE IN CONTENTS, IN ACRE-Feet

WEBER RIVER BASIN

325

10130000 SILVER CREEK NEAR WANSHIP, UTAH

LOCATION.--Lat 40°45'25", long 111°28'15", in SW 1/4 NW 1/4 sec.2, T.1 S., R.4 E., Summit County, Hydrologic Unit 16020101, on right bank 10 ft (3.05 m) downstream from culvert at crossover between Interstate 80 lanes, 4 mi (6.44 km) upstream from mouth, 4.5 mi (7.24 km) southwest of Wanship.

DRAINAGE AREA.--25.8 mi² (66.8 km²).

PERIOD OF RECORD.--October 1941 to September 1946, July to September 1982.

GAGE.--Water-stage recorder. Altitude of gage is 6,360 ft (1,938.5 m) from topographic map. October 1941 to September 1946, water-stage recorder at approximately same site at different datum.

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

AVERAGE DISCHARGE.--5 years (1941-46), 7.00 ft³/s (0.198 m³/s), 5,070 acre-ft/yr (6.25 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 430 ft³/s (12.2 m³/s) Apr. 4, 1942, gage height, 4.28 ft (1.304 m); minimum, practically no flow at times in 1942 and 1943.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										---	3.7	.96
2										---	2.7	.87
3										---	2.4	.96
4										---	1.9	1.2
5										---	1.8	1.1
6										---	2.0	1.4
7										---	1.8	1.3
8										---	2.2	1.1
9										---	2.6	1.1
10										---	2.0	2.4
11										---	2.0	5.3
12										---	1.9	3.3
13										---	1.6	5.3
14										---	2.0	8.5
15										---	2.0	6.8
16										---	2.0	4.7
17										---	1.7	3.7
18										---	1.6	3.2
19										---	1.6	2.7
20										---	1.4	2.8
21										---	1.2	2.7
22										---	1.2	2.4
23										---	1.1	2.2
24										---	1.2	1.9
25										---	1.0	2.0
26										---	1.0	14
27										---	1.1	49
28										---	1.2	25
29										11	1.4	22
30										6.3	1.4	33
31										4.3	1.0	---
TOTAL										---	53.7	212.89
MEAN										---	1.73	7.10
MAX										---	3.7	49
MIN										---	1.0	.87
AC-FT										---	107	422

WEBER RIVER BASIN

10130000 SILVER CREEK NEAR WANSHIP, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July to September 1982.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
SEP 09...	1050	1.0	800	8.6	17.5	320	120	90	24	32	17	.8
DATE		POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
SEP 09...		4.1	206	96	62	.2	44	477	.65	1.3	.10	.060
DATE	TIME			ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, DIS- SOLVED (UG/L AS ZN)		
SEP 09...	1050			23	140	<1	7	3	29	300		

WEBER RIVER BASIN

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10130500 WEBER RIVER NEAR COALVILLE, UTAH

LOCATION.--Lat 40°53'43", long 111°24'04", in NE¼SW¼NE¼ sec.20, T.2 N., R.5 E., Summit County, Hydrologic Unit 16020101, on left bank 1.2 mi (1.9 km) upstream from high-water line of Echo Reservoir, 1.4 mi (2.3 km) south of Coalville, 1.7 mi (2.7 km) upstream from Chalk Creek, and 5.5 mi (8.8 km) downstream from Silver Creek.

DRAINAGE AREA.--435 mi² (1,127 km²).

PERIOD OF RECORD.--April 1927 to current year.

REVISED RECORDS.--WSP 1314: 1943(M). WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,600 ft (1,707 m) from topographic map. Prior to Mar. 22, 1931, nonrecording gage, Mar. 22, 1931 to July 18, 1967, water-stage recorder at same site at different datum.

REMARKS.--Records good. Many diversions for irrigation above station. No diversion between station and Echo Reservoir. Records do not include water diverted from Weber River basin through Weber-Provo diversion canal. Flow regulated by several small reservoirs above station, and since Apr. 1, 1957, by Rockport Reservoir (see station 10129400).

AVERAGE DISCHARGE.--51 years, 200 ft³/s (5.66 m³/s), 144,900 acre-ft/yr (179 hm³/yr), since completion of Weber-Provo diversion canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,190 ft³/s (62.0 m³/s) May 6, 1952; maximum gage height, 5.08 ft (1.55 m) (present datum) May 29, 1951; minimum, 6 ft³/s (0.17 m³/s) Sept. 20, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,320 ft³/s (37.4 m³/s) May 10, gage height, 4.35 ft (1.326 m); minimum, 86 ft³/s (2.436 m³/s) Dec. 18, 19, and July 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	162	137	138	104	188	224	222	638	504	1020	191	145
2	162	136	139	102	187	227	222	744	340	989	177	145
3	165	135	140	104	188	224	222	824	277	914	167	145
4	174	135	142	105	188	224	224	960	192	897	144	145
5	174	135	140	105	170	219	219	1060	184	920	135	145
6	170	135	140	107	168	216	222	1130	187	886	135	142
7	174	135	142	105	180	216	222	1290	222	736	134	160
8	179	135	142	103	179	213	219	1270	574	657	137	150
9	182	136	139	102	177	213	224	1290	736	643	136	145
10	184	137	141	106	183	213	216	1310	726	592	137	162
11	202	136	142	111	189	219	230	1190	721	534	137	170
12	195	137	141	107	192	213	416	1310	721	508	141	150
13	187	136	142	102	200	224	379	1300	721	443	136	170
14	187	138	139	110	208	227	361	1020	864	357	136	185
15	187	140	145	113	217	236	326	731	1010	412	136	180
16	200	139	133	135	213	236	284	726	1000	368	139	180
17	195	139	94	135	203	227	268	726	1000	309	146	175
18	189	143	96	135	207	224	268	731	1020	274	148	170
19	187	142	95	135	204	222	281	741	1200	247	147	170
20	187	141	108	136	218	222	343	864	1200	210	145	166
21	186	141	112	156	238	219	350	989	1190	189	145	166
22	183	140	106	177	236	219	361	989	1110	169	145	167
23	181	139	102	181	238	238	382	989	1070	151	145	168
24	182	140	107	182	230	259	401	989	1260	149	146	166
25	179	139	103	182	224	236	412	989	1290	146	147	168
26	179	139	102	185	224	222	416	847	1310	174	149	206
27	160	138	100	189	227	227	423	364	1260	190	148	242
28	133	137	109	194	224	236	425	513	1230	214	145	234
29	140	137	106	188	---	238	469	669	1200	220	146	347
30	138	138	107	198	---	227	530	662	1030	199	144	527
31	137	---	111	190	---	222	---	662	---	188	145	---
TOTAL	5440	4135	3803	4284	5700	6982	9537	28517	25349	13905	4509	5591
MEAN	175	138	123	138	204	225	318	920	845	449	145	186
MAX	202	143	145	198	238	259	530	1310	1310	1020	191	527
MIN	133	135	94	102	168	213	216	364	184	146	134	142
AC-FT	10790	8200	7540	8500	11310	13850	18920	56560	50280	27580	8940	11090

CAL YR 1981 TOTAL 58519 MEAN 160 MAX 1320 MIN 22 AC-FT 116100
WTR YR 1982 TOTAL 117752 MEAN 323 MAX 1310 MIN 94 AC-FT 233600

10131000 CHALK CREEK AT COALVILLE, UTAH

LOCATION.--Lat 40°55'14", long 111°24'03", in NW¼NE¼SE¼ sec.8, T.2 N., R.5 E., Summit County, Hydrologic Unit 16020101, on left bank 100 ft (30 m) downstream from bridge on U.S. Highway 189 in Coalville and 0.3 mi (0.5 km) upstream from mouth.

DRAINAGE AREA.--250 mi² (648 km²).

PERIOD OF RECORD.--November 1904, March to November 1905, April 1927 to current year.

REVISED RECORDS.--WSP 1564: 1929. WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,560.6 ft (1,694.87 m) NGVD of 1929. Prior to Feb. 13, 1931, nonrecording gage at site 100 ft (30 m) upstream at different datum. Feb. 13, 1931 to Oct. 15, 1941, water-stage recorder at site 300 ft (91 m) upstream at different datum.

REMARKS.--Records good. Diversions above station used for irrigation of land in the drainage basin above the station. Flow slightly affected by Chalk Creek Reservoir capacity, 1,600 acre-ft (1.97 hm³).

AVERAGE DISCHARGE.--55 years, 63.8 ft³/s (1.807 m³/s), 46,220 acre-ft/yr (57.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,540 ft³/s (43.6 m³/s) Apr. 28, 1952, gage height, 4.67 ft (1.423 m); minimum, less than 1 ft³/s (0.028 m³/s) for several days in 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 400 ft³/s (11.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 4	0300	*954	27.0	2.99	0.911
May 19	0600	703	19.9	2.43	.741
May 28	0700	768	21.7	2.58	.786

Minimum recorded, 5.3 ft³/s (0.150 m³/s) Dec. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	28	20	26	19	43	56	441	334	177	60	36
2	14	28	26	16	20	51	48	583	304	177	58	34
3	16	27	30	21	18	45	53	785	271	166	53	36
4	30	26	26	23	16	42	58	800	277	153	45	35
5	27	25	24	22	14	37	43	676	279	153	40	33
6	24	25	27	20	15	35	52	511	274	165	39	32
7	22	25	27	16	17	35	48	492	246	159	35	49
8	23	26	23	19	16	35	45	519	235	139	32	39
9	24	25	24	20	18	35	42	557	229	135	29	35
10	23	23	26	21	19	38	43	493	230	123	27	52
11	36	21	23	23	19	42	54	396	238	121	26	69
12	37	22	18	21	20	55	179	368	236	119	25	53
13	28	23	26	22	22	44	193	355	227	115	26	67
14	27	26	22	23	26	51	266	367	229	111	27	83
15	27	28	27	22	25	62	266	438	252	103	27	79
16	30	27	24	23	24	56	190	476	254	95	28	79
17	34	25	14	22	25	52	155	475	253	90	32	70
18	30	30	12	20	24	50	166	559	249	84	33	65
19	27	23	31	19	27	47	125	652	243	77	29	63
20	26	21	39	19	38	44	104	486	234	71	28	64
21	26	28	42	19	39	37	97	481	226	64	35	61
22	25	26	30	18	47	40	107	537	214	61	38	56
23	23	26	16	19	55	41	151	548	206	61	38	54
24	23	27	16	20	39	41	202	579	179	62	39	48
25	23	30	27	21	39	42	237	547	178	57	37	45
26	23	20	26	23	44	49	253	558	181	57	38	73
27	23	17	24	22	46	49	273	603	175	75	38	135
28	22	21	22	20	41	55	306	664	174	77	35	109
29	33	16	27	21	---	66	453	473	173	77	38	97
30	33	17	33	19	---	54	391	412	168	66	39	100
31	28	---	22	21	---	53	---	331	---	63	37	---
TOTAL	802	732	774	641	772	1426	4656	16162	6968	3253	1111	1851
MEAN	25.9	24.4	25.0	20.7	27.6	46.0	155	521	232	105	35.8	61.7
MAX	37	30	42	26	55	66	453	800	334	177	60	135
MIN	14	16	12	16	14	35	42	331	168	57	25	32
AC-FT	1590	1450	1540	1270	1530	2830	9240	32060	13820	6450	2200	3670
CAL YR 1981 TOTAL	21239.2			58.2	MAX 352	MIN 8.5	AC-FT 42130					
WTR YR 1982 TOTAL	39148.0			MEAN 107	MAX 800	MIN 12	AC-FT 77650					

10131500 ECHO RESERVOIR AT ECHO, UTAH

LOCATION.--Lat 40°57'50", long 111°25'55", in NE¼NW¼SW¼ sec.30, T.3 N., R.5 E., Summit County, Hydrologic Unit 16020101, near outlet works at left end of Echo Dam on Weber River, 1.1 mi (1.8 km) southeast of Echo.

DRAINAGE AREA.--726 mi² (1,880 km²).

PERIOD OF RECORD.--October 1930 to current year.

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

GAGE.--Staff gage on left side of dam read once daily. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation). Prior to 1932, elevations obtained from mercury gage in valve house and staff gage.

REMARKS.--Reservoir is formed by earthfill, rock-faced dam; storage began in October 1930; dam completed in 1931. Capacity, 73,940 acre-ft (91.2 hm³) between elevation 5,450 ft (1,661.2 m) (bottom of outlet tunnel) and 5,560 ft (1,694.7 m) (top of radial gages in spillway) above mean sea level. Dead storage negligible. Figures given herein represent total contents. Water is used for irrigation of the Echo Project.

COOPERATION.--Capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 75,280 acre-ft (92.9 hm³) 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, 74,540 acre-ft (91.9 hm³) July 6, 7, 13, elevation, 5,560.4 ft (1,694.81 m); minimum, 13,630 acre-ft (16.8 hm³) Apr. 23; elevation 5,503.0 ft (1,677.31 m).

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

5,503	13,630	5,525	31,180	5,500	59,880
5,506	15,600	5,530	36,100	5,555	66,740
5,510	18,480	5,535	41,440	5,560	73,940
5,515	22,390	5,540	47,200	5,561	75,420
5,520	26,620	5,545	53,360		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15950	27590	37550	44840	47920	53360	44150	19390	66040	73800	67440	48160
2	15950	27950	37870	44960	47920	53620	42110	20710	66880	73940	67300	47560
3	15950	28310	38180	45080	48040	53870	40010	22470	67440	73940	67020	46840
4	16160	28670	38500	45190	48040	54120	38080	24470	67870	73800	66740	46010
5	16370	28950	38820	45310	48160	54250	36100	26970	68150	74090	66320	45190
6	16580	29310	39140	45430	48160	54510	34180	28950	68440	74540	65480	44380
7	16720	29680	39360	45540	48280	54640	32230	30990	68720	74540	64780	43690
8	17010	30050	39580	45660	48400	54760	30330	33100	69150	74240	64230	43010
9	17300	30330	39790	45780	48520	54890	28310	35490	70150	74240	63680	42330
10	17670	30610	40010	45900	48770	55020	26270	37660	71460	74240	63130	41660
11	18040	30900	40230	45900	49010	55150	24470	39580	72770	74240	62440	41330
12	18640	31180	40440	45900	49130	55280	23380	40560	73800	74390	61760	41220
13	19090	31560	40660	45900	49250	55540	23710	41220	73800	74540	61090	41220
14	19620	31940	40880	45900	49500	55670	23380	41770	73800	74240	60420	41440
15	20090	32230	41110	46010	49740	55920	22960	42440	73500	73800	59880	41660
16	20560	32520	41330	46010	49900	56190	22390	43460	73500	73500	59340	41770
17	21030	32810	41550	46130	50240	56190	20790	44610	73650	73060	58680	42000
18	21750	33100	41880	46370	50610	56190	19240	45660	73650	72620	58020	42110
19	22230	33400	42220	46490	50850	55920	17960	47440	73800	72040	57360	42220
20	22720	33790	42330	46610	51100	55540	16580	49380	73940	71460	56580	42220
21	23210	34180	42550	46720	51350	55150	15400	51600	73800	70880	55800	42220
22	23630	34580	42780	46720	51600	54760	14270	53620	73800	70150	54890	42220
23	23960	34980	43010	46840	51850	54000	13630	55410	73800	69440	54120	42110
24	24300	35390	43240	46960	52100	53110	13950	57230	73650	68720	53360	42000
25	24630	35700	43460	47080	52350	52220	14470	58940	73650	68150	52480	41880
26	25060	36000	43690	47200	52600	51350	15060	60680	73800	67730	51600	41770
27	25490	36310	43920	47440	52860	50360	15740	62310	73940	67440	50850	42330
28	25920	36620	44150	47680	53110	49500	16370	63540	73800	67160	50240	42780
29	26360	36930	44380	47800	---	48650	17160	64370	73940	67440	49620	43240
30	26800	37240	44610	47800	---	47800	18340	65200	73800	67440	49130	44040
31	27240	---	44730	47800	---	46250	---	66040	---	67440	48650	---
(+)	5520.7	5531.1	5537.9	5540.5	5544.8	5539.2	5509.8	5554.5	5559.9	5555.5	5541.2	5537.3
(±)	+11290	+10000	+7490	+3070	+5310	-6860	-27910	+47700	+7760	-6360	-18790	-4610

CAL YR 1981 (±) -9010
WTR YR 1982 (±) +28090

(+) ELEVATION, IN FEET, AT END OF MONTH
(±) CHANGE IN CONTENTS, IN ACRE-FEET

WEBER RIVER BASIN

10132490 LOST CREEK RESERVOIR NEAR CROYDON, UTAH

LOCATION.--Lat 41°11'05", long 111°23'59", in NW¼SE¼NE¼ sec.8, T.5 N., R.5 E., Morgan County, Hydrologic Unit 16020101, 1.9 mi (3.1 km) upstream from Hell Canyon and 8.1 mi (13.0 km) northeast of Croydon.

DRAINAGE AREA.--123 mi² (319 km²).

PERIOD OF RECORD.--April 1967 to current year.

GAGE.--Indicating float tape in gage house on top of dam. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill rock-faced dam; active storage began Apr. 22, 1967. Active capacity, 20,010 acre-ft (24.7 hm³) at elevation 6,005.0 ft (1,830.32 m) above mean sea level. Dead storage, 2,500 acre-ft (3.08 hm³) between elevation 5,835.0 ft (1,778.51 m) (streambed at dam axis) and 5,912.3 ft (1,802.07 m) (top of dead storage). Figures given herein represent active contents. Water is used for irrigation, fish and wildlife propagation along Lost Creek, and irrigation, municipal and industrial use below confluence of Lost Creek and Weber River.

COOPERATION.--Gage-height record and capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 21,080 acre-ft (26.0 hm³), May 27, 29, 1982; elevation, 6,007.9 ft (1,831.21 m). Minimum since original filling of reservoir, 8,160 acre-ft (10.1 hm³) Oct. 10, 14, 1977, elevation, 5,965.3 ft (1,818.22 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 21,080 acre-ft (26.0 hm³) May 27, 29; elevation, 6,007.9 ft (1,831.21 m); minimum contents observed, 11,430 acre-ft (14.1 hm³) Apr. 25; elevation, 5,978.3 ft (1,822.19 m).

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

5,975	10,540	5,995	16,510
5,980	11,910	6,000	18,220
5,985	13,350	6,005	20,010
5,990	14,890	6,010	21,890

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12160	---	---	---	---	---	---	13060	20410	---	---	17180
2	---	---	---	---	---	---	---	---	---	---	18500	---
3	---	---	---	---	---	---	---	14180	---	---	---	---
4	---	12020	---	---	---	---	12250	---	---	---	---	---
5	---	---	---	---	---	---	---	14990	---	19940	---	---
6	---	---	12050	12420	---	---	---	---	20330	---	---	16910
7	---	---	---	---	---	---	12080	15470	---	19860	---	---
8	11990	---	---	---	---	---	---	---	---	---	18040	---
9	---	12020	---	---	---	---	---	16310	20260	19750	---	16810
10	---	---	---	12450	---	12590	---	16580	---	---	---	---
11	---	---	---	---	---	---	11770	16580	---	---	---	---
12	11970	---	---	---	---	---	---	---	---	---	---	16680
13	---	---	---	---	---	---	11690	---	20120	---	---	---
14	---	---	12050	---	12700	---	---	16740	---	19640	---	---
15	---	---	---	---	---	12480	---	17150	---	---	17900	16640
16	---	12020	---	---	---	---	---	17590	20120	---	---	---
17	---	---	---	12480	---	12590	11600	18040	---	---	---	---
18	---	---	---	---	---	---	---	18570	---	---	17760	---
19	11970	---	---	---	---	---	---	18850	---	19420	---	16610
20	---	---	---	---	---	---	---	19100	20050	---	---	---
21	---	---	12080	---	12760	12540	11520	19350	---	---	---	---
22	---	---	---	---	---	---	---	19640	---	---	17590	16610
23	---	---	---	---	---	---	---	20010	20050	---	---	---
24	---	---	---	12560	---	12480	---	---	---	---	17450	---
25	---	---	---	---	---	---	11430	20560	---	18960	---	---
26	11990	---	---	---	---	---	---	---	---	---	---	16810
27	---	---	---	---	12970	---	---	21080	20010	---	---	---
28	---	---	---	---	12970	12480	11990	---	---	18680	---	16980
29	---	---	---	---	---	---	---	21080	---	---	17320	---
30	---	12020	---	---	---	---	a12700	---	a19970	---	---	a17080
31	11990	---	12080	12480	---	12480	---	a20630	---	a18570	a17210	---
(+)	5980.3	5980.4	5980.6	5982.0	5983.7	5982.0	---	---	---	---	---	---
(+)	-170	+30	+60	+400	+490	-490	+220	+7930	-660	-1400	-1360	-130

CAL YR 1981 (+) -3710

WTR YR 1982 (+) +4920

- (+) ELEVATION, IN FEET, AT END OF MONTH
(+) CHANGE IN CONTENTS, IN ACRE-FEET
(a) NO GAGE-HEIGHT READINGS, CONTENTS INTERPOLATED

WEBER RIVER BASIN

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10133700 THREEMILE CREEK NEAR PARK CITY, UTAH

LOCATION.--Lat 40°43'32", long 111°33'44", in NW¼NE¼NW¼, sec.24, T.1 S., R.3 E., Summit County, Hydrologic Unit 16020101, on left bank 1,000 ft (305 m) upstream from Threemile Creek Reservoir, 1.1 mi (1.8 km) upstream from mouth, and 5.5 mi (8.9 km) northwest of Park City.

DRAINAGE AREA.--2.68 mi² (6.94 km²).

PERIOD OF RECORD.--October 1963 to September 1974, July to September 1982.

GAGE.--Water-stage recorder. Altitude of gage is 6,490 ft (1,978 m) from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--11 years (water years 1964-74), 2.13 ft³/s (0.0603 m³/s), 1,540 acre-ft/yr (1.90 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15 ft³/s (0.42 m³/s) May 21, 1967, gage height, 1.08 ft (0.329 m); minimum, 0.3 ft³/s (0.008 m³/s) Apr. 6, 8, 14, 1964.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										5.3	3.1	2.4
2										5.1	3.2	2.3
3										4.9	3.1	2.3
4										4.8	3.1	2.3
5										4.8	2.9	2.2
6										4.6	2.9	2.2
7										4.5	2.9	2.1
8										4.5	2.9	2.1
9										4.4	2.9	2.1
10										4.2	2.9	2.3
11										4.4	2.9	2.1
12										4.2	2.9	2.2
13										4.2	2.9	2.1
14										4.0	2.8	2.1
15										4.0	2.8	2.1
16										4.0	2.8	2.0
17										4.0	2.8	2.0
18										3.9	2.8	1.9
19										3.9	2.8	1.9
20										3.7	2.8	1.9
21										3.9	2.8	1.8
22										3.7	2.7	2.2
23										3.7	2.7	2.1
24										3.7	2.7	1.9
25										3.6	2.6	1.9
26										3.7	2.6	3.1
27										4.0	2.6	2.7
28										4.0	2.5	2.2
29										3.7	2.5	2.0
30										3.6	2.5	2.1
31										3.3	2.4	---
TOTAL										128.3	86.8	64.6
MEAN										4.14	2.80	2.15
MAX										5.3	3.2	3.1
MIN										3.3	2.4	1.8
AC-FT										254	172	128

WEBER RIVER BASIN

10133900 EAST CANYON CREEK NEAR PARK CITY, UTAH

LOCATION.--Lat 40°47'24", long 111°35'47", in NW¼NW¼SE¼ sec.27, T.1 N., R.3 E., Summit County, Hydrologic Unit 16020101 on left bank near point where Big Bear Hollow joins East Canyon, 2.3 mi (3.7 km) north of Jeremy Ranch.

DRAINAGE AREA.--80.0 mi² (207.2 km²).

PERIOD OF RECORD.--June to September 1982.

GAGE.--Water-stage recorder. Altitude of gage is 6,120 ft (1,865.4 m) from topographic map.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	74	37	20
2									---	62	35	19
3									---	57	34	19
4									---	54	33	16
5									---	65	31	17
6									---	61	30	22
7									---	54	31	21
8									---	54	33	20
9									---	55	36	22
10									---	50	29	31
11									---	49	29	34
12									---	47	28	27
13									---	44	28	36
14									---	42	29	41
15									---	40	29	37
16									---	38	29	29
17									---	35	31	28
18									---	36	28	28
19									---	34	28	26
20									---	35	27	27
21									---	33	28	25
22									---	32	25	25
23									---	33	23	24
24									---	31	21	23
25									---	83	21	24
26									---	93	22	79
27									---	84	23	93
28									---	76	24	70
29									---	70	25	62
30									---	66	23	104
31									---	39	23	---
TOTAL									---	1440	873	1049
MEAN									---	46.5	28.2	35.0
MAX									---	74	37	104
MIN									---	31	21	16
AC-FT									---	2860	1730	2080

10134000 EAST CANYON RESERVOIR NEAR MORGAN, UTAH

LOCATION.--Lat 40°55'14", long 111°35'59", in NE¼SE¼NW¼ sec.10, T.2 N., R.3 E., Morgan County, Hydrologic Unit 16020102, on upstream face of concrete dam on East Canyon Creek, 9.0 mi (14.5 km) southeast of Morgan.

DRAINAGE AREA.--144 mi² (373 km²).

PERIOD OF RECORD.--October 1931 to current year. October 1931 to September 1937, month-end contents only published in WSP 1314.

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

GAGE.--Elevations determined from direct readings on upstream face of dam on days shown. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation). Prior to Oct. 1, 1953, staff gage at site 500 ft (150 m) east of dam and Oct. 1, 1953 to Sept. 30, 1964, tape gage on upstream face of dam then in use at different datum. Oct. 1, 1964 to Sept. 30, 1965, temporary reference marks at present datum set by Bureau of Reclamation.

REMARKS.--Reservoir was formed in 1896 by a 58-ft (18-m) rockfill dam, capacity, 3,850 acre-ft (4.75 hm³), which was raised 25 ft (7.6 m) in 1900, capacity, 9,000 acre-ft (11.1 hm³), raised 12 ft (3.7 m) more in 1902, capacity, 14,000 acre-ft (17.3 hm³), was replaced in 1917 by concrete dam which formed a reservoir having a capacity of 25,790 acre-ft (31.8 hm³) (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 hm³) 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 hm³). Figures given herein represent active contents. Water is used for irrigation in Morgan, Davis, and Weber Counties.

COOPERATION.--Capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 49,010 acre-ft (60.4 hm³) June 21, 1975; no contents at times in 1931, 1934, 1937, 1946, 1954, 1961, 1965, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 48,730 acre-ft (60.1 hm³) June 5, elevation, 5,705.9 ft (1,739.16 m); minimum observed, 27,260 acre-ft (33.6 hm³) Oct. 3, elevation 5,669.4 ft (1,728.03 m).

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

5,669	27,060	5,690	38,470
5,670	27,550	5,700	44,760
5,680	32,730	5,706	48,800

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	34500	---	---	---	---	---	---
2	---	---	---	32030	---	---	32410	---	---	---	---	---
3	27260	---	---	---	---	---	---	---	---	48460	---	35760
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	30500	---	---	---	---	---	48730	---	---	---
6	---	---	---	---	33390	34850	---	---	---	---	43330	---
7	---	29000	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	40610	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	27500	---	---	32240	---	---	29360	41680	---	48390	---	---
11	---	---	---	---	---	---	---	---	---	---	---	35020
12	---	---	30760	---	---	---	---	---	48590	---	---	---
13	---	---	---	---	33390	34850	---	---	---	---	---	---
14	---	29300	---	---	---	---	---	---	---	---	40920	---
15	---	---	---	---	---	---	---	41930	---	---	---	---
16	27900	---	---	32570	---	---	32410	---	---	---	---	---
17	---	---	---	---	---	35190	---	42500	---	48320	---	---
18	---	---	---	---	---	---	---	---	---	---	---	35020
19	---	---	31170	---	---	---	---	---	48590	---	---	---
20	---	---	---	---	33780	34790	---	---	---	---	---	---
21	---	29610	---	---	---	---	---	---	---	---	39070	---
22	---	---	---	---	---	---	---	45090	---	---	---	---
23	28200	---	---	32840	---	34110	---	---	---	---	---	---
24	---	---	---	---	---	---	31920	---	---	47160	---	---
25	---	---	---	---	---	---	---	---	---	---	---	35240
26	---	---	31610	---	---	---	32350	---	48520	---	---	---
27	---	---	---	---	34330	33220	---	---	---	---	---	---
28	---	30130	---	---	a34450	---	---	---	---	---	37040	---
29	---	---	---	33280	---	---	---	48590	---	---	---	---
30	---	a30240	---	33280	---	---	34390	---	a48460	---	---	a36110
31	28600	---	a31920	a33280	---	32840	---	a48590	---	45290	a35190	---
(+)	5672.1	---	---	---	---	5680.2	5683.0	---	---	5700.8	---	---
(+)	+1260	+1640	+1680	+1360	+1170	-1610	+1550	+14200	-130	-3170	-10100	+920

CAL YR 1981 (+) -2980

WTR YR 1982 (+) +8770

(+) ELEVATION, IN FEET, AT END OF MONTH

(+) CHANGE IN CONTENTS, IN ACRE-Feet

(a) NO GAGE-HEIGHT READINGS, CONTENTS INTERPOLATED

10136500 WEBER RIVER AT GATEWAY, UTAH

LOCATION.--Lat 41°08'13", long 111°49'54", in NE¼SW¼SW¼ sec.27, T.5 N., R.1 E., Morgan County, Hydrologic Unit 16020102, on left bank 400 ft (122 m) downstream from tailrace of Gateway powerplant, 500 ft (152 m) upstream from Union Pacific Railroad bridge, 1,200 ft (366 m) downstream from Strawberry Creek, and 3,200 ft (975 m) east of section house at Gateway.

DRAINAGE AREA.--1,627 mi² (4,214 km²).

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 powerplant. Flow regulated by Rockport, Echo, Lost Creek, and East Canyon Reservoirs (see station 10129400, 10131500, 10132490, and 10134000).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 7,980 ft³/s (226 m³/s) May 31, 1896; minimum observed, 33 ft³/s (0.93 m³/s) Feb. 3, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,300 ft³/s (122 m³/s) April 12, gage height, 7.75 ft (2.362 m); minimum, 50 ft³/s (1.42 m³/s) Nov. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	79	66	159	305	575	1880	2200	1460	1270	504	444
2	160	77	67	125	306	929	1880	2570	1140	1200	480	437
3	169	76	71	117	313	710	1920	2930	1080	1150	446	454
4	225	74	71	124	246	594	1950	2960	1030	1010	441	485
5	216	73	72	129	233	541	1880	2700	995	1150	441	475
6	216	73	104	118	240	519	1870	2420	1130	1180	470	480
7	157	71	98	106	295	539	1830	2270	1070	1190	489	506
8	166	69	94	102	280	538	1820	2280	949	1080	500	489
9	153	68	91	110	280	558	1780	2360	863	964	500	486
10	124	68	93	122	290	580	1770	2270	821	914	470	628
11	168	67	92	171	290	983	2030	2170	758	791	440	639
12	152	67	91	160	292	1610	3100	2460	1050	658	458	451
13	127	67	90	160	305	862	2280	2540	1330	540	462	464
14	120	71	93	189	313	916	2560	2540	1420	524	483	463
15	108	79	127	185	325	1260	2540	2280	1660	524	482	405
16	126	76	126	193	567	912	2410	1950	1630	524	465	386
17	134	70	107	207	596	903	2520	1950	1560	495	448	374
18	119	64	99	232	465	921	2500	1940	1560	509	433	365
19	109	75	125	243	429	1000	2390	1790	1600	500	416	390
20	102	64	169	235	403	1000	2270	1620	1780	465	439	384
21	97	73	178	251	424	964	2110	1630	1750	427	455	344
22	88	72	148	246	546	943	2020	1710	1660	436	478	333
23	81	72	121	241	791	1140	1900	1840	1600	495	492	338
24	83	72	105	256	588	1190	1790	1780	1620	571	448	340
25	81	73	123	262	501	1200	1940	1700	1630	582	426	361
26	78	69	124	262	473	1270	2060	1720	1590	519	459	500
27	77	67	123	291	545	1330	2050	1520	1600	530	511	684
28	77	65	113	278	537	1430	2130	1650	1560	620	521	707
29	89	64	116	283	---	1460	2340	1790	1430	524	527	691
30	90	64	181	291	---	1330	2210	1730	1310	524	494	778
31	83	---	176	322	---	1670	---	1660	---	524	452	---
TOTAL	3939	2119	3454	6170	11178	30377	63730	64930	40636	22390	14530	14281
MEAN	127	70.6	111	199	399	980	2124	2095	1355	722	469	476
MAX	225	79	181	322	791	1670	3100	2960	1780	1270	527	778
MIN	77	64	66	102	233	519	1770	1520	758	427	416	333
AC-FT	7810	4200	6850	12240	22170	60250	126400	128800	80600	44410	28820	28330
CAL YR 1981 TOTAL	115385		MEAN 316	MAX 1960	MIN 64	AC-FT 228900						
WTR YR 1982 TOTAL	277734		MEAN 761	MAX 3100	MIN 64	AC-FT 550900						

WEBER RIVER BASIN

10136500 WEBER RIVER AT GATEWAY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1958 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1958 to September 1959.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	HARD- NESS (MG/L AS CACO3)
OCT									
15...	1330	103	590	8.2	10.5	9.0	--	--	250
DEC									
10...	0830	94	560	8.2	2.0	5.0	--	--	260
29...	1130	113	560	8.3	-5.5	2.0	--	--	250
JAN									
20...	1615	242	560	8.4	-3.5	2.0	--	--	250
MAR									
23...	1530	1190	500	8.0	8.0	7.0	--	--	230
APR									
09...	1730	1810	490	8.3	3.0	6.0	--	--	230
MAY									
25...	1330	1630	330	8.0	20.5	9.5	9.1	632	160
JUN									
23...	1200	1660	390	8.1	25.0	13.5	8.4	635	190
AUG									
09...	1700	490	430	8.0	25.0	17.0	7.2	635	190
SEP									
21...	1400	345	485	8.0	24.0	14.0	8.0	636	220

DATE	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT									
15...	63	70	19	25	18	.7	2.6	190	40
DEC									
10...	56	71	19	23	16	.7	2.6	200	41
29...	33	70	19	24	17	.7	2.6	220	35
JAN									
20...	44	72	18	22	16	.6	2.5	210	32
MAR									
23...	20	64	17	17	14	.5	2.2	210	34
APR									
09...	32	65	17	17	14	.5	2.2	200	31
MAY									
25...	18	46	11	11	13	.4	1.8	142	21
JUN									
23...	23	55	13	11	11	.4	1.7	168	20
AUG									
09...	14	56	13	13	13	.4	2.2	179	29
SEP									
21...	18	62	16	17	14	.5	2.3	203	28

WEBER RIVER BASIN

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10136500 WEBER RIVER AT GATEWAY, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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 CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
OCT 15...	39	.2	11	323	.44	89.8	.43	<.010	--
DEC 10...	42	.2	7.1	329	.45	83.7	.63	<.010	--
29...	37	.2	7.8	330	.45	101	.45	.010	.03
JAN 20...	34	.2	7.6	316	.43	206	.34	.020	.06
MAR 23...	26	.2	7.1	295	.40	950	.28	.030	.09
APR 09...	25	.2	6.6	285	.39	1390	.22	.030	.09
MAY 25...	13	.1	8.6	199	.27	876	.31	<.010	--
JUN 23...	13	.1	8.0	224	.30	1000	.25	.030	.09
AUG 09...	19	.1	8.6	250	.34	331	.34	.050	.15
SEP 21...	25	.2	8.6	283	.38	264	.40	.030	.09

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 15...	1330	40	<10	12
DEC 10...	0830	40	<10	9
29...	1130	50	<10	9
JAN 20...	1615	30	29	6
MAR 23...	1530	30	<3	3
APR 09...	1730	30	<9	16
MAY 25...	1330	30	23	10
JUN 23...	1200	30	9	11
AUG 09...	1700	30	<3	15
SEP 21...	1400	40	5	12

WEBER RIVER BASIN

10137500 SOUTH FORK OGDEN RIVER NEAR HUNTSVILLE, UTAH

LOCATION.--Lat 41°16'07", long 111°40'24", in SE¼NE¼SW¼ sec.12, T.6 N., R.2 E., Weber County, Hydrologic Unit 16020102, on right bank 0.5 mi (0.8 km) downstream from Magpie Creek, Creek, 0.5 mi (0.8 km) upstream from Huntsville Mountain Canal, 5.0 mi (8.0 km) downstream from Causey Dam, and 5.0 mi (8.0 km) east of Huntsville.

DRAINAGE AREA.--137 mi² (355 km²).

PERIOD OF RECORD.--March 1921 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,190 ft (1,582 m) by barometer. Prior to Aug. 14, 1934, at site 300 ft (91 m) upstream at different datum.

REMARKS.--Records good. One small diversion above station. Flow regulated by Causey Reservoir since Jan. 4, 1966.

AVERAGE DISCHARGE.--61 years, 112 ft³/s (3.17 m³/s), 81,140 acre-ft/yr (100 hm³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,890 ft³/s (53.5 m³/s) May 3, 1952, gage height, 5.98 ft (1.823 m); minimum, 9 ft³/s (0.26 m³/s) Feb. 28, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,290 ft³/s (36.5 m³/s) May 2, gage height, 4.93 ft (1.503 m); minimum daily, 24 ft³/s (0.68 m³/s) Oct. 20-28, Nov. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	26	25	32	38	118	206	1030	429	123	84	92
2	44	25	25	30	39	164	197	1140	405	115	86	92
3	46	25	26	27	39	137	195	1200	386	110	89	92
4	48	25	26	32	36	120	202	1110	373	106	89	92
5	46	25	26	32	32	109	189	1010	366	118	89	92
6	38	25	26	31	32	102	187	976	354	107	89	92
7	34	25	26	30	36	97	178	985	320	102	88	86
8	32	25	26	25	37	96	143	1000	299	104	89	81
9	30	25	26	27	40	100	94	995	285	104	90	81
10	30	25	27	29	40	112	92	966	274	96	92	88
11	36	25	27	31	40	166	141	923	269	92	92	84
12	31	26	26	31	40	233	447	899	264	88	90	84
13	26	25	27	32	40	170	422	677	254	86	92	76
14	25	24	27	32	40	164	440	624	248	84	94	63
15	25	28	32	32	58	248	523	652	238	82	97	62
16	27	24	31	32	104	373	534	749	226	88	96	61
17	26	26	29	33	102	350	497	830	214	90	96	61
18	25	26	28	36	85	299	486	821	200	93	96	60
19	25	26	29	38	82	246	446	749	194	89	96	59
20	24	25	34	39	80	233	400	685	187	84	96	60
21	24	25	36	39	84	224	377	576	181	93	96	59
22	24	26	32	39	97	194	389	472	174	106	94	59
23	24	27	30	39	112	172	454	357	164	109	99	59
24	24	27	30	39	99	172	552	280	156	109	104	59
25	24	27	30	39	92	178	645	648	148	109	104	60
26	24	26	30	42	88	196	754	771	142	103	104	75
27	24	26	30	45	100	211	830	776	137	102	104	65
28	25	26	29	43	104	245	883	740	130	102	104	63
29	28	25	30	43	---	256	911	592	125	100	104	65
30	27	25	32	40	---	225	877	500	132	99	99	64
31	26	---	31	40	---	210	---	443	---	90	93	---
TOTAL	927	766	889	1079	1816	5920	12691	24176	7274	3083	2935	2186
MEAN	29.9	25.5	28.7	34.8	64.9	191	423	780	242	99.5	94.7	72.9
MAX	48	28	36	45	112	373	911	1200	429	123	104	92
MIN	24	24	25	25	32	96	92	280	125	82	84	59
AC-FT	1840	1520	1760	2140	3600	11740	25170	47950	14430	6120	5820	4340
CAL YR 1981	TOTAL	20927	MEAN	57.3	MAX	267	MIN	24	AC-FT	41510		
WTR YR 1982	TOTAL	63742	MEAN	175	MAX	1200	MIN	24	AC-FT	126400		

WEBER RIVER BASIN

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10139300 WHEELER CREEK NEAR HUNTSVILLE, UTAH

LOCATION.--Lat 41°15'14", long 111°50'32", in SW¼NW¼SE¼ sec.16, T.6 N., R.1 E., Weber County, Hydrologic Unit 16020102, on right bank 150 ft (46 m) upstream from mouth, 150 ft (46 m) downstream from culvert under State Highway 39, 250 ft (76 m) downstream from Pine View Dam on Ogden River, 3.8 mi (6.1 km) west of Huntsville, and 7.2 mi (11.6 km) east of Ogden.

DRAINAGE AREA.--11.1 mi² (28.7 km²).

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 fair.

AVERAGE DISCHARGE.--24 years, 9.70 ft³/s (0.275 m³/s), 7,030 acre-ft/yr (8.67 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 533 ft³/s (15.1 m³/s) May 21, 1981, gage height, 3.95 ft (1.204 m) from indirect measurement; no flow Dec. 5, 1962, July 25, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 137 ft³/s (3.88 m³/s) Apr. 12; peak discharge above base of 40 ft³/s (1.13 m³/s) not determined; minimum daily, 0.70 ft³/s (0.020 m³/s) Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.82	1.4	1.0	1.2	.96	30	14	68	38	18	3.1	1.5
2	.82	1.4	1.0	1.2	1.0	53	16	75	36	17	3.0	1.4
3	1.1	1.1	.91	1.1	.93	40	14	92	36	17	2.9	1.4
4	1.4	1.1	.84	1.0	.82	32	17	91	37	16	2.9	1.2
5	1.0	1.1	.82	1.0	.70	28	15	78	43	18	2.6	1.2
6	.82	1.1	.82	1.0	.72	25	12	68	41	15	2.6	1.2
7	.82	1.1	.82	.80	.74	24	13	61	34	13	2.5	1.1
8	1.2	1.0	.82	.90	.78	24	14	63	32	12	2.4	1.1
9	.91	1.0	.82	.90	.84	25	12	63	32	12	2.3	1.0
10	1.2	1.0	.82	.90	.90	27	12	58	32	10	2.2	1.4
11	2.6	1.0	.82	.90	.90	53	52	50	33	9.5	2.1	1.1
12	2.0	1.0	.82	.90	.90	58	137	43	35	8.5	2.1	1.2
13	1.4	1.0	.82	.90	.90	26	87	40	36	8.0	2.0	1.4
14	1.2	1.5	.82	1.0	2.5	33	101	39	40	7.5	2.0	1.5
15	1.1	1.4	4.8	1.0	10	65	78	42	43	7.0	1.8	1.1
16	1.4	1.2	3.3	1.0	35	34	59	46	42	6.5	1.8	1.0
17	1.1	1.1	1.5	1.1	29	24	55	50	38	6.0	1.8	1.0
18	1.0	1.1	.91	1.1	20	20	53	55	34	5.5	1.7	1.0
19	.91	1.1	1.7	1.1	16	17	46	59	32	5.5	1.7	.91
20	.91	1.1	11	1.1	17	15	40	54	30	5.0	1.7	.91
21	.82	1.0	12	1.0	20	14	39	53	29	5.0	1.7	.91
22	.91	1.0	5.3	1.0	28	13	46	54	29	4.8	1.7	.82
23	.82	1.1	2.2	1.0	38	12	56	58	28	4.6	1.7	.74
24	.82	1.0	1.7	1.0	28	12	65	61	28	4.5	1.6	.74
25	.82	1.1	1.3	1.1	24	13	70	61	26	4.3	1.6	.74
26	.82	.82	1.1	1.1	22	15	75	63	25	4.1	1.6	5.3
27	.91	.82	1.1	1.2	26	16	78	67	23	4.1	1.6	4.5
28	1.1	.74	1.1	1.0	26	18	80	74	22	4.1	1.7	8.2
29	2.4	.74	1.1	.97	---	20	78	56	19	3.9	1.7	9.4
30	1.5	.91	1.2	.96	---	18	68	45	18	3.7	1.6	17
31	1.4	---	1.2	1.0	---	16	---	37	---	3.3	1.5	---
TOTAL	36.03	32.03	64.46	31.43	352.59	820	1502	1824	971	263.4	63.2	71.97
MEAN	1.16	1.07	2.08	1.01	12.6	26.5	50.1	58.8	32.4	8.50	2.04	2.40
MAX	2.6	1.5	12	1.2	38	65	137	92	43	18	3.1	17
MIN	.82	.74	.82	.80	.70	12	12	37	18	3.3	1.5	.74
AC-FT	71	64	128	62	699	1630	2980	3620	1930	522	125	143
CAL YR 1981 TOTAL	2226.72			MEAN 6.10	MAX 107	MIN .60	AC-FT 4420					
WTR YR 1982 TOTAL	6032.11			MEAN 16.5	MAX 137	MIN .70	AC-FT 11960					

WEBER RIVER BASIN

10141000 WEBER RIVER NEAR PLAIN CITY, UTAH

LOCATION.--Lat 41°16'42", long 112°05'28", in NW¼NW¼NE¼ sec.8, T.6 N., R.2 W., Weber County, Hydrologic Unit 16020102, on upstream side of right highway bridge abutment, on State Highway 40, 1 mi (2 km) downstream from Fourmile Creek, 1.5 mi (2.4 km) south of Plain City, and 6 mi (10 km) upstream from mouth.

DRAINAGE AREA.--2,081 mi² (5,390 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1904 to current year. Monthly discharge only for some periods, published in WSP 1314.

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

GAGE.--Water-stage recorder. Datum of gage is 4,207.10 ft (1,282.324 m) NGVD of 1929. Prior to Aug. 29, 1949, nonrecording gage at same site and datum, and Aug. 30, 1949 to June 22, 1966, water-stage recorder on right bank 50 ft (15 m) upstream at same datum.

REMARKS.--Records good. Practically entire flow is diverted during summer months for irrigation above station. Flow regulated by Rockport, Echo, Lost Creek, East Canyon, and Pine View Reservoirs; also diversion above station to Willard Bay Reservoir (see stations 10129400, 10131500, 10132490, 10134000, and 10140800).

AVERAGE DISCHARGE.--17 years (1966-82), 483 ft³/s (13.68 m³/s), 349,900 acre-ft/yr (431 hm³/yr) since completion of storage reservoirs listed in Remarks paragraph.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft³/s (286 m³/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, 3,820 ft³/s (108 m³/s) Apr. 12, gage height, 15.85 ft (4.831 m); minimum daily, 57 ft³/s (1.614 m³/s) Aug. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	155	149	173	184	665	2430	1860	1180	611	104	152
2	72	155	149	132	153	964	2510	2110	1490	582	97	148
3	70	150	153	107	168	1180	2530	2800	1020	517	101	136
4	93	148	155	111	140	1030	2600	3400	1070	442	73	143
5	116	144	156	111	75	1030	2500	3330	1140	564	57	120
6	95	147	159	112	68	1160	2490	3110	1300	702	62	161
7	138	142	192	112	80	1200	2530	2810	1130	678	94	154
8	144	141	174	106	197	1020	2420	2760	871	638	104	157
9	165	137	178	112	224	763	2670	2820	678	582	135	299
10	122	144	174	123	291	798	2620	2690	1280	574	139	756
11	236	128	175	138	288	890	2680	2720	1080	466	123	465
12	421	136	176	168	275	1900	3490	2680	1000	347	89	456
13	326	135	175	130	283	1700	2740	2360	1030	200	95	690
14	238	145	175	129	355	1600	3010	2180	1120	108	97	526
15	147	145	207	112	445	1500	3230	1970	1200	97	118	446
16	168	165	172	117	632	1400	3030	1550	1300	118	129	502
17	186	135	82	115	720	1380	3070	1340	1200	116	107	385
18	146	143	63	133	476	1300	3140	1210	1100	132	84	388
19	141	126	66	140	630	1150	3050	1410	1120	130	75	374
20	119	141	113	137	574	1260	2910	1540	1180	141	71	360
21	121	130	149	135	578	1330	2750	1390	1170	126	84	340
22	121	136	110	145	628	1400	2730	1210	1110	94	87	337
23	102	146	68	146	955	1360	2650	1090	1140	73	100	331
24	111	141	61	151	819	1470	2510	1160	1100	117	88	327
25	155	157	118	166	670	1460	2650	1390	1030	155	69	445
26	149	139	137	144	615	1520	2840	1450	1010	183	90	438
27	144	133	142	188	638	1580	2760	1540	1000	137	139	544
28	141	134	123	174	674	1620	2620	1620	910	142	204	463
29	217	124	83	162	---	1880	2770	2060	783	228	309	567
30	196	130	230	162	---	1940	2120	1870	657	149	237	507
31	162	---	221	179	---	2110	---	1420	---	98	145	---
TOTAL	4836	4232	4485	4270	11835	41560	82050	62850	32399	9247	3506	11117
MEAN	156	141	145	138	423	1341	2735	2027	1080	298	113	371
MAX	421	165	230	188	955	2110	3490	3400	1490	702	309	756
MIN	70	124	61	106	68	665	2120	1090	657	73	57	120
AC-FT	9590	8390	8900	8470	23470	82430	162700	124700	64260	18340	6950	22050

CAL YR 1981 TOTAL 72534 MEAN 199 MAX 1930 MIN 48 AC-FT 143900
WTR YR 1982 TOTAL 272387 MEAN 746 MAX 3490 MIN 57 AC-FT 540300

WEBER RIVER BASIN

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10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

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

SPECIFIC CONDUCTANCE: October 1975 to September 1981, once daily (discontinued).

WATER TEMPERATURES: October 1975 to September 1981, once daily (discontinued).

SEDIMENT DATA: October 1976 to current year, periodically.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 2,130 micromhos May 16, 1977; minimum, 120 micromhos November 11, 1978.
WATER TEMPERATURES: Maximum, 28.5°C June 25, 26, 1977; minimum, 0.0°C Dec. 31, 1978, Jan. 1, 1979, Jan. 31, 1980.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (FTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT										
15...	1130	136	800	8.2	14.5	10.0	7.0	9.1	650	130
DEC										
31...	1200	200	710	8.1	-3.5	2.5	48	10.1	646	280
FEB										
10...	1430	311	650	7.7	-8.0	1.0	7.2	11.8	649	K17
MAR										
09...	1130	769	1720	8.1	10.0	8.0	--	9.1	660	--
APR										
22...	1300	2770	400	8.2	16.0	7.0	5.1	9.8	654	72
JUN										
28...	1500	924	405	8.1	32.0	17.5	18	7.2	642	180
AUG										
27...	1330	160	475	8.1	27.0	19.5	13	6.9	650	320

DATE	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)
OCT										
15...	400	270	13	68	25	53	29	1.5	10	260
DEC										
31...	140	250	27	61	23	58	33	1.7	8.7	220
FEB										
10...	21	280	36	76	21	37	22	1.0	4.8	240
MAR										
09...	--	--	--	--	--	--	--	--	--	--
APR										
22...	69	180	31	51	13	15	15	.5	2.4	150
JUN										
28...	120	190	15	53	13	14	14	.5	2.3	171
AUG										
27...	120	190	16	51	14	27	24	.9	4.3	169

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
OCT									
15...	60	74	.2	14	459	461	.62	169	.460
DEC									
31...	31	86	.2	12	421	412	.57	227	.420
FEB									
10...	40	57	.2	10	391	390	.53	328	.220
MAR									
09...	--	--	--	--	--	--	--	--	--
APR									
22...	15	22	.1	8.2	242	217	.33	1810	.170
JUN									
28...	24	22	.2	8.0	237	239	.32	591	.080
AUG									
27...	21	38	.1	9.5	271	267	.37	117	.200

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

WEBER RIVER BASIN

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

		NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	
DATE											
OCT 15...		.59	1.40	--	1.5	.840	2.6	.760	1.00	3.1	
DEC 31...		.54	1.50	--	1.1	.750	2.3	.680	.620	1.9	
FEB 10...		.28	.92	<.020	.79	.640	2.0	.570	.570	1.7	
MAR 09...		--	--	--	--	--	--	--	--	--	
APR 22...		.22	1.00	--	.39	.250	.77	.110	.100	.31	
JUN 28...		.10	1.50	--	.31	.090	.28	.020	.060	.18	
AUG 27...		.26	1.60	--	.71	.450	1.4	.430	.390	1.2	
		ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE RECOV. (UG/L AS CR)
DATE	TIME										
OCT 15...	1130	5	1	4	200	80	120	1	<1	10	10
FEB 10...	1430	4	2	2	100	0	120	<1	<1	10	--
APR 22...	1300	2	0	2	<100	--	73	1	<3	10	--
AUG 27...	1330	3	0	3	100	20	77	<1	<1	<10	--
		CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)
DATE											
OCT 15...		0	3	<3	10	5	5	830	810	19	9
FEB 10...		<10	1	<3	9	7	2	540	--	<10	6
APR 22...		<10	1	<1	14	11	3	1300	1300	17	20
AUG 27...		<10	<1	<1	6	3	3	750	720	28	3
		LEAD, SUS- PENDE 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- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)
DATE											
OCT 15...		8	1	80	30	52	.2	.2	.0	7	3
FEB 10...		5	1	50	20	31	.3	--	<.1	2	1
APR 22...		17	3	90	80	15	.1	--	<.1	5	4
AUG 27...		--	<1	80	50	28	<.1	--	<.1	1	0

WEBER RIVER BASIN

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10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, SUS- PENDE RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 15...	4	0	0	0	1	1	0	30	20	11
FEB 10...	1	<1	--	<1	<1	--	<1	30	--	<3
APR 22...	1	<1	--	<1	<1	--	<1	60	--	<12
AUG 27...	2	<1	--	<1	<1	--	<1	20	10	7

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)
OCT 15...	1130	--	5	--	.0	--	9.0	--	.5	--	.3
FEB 10...	1430	<.10	--	<.01	--	<.10	--	<.01	--	<.01	--
MAR 09...	1130	<.10	--	<.01	--	<.10	--	<.01	--	<.01	--
APR 22...	1300	<.10	3	<.01	<.1	<.10	2.0	<.01	.5	<.01	.2

DATE	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	DI- ELDRIN TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)
OCT 15...	--	.0	--	--	.1	--	--	.0	--	--
FEB 10...	<.01	--	.00	<.01	--	<.01	<.01	--	.00	<.01
MAR 09...	<.01	--	.01	<.01	--	<.01	<.01	--	.00	<.01
APR 22...	<.01	<.1	<.01	<.01	.1	<.01	<.01	<.1	<.01	<.01

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)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)
OCT 15...	.2	--	.6	--	.0	--	--	--	--	--
FEB 10...	--	.01	--	<.01	--	.00	<.01	.00	.00	.00
MAR 09...	--	<.01	--	<.01	--	.00	<.01	.00	.00	.00
APR 22...	<.1	<.01	<.1	<.01	<.1	<.01	<.01	<.01	<.01	<.01

WEBER RIVER BASIN

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	MIREX, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)
OCT 15...	--	.0	--	--	--	--	--	--	--	--
FEB 10...	<1	--	.00	.00	.00	.00	<.10	<.10	<.01	.00
MAR 09...	<1	--	.00	.04	<.01	<.01	<.10	<.10	<.01	<.01
APR 22...	<1	<10	<.01	.02	<.01	<.01	<.10	<.10	<.01	<.01

DATE	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PER- THANE IN BOTTOM MATERIAL (UG/KG)
OCT 15...		.0	.00
FEB 10...		--	--
MAR 09...		--	--
APR 22...	<.1	<.1	<1.00

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SED. SUSP. SIEVE DIAM. & FINER THAN .062 MM	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT 15...	1130	136	10.0	95	87	35
DEC 31...	1200	200	2.5	118	93	64
FEB 10...	1430	311	1.0	23	86	19
APR 22...	1300	2770	7.0	124	68	927
JUN 28...	1500	924	17.5	47	81	117
AUG 27...	1330	160	19.5	22	86	9.5

WEBER RIVER BASIN

345

10141040 HOOPER SLOUGH NEAR HOOPER, UTAH

LOCATION.--Lat 41°11'26", long 112°09'07", in NE¼NE¼NW¼ sec.11, T.5 N., R.3 W., Weber County, Hydrologic Unit 16020102, on upstream end of left wingwall of bridge-covered Parshall flume, 0.5 mi (0.8 km) east of 7500 West Street and 1.7 mi (2.7 km) north of Hooper and 0.2 mi (0.3 km) upstream from mouth.

DRAINAGE AREA.--13.0 mi² (33.9 km²).

PERIOD OF RECORD.--March 1975 to September 1977, September 1978 to current year.

GAGE.--Water-stage recorder on 6-ft (1.829-m) concrete Parshall flume. Altitude of gage is 4,212 ft (1,284 m) from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--6 years, 14.5 ft³/s (0.411 m³/s), 10,510 acre-ft/yr (13.0 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83 ft³/s (2.35 m³/s) Mar. 26, 1975, gage height, 3.17 ft (0.966 m); minimum, 1.4 ft³/s (0.040 m³/s) Apr. 13, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 58 ft³/s (1.64 m³/s) July 28, gage height, 2.75 ft (0.838 m); minimum, 4.5 ft³/s (0.127 m³/s) Apr. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	8.6	7.0	7.3	9.3	14	10	7.2	32	26	40	39
2	11	8.0	6.8	7.1	9.0	14	11	9.0	34	20	25	36
3	13	8.0	6.8	6.9	9.0	18	15	16	29	18	18	38
4	19	8.4	6.5	7.1	8.0	18	12	21	24	27	18	27
5	18	9.8	6.2	7.4	6.8	19	10	19	26	38	24	26
6	16	9.6	6.3	7.0	5.8	18	11	14	30	51	22	20
7	15	9.4	6.5	6.7	5.2	15	10	18	31	49	25	25
8	16	8.8	6.7	6.5	5.4	14	9.9	18	35	50	22	27
9	15	8.7	6.7	6.7	5.5	12	9.3	23	36	50	24	28
10	12	8.5	6.3	6.4	5.6	12	7.7	29	30	46	17	34
11	31	9.0	6.3	6.7	5.8	12	8.0	31	30	42	17	34
12	32	11	6.0	7.0	6.1	16	10	31	28	37	17	26
13	24	9.0	6.0	7.3	6.4	17	10	29	22	26	20	28
14	19	8.0	6.0	7.5	7.2	14	8.0	30	29	30	22	28
15	16	8.7	6.4	7.8	8.8	30	7.2	27	39	30	25	27
16	18	8.4	6.9	8.2	10	56	7.2	20	42	24	22	23
17	21	7.9	7.0	8.4	12	54	6.7	22	39	18	13	22
18	17	7.7	6.7	9.0	13	46	6.0	18	36	13	13	21
19	14	7.9	7.0	9.8	12	43	6.0	25	30	14	16	23
20	12	8.0	9.1	9.3	12	43	6.0	26	18	17	23	23
21	12	7.9	11	9.6	13	33	6.0	24	20	30	24	22
22	10	7.7	11	9.7	16	23	5.6	22	22	22	26	20
23	9.1	7.8	9.5	9.7	16	19	6.3	21	22	25	22	20
24	9.7	8.1	8.5	9.7	15	17	10	24	21	35	20	18
25	9.3	8.3	8.2	9.7	15	15	7.7	17	21	35	24	20
26	8.6	8.5	8.1	9.3	16	13	11	22	19	34	23	27
27	8.1	8.1	8.2	12	15	13	12	24	19	32	32	43
28	7.3	8.0	8.1	13	15	11	7.5	30	20	47	31	40
29	9.3	7.9	7.9	12	---	11	8.5	33	20	56	40	52
30	11	7.5	7.7	10	---	12	9.8	34	15	55	47	53
31	11	---	7.6	8.7	---	12	---	36	---	49	37	---
TOTAL	454.4	253.2	229.0	263.5	283.9	664	265.4	720.2	819	1046	749	870
MEAN	14.7	8.44	7.39	8.50	10.1	21.4	8.85	23.2	27.3	33.7	24.2	29.0
MAX	32	11	11	13	16	56	15	36	42	56	47	53
MIN	7.3	7.5	6.0	6.4	5.2	11	5.6	7.2	15	13	13	18
AC-FT	901	502	454	523	563	1320	526	1430	1620	2070	1490	1730

CAL YR 1981 TOTAL 4713.4 MEAN 12.9 MAX 43 MIN 4.5 AC-FT 9350
WTR YR 1982 TOTAL 6617.6 MEAN 18.1 MAX 56 MIN 5.2 AC-FT 13130

WEBER RIVER BASIN

10141400 HOWARD SLOUGH AT HOOPER, UTAH

LOCATION.--Lat 41°08'25", long 112°07'17", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ 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 mi² (53.4 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1971 to current year. Records collected at this site by U.S. Bureau of Reclamation June 25, 1952 to September 30, 1955.

GAGE.--Water-stage recorder. Altitude of gage is 4,215 ft (1,285 m) from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--11 years, 27.0 ft³/s (0.765 m³/s), 19,560 acre-ft/yr (24.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 294 ft³/s (8.33 m³/s) Feb. 15, 1979, gage height, 3.97 ft (1.210 m); minimum, 1.8 ft³/s (0.05 m³/s) Apr. 30-May 2, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 120 ft³/s (3.40 m³/s), and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Mar. 15 (est)	1330	135	3.82	2.57	0.783
Sept. 29	0530	*180	5.10	3.03	.924

Minimum discharge, 6.3 ft³/s (0.19 m³/s) Apr. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	17	16	14	18	20	20	45	15	36	45	45
2	22	17	16	14	17	27	26	46	31	33	40	39
3	26	16	16	13	17	27	24	52	28	29	39	42
4	44	15	15	13	16	27	23	48	30	28	38	46
5	40	15	15	14	12	26	21	54	38	70	39	44
6	38	14	16	13	9.0	23	21	46	32	98	31	44
7	30	14	16	11	9.2	20	21	35	34	66	36	41
8	34	13	14	10	9.5	19	20	34	20	61	36	40
9	26	13	14	11	9.8	18	19	49	17	72	34	42
10	23	13	14	11	10	18	19	70	20	67	32	56
11	74	14	13	11	11	26	18	73	26	60	27	59
12	80	16	13	12	11	34	38	63	27	44	30	45
13	55	16	14	12	12	23	24	60	26	40	33	61
14	47	18	14	13	15	34	14	57	34	35	33	66
15	41	19	18	13	17	102	14	44	39	41	29	46
16	62	18	17	14	23	89	17	38	37	32	28	38
17	46	14	15	15	22	63	14	31	34	31	24	45
18	28	17	15	17	21	54	14	29	37	38	32	40
19	24	19	20	19	21	60	12	45	36	40	29	37
20	20	18	23	19	21	48	12	41	27	36	22	36
21	17	18	27	18	24	37	13	40	21	38	22	33
22	17	18	21	17	27	32	11	39	22	24	26	31
23	17	20	18	16	24	27	11	38	21	34	31	27
24	15	19	16	16	22	25	15	40	21	48	34	26
25	14	23	17	17	22	23	12	39	26	56	36	29
26	13	19	17	21	22	22	9.7	46	26	44	43	80
27	13	18	18	32	24	21	7.9	44	29	37	49	116
28	12	18	16	26	20	20	13	67	25	60	54	87
29	28	18	16	22	---	22	23	37	19	63	62	149
30	26	17	15	19	---	23	21	25	23	65	58	79
31	19	---	15	19	---	20	---	22	---	48	55	---
TOTAL	973	504	510	492	486.5	1030	527.6	1397	821	1474	1127	1569
MEAN	31.4	16.8	16.5	15.9	17.4	33.2	17.6	45.1	27.4	47.5	36.4	52.3
MAX	80	23	27	32	27	102	38	73	39	98	62	149
MIN	12	13	13	10	9.0	18	7.9	22	15	24	22	26
AC-FT	1930	1000	1010	976	965	2040	1050	2770	1630	2920	2240	3110

CAL YR 1981 TOTAL 8418.3 MEAN 23.1 MAX 107 MIN 8.5 AC-FT 16700
WTR YR 1982 TOTAL 10911.1 MEAN 29.9 MAX 149 MIN 7.9 AC-FT 21640

10141400 HOWARD SLOUGH AT HOOPER, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1972 to August 1978, October 1979 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)
OCT										
16...	1000	56	920	8.5	5.0	9.0	--	--	280	.00
DEC										
10...	1130	14	940	8.4	16.5	5.5	--	--	360	5.0
29...	1030	15	1110	8.3	.5	1.0	--	--	370	.00
MAR										
23...	1200	27	1340	8.3	10.0	7.0	--	--	410	.00
APR										
10...	1400	19	1190	8.4	11.5	11.0	--	--	390	.00
MAY										
12...	1115	62	550	7.9	11.5	9.5	9.7	645	200	.00
JUN										
30...	1330	27	810	8.0	34.0	21.5	6.2	641	270	.00
AUG										
10...	1200	34	770	8.2	31.5	20.0	7.2	648	270	.00
SEP										
22...	1115	34	*620	8.1	26.0	16.0	7.0	650	270	.00

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT									
16...	53	37	74	34	2.0	17	320	1.9	21
DEC									
10...	68	45	78	31	1.8	13	350	2.7	59
29...	66	49	110	38	2.6	15	390	3.7	71
MAR									
23...	64	61	150	43	3.3	24	490	4.7	79
APR									
10...	63	57	120	38	2.7	21	420	3.2	65
MAY									
12...	47	21	37	27	1.2	7.4	210	5.1	35
JUN									
30...	52	33	62	32	1.7	13	310	6.0	47
AUG									
10...	56	31	51	28	1.4	13	302	3.7	44
SEP									
22...	61	29	43	25	1.2	8.7	272	4.2	40

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
OCT									
16...	75	.3	19	497	.66	75.1	1.8	.230	.71
DEC									
10...	74	.4	19	580	.77	22.2	2.9	.120	.37
29...	110	.5	23	695	.92	27.8	3.5	.240	.74
MAR									
23...	130	.6	24	855	1.1	61.6	6.0	.360	1.1
APR									
10...	110	.5	20	731	.96	38.3	5.0	.270	.83
MAY									
12...	32	.2	12	323	.43	54.2	1.1	.130	.40
JUN									
30...	49	.4	19	465	.63	33.6	.74	.190	.58
AUG									
10...	45	.3	20	446	.60	40.9	.89	.150	.46
SEP									
22...	43	.3	15	409	.55	37.8	1.2	.080	.25

* Laboratory value.

WEBER RIVER BASIN

10141400 HOWARD SLOUGH AT HOOPER, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAR 23...	1200	48	160	<1	<10	3	<1	120	.1	1	<1	12
MAY 12...	1115	14	93	<3	<10	2	1	34	<.1	<1	<1	<12

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 16...	1000	240	35	1
DEC 10...	1130	200	16	26
29...	1030	240	13	23
MAR 23...	1200	360	64	19
APR 10...	1400	310	<9	31
MAY 12...	1115	120	21	14
JUN 30...	1330	230	33	11
AUG 10...	1200	200	16	13
SEP 22...	1115	140	12	14

DATE	TIME	CYANIDE TOTAL (MG/L AS CN)
MAR 23...	1200	<.01
MAY 12...	1115	<.01

JORDAN RIVER BASIN

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10146400 CURRANT CREEK NEAR MONA, UTAH

LOCATION.--Lat 39°48'09", long 111°51'44", in NE¼SW¼NW¼, sec.6, T.12 S., R.1 E., Juab County, Hydrologic Unit 16020201, on left bank 20 ft (6 m) upstream from bridge, 300 ft (91 m) downstream from Burrison 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 mi² (191.2 km²).

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 ft³/s (9.77 m³/s) Jan. 15, 1980, gage height, 4.85 ft (1.478 m); minimum, 3.4 ft³/s (0.096 m³/s) Aug. 1-4, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 204 ft³/s (5.78 m³/s) Feb. 22, gage height, 4.27 ft (1.301 m); minimum daily, 7.7 ft³/s (0.218 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	22	19	36	31	42	38	96	17	11	11	10
2	7.9	20	20	24	32	66	44	95	14	11	11	10
3	8.5	19	24	20	32	104	45	105	14	11	12	10
4	15	19	28	18	32	100	41	128	13	11	11	11
5	15	19	31	22	32	81	40	127	12	11	11	11
6	12	18	32	19	32	86	42	115	12	12	11	11
7	9.7	19	28	18	32	74	53	85	12	11	11	11
8	15	19	24	17	32	61	65	53	12	11	11	11
9	14	19	23	17	32	52	70	45	11	12	11	11
10	11	19	22	17	32	47	46	43	11	11	11	11
11	17	18	21	18	32	51	42	36	11	11	11	11
12	15	19	20	19	31	59	52	27	11	11	11	11
13	12	18	23	20	31	59	66	21	11	11	11	14
14	18	18	23	22	31	55	93	20	11	11	11	16
15	14	19	23	24	32	86	86	18	11	11	11	14
16	22	19	21	26	58	125	78	16	11	11	11	13
17	23	18	19	32	82	85	74	17	11	11	11	12
18	17	29	17	30	117	66	77	20	12	11	11	12
19	16	25	26	29	113	55	84	33	12	9.9	11	13
20	16	22	33	28	111	49	84	35	12	10	10	12
21	15	21	37	27	129	36	71	22	12	10	10	12
22	15	22	34	26	150	35	59	20	12	10	10	11
23	15	23	21	26	136	34	56	17	12	11	10	11
24	15	22	17	27	79	35	54	15	14	12	10	11
25	15	21	17	28	56	35	64	16	15	12	10	12
26	15	21	17	29	46	36	70	16	14	12	10	17
27	14	22	16	35	43	43	74	14	12	12	11	42
28	14	24	17	37	39	42	86	14	11	12	11	118
29	38	24	19	33	---	41	97	18	11	12	11	147
30	53	21	36	32	---	47	104	22	11	12	12	153
31	30	---	46	31	---	43	---	22	---	12	10	---
TOTAL	524.8	619	754	787	1635	1830	1955	1331	365	346.9	334	769
MEAN	16.9	20.6	24.3	25.4	58.4	59.0	65.2	42.9	12.2	11.2	10.8	25.6
MAX	53	29	46	37	150	125	104	128	17	12	12	153
MIN	7.7	18	16	17	31	34	38	14	11	9.9	10	10
AC-FT	1040	1230	1500	1560	3240	3630	3880	2640	724	688	662	1530

CAL YR 1981 TOTAL 7283.1 MEAN 20.0 MAX 95 MIN 3.4 AC-FT 14450
WTR YR 1982 TOTAL 11250.7 MEAN 30.8 MAX 153 MIN 7.7 AC-FT 22320

JORDAN RIVER BASIN

10148200 TIE FORK NEAR SOLDIER SUMMIT, UTAH

LOCATION.--39°57'00", long 111°12'58", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ 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 mi² (50.2 km²).

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, which are poor. No diversion.

AVERAGE DISCHARGE.--19 years, 5.20 ft³/s (0.147 m³/s), 3,770 acre-ft/yr (4.65 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 422 ft³/s (12.0 m³/s) July 16, 1975, gage height, 4.92 ft (1.500 m) from high-water mark, from rating curve extended above 26 ft³/s (0.736 m³/s) on basis of slope-area measurement; minimum recorded, 0.2 ft³/s (0.006 m³/s) Nov. 17, Dec. 7, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 15 ft³/s (0.425 m³/s), 57 ft³/s (1.61 m³/s) May 6, gage height, 2.73 ft (0.832 m); minimum, 0.50 ft³/s (0.014 m³/s) Dec. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	2.8	2.2	2.2	2.3	4.3	8.9	36	24	14	8.7	5.1
2	2.5	2.8	2.7	1.9	2.4	4.4	8.9	39	23	13	8.7	5.1
3	2.6	2.8	2.7	1.8	2.5	4.3	9.2	42	22	13	8.4	5.1
4	3.1	2.8	2.5	2.1	2.5	4.3	9.2	47	21	13	8.4	5.1
5	2.9	2.7	2.5	2.2	1.8	4.1	8.9	50	21	13	8.2	5.1
6	2.7	2.7	2.4	2.3	1.9	4.1	9.4	50	20	13	8.0	5.1
7	2.7	2.8	2.4	2.3	2.0	4.1	9.7	47	20	13	7.8	4.9
8	3.3	2.7	2.4	1.9	2.3	4.4	9.4	45	19	13	7.8	4.9
9	2.9	2.7	2.4	1.8	2.6	4.6	9.7	44	19	12	7.8	4.9
10	2.9	2.5	2.4	2.0	2.8	4.6	9.7	45	18	12	7.3	5.6
11	2.9	2.5	2.3	2.2	2.8	4.9	9.7	42	18	12	7.6	5.3
12	2.5	2.5	2.2	2.6	2.8	5.3	10	40	18	12	7.3	5.1
13	2.4	2.5	2.3	2.6	2.8	5.4	11	37	17	11	7.3	6.0
14	2.5	2.5	2.2	2.5	2.8	5.6	11	35	17	11	7.3	5.4
15	2.5	2.5	2.3	2.5	2.8	6.2	12	33	16	11	6.9	5.3
16	2.9	2.5	2.1	2.6	3.0	6.3	12	33	16	11	6.9	4.9
17	2.7	2.5	1.9	2.8	2.8	6.3	13	32	16	10	6.7	4.9
18	2.8	2.5	1.8	2.6	2.8	6.5	13	33	16	10	6.9	4.8
19	2.9	2.2	2.3	2.3	2.7	6.7	13	33	16	10	6.5	4.8
20	2.9	2.2	2.3	2.2	2.8	6.7	14	31	16	9.9	5.8	4.8
21	2.9	2.3	2.4	2.1	3.0	5.4	14	30	15	9.9	6.3	4.6
22	2.9	2.3	2.2	2.0	3.2	5.8	15	30	15	9.9	5.8	4.4
23	2.9	2.4	1.4	2.2	3.3	6.3	15	29	15	9.7	5.8	4.4
24	2.9	2.3	1.4	2.5	3.2	6.9	16	28	15	9.7	5.6	4.4
25	2.9	2.4	1.9	2.2	3.3	7.1	17	28	15	10	5.6	4.8
26	2.8	1.6	2.5	2.5	3.4	7.3	19	28	15	9.7	5.6	5.1
27	2.8	1.7	2.8	2.5	3.6	7.6	21	27	14	9.7	5.6	5.3
28	2.8	2.0	2.3	2.3	4.0	7.8	25	27	14	9.7	5.4	5.8
29	3.0	2.3	2.2	2.3	---	8.4	30	26	14	9.2	5.4	5.4
30	2.9	2.2	2.3	2.1	---	8.4	33	26	14	8.9	5.3	6.7
31	2.7	---	2.4	2.2	---	8.4	---	25	---	8.7	5.3	---
TOTAL	86.6	73.2	70.1	70.3	78.2	182.5	416.7	1098	519	342.0	212.0	153.1
MEAN	2.79	2.44	2.26	2.27	2.79	5.89	13.9	35.4	17.3	11.0	6.84	5.10
MAX	3.3	2.8	2.8	2.8	4.0	8.4	33	50	24	14	8.7	6.7
MIN	2.4	1.6	1.4	1.8	1.8	4.1	8.9	25	14	8.7	5.3	4.4
AC-FT	172	145	139	139	155	362	827	2180	1030	678	421	304

CAL YR 1981 TOTAL 1041.8 MEAN 2.85 MAX 4.3 MIN 1.4 AC-FT 2070
WTR YR 1982 TOTAL 3301.7 MEAN 9.05 MAX 50 MIN 1.4 AC-FT 6550

LOCATION.--Lat 40°02'59", long 111°32'50", in SE¼NE¼NW¼ sec.12, T.9 S., R.3 E., Utah County, Hydrologic Unit 16020202, on right bank 600 ft (183 m) upstream from outlet of Cold Springs, 0.9 mi (1.4 km) upstream from diversion dam of Bureau of Reclamation, 1.5 mi (2.4 km) northwest of Castilla, and 2.8 mi (4.5 km) downstream from Diamond Fork.

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.

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.

AVERAGE DISCHARGE.--13 years (1890, 1903-14), 172 ft³/s (4.871 m³/s); 58 years (1914-17, 1919-25, 1933-82), 219 ft³/s (6.202 m³/s), 158,700 acre-ft/yr (196 hm³/yr); includes transmountain diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,610 ft³/s (102 m³/s) May 3, 1952, gage height, 9.83 ft (2.996 m); minimum, 5.8 ft³/s (0.16 m³/s) Dec. 18, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,540 ft³/s (43.6 m³/s) May 4, gage height, 9.96 ft (3.036 m); minimum, 28 ft³/s (0.79 m³/s) Jan. 7.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	76	68	84	97	161	237	1150	756	611	279	303
2	141	73	68	51	94	182	231	1290	725	594	280	306
3	161	73	73	66	100	203	228	1390	694	587	278	300
4	164	71	71	63	84	176	237	1450	663	566	299	280
5	133	71	71	71	41	158	219	1430	645	569	353	266
6	116	69	71	63	37	150	225	1330	590	511	390	253
7	102	68	71	30	52	144	222	1260	552	470	443	256
8	113	68	71	32	68	147	212	1200	545	463	469	259
9	89	69	71	41	66	150	209	1180	504	466	480	243
10	73	68	71	30	81	170	212	1150	525	418	498	239
11	113	68	71	63	84	200	225	1060	470	395	528	243
12	92	71	68	76	76	269	572	956	449	422	538	236
13	75	71	73	84	81	222	625	924	442	432	539	229
14	73	71	71	86	89	228	676	878	429	466	518	233
15	75	71	76	92	94	320	695	917	418	504	483	223
16	95	71	73	94	102	266	631	931	480	497	481	213
17	86	73	71	97	105	228	583	966	484	473	473	199
18	78	81	58	105	102	212	624	1000	504	466	446	186
19	75	73	79	102	105	206	601	1070	501	463	432	176
20	73	71	76	105	105	203	521	1040	494	460	444	173
21	71	73	89	105	108	200	472	1020	525	446	419	166
22	69	73	84	102	122	197	483	1000	556	434	390	160
23	68	76	56	92	136	191	576	984	583	412	395	153
24	68	73	46	105	138	191	674	1010	566	390	412	151
25	67	76	66	108	138	197	772	1010	559	383	412	150
26	66	66	66	108	138	212	829	1000	542	385	412	166
27	66	66	68	116	141	237	904	984	604	383	398	226
28	67	66	61	92	150	263	984	998	607	373	368	280
29	86	71	66	102	---	295	1120	924	600	342	347	313
30	87	68	73	84	---	250	1110	865	600	309	337	340
31	77	---	81	100	---	231	---	809	---	290	320	---
TOTAL	2855	2135	2178	2549	2734	6459	15909	33176	16612	13980	12861	6921
MEAN	92.1	71.2	70.3	82.2	97.6	208	530	1070	554	451	415	231
MAX	164	81	89	116	150	320	1120	1450	756	611	539	340
MIN	66	66	46	30	37	144	209	809	418	290	278	150
AC-FT	5660	4230	4320	5060	5420	12810	31560	65800	32950	27730	25510	13730
CAL YR 1981	TOTAL	69540	MEAN	191	MAX	561	MIN	46	AC-FT	137900		
WTR YR 1982	TOTAL	118369	MEAN	324	MAX	1450	MIN	30	AC-FT	234800		

JORDAN RIVER BASIN

10152000 SPANISH FORK NEAR LAKESHORE, UTAH

LOCATION.--Lat 40°09'30", long 111°43'50", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ 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 mi² (1,748 km²).

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 poor. Flow regulated by many diversions for irrigation and hydroelectric powerplant. During latter part of irrigation season, only wasted and return waters pass gage. Station is below all diversions.

AVERAGE DISCHARGE.--62 years (water years 1905-07, 1910-18, 1921-25, 1939-82), 87.7 ft³/s (2.484 m³/s), 63,540 acre-ft/yr (78.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 3,020 ft³/s (85.5 m³/s) Apr. 28, 1952; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,380 ft³/s (39.08 m³/s) May 5, gage height, 12.02 ft (3.664 m); minimum daily, 2.3 ft³/s (0.065 m³/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	104	94	114	110	182	270	1100	317	66	27	11
2	13	104	91	94	106	196	273	1170	268	67	24	8.5
3	17	102	98	102	112	227	266	1240	209	62	23	7.2
4	71	100	93	98	102	207	273	1320	189	64	21	6.2
5	67	96	96	98	96	192	249	1330	200	63	21	5.9
6	57	94	94	98	75	182	267	1260	189	56	19	11
7	58	93	96	70	83	173	260	1100	160	44	18	14
8	76	102	92	72	92	177	244	964	170	39	18	7.8
9	67	100	94	84	86	176	241	912	160	41	17	2.3
10	55	97	95	73	97	190	236	898	153	36	16	15
11	98	94	94	86	103	211	253	809	144	33	17	37
12	131	94	89	94	100	277	531	692	105	34	18	40
13	100	96	94	100	106	247	715	601	90	35	14	59
14	104	96	93	102	114	243	772	560	84	36	13	70
15	105	96	95	104	119	332	821	567	78	38	12	76
16	131	94	96	109	131	314	708	597	82	33	10	67
17	128	93	89	111	144	263	637	698	86	24	13	78
18	114	108	80	114	142	244	684	748	80	18	13	89
19	108	104	96	109	142	231	669	808	72	9.6	15	86
20	104	97	98	114	145	221	582	840	73	42	13	95
21	107	98	121	118	150	205	532	782	76	33	15	89
22	100	96	120	112	158	204	524	737	77	32	16	86
23	84	100	89	100	166	202	601	744	76	33	15	78
24	87	100	73	110	168	202	706	826	81	36	14	71
25	92	102	91	114	164	207	826	816	86	42	16	74
26	90	97	92	114	164	222	888	714	75	47	16	100
27	92	90	100	127	165	259	917	688	72	39	19	181
28	91	93	91	104	169	277	1000	725	71	40	20	279
29	121	97	91	118	---	338	1120	559	67	39	23	287
30	137	94	107	102	---	289	1100	424	62	29	20	344
31	115	---	114	111	---	256	---	366	---	26	16	---
TOTAL	2729.0	2931	2956	3176	3509	7146	17165	25595	3652	1236.6	532	2374.9
MEAN	88.0	97.7	95.4	102	125	231	572	826	122	39.9	17.2	79.2
MAX	137	108	121	127	169	338	1120	1330	317	67	27	344
MIN	9.0	90	73	70	75	173	236	366	62	9.6	10	2.3
AC-FT	5410	5810	5860	6300	6960	14170	34050	50770	7240	2450	1060	4710

CAL YR 1981 TOTAL 23269.33 MEAN 63.8 MAX 143 MIN .88 AC-FT 46150
WTR YR 1982 TOTAL 73002.50 MEAN 200 MAX 1330 MIN 2.3 AC-FT 144800

10153800 NORTH FORK PROVO RIVER NEAR KAMAS, UTAH

LOCATION.--Lat 40°35'48", long 111°05'48", in NE¼SW¼SE¼ sec.36, T.2 S., R.7 E., Summit County, Hydrologic Unit 16020203, on right bank 500 ft (152 m) upstream from bridge on State Highway 150, 1,500 ft (457 m) upstream from mouth, and 9.5 mi (15.3 km) southeast of Kamas.

DRAINAGE AREA.--24.4 mi² (63.2 km²).

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 poor. Slight regulation from several small reservoirs at headwaters used for storing water for release during the summer and fall. No diversions above station.

AVERAGE DISCHARGE.--19 years, 39.6 ft³/s (1.12 m³/s), 28,690 acre-ft/yr (35.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 705 ft³/s (20.0 m³/s) July 4, 1975, gage height, 3.00 ft (0.914 m); minimum recorded, 1.9 ft³/s (0.054 m³/s) several days during winter of 1964-65.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 200 ft³/s (5.66 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 27	2300	*397	11.2	2.48	0.756
June 17	2300	280	7.93	2.11	.643

Minimum daily, 5.9 ft³/s (0.167 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	14	9.7	9.1	10	8.5	12	114	160	188	44	23
2	6.1	13	9.4	9.4	10	8.5	12	138	142	154	50	22
3	9.4	13	13	9.4	10	8.8	11	158	152	142	50	21
4	12	13	12	9.7	9.1	8.3	11	166	168	136	48	20
5	9.7	12	11	9.7	7.0	7.8	11	158	162	126	45	20
6	8.8	12	11	9.1	7.5	8.0	11	140	136	104	44	21
7	8.3	12	11	7.8	8.0	8.3	11	134	126	92	44	21
8	10	12	11	8.5	8.0	8.3	10	130	136	89	46	20
9	9.1	11	11	9.4	7.8	8.0	11	119	152	88	43	18
10	8.5	11	11	9.7	8.3	8.3	11	107	182	83	40	22
11	19	11	11	10	8.5	8.6	13	97	209	77	39	23
12	14	11	10	10	8.3	9.1	21	92	215	74	39	20
13	12	10	11	10	8.1	8.8	20	94	198	73	37	22
14	13	11	10	10	8.5	9.1	22	102	186	69	35	22
15	12	11	11	10	8.5	9.4	24	116	177	65	33	22
16	13	10	11	10	8.3	9.1	24	132	202	62	32	23
17	13	10	9.1	10	8.0	8.8	24	146	232	57	33	21
18	13	10	10	10	8.3	8.5	25	171	232	55	30	19
19	14	9.2	13	11	8.0	8.5	23	170	217	60	29	17
20	14	9.6	13	11	8.0	8.3	22	166	212	57	28	21
21	14	9.8	13	11	8.3	7.8	20	177	188	55	28	19
22	14	10	12	10	8.5	8.3	22	175	207	54	28	16
23	13	10	8.0	10	8.8	8.8	29	222	207	53	27	15
24	13	10	9.1	12	8.3	8.8	37	250	200	51	26	14
25	12	10	9.4	11	8.3	8.8	45	242	200	51	26	18
26	12	8.3	9.7	11	8.3	9.4	50	285	193	53	25	50
27	11	9.7	10	11	8.8	10	62	318	207	50	25	72
28	11	10	10	10	8.5	11	82	300	210	49	25	61
29	14	10	11	11	---	12	100	212	200	48	25	55
30	12	9.7	10	9.4	---	11	102	177	184	46	24	58
31	17	---	10	11	---	12	---	160	---	44	24	---
TOTAL	367.8	323.3	331.4	311.2	236.0	278.9	878	5168	5592	2405	1072	796
MEAN	11.9	10.8	10.7	10.0	8.43	9.00	29.3	167	186	77.6	34.6	26.5
MAX	19	14	13	12	10	12	102	318	232	188	50	72
MIN	5.9	8.3	8.0	7.8	7.0	7.8	10	92	126	44	24	14
AC-FT	730	641	657	617	468	553	1740	10250	11090	4770	2130	1580

CAL YR 1981	TOTAL	11820.1	MEAN	32.4	MAX	247	MIN	5.3	AC-FT	23450
WTR YR 1982	TOTAL	17759.6	MEAN	48.7	MAX	318	MIN	5.9	AC-FT	35230

JORDAN RIVER BASIN

10154200 PROVO RIVER NEAR WOODLAND, UTAH

LOCATION.--Lat 40°33'28", long 111°10'05", in NE¼NW¼SE¼ sec.17, T.3 S., R.7 E., Summit County, Hydrologic Unit 16020203, on right bank on south side of State Highway 35, 0.3 mi (0.5 km) downstream from Twin Pine Bridge, 1.6 mi (2.6 km) downstream from South Fork and 3.5 mi (5.6 km) southeast of Woodland.

DRAINAGE AREA.--162 mi² (420 km²).

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 good. Records include flow of Duchesne tunnel, transmountain diversion. Flow also affected by some small irrigation diversions above station and by storage in several small reservoirs at headwaters. Information on these is available from the Provo River Water Commissioner's Report.

AVERAGE DISCHARGE.--19 years, 219 ft³/s (6.202 m³/s), 158,700 acre-ft/yr (196 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,950 ft³/s (83.5 m³/s) May 28, 1979; gage height, 5.32 ft (1.622 m); minimum, 22 ft³/s (0.623 m³/s) Nov. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,060 ft³/s (58.3 m³/s) May 27, gage height, 5.00 ft (1.524 m); minimum, 28 ft³/s (0.793 m³/s) Mar. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	89	69	60	70	67	78	631	985	831	255	134
2	47	89	82	62	70	68	78	797	918	699	252	130
3	62	89	87	63	71	68	76	959	965	623	264	128
4	92	85	78	64	59	67	76	1030	1040	566	240	127
5	76	83	76	65	50	63	74	1000	1050	564	226	127
6	66	82	76	60	54	65	76	836	894	500	221	127
7	62	82	76	51	59	65	75	786	838	434	215	140
8	78	82	73	57	60	65	70	786	891	407	226	130
9	74	75	73	63	58	64	71	729	953	381	218	123
10	68	72	74	66	60	66	74	645	1070	348	200	147
11	128	74	72	70	63	70	85	565	1200	327	190	151
12	103	72	66	69	62	71	138	504	1230	321	187	132
13	91	76	72	68	61	70	130	438	1140	352	187	144
14	89	85	70	68	64	75	149	475	1100	434	182	151
15	83	84	74	67	63	75	162	570	1040	411	173	151
16	94	81	75	68	60	72	160	660	1090	381	169	173
17	92	82	60	69	60	71	160	744	1240	355	173	157
18	92	86	65	70	59	72	166	918	1240	334	166	140
19	91	70	86	74	58	71	153	965	1150	317	164	132
20	89	83	88	74	59	68	144	831	1110	304	160	162
21	91	88	87	73	62	56	136	918	1010	291	160	147
22	88	84	78	69	64	67	147	1050	1050	282	162	132
23	88	84	53	66	64	68	185	1130	1030	282	157	123
24	89	85	60	78	65	71	232	1390	935	282	151	119
25	85	85	63	74	66	71	279	1370	918	298	149	130
26	80	57	65	73	66	75	291	1560	915	395	147	255
27	83	67	68	72	68	75	334	1700	952	362	147	377
28	82	68	66	69	66	80	418	1650	955	324	149	304
29	100	67	71	75	---	82	530	1230	917	304	155	276
30	92	64	68	63	---	75	534	1080	822	304	147	304
31	76	---	69	74	---	80	---	922	---	273	138	---
TOTAL	2578	2370	2240	2094	1741	2173	5281	28869	30648	12286	5730	4973
MEAN	83.2	79.0	72.3	67.5	62.2	70.1	176	931	1022	396	185	166
MAX	128	89	88	78	71	82	534	1700	1240	831	264	377
MIN	47	57	53	51	50	56	70	438	822	273	138	119
AC-FT	5110	4700	4440	4150	3450	4310	10470	57260	60790	24370	11370	9860

CAL YR 1981 TOTAL 58852 MEAN 161 MAX 1060 MIN 42 AC-FT 116700
WTR YR 1982 TOTAL 100983 MEAN 277 MAX 1700 MIN 47 AC-FT 200300

JORDAN RIVER BASIN

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10155000 PROVO RIVER NEAR HAILSTONE, UTAH

LOCATION.--Lat 40°36'03", long 111°21'35", in SW 1/4, NE 1/4, 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 mi² (603 km²).

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 hm³)--is available from Provo River Water Commissioner's Report.

AVERAGE DISCHARGE.--29 years (1954-82) 281 ft³/s (7.958 m³/s), 203,600 acre-ft/yr (251 hm³/yr), since completion of Duchesne tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,880 ft³/s (109.9 m³/s) June 4, 1957, gage height, 7.28 ft (2.219 m) datum then in use; minimum, 11 ft³/s (0.312 m³/s) Aug. 20, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,730 ft³/s (77.3 m³/s) May 28, gage height, 7.35 ft (2.240 m); minimum daily, 53 ft³/s (1.50 m³/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	146	127	90	110	123	129	868	1040	938	330	111
2	53	164	135	82	110	126	128	1080	985	818	330	111
3	74	144	142	77	111	125	126	1320	1000	716	344	106
4	127	140	129	81	99	123	127	1450	1050	658	299	102
5	103	138	127	84	90	119	120	1440	1100	658	278	104
6	83	137	127	79	94	121	122	1190	1010	596	233	106
7	77	137	127	70	99	121	121	1090	947	513	201	117
8	104	137	122	76	100	122	116	1080	966	459	200	113
9	95	132	122	88	98	122	114	1000	985	420	220	104
10	85	132	122	95	100	115	122	876	1060	368	182	134
11	162	134	117	100	105	119	136	746	1150	344	165	173
12	140	132	111	101	105	117	218	950	1250	335	163	139
13	114	139	122	100	106	118	202	550	1080	359	163	167
14	114	146	117	100	109	123	226	576	1070	570	167	191
15	105	143	127	100	108	125	226	679	957	544	155	191
16	136	140	122	101	105	120	222	778	1060	513	142	198
17	144	134	106	103	105	121	220	860	1230	471	147	185
18	137	147	120	104	105	120	225	1040	1250	442	139	164
19	133	124	134	110	105	117	212	1200	1180	431	139	158
20	130	135	139	110	104	119	203	994	1180	431	134	191
21	130	144	139	109	107	118	185	1070	1090	420	129	176
22	129	138	124	105	110	123	230	1250	1140	383	132	153
23	139	138	102	103	110	124	280	1330	1140	394	127	145
24	137	137	96	116	113	116	310	1600	1060	373	120	139
25	133	139	101	114	115	117	330	1640	1040	353	120	153
26	130	115	85	113	115	127	400	1770	1020	479	120	290
27	132	124	87	112	117	130	525	1740	1040	486	120	500
28	133	124	84	109	115	136	636	1690	1030	442	122	415
29	172	125	93	115	---	138	786	1270	1000	415	134	383
30	156	126	96	103	---	129	762	1160	929	409	124	442
31	132	---	97	114	---	134	---	1040	---	368	117	---
TOTAL	3694	4091	3599	3064	2970	3808	7759	35327	32039	15106	5496	5661
MEAN	119	136	116	98.8	106	123	259	1140	1068	487	177	189
MAX	172	164	142	116	117	138	786	1770	1250	938	344	500
MIN	53	115	84	70	90	115	114	550	929	335	117	102
AC-FT	7330	8110	7140	6080	5890	7550	15390	70070	63550	29960	10900	11230
CAL YR 1981	TOTAL	80675	MEAN 221	MAX 2090	MIN 47	AC-FT 160000						
WTR YR 1982	TOTAL	122614	MEAN 336	MAX 1770	MIN 53	AC-FT 243200						

LOCATION.--Lat 40°24'12", Long 111°31'44", in NE¼NE¼NE¼ sec.7, T.5 S., R.4 E., Wasatch County, Hydrologic Unit 16020203, on right bank 200 ft (61 m) upstream from Deer Creek, 1,000 ft (305 m) downstream from Deer Creek Dam, and 4.1 mi (6.6 km) northeast of Vivian Park.

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

REVISED RECORDS.--WDR UT-77-1: Drainage area. WDR UT-81-1: 1980.

GAGE.--Water-stage recorder. Altitude of gage is 5,270 ft (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.--29 years, 362 ft³/s (10.25 m³/s), 262,300 acre-ft/yr (323 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,190 ft³/s (62.0 m³/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, 1,640 ft³/s (46.4 m³/s) May 28, gage height, 6.66 ft (2.030 m); minimum, 86 ft³/s (2.44 m³/s) Nov. 9, 11.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	187	90	88	128	230	268	291	672	1520	767	436	480
2	185	88	90	129	230	285	292	698	1530	772	439	491
3	185	88	88	132	232	283	286	706	1510	754	426	502
4	177	88	88	129	230	285	283	719	1500	723	459	484
5	138	91	87	132	232	285	283	706	1490	736	459	452
6	98	88	92	130	234	280	282	723	1500	728	426	442
7	98	90	90	129	234	278	384	811	1480	685	439	409
8	98	87	101	130	236	278	553	977	1470	652	436	419
9	98	86	106	130	230	280	577	1040	1460	632	442	466
10	98	87	106	130	232	280	577	1060	1370	596	446	436
11	96	86	160	132	236	293	580	1050	987	535	477	432
12	96	87	208	130	234	290	640	1020	878	494	487	422
13	98	87	208	130	234	290	632	987	878	480	477	363
14	98	92	208	129	232	294	640	948	878	456	491	325
15	98	95	206	128	232	296	640	896	896	439	502	270
16	96	95	206	127	232	293	640	874	896	432	480	262
17	96	92	208	132	232	290	636	846	901	442	846	244
18	96	91	208	132	232	294	628	874	706	442	480	229
19	95	92	208	130	250	288	624	929	592	442	477	219
20	95	92	208	129	260	291	628	939	580	439	477	225
21	94	92	210	128	260	279	624	929	573	442	477	236
22	94	92	210	125	260	267	616	948	558	439	473	275
23	92	88	210	127	258	282	592	939	498	459	473	276
24	92	88	210	130	253	288	585	948	470	461	484	278
25	91	88	210	179	253	290	569	958	480	442	487	271
26	90	88	208	232	262	290	580	977	513	404	466	275
27	90	88	206	230	272	290	596	997	546	400	456	230
28	90	88	204	227	268	290	600	1430	577	395	449	208
29	90	88	206	230	---	292	640	1600	600	381	446	208
30	88	88	208	227	---	291	660	1570	644	390	452	206
31	87	---	151	230	---	290	---	1540	---	436	463	---
TOTAL	3324	2680	5197	4663	6780	8870	16158	30311	28481	16295	14728	10035
MEAN	107	89.3	168	150	242	286	539	978	949	526	475	335
MAX	187	95	210	232	272	296	660	1600	1530	772	846	502
MIN	87	86	87	125	230	267	282	672	470	381	426	206
AC-FT	6590	5320	10310	9250	13450	17590	32050	60120	56490	32320	29210	19900
CAL YR 1981	TOTAL	90818	MEAN	249	MAX	852	MIN	48	AC-FT	180100		
WTR YR 1982	TOTAL	147522	MEAN	404	MAX	1600	MIN	86	AC-FT	292600		

10163000 PROVO RIVER AT PROVO, UTAH

LOCATION.--Lat 40°14'16", long 111°41'55", in NE¼NW¼SE¼ sec.3, T.7 S., R.2 E., Utah County, Hydrologic Unit 16020203, on left bank 1,300 ft (396 m) downstream from bridge on State Highway 114, 2.1 mi (3.4 km) west of Provo, and 2.1 mi (3.4 km) upstream from mouth.

DRAINAGE AREA.--673 mi² (1,760 km²).

PERIOD OF RECORD.--May 1903 to June 1905, May 1933 to September 1934, January 1937 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "at San Pedro, Los Angeles and Salt Lake Railroad bridge, near Provo" 1903-04, and as "at Rio Grande Western Railroad bridge, near Provo" 1905.

REVISED RECORDS.--WSP 1564: 1904, 1934. WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,510 ft (1,375 m) from topographic map. May 1903 to June 1905, nonrecording gages at site 0.8 mi (1.3 km) upstream at different datums. May 1933 to September 1934, nonrecording gage at present site at different datum. January 1937 to November 1938, water-stage recorder at site 1,000 ft (305 m) upstream at different datum. November 1938 to August 23, 1957, water-stage recorder at present site at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records fair. Station is below all diversions. At times entire flow is diverted above station for irrigation. Flow regulated by Deer Creek Reservoir and small lakes at headwaters that serve as reservoirs. Small transmountain diversions from Strawberry River drain into Daniels Creek. Flow affected by Weber-Provo diversion canal and Duchesne tunnel, a transmountain diversion. Certain diversions for industrial use which reach Provo Bay, an arm of Utah Lake, are made above station; however, part of this flow is used for irrigation.

AVERAGE DISCHARGE.--47 years, 192 ft³/s (5.44 m³/s), 139,100 acre-ft/yr (172 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,520 ft³/s (71.4 m³/s) May 6, 1952, gage height, 6.37 ft (1.94 m); no flow for several periods.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,210 ft³/s (34.3 m³/s) May 30, gage height, 6.08 ft (1.853 m); minimum, 17 ft³/s (0.48 m³/s) July 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	96	99	153	237	314	357	403	1080	254	38	36
2	48	96	102	150	236	364	357	403	1090	270	36	36
3	81	98	98	146	237	357	341	446	1080	270	29	36
4	116	98	96	149	238	344	344	517	1070	268	33	40
5	116	101	93	155	239	341	335	521	1060	270	36	43
6	121	103	105	146	240	332	338	513	1090	268	31	46
7	125	100	105	135	239	329	390	610	1070	213	38	51
8	159	100	98	129	241	326	558	753	1030	192	43	47
9	155	101	110	144	237	323	615	824	993	181	50	59
10	146	108	106	146	240	317	615	848	937	170	44	125
11	165	103	136	147	245	360	637	872	589	139	34	168
12	161	100	194	144	248	454	748	833	390	104	41	181
13	155	100	204	148	246	384	739	795	373	87	50	206
14	159	105	204	150	243	370	748	743	376	82	54	211
15	153	110	208	139	242	394	753	707	383	59	51	223
16	151	106	208	142	247	380	743	675	386	48	50	206
17	127	106	213	149	260	370	734	649	383	43	46	197
18	116	108	211	150	276	364	725	631	323	37	38	194
19	117	106	223	149	284	354	711	680	199	31	35	183
20	117	108	218	144	299	350	707	698	187	28	32	201
21	116	106	230	144	302	338	689	680	172	27	34	192
22	116	106	215	140	308	326	680	671	153	21	38	165
23	112	105	211	138	320	344	657	662	129	20	35	155
24	107	103	211	140	311	350	636	675	108	29	34	153
25	103	103	213	165	305	354	627	680	108	28	34	168
26	98	105	213	200	308	357	618	689	125	21	31	248
27	91	105	213	238	320	357	601	702	141	24	32	296
28	98	105	208	235	314	347	572	907	153	36	37	326
29	132	100	213	237	---	354	540	1140	172	38	36	317
30	110	98	238	233	---	350	446	1180	181	37	37	317
31	98	---	192	240	---	347	---	1140	---	36	36	---
TOTAL	3698	3089	5388	5025	7462	10951	17561	22247	15531	3331	1193	4826
MEAN	119	103	174	162	267	353	585	718	518	107	38.5	161
MAX	165	110	238	240	320	454	753	1180	1090	270	54	326
MIN	29	96	93	129	236	314	335	403	108	20	29	36
AC-FT	7330	6130	10690	9970	14800	21720	34830	44130	30810	6610	2370	9570
CAL YR 1981	TOTAL	40637.7	MEAN 111	MAX 449	MIN 1.3	AC-FT 80600						
WTR YR 1982	TOTAL	100302.0	MEAN 275	MAX 1180	MIN 20	AC-FT 198900						

LOCATION.--Lat 40°26'52", long 111°40'53", in SE¼NW¼ 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.

PERIOD OF RECORD.--January 1927 to current year. Monthly discharge only January 1927 to September 1945, published in WSP 1314.

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.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge not determined, occurred July 30, 1953, gage height, 9.2 ft (2.80 m), from floodmark; minimum, 1.1 ft³/s (0.031 m³/s) Dec. 20, 1976 (result of freezeup).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 580 ft³/s (16.4 m³/s) May 27, gage height, 7.22 ft (2.201 m); minimum, 5.8 ft³/s (0.16 m³/s) Feb. 16.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	21	15	16	12	21	24	238	293	266	107	52
2	17	21	16	15	12	24	23	281	269	237	100	52
3	20	21	16	16	13	21	23	340	266	222	97	51
4	22	21	16	16	11	20	23	356	288	220	93	50
5	20	20	16	16	12	20	22	345	319	207	90	50
6	19	20	16	16	13	19	22	299	278	179	92	50
7	18	20	16	15	13	19	22	272	236	158	87	50
8	20	19	16	15	14	19	22	275	219	168	84	49
9	18	19	16	15	14	20	21	284	220	181	79	48
10	19	19	16	15	14	20	22	266	246	175	76	60
11	29	18	16	14	15	29	36	215	295	173	72	55
12	22	18	16	14	16	29	66	185	314	178	75	51
13	21	18	16	14	16	26	64	169	325	177	79	52
14	20	18	17	14	17	28	72	178	328	168	75	51
15	20	18	17	14	16	27	79	195	336	164	74	51
16	21	18	16	14	20	27	79	237	332	178	73	49
17	20	18	14	13	19	25	79	268	366	137	72	48
18	19	18	14	13	18	25	83	302	360	139	72	50
19	19	17	17	14	17	24	80	334	347	134	72	48
20	19	17	17	14	17	23	75	309	349	132	72	47
21	19	18	18	14	18	22	72	313	316	136	68	46
22	20	18	17	13	20	22	76	342	334	132	66	44
23	20	17	14	13	21	22	91	387	343	130	58	43
24	20	17	14	13	20	22	111	416	359	129	54	42
25	20	17	16	13	20	22	122	465	327	127	54	47
26	20	16	16	13	20	23	138	454	291	122	54	80
27	20	15	16	12	20	24	152	478	293	115	55	90
28	21	15	16	12	21	24	179	471	315	112	56	73
29	23	15	16	12	---	25	203	412	303	110	55	69
30	22	15	16	12	---	24	212	349	282	119	54	69
31	21	---	15	12	---	24	---	303	---	116	53	---
TOTAL	627	542	493	432	459	720	2293	9738	9149	4941	2268	1617
MEAN	20.2	18.1	15.9	13.9	16.4	23.2	76.4	314	305	159	73.2	53.9
MAX	29	21	18	16	21	29	212	478	366	266	107	90
MIN	17	15	14	12	11	19	21	169	219	110	53	42
AC-FT	1240	1080	978	857	910	1430	4550	19320	18150	9800	4500	3210
CAL YR 1981	TOTAL	14234	MEAN 39.0	MAX 222	MIN 14	AC-FT	28230					
WTR YR 1982	TOTAL	33279	MEAN 91.2	MAX 478	MIN 11	AC-FT	66010					

LOCATION.--Lat 40°26'38", long 111°55'17", in NW¼SE¼NW¼ sec.26, T.4 S., R.1 W., Salt Lake County, Hydrologic Unit 16020201, at narrows 5.5 mi (8.8 km) northwest of Lehi and 7.5 mi (12.1 km) downstream from Utah Lake.

PERIOD OF RECORD.--May to December 1904, July 1913 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,469.44 ft (1,362.285 m) NGVD of 1929. Prior to May 16, 1920, non-recording gage and May 16, 1920, to Sept. 30, 1934, water-stage recorder, at outlet of Utah Lake 7.5 mi (12.1 km) upstream at different datum.

COOPERATION.--Records of bypassed flow furnished by the Jordan River Distribution System.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,410 ft³/s (39.9 m³/s) June 10, 1952; no flow at times most years when gates are closed.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	330	165	202	279	325	475	561	683	807	754	594	533
2	333	151	203	264	336	475	557	696	822	736	610	537
3	338	155	197	244	347	472	582	689	838	743	621	538
4	327	155	220	272	342	486	507	591	792	687	597	548
5	279	157	222	269	353	486	571	602	816	716	587	550
6	238	159	222	220	344	503	496	647	863	732	573	541
7	225	159	225	259	350	509	543	667	855	723	590	516
8	219	159	225	264	328	509	578	662	761	712	621	522
9	183	159	230	266	342	520	568	654	837	714	610	516
10	180	163	232	269	342	516	582	668	819	706	620	472
11	186	165	199	232	371	533	603	685	840	699	618	374
12	60	169	227	239	407	443	585	652	850	696	618	371
13	11	177	220	227	410	526	596	681	855	696	622	307
14	11	151	234	234	410	537	599	714	817	680	614	277
15	97	50	215	264	416	543	459	705	844	683	619	273
16	161	25	230	285	422	561	568	730	840	668	638	285
17	151	19	239	292	434	578	603	733	830	656	636	277
18	147	13	239	292	440	589	529	775	839	655	636	264
19	151	36	244	292	450	561	547	744	841	655	637	265
20	153	113	241	303	453	541	585	762	832	656	623	352
21	143	184	232	314	462	543	585	759	834	658	606	478
22	147	163	220	303	443	543	603	762	824	659	608	477
23	153	175	256	306	431	547	613	748	818	650	607	472
24	139	173	269	308	450	547	617	748	801	641	595	486
25	149	149	254	311	459	550	625	781	792	609	639	495
26	161	197	272	311	466	550	587	805	788	624	609	480
27	167	218	244	308	462	547	644	797	791	631	610	265
28	179	193	249	306	469	585	649	741	804	621	580	197
29	159	186	279	311	---	547	506	814	802	594	534	149
30	151	186	292	322	---	571	661	809	782	590	548	239
31	173	---	287	319	---	592	---	829	---	594	532	---
TOTAL	5501	4324	7320	8685	11264	16485	17309	22333	24634	20838	18752	12056
MEAN	177	144	236	280	402	532	577	720	821	672	605	402
MAX	338	218	292	322	469	592	661	829	863	754	639	550
MIN	11	13	197	220	325	443	459	591	761	590	532	149
AC-FT	10910	8580	14520	17230	22340	32700	34330	44300	48860	41330	37190	23910

CAL YR 1981	TOTAL	161847	MEAN	443	MAX	698	MIN	11	AC-FT	321000
WTR YR 1982	TOTAL	169501	MEAN	464	MAX	863	MIN	11	AC-FT	336200

JORDAN RIVER BASIN

10170500 SURPLUS CANAL AT SALT LAKE CITY, UTAH

LOCATION.--Lat 40°43'37", long 111°55'33", in SE¼SW¼SW¼ sec.14, T.1 S., R.1 W., Salt Lake County, Hydrologic Unit 16020204, near right bank on upstream side of diversion dam at head of canal, and 250 ft (76 m) downstream from highway bridge over Jordan River on 21st South Street.

PERIOD OF RECORD.--December 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,223.93 ft (1,287.454 m) NGVD of 1929. Prior to Oct. 22, 1952, at site 350 ft (107 m) downstream, and Oct. 22, 1952 to Sept. 30, 1966, at site 400 ft (122 m) downstream at different datum.

REMARKS.--Records good. Flow regulated by diversion structure at station. Canal was built to bypass floodwater of Jordan River around Salt Lake City residential and industrial area (see station 10170490 for records of combined flow of Jordan River and Surplus Canal). Several diversions for irrigation and waterfowl ponds below station.

AVERAGE DISCHARGE.--39 years, 252 ft³/s (7.137 m³/s), 182,600 acre-ft/yr (225 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,540 ft³/s (71.9 m³/s) Sept. 27, 1982; 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, 2,540 ft³/s (71.9 m³/s) Sept. 27, gage height, 6.47 ft (1.972 m); minimum daily, 151 ft³/s (4.28 m³/s) Nov. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163	261	261	422	422	495	686	856	1000	1050	614	214
2	172	261	276	376	417	554	723	895	950	917	480	219
3	232	253	288	345	431	639	723	1090	906	856	385	223
4	480	257	280	345	408	619	744	1180	889	867	312	205
5	300	261	288	371	380	639	639	1020	900	1060	242	250
6	276	265	288	304	398	624	660	912	965	1080	207	263
7	228	280	280	308	408	624	619	840	889	862	203	294
8	417	276	296	308	417	604	665	796	786	759	211	279
9	257	280	300	296	417	594	654	923	754	796	248	255
10	232	280	288	296	422	634	644	1070	829	712	216	532
11	324	276	316	300	426	629	665	923	829	675	205	684
12	272	280	288	300	446	614	873	878	884	639	197	411
13	197	280	300	308	455	639	829	862	985	594	198	445
14	169	280	292	316	485	649	850	818	1210	530	218	401
15	172	211	320	324	490	712	845	775	1180	490	225	357
16	257	151	341	332	506	707	802	791	1050	465	207	333
17	268	163	345	363	470	696	867	770	1080	441	217	323
18	250	225	304	403	455	665	873	775	1080	426	236	310
19	242	181	320	380	465	665	850	1070	1080	389	217	283
20	235	242	337	389	470	634	834	975	1050	363	195	287
21	232	312	371	403	480	634	823	878	1050	332	218	373
22	228	292	320	389	490	639	802	845	1140	324	241	380
23	225	246	320	385	521	639	807	900	1130	341	230	356
24	228	242	328	394	485	629	829	955	1120	371	210	341
25	214	304	328	398	485	608	862	970	1100	380	208	405
26	228	276	320	417	490	624	850	990	1190	358	234	1190
27	235	308	350	475	485	634	818	1110	1100	354	252	2350
28	239	308	341	450	480	639	829	1360	1110	840	247	2000
29	394	268	345	412	---	712	856	1260	1120	856	287	1400
30	358	272	511	417	---	675	889	1070	1010	765	258	1210
31	268	---	371	436	---	670	---	1020	---	686	227	---
TOTAL	7992	7791	9913	11362	12704	19739	23410	29577	30366	19578	7845	16573
MEAN	258	260	320	367	454	637	780	954	1012	632	253	552
MAX	480	312	511	475	521	712	889	1360	1210	1080	614	2350
MIN	163	151	261	296	380	495	619	770	754	324	195	205
AC-FT	15850	15450	19660	22540	25200	39150	46430	58670	60230	38830	15560	32870
CAL YR 1981	TOTAL	143004	MEAN 392	MAX 1130	MIN 151	AC-FT 283600						
WTR YR 1982	TOTAL	196850	MEAN 539	MAX 2350	MIN 151	AC-FT 390500						

JORDAN RIVER BASIN

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10170750 SURPLUS CANAL AT NORTH TEMPLE, AT SALT LAKE CITY, UTAH

LOCATION.--Lat 40°16'14", long 111°58'28", in NW¼SW¼SE¼ sec.32, T.1 N., R.1 W., Salt Lake County, Hydrologic Unit 16020204, 10 ft (3.0 m) downstream from eastbound highway bridge over Surplus Canal on North Temple Street, and 4.4 mi (7.1 km) west of Salt Lake City.

PERIOD OF RECORD.--October 1976 to September 1982 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 4,220 ft (1,286 m) from topographic map.

REMARKS.--Records fair. Flow is completely regulated. The North Point Consolidated Canal diverts 0.5 mi (0.81 m) upstream, Goggin Drain diverts 2.6 mi (4.18 km) downstream, and the Heusted Dam diverts 4.5 mi (7.2 km) downstream.

AVERAGE DISCHARGE.--6 years, 324 ft³/s (9.176 m³/s), 234,700 acre-ft/yr (289 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,560 ft³/s (72.5 m³/s) Sept. 27, 1982, gage height, 11.40 ft (3.475 m); minimum discharge, 23 ft³/s (0.651 m³/s) Oct. 5, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,560 ft³/s (72.5 m³/s) Sept. 27, gage height, 11.40 ft (3.475 m); minimum, 86 ft³/s (2.44 m³/s) Aug. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	230	202	320	417	528	775	1120	945	796	504	210
2	128	215	215	300	403	635	838	1070	896	685	408	208
3	182	204	239	290	425	740	850	1290	852	683	285	226
4	540	204	235	300	400	685	736	1460	868	704	297	221
5	236	219	247	320	395	744	725	1210	848	822	238	256
6	271	303	279	330	400	703	759	1010	928	838	175	320
7	221	323	323	320	403	696	905	905	839	749	162	355
8	374	289	359	310	423	656	759	859	732	696	134	315
9	240	282	382	310	411	621	721	894	665	771	195	256
10	220	296	354	310	423	570	699	1100	680	708	134	590
11	290	291	404	310	420	621	721	1080	779	691	100	908
12	220	289	376	320	411	621	1080	995	848	656	97	363
13	190	301	355	343	417	553	1000	875	923	634	97	506
14	150	296	295	353	449	670	995	854	1030	543	129	557
15	135	228	300	371	478	763	990	840	1160	517	151	363
16	258	110	343	384	506	645	787	831	1120	480	138	384
17	323	128	363	434	397	736	925	820	1080	384	138	446
18	298	240	300	497	434	767	859	800	1070	404	175	434
19	282	174	280	452	425	779	887	830	1080	377	185	395
20	263	219	300	449	518	714	908	940	1010	323	142	384
21	256	384	310	457	540	688	859	900	1010	263	148	497
22	251	392	280	440	560	688	883	880	1050	313	173	506
23	239	305	280	434	610	681	908	900	1070	281	185	384
24	246	301	290	348	400	681	834	1000	1060	331	167	387
25	224	382	290	360	550	674	904	1010	998	375	152	509
26	235	266	280	440	540	597	867	1070	978	359	165	690
27	244	295	300	547	503	696	925	1170	898	318	268	2340
28	249	310	300	475	366	685	920	1480	860	750	260	2140
29	460	262	310	411	---	718	960	1380	819	855	332	1590
30	381	223	400	406	---	775	1140	1120	742	674	323	1300
31	246	---	370	376	---	763	---	936	---	576	256	---
TOTAL	7975	7961	9561	11717	12624	21093	25910	31629	27838	17556	6313	18040
MEAN	257	265	308	378	451	680	864	1020	928	566	204	601
MAX	540	392	404	547	610	779	1140	1480	1160	855	504	2340
MIN	123	110	202	290	366	528	696	800	665	263	97	208
AC-FT	15820	15790	18960	23240	25040	41840	51390	62740	55220	34820	12520	35780
CAL YR 1981	TOTAL	138362	MEAN	379	MAX	840	MIN	42	AC-FT	274400		
WTR YR 1982	TOTAL	198217	MEAN	543	MAX	2340	MIN	97	AC-FT	393200		

JORDAN RIVER BASIN

10171000 JORDAN RIVER AT SALT LAKE CITY, UTAH

LOCATION.--Lat 40°44'01", long 111°55'21", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ 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 mi² (8,904 km²) includes 255 mi² (660 km²) closed basin in Cedar Valley.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,220.08 ft (1,286.280 m) NGVD of 1929. Prior to July 1, 1976 at site 3,200 ft (975 m) upstream at same datum.

REMARKS.--Records good. Flow completely regulated since reconstruction in May 1952 of Surplus Canal diversion dam 4,000 ft (1,220 m) upstream. Flow affected by regulation at Utah Lake, Deer Creek Reservoir, other storage and regulation, and importation of water from other basins. Many diversions above station for irrigation, industrial, and municipal water supplies. For records of Surplus Canal see station 10170500. For records of combined flow, see following page.

AVERAGE DISCHARGE.--39 years (1943-82), 142 ft³/s (4.02 m³/s), 102,900 acre-ft/yr (127 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 384 ft³/s (10.9 m³/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 daily combined discharge (Jordan River and Surplus Canal), 2,480 ft³/s (70.2 m³/s) Sept. 27, 1982; minimum daily, 89 ft³/s (2.52 m³/s) June 23, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 324 ft³/s (9.18 m³/s) Sept. 26, gage height, 4.29 ft (1.308 m); minimum daily, 40 ft³/s (1.133 m³/s) May 15. Maximum daily combined discharge during year (Jordan River and Surplus Canal), 2,480 ft³/s (70.2 m³/s) Sept. 27; minimum daily, 274 ft³/s (7.76 m³/s) Nov. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	168	170	176	166	180	140	72	168	239	187	182
2	160	166	174	166	183	145	140	80	181	227	186	184
3	166	162	172	161	184	99	140	76	173	214	193	184
4	200	160	166	158	182	100	140	54	178	211	186	180
5	166	157	162	156	181	104	140	69	195	229	175	185
6	160	153	167	147	182	110	120	73	197	206	188	181
7	154	152	173	145	182	98	100	68	195	200	207	191
8	185	148	175	153	182	91	108	61	190	208	181	197
9	155	146	173	163	185	135	120	74	192	205	183	193
10	161	139	167	162	181	140	129	83	207	194	175	204
11	172	135	143	161	184	140	123	49	208	194	171	191
12	158	135	141	161	193	140	119	55	204	190	173	209
13	151	133	159	163	193	140	110	47	205	180	175	215
14	145	131	153	163	195	140	88	43	217	195	175	207
15	143	139	146	164	187	148	89	40	209	213	172	201
16	154	144	104	165	188	140	92	85	207	208	166	203
17	153	120	130	171	189	142	94	120	213	199	164	202
18	150	109	158	175	189	148	80	115	208	194	159	199
19	155	93	172	170	185	147	86	140	205	187	165	193
20	162	97	157	169	182	140	95	125	199	195	179	194
21	162	88	162	172	176	138	76	121	197	202	177	206
22	159	134	161	177	174	132	100	118	198	201	177	207
23	157	167	159	177	178	129	80	116	197	203	170	204
24	156	172	158	179	182	129	104	127	195	204	173	201
25	152	158	156	179	182	131	112	140	190	204	185	203
26	153	139	151	182	184	140	105	150	188	205	187	237
27	152	136	153	186	182	144	113	163	187	207	194	132
28	151	132	149	173	181	148	84	197	193	258	196	146
29	206	151	147	164	---	149	83	180	203	241	196	121
30	200	171	165	163	---	149	65	169	215	220	192	103
31	175	---	163	162	---	145	---	155	---	201	189	---
TOTAL	5027	4235	4886	5163	5132	4161	3175	3165	5914	6434	5596	5655
MEAN	162	141	158	167	183	134	106	102	197	208	181	189
MAX	206	172	175	186	195	180	140	197	217	258	207	237
MIN	143	88	104	145	166	91	65	40	168	180	159	103
AC-FT	9970	8400	9690	10240	10180	8250	6300	6280	11730	12760	11100	11220

CAL YR 1981 TOTAL 57701 MEAN 158 MAX 206 MIN 88 AC-FT 114400
WTR YR 1982 TOTAL 58543 MEAN 160 MAX 258 MIN 40 AC-FT 116100

JORDAN RIVER BASIN

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10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

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

SPECIFIC CONDUCTANCE: October 1974 to September 1978, October 1980 to September 1981, once daily (discontinued).

WATER TEMPERATURES: April 1975 to September 1978, October 1980 to September 1981, once daily (discontinued).

SEDIMENT DATA: October 1976 to current year, periodically.

INSTRUMENTATION.--Specific conductance recorder October 1974 to September 1981; temperature recorder April 1975 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 2,330 micromhos Mar. 29, 1977; minimum, 536 micromhos June 25, 1978.

WATER TEMPERATURES: Maximum, 28.0°C Aug. 29, 30, 1975; minimum, 0.5°C Jan. 2, 3, 1976.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT 06...	1430	167	1700	8.0	23.5	16.0	10	6.3	650	K19000
DEC 29...	1230	153	1670	7.7	4.0	4.5	6.1	10.0	643	--
FEB 17...	1345	188	1620	8.0	6.5	6.0	15	8.8	650	1600
APR 16...	1130	87	1370	7.9	5.5	9.5	52	8.3	653	8200
JUN 24...	1500	200	880	8.0	24.0	15.0	22	7.2	647	57000
SEP 01...	1200	177	1660	7.9	26.0	19.0	24	5.2	654	K110000

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI, KF AGAR (COLS. PER 100 ML)	HARD- NESS HARD- NESS (MG/L AS CACO3)	NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT 06...	K360	1700	500	240	103	58	180	43	3.9	14
DEC 29...	K6	140	480	230	97	58	170	43	3.8	14
FEB 17...	--	82	450	190	87	56	170	44	3.9	16
APR 16...	29000	7400	410	190	85	49	130	40	3.1	12
JUN 24...	K7200	1100	260	100	57	28	74	38	2.2	7.4
SEP 01...	7000	K43000	490	250	110	53	160	41	3.5	14

DATE	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT 06...	260	300	240	.8	23	1090	1080	1.5	491
DEC 29...	250	300	240	.6	25	1080	1060	1.5	446
FEB 17...	260	280	220	.7	23	1030	1010	1.4	523
APR 16...	220	250	180	.6	20	868	859	1.2	204
JUN 24...	153	130	97	.3	14	514	500	.70	278
SEP 01...	246	290	220	.6	25	1120	1020	1.5	535

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

JORDAN RIVER BASIN

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

		NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	
DATE											
OCT 06...		1.8	2.30	3.0	4.10	1.50	4.6	1.40	.910	2.8	
DEC 29...		1.5	1.60	2.1	3.10	1.00	3.1	.980	.930	2.9	
FEB 17...		1.2	1.60	2.1	4.40	.800	2.5	.740	.710	2.2	
APR 16...		1.2	1.00	1.3	2.00	.580	1.8	.520	.520	1.6	
JUN 24...		.99	.870	1.1	1.50	.520	1.6	.210	.340	1.0	
SEP 01...		2.1	1.50	1.9	4.60	1.50	4.6	1.20	1.10	3.4	
		ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE RECOV. (UG/L AS CR)
DATE	TIME										
OCT 06...	1430	16	2	14	200	100	68	1	<1	10	10
FEB 17...	1345	12	1	11	100	30	72	<1	2	10	--
APR 16...	1130	12	2	10	<100	--	67	2	<3	10	--
SEP 01...	1200	17	3	14	<100	--	66	<1	<1	10	--
		CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)
OCT 06...		0	4	<3	20	15	5	730	720	12	23
FEB 17...		<10	1	<3	14	10	4	1000	990	10	20
APR 16...		<10	1	<1	49	45	4	1500	1500	16	26
SEP 01...		<10	<1	<1	21	18	3	1000	1000	5	21
		LEAD, SUS- PENDE 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- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)
OCT 06...		21	2	50	20	30	.2	.0	.2	6	4
FEB 17...		--	<1	60	40	25	.1	--	<.1	5	--
APR 16...		22	4	80	60	25	.3	--	<.1	5	1
SEP 01...		--	<1	60	30	31	.1	--	<.1	4	3

JORDAN RIVER BASIN

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10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, SUS- PENDED RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 06...	2	2	0	2	1	1	0	50	40	11
FEB 17...	<1	2	0	2	<1	--	<1	50	40	8
APR 16...	4	1	0	2	1	--	<1	40	20	18
SEP 01...	1	2	0	2	1	--	<1	50	40	13

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT 06...	1430	167	16.0	68	72	31
DEC 29...	1230	153	4.5	26	56	11
FEB 17...	1345	188	6.0	74	55	38
APR 16...	1130	87	9.5	171	93	40
JUN 24...	1500	200	15.0	116	73	63
SEP 01...	1200	177	19.0	54	61	26

JORDAN RIVER BASIN

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UTAH
(Hydrologic bench mark station)

LOCATION.--Lat 40°46'48", long 111°48'19", in NW¼SW¼NE¼ sec.35, T.1 N., R.1 E., Salt Lake County, Hydrologic Unit 16020204, on right bank 0.4 mi (0.6 km) upstream from dam forming Red Butte Reservoir, and 1.7 mi (2.7 km) northeast of Fort Douglas.

DRAINAGE AREA.--7.25 mi² (18.8 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to current year. Figures of monthly discharge for January 1942 to September 1963, collected by Corps of Engineers, U.S. Army, available in files of Salt Lake City District Office, Geological Survey.

GAGE.--Water-stage recorder. Altitude of gage is 5,400 ft (1,646 m) from topographic map.

REMARKS.--Records good. No regulation or diversion above station. Discharge measurements generally made once a month. Most of flow is collected in reservoir below station and used for water supply of Fort Douglas.

AVERAGE DISCHARGE.--19 years, 4.08 ft³/s (0.116 m³/s), 2,960 acre-ft/yr (3.65 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 60 ft³/s (1.70 m³/s) May 18, 1975, gage height, 3.50 ft (1.067 m); minimum, 0.23 ft³/s (0.007 m³/s) Dec. 22, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 10 ft³/s (0.28 m³/s) and maximum(*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Apr. 14	2000	18	0.510	1.69	0.515
May 3	1300	*26	.736	2.11	.643

Minimum, 0.52 ft³/s (0.015 m³/s) Jan. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.93	1.5	1.4	1.6	1.7	4.3	6.9	22	11	5.1	3.2	2.3
2	.93	1.5	1.4	1.5	1.6	5.3	6.8	24	10	5.0	3.2	2.2
3	1.2	1.4	1.4	1.7	1.5	5.1	6.9	25	9.6	4.8	3.1	2.2
4	1.6	1.5	1.5	1.7	1.2	4.6	7.4	24	9.3	4.9	3.0	2.2
5	1.1	1.5	1.5	1.6	1.5	4.3	7.1	22	9.7	5.9	2.9	2.1
6	1.0	1.5	1.5	1.4	1.4	4.0	7.0	20	9.4	5.0	2.9	2.1
7	1.0	1.5	1.5	1.3	1.4	3.9	6.9	18	9.0	4.7	2.8	2.1
8	1.6	1.4	1.4	1.2	1.4	3.6	6.7	18	8.7	4.9	3.0	2.1
9	1.2	1.4	1.7	1.2	1.4	3.9	6.6	17	8.4	4.7	2.9	2.1
10	1.3	1.4	1.6	1.2	1.4	4.0	6.6	17	8.1	4.5	2.8	3.9
11	1.4	1.4	1.5	1.2	1.4	4.6	7.4	16	7.8	4.3	2.7	3.0
12	1.2	1.4	1.5	1.2	1.4	6.6	14	15	7.7	4.2	2.7	2.8
13	1.2	1.4	1.5	1.4	1.4	6.3	17	14	7.5	4.1	2.7	3.1
14	1.2	1.4	1.5	1.8	1.4	6.2	17	13	7.4	4.0	2.7	3.1
15	1.2	1.4	1.6	1.4	1.8	6.4	17	13	7.3	3.9	2.6	2.7
16	1.4	1.3	1.5	1.3	2.1	6.1	16	13	7.1	3.9	2.5	2.5
17	1.3	1.5	1.5	1.4	2.3	5.8	16	13	6.9	3.8	2.5	2.5
18	1.2	1.8	1.5	1.5	2.2	5.7	16	13	6.8	3.7	2.5	2.4
19	1.2	1.5	1.5	1.5	2.5	5.6	15	13	6.6	3.7	2.4	2.4
20	1.2	1.5	1.6	1.5	2.8	5.2	15	12	6.4	3.6	2.4	2.4
21	1.2	1.5	1.5	1.5	3.6	5.0	14	12	6.2	3.5	2.4	2.3
22	1.2	1.5	1.5	1.2	4.7	4.9	14	12	6.1	3.4	2.3	2.3
23	1.2	1.5	1.5	1.5	5.0	4.9	14	12	6.0	3.4	2.3	2.2
24	1.2	1.4	1.5	1.6	4.4	5.0	16	12	5.8	3.4	2.2	2.2
25	1.2	1.6	1.6	1.6	4.1	5.2	17	11	5.8	3.4	2.2	2.6
26	1.3	1.4	1.6	1.9	4.0	5.8	18	11	5.6	3.4	2.4	6.1
27	1.2	1.5	1.7	1.9	4.0	6.2	20	11	5.3	3.4	2.3	4.7
28	1.4	1.5	1.8	1.8	4.1	6.9	21	11	5.1	4.1	2.5	7.2
29	1.9	1.4	1.7	1.7	---	8.1	23	11	5.0	3.7	2.5	6.0
30	1.6	1.4	1.8	1.7	---	7.4	22	11	5.1	3.4	2.3	6.0
31	1.5	---	1.7	1.7	---	6.9	---	10	---	3.3	2.3	---
TOTAL	39.26	43.9	48.0	46.7	67.7	167.8	398.3	466	220.7	127.1	81.2	91.8
MEAN	1.27	1.46	1.55	1.51	2.42	5.41	13.3	15.0	7.36	4.10	2.62	3.06
MAX	1.9	1.8	1.8	1.9	5.0	8.1	23	25	11	5.9	3.2	7.2
MIN	.93	1.3	1.4	1.2	1.2	3.6	6.6	10	5.0	3.3	2.2	2.1
AC-FT	78	87	95	93	134	333	790	924	438	252	161	182

CAL YR 1981 TOTAL 857.19 MEAN 2.35 MAX 11 MIN .88 AC-FT 1700
WTR YR 1982 TOTAL 1798.46 MEAN 4.93 MAX 25 MIN .93 AC-FT 3570

JORDAN RIVER BASIN

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10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1964 to current year.

WATER TEMPERATURES: April 1964 to September 1978, once daily.

SEDIMENT DATA: October 1968 to current year, periodically.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	NITRO- GEN DIS- SOLVED (MG/L AS N)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 05...	1200	1.1	630	8.4	9.0	8.0	8.0	630	.61	K52	230
DEC 28...	1400	1.9	670	8.1	-2.0	.5	11.3	620	--	<1	K4
JAN 27...	1330	2.0	610	8.1	-1.0	1.0	--	--	--	K3	120
MAR 08...	1300	3.6	560	8.2	7.5	5.0	11.3	700	--	<1	K16
MAR 30...	1230	7.4	500	8.1	1.5	3.0	11.9	696	.57	<1	K3
APR 14...	1300	17	430	8.1	11.0	9.5	8.8	615	--	<1	49
MAY 19...	1230	13	480	8.2	6.5	6.5	9.8	618	--	--	43
JUN 21...	1330	6.6	540	8.2	22.0	14.5	9.0	700	1.0	--	83
JUL 12...	1400	4.2	560	8.1	27.5	16.5	8.4	703	--	42	180
AUG 25...	1300	2.3	570	8.0	24.0	14.5	8.5	700	--	43	K240
SEP 20...	1330	2.4	570	8.1	19.5	14.0	8.9	700	--	25	K1300
DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 05...	330	120	88	27	14	8	.4	1.4	210	120	16
DEC 28...	350	110	94	27	12	7	.3	1.0	240	120	15
JAN 27...	320	93	88	25	12	7	.3	1.0	230	110	12
MAR 08...	300	78	83	22	12	8	.3	1.0	220	96	11
MAR 30...	260	75	73	20	11	8	.3	.8	190	69	12
APR 14...	220	44	63	16	9.6	9	.3	1.1	180	35	12
MAY 19...	250	38	70	19	10	8	.3	1.1	215	38	8.9
JUN 21...	290	75	78	24	11	8	.3	.9	219	61	11
JUL 12...	290	65	76	24	12	8	.3	.8	224	66	11
AUG 25...	300	84	77	25	12	8	.3	.9	212	84	15
SEP 20...	300	98	78	26	12	8	.3	1.1	204	86	12

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

JORDAN RIVER BASIN

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

	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)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)		
OCT 05...	.2	12	399	405	.54	1.2	.130	.120	.15	.50	.37		
DEC 28...	.1	11	415	424	.56	2.1	<.070	<.070	.09	--	--		
JAN 27...	.2	10	404	396	.55	2.2	.090	.090	.12	.28	.23		
MAR 08...	.1	10	369	367	.50	3.6	<.060	.060	.08	--	--		
30...	.1	10	331	310	.45	6.6	.080	.090	.12	.35	.37		
APR 14...	.1	11	273	256	.37	12.2	.100	.120	.15	.28	.27		
MAY 19...	.1	10	292	286	.40	10.2	.100	.060	.08	1.0	.94		
JUN 21...	.2	11	341	329	.46	6.0	.370	.080	.10	.23	.72		
JUL 12...	.1	11	342	336	.47	3.9	.120	.110	.14	.38	.29		
AUG 25...	.1	11	400	353	.54	2.4	.290	.200	.26	.41	.60		
SEP 20...	.1	12	457	350	.62	2.9	.070	.070	.09	.83	.53		
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, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)		
OCT 05...	.63	.14	.49	.75	--	.12	.12	3.3	.050	.15	.010		
DEC 28...	.34	.00	.50	--	--	<.09	<.09	--	.050	.15	.050		
JAN 27...	.37	.05	.32	--	--	<.09	<.09	--	.030	.09	.030		
MAR 08...	.37	.08	.29	--	--	<.10	<.10	--	.050	.15	.040		
30...	.43	.00	.46	--	--	<.10	.11	--	.010	.03	<.010		
APR 14...	.38	.00	.39	--	<.020	<.10	<.10	--	.040	.12	.030		
MAY 19...	1.10	.10	1.0	--	--	<.10	<.10	--	.120	.37	<.010		
JUN 21...	.60	.00	.80	--	--	<.10	.20	--	.050	.15	.020		
JUL 12...	.50	.10	.40	--	--	<.10	<.10	--	.090	.28	.070		
AUG 25...	.70	.00	.80	.80	--	.10	<.10	3.5	.190	.58	.120		
SEP 20...	.90	.30	.60	--	--	<.10	<.10	--	.050	.15	.010		
DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	
APR 14...	1300	3	2	1	<100	53	<3	<1	<3	10	<1	<9	
AUG 25...	1300	1	0	1	<100	60	<1	<1	<1	<10	<1	<3	
DATE	TIME	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL 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- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
APR 14...	5	<30	1000	920	77	3	<30	<12	70	50	17	.1	
AUG 25...	3	<10	190	--	<3	<1	<10	11	40	20	25	<.1	

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 14...	<.1	<30	1	0	1	<1	<1	300	<10	10	--	<12
AUG 25...	<.1	<10	1	0	1	<1	<1	410	<6.0	20	20	4
DATE	TIME	GROSS ALPHA, DIS- SOLVED (UG/L U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L 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 YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L AS U)	URANIUM DIS- SOLVED (UG/L AS U)			
AUG 25...	1300	<7.7	<.4	<4.7	<.4	<4.5	<.4	.06	1.4			
DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)							
OCT 05...	1200	2.5	--	--	--							
DEC 28...	1400	2.1	--	--	--							
JAN 27...	1330	1.5	--	--	--							
MAR 08...	1300	2.8	--	--	--							
30...	1230	3.1	--	--	--							
APR 14...	1300	--	4.3	.6	<.01							
MAY 19...	1230	3.8	--	--	--							
JUN 21...	1330	2.1	--	--	--							
JUL 12...	1400	1.7	--	--	--							
AUG 25...	1300	--	1.5	.2	<.01							
SEP 20...	1330	1.3	--	--	--							
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)						
OCT 05...	1200	1.1	8.0	69	53	.20						
DEC 28...	1400	1.9	.5	34	33	.17						
JAN 27...	1330	2.0	1.0	93	52	.51						
MAR 08...	1300	3.6	5.0	12	53	.12						
30...	1230	7.4	3.0	14	67	.28						
APR 14...	1300	17	9.5	81	81	3.6						
MAY 19...	1230	13	6.5	29	83	1.0						
JUN 21...	1330	6.6	14.5	29	66	.51						
JUL 12...	1400	4.2	16.5	26	58	.30						
AUG 25...	1300	2.3	14.5	16	47	.10						
SEP 20...	1330	2.4	14.0	20	47	.13						

JORDAN RIVER BASIN

10172550 JORDAN RIVER AT 500 NORTH, AT SALT LAKE CITY, UTAH

LOCATION.--Lat 40°46'49", long 111°56'16", in SW 1/4, NE 1/4, sec.34, T.1 N., R.1 W., Salt Lake County, Hydrologic Unit 16020204, on left bank at downstream edge of 500 North Street bridge in Salt Lake City.

DRAINAGE AREA.--3,562 mi² (2,226 km²), includes 255 mi² (660 km²) closed basin in Cedar Valley.

PERIOD OF RECORD.--October 1975 to current year. Records of stage 1960-75 are available from the Salt Lake District Office.

GAGE.--Water-stage recorder. Altitude of gage is 4,210 ft (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.--7 years, 85 ft³/s (5.24 m³/s), 134,000 acre-ft/yr (165 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 792 ft³/s (22.4 m³/s) Sept. 18, 1978, gage height, 5.79 ft (1.765 m); minimum recorded, 60 ft³/s (1.70 m³/s) Oct. 18, 1979 (discharge measurement).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 657 ft³/s (18.6 m³/s) Sept. 28, gage height, 5.15 ft (1.570 m); minimum, daily, 106 ft³/s (3.00 m³/s) Nov. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	182	175	195	171	200	226	314	348	332	203	213
2	159	178	181	185	184	240	281	347	375	311	198	210
3	188	172	176	180	192	210	233	359	362	271	207	200
4	275	170	170	177	181	183	296	303	343	262	204	203
5	185	168	165	173	181	275	268	360	327	305	196	207
6	173	160	168	167	185	271	272	365	330	303	194	208
7	163	160	176	159	185	227	272	358	321	263	202	215
8	272	155	178	165	187	159	256	346	316	282	215	224
9	167	154	177	175	187	190	255	372	306	268	206	211
10	197	148	173	175	189	193	260	390	307	258	199	272
11	216	144	153	176	186	198	247	305	311	249	200	236
12	182	143	147	175	198	222	326	314	303	233	207	229
13	166	181	180	176	202	193	306	295	309	210	201	268
14	160	141	161	177	219	194	334	282	351	220	188	257
15	148	146	171	177	207	238	313	273	349	236	185	214
16	174	155	128	177	209	189	329	299	336	232	181	218
17	161	146	135	180	206	187	331	358	333	223	188	215
18	155	160	165	185	200	267	313	299	327	218	177	212
19	159	109	194	182	202	262	267	394	323	210	183	207
20	168	108	180	181	207	229	260	296	315	214	201	216
21	172	106	202	181	192	218	227	283	309	221	201	227
22	167	135	190	187	200	215	264	277	304	217	203	235
23	161	175	180	185	220	198	237	273	300	222	195	229
24	160	180	172	189	205	192	288	294	294	221	194	229
25	157	203	175	188	201	192	308	321	286	224	201	238
26	157	149	170	198	208	200	308	325	290	216	204	450
27	154	148	185	226	204	211	308	341	258	217	216	320
28	156	144	169	184	200	206	313	421	261	325	237	450
29	290	154	167	176	---	282	329	385	269	268	218	230
30	280	180	212	170	---	239	300	362	280	235	215	220
31	190	---	180	172	---	226	---	338	---	214	213	---
TOTAL	5672	4654	5355	5593	5508	6706	8527	10249	9443	7680	6232	7263
MEAN	183	155	173	180	197	216	284	331	315	248	201	242
MAX	290	203	212	226	220	282	334	421	375	332	237	450
MIN	148	106	128	159	171	159	226	273	258	210	177	200
AC-FT	11250	9230	10620	11090	10930	13300	16910	20330	18730	15230	12360	14410

CAL YR 1981 TOTAL 68637 MEAN 188 MAX 308 MIN 106 AC-FT 136100
WTR YR 1982 TOTAL 82882 MEAN 227 MAX 450 MIN 106 AC-FT 164400

JORDAN RIVER BASIN

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10172630 GOGGIN DRAIN NEAR MAGNA, UTAH

LOCATION.--Lat 40°49'00", long 112°06'00", in SW¼NW¼SW¼ sec.17, T.1 N., R.2 W., Salt Lake County, Hydrologic Unit 16020204, about 7 mi (11 km) downstream from Surplus Canal wasteway, 3.3 mi (5.3 km) north of Saltair, and 7.2 mi (11.6 km) north of Magna.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to September 1968, October 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,204 ft (1,281 m) from topographic map.

REMARKS.--Records poor. The drain carries natural drainage and surplus water spilled from canals from the area.

AVERAGE DISCHARGE.--16 years, 138 ft³/s (3.908 m³/s), 99,980 acre-ft/yr (123 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,180 ft³/s (33.4 m³/s) Sept. 29, 1982, gage height, 7.14 ft (2.176 m); no flow several days many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,180 ft³/s (33.4 m³/s) Sept. 29, gage height, 7.14 ft (2.176 m); minimum daily, 6.1 ft³/s (0.173 m³/s) Sept. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	50	91	235	245	286	491	669	648	621	327	22
2	14	40	92	198	235	318	518	712	621	494	244	27
3	14	40	93	135	239	500	531	768	604	344	165	27
4	41	40	93	134	238	469	528	894	586	318	130	16
5	128	40	94	138	231	443	475	810	602	448	110	11
6	27	40	63	136	227	475	479	685	629	602	86	7.7
7	21	40	17	131	226	461	454	623	599	552	77	6.1
8	58	40	15	120	228	441	481	594	463	479	60	10
9	112	40	16	118	230	406	469	583	328	509	76	12
10	24	40	15	114	231	418	454	691	336	422	48	35
11	73	40	14	113	231	411	465	721	405	344	32	159
12	124	40	12	125	231	407	564	637	491	342	32	177
13	145	40	32	119	231	408	610	607	599	284	32	144
14	41	40	82	116	232	426	645	562	710	264	35	256
15	28	25	88	116	248	479	656	548	798	164	38	187
16	28	17	99	116	263	504	574	495	821	193	33	130
17	28	11	98	119	256	498	629	413	790	201	33	77
18	25	10	105	131	257	506	645	421	807	169	38	76
19	20	9.0	101	162	253	520	548	677	838	164	46	72
20	15	9.0	103	158	253	493	544	683	821	156	36	66
21	13	9.0	121	163	254	478	568	599	818	140	24	67
22	13	9.0	120	180	257	473	535	543	849	54	24	131
23	13	9.5	120	185	271	466	550	631	880	112	27	191
24	13	9.5	119	193	261	465	569	688	868	123	25	142
25	14	23	120	193	262	449	591	712	838	124	23	120
26	15	93	119	196	283	454	645	742	852	123	23	356
27	15	94	113	234	307	466	523	801	790	119	23	976
28	14	95	112	265	297	462	551	923	729	284	23	1100
29	35	94	110	250	---	510	626	935	618	782	23	1180
30	172	93	139	238	---	497	637	829	610	626	22	1120
31	145	---	269	246	---	488	---	677	---	454	20	---
TOTAL	1441	1180.0	2785	5077	6977	14077	16555	20873	20348	10011	1935	6900.8
MEAN	46.5	39.3	89.8	164	249	454	552	673	678	323	62.4	230
MAX	172	95	269	265	307	520	656	935	880	782	327	1180
MIN	13	9.0	12	113	226	286	454	413	328	54	20	6.1
AC-FT	2860	2340	5520	10070	13840	27920	32840	41400	40360	19860	3840	13690
CAL YR 1981	TOTAL	62758.5	MEAN 172	MAX 618	MIN 4.4	AC-FT 124500						
WTR YR 1982	TOTAL	108159.8	MEAN 296	MAX 1180	MIN 6.1	AC-FT 214500						

JORDAN RIVER BASIN

10172630 GOGGIN DRAIN NEAR MAGNA, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1972 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
OCT 15...	1320	27	2950	8.2	11.0	8.5	580	320	110	74
NOV 19...	1300	9.3	6100	8.5	5.0	4.5	730	380	110	110
DEC 31...	1230	270	2050	7.9	-1.0	3.5	500	260	98	62
MAR 08...	1320	446	1640	8.0	14.0	7.5	430	190	83	53
APR 27...	1350	588	1430	7.8	21.0	14.0	380	170	73	48
MAY 20...	1525	796	1070	7.7	20.0	12.5	300	130	65	34
JUN 16...	1645	825	840	7.7	28.0	16.0	250	96	52	28
JUL 19...	1400	162	1580	7.9	32.0	22.5	390	170	81	45
AUG 16...	1430	36	2870	8.3	32.0	23.5	580	280	110	73
SEP 20...	1355	67	2100	8.2	25.0	19.0	450	190	89	55
DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
OCT 15...	430	61	7.8	23	260	480	590	.8	20	1890
NOV 19...	1100	75	18	49	350	710	1600	1.0	17	3910
DEC 31...	250	51	4.9	16	240	320	360	.6	21	1280
MAR 08...	170	46	4.0	14	240	270	240	.6	21	1000
APR 27...	160	47	4.0	13	210	230	210	.7	19	884
MAY 20...	100	41	2.8	8.9	172	160	140	.5	16	632
JUN 16...	80	41	2.5	7.5	149	150	100	.4	14	539
JUL 19...	170	48	4.2	14	218	230	230	.6	20	929
AUG 16...	390	58	7.1	29	297	380	540	.8	25	1730
SEP 20...	250	54	5.1	17	256	310	340	.6	22	1250

JORDAN RIVER BASIN

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10172630 GOGGIN DRAIN NEAR MAGNA, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

		SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	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 NO2)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)		
OCT 15...		2.6	139	--	--	--	--	.97	.470	1.4		
NOV 19...		5.3	98.2	--	--	--	--	.63	2.00	6.1		
DEC 31...		1.7	933	--	--	--	--	1.2	.790	2.4		
MAR 08...		1.4	1200	--	--	--	--	1.1	.730	2.2		
APR 27...		1.2	1400	--	--	--	--	.92	.460	1.4		
MAY 20...		.86	1360	.79	3.5	.23	.070	.86	.340	1.0		
JUN 16...		.73	1200	--	--	--	--	.83	.270	.83		
JUL 19...		1.3	406	--	--	--	--	1.6	.730	2.2		
AUG 16...		2.4	168	--	--	--	--	.91	.980	3.0		
SEP 20...		1.7	225	--	--	--	--	2.5	.720	2.2		
DATE	TIME	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAR 08...	1320	12	62	<1	<10	3	<1	130	.1	2	<1	<3
JUN 16...	1645	8	52	<1	<10	7	<1	68	.3	1	<1	63
				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 15...	1320	590	40	30				
				NOV 19...	1300	1000	30	120				
				DEC 31...	1230	360	30	50				
				MAR 08...	1320	320	<10	27				
				APR 27...	1350	260	<9	18				
				MAY 20...	1525	190	<3	23				
				JUN 16...	1645	160	10	12				
				JUL 19...	1400	290	3	39				
				AUG 16...	1430	590	30	100				
				SEP 20...	1355	400	10	50				
				DATE	TIME	CYANIDE TOTAL (MG/L AS CN)						
				MAR 08...	1320	.01						
				JUN 16...	1645	<.01						

JORDAN RIVER BASIN

10172640 LEE CREEK NEAR MAGNA, UTAH

LOCATION.--Lat 40°46'50", long 112°08'19", in SW 1/4 NW 1/4 sec. 36, T.1 N., R.3 W., Salt Lake County, Hydrologic Unit 16020204, on left 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 September 30, 1982 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,205 ft (1,282 m) from topographic map.

REMARKS.--Records poor except those of Oct. 1 to Nov. 6, which are good. V-notch weir was removed Nov 6.

AVERAGE DISCHARGE.--11 years, 3.95 ft³/s (0.112 m³/s), 2,860 acre-ft/yr (3.53 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 122 ft³/s (3.46 m³/s) (revised) Sept. 30, 1982, gage height, 5.65 ft (1.722 m) (revised); minimum, 0.050 ft³/s (0.001 m³/s) June 17, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 122 ft³/s (3.46 m³/s) Sept. 30; minimum 0.33 ft³/s (0.009 m³/s) June 13.

REVISIONS.--The maximum discharges for some water years have been revised, as shown in the following table. They supersede figures published in corresponding annual reports.

Water Year	Date	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
1976	July 31, 1976	52	1.47	3.03	0.924
1977	Aug. 26, 1977	44	1.25	3.11	.948
1978	Mar. 4, 1978	36	1.02	3.03	.924
1979	Feb. 14, 1979	21	.59	3.62	1.103
1980	Feb. 19, 1980	43	1.22	4.70	1.433
1981	Oct. 17, 1980	15	.42	3.72	1.134

Revised figures of discharge for the water year 1978, superseding those published in the report for 1978 are given herein.

EXTREMES FOR 1978 WATER YEAR.--Maximum discharge, 36 ft³/s (1.02 m³/s) Mar. 4, gage height, 3.03 ft (0.924 m); minimum, 0.15 ft³/s (0.004 m³/s) Nov. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	1.2	.83	.83	2.4	7.0	5.9	2.0	1.5	2.2	4.2	2.5
2	2.4	1.4	.83	.83	2.2	12	9.3	2.0	1.4	2.1	4.9	1.5
3	2.7	1.4	1.2	1.2	2.0	18	4.7	2.0	1.4	2.0	3.6	1.0
4	3.0	1.1	1.2	2.1	1.7	23	2.2	2.1	1.5	2.1	2.6	1.0
5	2.1	.83	1.1	1.8	1.5	16	8.1	6.4	1.5	7.7	2.2	1.7
6	11	1.4	.93	1.7	1.0	11	15	3.1	1.5	7.0	1.8	2.2
7	7.4	1.5	.83	1.5	1.2	8.1	3.0	11	1.5	4.4	1.7	2.2
8	2.4	1.4	.74	1.0	1.5	6.1	11	3.8	1.5	3.5	1.9	1.6
9	2.1	.93	.66	.93	1.8	5.1	4.2	2.7	1.5	3.6	2.2	1.8
10	3.0	.74	.66	1.2	2.0	5.9	1.8	2.5	1.6	3.5	2.6	2.7
11	1.8	.93	.53	1.4	2.0	4.7	1.6	2.4	1.5	2.7	3.5	7.3
12	1.7	.74	1.0	1.5	2.0	4.4	1.4	1.8	1.5	3.0	3.1	8.9
13	1.7	.59	.93	1.4	2.0	3.8	1.4	1.2	1.8	3.0	8.4	4.6
14	1.7	.74	.93	1.1	2.0	4.2	1.5	1.1	2.0	2.7	24	2.0
15	1.5	.83	1.6	5.4	2.0	2.8	4.4	1.6	2.2	4.1	20	3.0
16	1.2	.74	3.8	3.0	2.0	2.0	5.9	8.9	3.8	7.0	8.7	3.3
17	1.5	.74	.74	8.5	2.0	1.8	3.5	3.1	3.1	4.9	5.4	2.2
18	2.0	.74	3.1	5.6	2.0	1.8	1.5	2.1	2.2	3.1	4.0	26
19	3.0	.93	1.8	3.6	2.0	1.6	1.2	1.6	2.4	2.1	2.4	18
20	3.1	1.0	1.0	4.2	2.0	1.5	2.2	2.0	2.2	1.8	1.0	11
21	2.5	.74	.74	3.3	2.0	1.5	11	1.8	2.4	3.0	.90	9.5
22	1.8	1.7	.93	2.5	2.0	1.8	9.8	1.7	2.7	6.9	1.0	12
23	1.7	1.7	1.5	3.6	2.0	2.2	2.5	1.5	2.7	7.5	2.9	11
24	1.7	.66	1.5	2.2	2.0	3.8	2.2	2.4	2.0	7.8	4.1	8.9
25	1.8	.66	1.1	2.0	2.0	1.8	2.0	1.8	2.1	7.5	1.3	6.9
26	1.8	1.0	1.0	3.5	2.5	1.6	2.7	1.6	2.0	6.0	1.5	5.0
27	1.5	1.1	.93	2.8	3.5	1.7	6.4	1.7	2.2	5.0	1.2	3.2
28	1.5	1.5	1.1	2.4	5.0	2.1	2.8	1.8	2.4	3.6	1.2	2.8
29	.83	1.0	1.7	2.4	---	1.8	2.4	1.4	2.5	5.0	2.4	2.0
30	1.1	1.2	2.1	2.5	---	2.0	2.5	1.6	2.5	4.6	2.3	1.3
31	1.2	---	2.0	2.4	---	3.5	---	1.4	---	3.3	2.2	---
TOTAL	75.53	31.14	39.01	78.39	58.3	164.6	134.1	82.1	61.1	132.7	129.20	167.1
MEAN	2.44	1.04	1.26	2.53	2.08	5.31	4.47	2.65	2.04	4.28	4.17	5.57
MAX	11	1.7	3.8	8.5	5.0	23	15	11	3.8	7.8	24	26
MIN	.83	.59	.53	.83	1.0	1.5	1.2	1.1	1.4	1.8	.90	1.0
AC-FT	150	62	77	155	116	326	266	163	121	263	256	331

CAL YR 1977 TOTAL 855.79 MEAN 2.34 MAX 30 MIN .48 AC-FT 1700
WTR YR 1978 TOTAL 1153.27 MEAN 3.16 MAX 26 MIN .53 AC-FT 2290

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	3.7	2.3	11	4.2	3.7	5.0	1.9	2.4	.88	4.4	1.7
2	4.3	2.3	1.8	3.3	3.8	6.8	17	1.7	2.6	.80	2.7	3.7
3	5.7	2.2	1.8	3.0	4.8	18	16	1.9	2.2	.78	1.7	4.0
4	13	2.2	1.8	4.2	3.5	7.3	11	1.9	1.8	.80	1.4	3.5
5	14	2.0	1.8	5.4	2.8	7.8	9.0	1.8	1.1	7.6	1.6	2.3
6	14	1.6	1.7	3.7	2.4	6.1	5.9	1.7	.84	2.2	3.1	2.1
7	13	3.5	1.7	2.4	2.4	3.7	11	1.8	.80	1.9	1.8	1.9
8	18	2.3	1.7	3.3	2.4	3.1	8.7	2.1	1.7	1.6	2.2	3.0
9	17	1.8	1.9	2.6	2.4	2.8	4.8	3.5	1.6	1.4	2.4	3.7
10	13	9.6	2.4	2.2	2.4	2.6	3.7	8.1	1.4	1.0	2.7	6.8
11	12	4.2	2.1	2.2	2.4	3.3	4.0	2.6	1.1	1.4	2.4	16
12	13	2.2	1.8	2.4	2.6	8.1	29	1.8	.80	1.8	1.6	14
13	9.2	2.6	2.4	2.7	2.6	4.6	19	1.8	.76	1.3	2.3	16
14	7.2	3.0	2.1	3.0	3.1	11	7.6	1.4	.92	1.2	3.7	17
15	4.9	2.1	3.7	3.7	4.2	15	5.0	.97	1.0	1.2	7.6	11
16	7.1	2.1	5.7	3.3	7.8	11	3.1	.92	1.1	1.3	6.8	8.9
17	7.9	2.8	3.7	3.0	4.8	6.3	2.6	.88	2.3	2.2	6.1	7.6
18	4.8	8.7	2.6	3.5	3.8	5.0	2.7	1.3	1.6	2.2	7.1	7.1
19	3.8	9.3	6.6	4.8	3.3	7.3	2.6	13	.88	2.6	3.7	5.4
20	3.7	14	6.8	4.8	3.0	5.2	2.2	8.7	.76	1.2	1.9	4.0
21	3.3	16	14	6.8	2.4	3.0	2.3	4.0	1.1	.97	1.2	3.0
22	3.0	12	9.3	6.8	4.0	2.6	2.3	1.6	2.8	.88	.97	2.5
23	2.4	11	5.0	2.4	11	2.6	2.2	.92	1.2	1.3	.97	2.3
24	2.3	7.6	5.0	1.8	6.8	2.4	1.8	1.1	.97	1.9	1.0	2.3
25	2.1	13	7.3	1.8	3.8	2.3	1.7	3.5	.92	2.6	.92	2.6
26	1.7	5.7	4.8	3.8	3.0	2.2	1.9	3.5	.80	1.8	1.1	3.7
27	1.2	3.3	13	17	3.1	2.2	1.9	3.3	.78	1.6	1.9	60
28	1.1	2.7	4.6	16	3.1	2.8	1.8	5.7	.80	5.0	5.9	77
29	4.6	2.3	3.7	8.4	---	5.0	3.1	1.2	.80	20	9.3	95
30	12	3.0	12	5.0	---	3.5	2.3	1.0	.84	15	7.8	112
31	8.3	---	10	5.2	---	2.3	---	.97	---	8.4	4.2	---
TOTAL	231.7	158.8	145.1	149.5	105.9	169.6	191.2	86.56	38.67	94.81	102.46	500.1
MEAN	7.47	5.29	4.68	4.82	3.78	5.47	6.37	2.79	1.29	3.06	3.31	16.7
MAX	18	16	14	17	11	18	29	13	2.8	20	9.3	112
MIN	1.1	1.6	1.7	1.8	2.4	2.2	1.7	.88	.76	.78	.92	1.7
AC-FT	460	315	288	297	210	336	379	172	77	188	203	992
CAL YR 1981	TOTAL	1188.96	MEAN	3.26	MAX	18	MIN	.29	AC-FT	2360		
WTR YR 1982	TOTAL	1974.40	MEAN	5.41	MAX	112	MIN	.76	AC-FT	3920		

JORDAN RIVER BASIN

10172640 LEE CREEK NEAR MAGNA, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1972 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	HARD- NESS (MG/L AS CACO3)
OCT									
23...	1350	2.2	170000	8.1	17.0	14.5	9.3	660	31000
NOV									
30...	1300	3.4	170000	8.1	.5	6.0	11.6	660	25000
DEC									
31...	1200	11	94000	8.3	-5.0	.0	13.6	650	7500
FEB									
11...	1300	2.4	170000	8.0	-4.0	3.5	13.4	656	17000
APR									
06...	1130	6.2	59000	8.2	2.5	5.5	10.2	650	5000
MAY									
10...	1300	18	58500	*7.5	--	3.0	--	--	5300
JUL									
29...	1130	21	76000	8.6	18.0	21.0	--	--	21000
AUG									
27...	1315	2.0	200000	7.5	29.0	29.0	--	--	83000
SEP									
16...	1240	8.2	88500	8.0	26.0	21.0	--	--	22000
DATE	NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT									
23...	31000	280	7400	59000	78	145	3900	420	15000
NOV									
30...	25000	240	5900	46000	77	127	3500	380	10000
DEC									
31...	7300	350	1600	24000	86	121	940	140	3600
FEB									
11...	17000	300	4000	52000	85	172	2200	260	5400
APR									
06...	4800	360	1000	14000	84	86	500	200	2600
MAY									
10...	5200	130	1200	13000	82	78	670	87	2900
JUL									
29...	20000	150	4900	25000	69	76	2700	277	11000
AUG									
27...	82000	110	20000	60000	58	91	10000	853	42000
SEP									
16...	22000	260	5200	28000	71	82	2700	335	10000
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
OCT									
23...	110000	.1	6.9	196000	267	1190	.13	.200	.61
NOV									
30...	98000	.1	3.2	164000	223	1510	.35	.940	2.9
DEC									
31...	45000	.3	4.9	75600	103	2250	.33	.180	.55
FEB									
11...	100000	.1	12	164000	223	1060	.20	.240	.74
APR									
06...	24000	.4	6.5	42600	57.9	707	.11	.100	.31
MAY									
10...	24000	.1	2.5	42000	57.1	2020	.68	.090	.28
JUL									
29...	50000	.2	5.0	94000	128	5200	.63	.290	.89
AUG									
27...	140000	<.1	10	273000	371	1480	.10	2.70	8.3
SEP									
16...	50000	.3	15	96400	131	2140	.23	.430	1.3

* Laboratory value.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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 23...	1350	32000	770	460
NOV 30...	1300	26000	810	480
DEC 31...	1200	6500	460	230
FEB 11...	1300	17000	980	400
APR 06...	1130	--	240	220
MAY 10...	1300	4700	230	140
JUL 29...	1130	410	690	290
AUG 27...	1315	21000	1400	600
SEP 16...	1240	21000	570	250

DATE	TIME	CYANIDE TOTAL (MG/L AS CN)
FEB		
11...	1300	<.01
JUL		
29...	1130	<.01

JORDAN RIVER BASIN

10172650 KENNECOTT DRAIN NEAR MAGNA, UTAH

LOCATION.--Lat 40°45'28", long 112°10'12", in SW¼NE¼SW¼ sec.3, T.1 S., R.3 W., Salt Lake County, Hydrologic Unit 16020204, on left bank about 50 ft (15 m) upstream from culvert on Interstate 80, and 4.5 mi (7.2 km) north-west 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 fair. Small diversions for industrial use above station.

AVERAGE DISCHARGE.--16 years (water years 1964-68, 1972-82), 97.6 ft³/s (2.764 m³/s), 70,700 acre-ft/yr (87.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 389 ft³/s (11.0 m³/s) Mar. 18, 1964, gage height, 5.50 ft (1.676 m) result of break in dike of Kennecott tailings pond; minimum, 11 ft³/s (0.312 m³/s) July 29, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 252 ft³/s (7.14 m³/s) Sept. 28, minimum daily, 27 ft³/s (0.76 m³/s) May 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	96	80	104	67	74	88	70	76	58	95	118
2	105	101	57	68	75	108	105	64	101	66	85	105
3	111	86	92	58	80	140	138	65	96	42	77	81
4	164	78	92	51	65	117	131	92	60	37	70	74
5	191	75	97	56	51	93	122	90	58	64	63	84
6	167	84	73	52	53	82	84	57	66	75	58	119
7	144	92	79	58	57	83	120	52	94	73	60	111
8	148	96	68	70	64	82	142	50	91	79	70	86
9	185	90	59	80	55	78	78	69	69	89	80	76
10	151	82	45	70	63	48	64	137	86	103	89	102
11	161	74	57	75	70	72	54	171	64	97	80	169
12	165	80	54	96	81	113	122	137	67	79	63	162
13	145	80	83	98	83	78	141	95	75	86	70	156
14	127	78	89	107	100	64	76	73	80	90	94	159
15	90	80	99	110	152	96	68	80	79	85	90	161
16	101	94	91	115	162	106	58	66	80	72	82	156
17	118	84	90	123	129	87	53	56	76	76	66	150
18	83	103	57	130	86	66	51	62	54	83	80	144
19	92	96	65	107	105	86	52	131	67	93	97	141
20	93	72	100	115	108	94	50	141	64	75	100	132
21	82	70	105	123	112	58	55	123	67	63	90	137
22	62	92	119	128	96	68	49	90	53	71	84	141
23	83	88	129	108	120	58	47	94	65	79	75	111
24	85	110	106	118	99	52	50	80	64	80	95	102
25	91	155	90	120	88	68	51	64	61	98	86	113
26	93	150	67	134	87	76	54	40	38	90	80	156
27	97	138	84	160	87	89	74	27	44	74	85	203
28	93	122	83	128	74	83	70	70	44	155	96	252
29	103	108	65	73	---	102	117	99	34	150	106	241
30	162	95	112	82	---	111	119	97	35	135	129	222
31	142	---	140	90	---	74	---	88	---	108	116	---
TOTAL	3720	2849	2627	3007	2469	2606	2483	2630	2008	2625	2611	4164
MEAN	120	95.0	84.7	97.0	88.2	84.1	82.8	84.8	66.9	84.7	84.2	139
MAX	191	155	140	160	162	140	142	171	101	155	129	252
MIN	62	70	45	51	51	48	47	27	34	37	58	74
AC-FT	7380	5650	5210	5960	4900	5170	4930	5220	3980	5210	5180	8260
CAL YR 1981 TOTAL	28675		MEAN 78.6	MAX 191	MIN 21	AC-FT 56880						
WTR YR 1982 TOTAL	33799		MEAN 92.6	MAX 252	MIN 27	AC-FT 67040						

10172650 KENNECOTT DRAIN NEAR MAGNA, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1972 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CACO3)
OCT 23...	1000	76	7480	7.9	5.5	11.5	7.8	660	2.7	1400
NOV 30...	1130	95	6310	7.9	.0	6.0	9.6	660	--	1100
DEC 31...	1020	143	5550	8.0	.5	1.5	11.1	650	--	950
FEB 11...	1000	70	6890	8.1	-4.5	.5	12.8	656	--	1200
APR 06...	0930	83	6280	8.0	3.0	6.5	9.8	650	--	950
MAY 27...	1130	27	*8280	8.2	29.0	19.0	9.2	--	--	1400
JUN 17...	1215	72	4470	8.0	27.0	21.0	--	--	--	970
AUG 30...	1230	129	3980	7.4	27.0	22.5	--	--	--	800
SEP 17...	1240	151	2260	7.6	22.0	18.0	--	--	--	650

DATE	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT 23...	1300	410	88	1100	62	13	53	86	970
NOV 30...	1000	330	76	910	62	12	48	130	820
DEC 31...	780	250	79	800	63	11	43	170	600
FEB 11...	1100	300	110	1100	65	14	58	150	750
APR 06...	710	200	110	1000	68	14	51	240	760
MAY 27...	1100	310	140	1300	66	15	75	225	890
JUN 17...	750	230	95	700	60	9.8	39	213	600
AUG 30...	590	200	72	490	56	7.6	31	211	530
SEP 17...	410	130	78	390	56	6.7	26	236	400

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 DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2)
OCT 23...	2100	3.0	15	4800	6.5	989	1.00	4.4	.56
NOV 30...	1700	3.5	22	4000	5.4	1030	--	--	--
DEC 31...	1400	1.4	18	3300	4.5	1270	--	--	--
FEB 11...	2000	1.6	18	4440	6.0	836	--	--	--
APR 06...	1700	1.0	22	4000	5.4	897	--	--	--
MAY 27...	2200	1.5	19	5080	6.9	366	--	--	--
JUN 17...	1200	1.1	23	3020	4.1	585	--	--	--
AUG 30...	850	1.8	27	2340	3.2	815	--	--	--
SEP 17...	570	.8	29	1770	2.4	722	--	--	--

* Laboratory value.

JORDAN RIVER BASIN

10172650 KENNECOTT DRAIN NEAR MAGNA, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

		NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)		
DATE												
OCT 23...		.390	.50	1.1	1.5	.170	1.2	.770	.720	2.2		
NOV 30...		--	--	--	--	--	1.6	--	.820	2.5		
DEC 31...		--	--	--	--	--	1.4	--	.770	2.4		
FEB 11...		--	--	--	--	--	1.8	--	.610	1.9		
APR 06...		--	--	--	--	--	1.7	--	1.40	4.3		
MAY 27...		--	--	--	--	--	1.8	--	1.50	4.6		
JUN 17...		--	--	--	--	--	1.2	--	.840	2.6		
AUG 30...		--	--	--	--	--	.89	--	.640	2.0		
SEP 17...		--	--	--	--	--	.98	--	.440	1.3		
		ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)
DATE	TIME											
FEB 11...	1000	11	200	2	10	110	3	400	.1	<1	<1	270
MAY 27...	1130	--	--	--	--	--	--	290	--	--	--	--
AUG 30...	1230	1900	100	<1	10	<1	2	240	.2	75	<1	50
						BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)				
						DATE	TIME					
						OCT 23...	1000	540	110	170		
						NOV 30...	1130	480	30	110		
						DEC 31...	1020	470	70	90		
						FEB 11...	1000	530	60	210		
						APR 06...	0930	--	60	170		
						MAY 27...	1130	660	40	290		
						JUN 17...	1215	470	30	110		
						AUG 30...	1230	600	80	50		
						SEP 17...	1240	370	20	50		
						DATE	TIME	CYANIDE TOTAL (MG/L AS CN)				
						FEB 11...	1000	.04				
						AUG 30...	1230	.08				

LOCATION.--Lat 39°58'46", long 112°22'46", in NE¹/₄SW¹/₄ 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.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 10 ft³/s (0.28 m³/s) and maximum (*):

Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)
Feb. 6	1000	---	---	a*2.40	0.732
Apr. 12	1800	31	0.878	1.52	.463
May 3	1700	13	.368	1.21	.369

a Ice jam.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	3.7	3.4	3.3	3.5	3.7	5.0	8.8	5.7	4.4	3.9	3.8
2	3.1	3.7	3.5	3.3	3.5	4.2	5.1	9.1	5.7	4.3	3.9	3.8
3	3.4	3.6	3.4	3.2	3.6	3.9	5.1	12	5.6	4.2	3.9	3.9
4	3.6	3.5	3.4	3.3	3.5	3.8	5.1	12	5.4	4.1	3.9	3.9
5	3.2	3.5	3.4	3.3	3.5	3.6	5.0	11	5.5	4.3	4.0	4.0
6	3.1	3.5	3.4	3.5	3.4	3.5	5.0	10	5.4	4.1	4.0	4.0
7	3.0	3.7	3.5	3.6	3.3	3.5	5.1	9.1	5.3	4.1	3.8	4.2
8	3.4	3.5	3.5	3.7	3.0	3.5	5.1	8.8	5.2	4.2	3.8	4.1
9	3.2	3.5	3.3	3.7	3.0	3.5	5.1	8.5	5.1	4.5	3.7	4.1
10	3.2	3.5	3.3	3.7	3.0	3.5	5.1	8.4	5.0	4.3	3.7	4.4
11	4.1	3.5	3.3	3.6	3.0	4.8	6.6	7.8	5.0	4.3	3.6	4.4
12	3.4	3.5	3.3	3.5	3.1	6.1	14	7.5	4.9	4.2	3.8	4.2
13	3.3	3.5	3.3	3.4	3.0	5.0	16	7.2	4.9	4.1	3.9	4.5
14	3.2	3.5	3.2	3.4	3.2	6.1	14	7.0	5.1	4.1	3.8	4.3
15	3.3	3.5	3.2	3.4	3.2	8.3	10	7.0	4.9	4.0	3.8	4.1
16	3.6	3.5	3.2	3.3	3.7	6.7	7.5	6.7	4.9	4.0	3.8	4.1
17	3.5	3.5	3.1	3.4	3.7	5.7	6.9	6.8	5.2	4.0	3.8	4.0
18	3.5	3.5	3.1	3.3	3.6	5.3	7.0	7.1	5.2	4.0	3.8	4.0
19	3.4	3.5	3.4	3.3	3.5	5.1	6.6	7.2	5.1	4.0	3.8	4.3
20	3.4	3.5	3.2	3.3	3.6	4.9	6.2	7.3	5.0	4.0	3.8	4.3
21	3.4	3.5	3.3	3.5	3.8	4.7	6.0	7.3	5.0	3.8	3.9	4.2
22	3.3	3.5	3.1	3.4	3.8	4.5	6.1	7.3	4.9	3.8	3.9	4.2
23	3.3	3.5	3.1	3.3	4.0	4.6	6.4	7.0	4.9	3.8	3.9	4.1
24	3.3	3.5	3.0	3.3	3.8	4.5	6.5	7.0	4.8	3.8	3.9	4.2
25	3.5	3.5	3.1	3.3	3.7	4.5	6.8	7.0	4.7	4.0	3.8	4.5
26	3.5	3.3	3.1	3.6	3.7	4.7	7.0	6.9	4.6	4.1	3.9	6.3
27	3.5	3.4	3.1	3.6	3.7	4.8	7.6	6.6	4.5	4.3	3.9	6.1
28	3.5	3.5	3.1	3.5	3.7	5.1	8.1	6.8	4.3	4.3	4.0	5.7
29	4.3	3.5	3.1	3.5	---	5.2	8.8	6.6	4.3	4.1	4.0	5.3
30	3.8	3.4	3.2	3.5	---	5.1	8.6	6.2	4.4	4.0	3.8	5.7
31	3.7	---	3.2	3.5	---	5.0	---	5.9	---	4.0	3.9	---
TOTAL	106.2	105.3	100.8	106.5	97.1	147.4	217.4	243.9	150.5	127.2	119.4	132.7
MEAN	3.43	3.51	3.25	3.44	3.47	4.75	7.25	7.87	5.02	4.10	3.85	4.42
MAX	4.3	3.7	3.5	3.7	4.0	8.3	16	12	5.7	4.5	4.0	6.3
MIN	3.0	3.3	3.0	3.2	3.0	3.5	5.0	5.9	4.3	3.8	3.6	3.8
AC-FT	211	209	200	211	193	292	431	484	299	252	237	263
CAL YR 1981	TOTAL	1373.3		MEAN 3.76	MAX 8.4		MIN 2.9	AC-FT 2720				
WTR YR 1982	TOTAL	1654.4		MEAN 4.53	MAX 16		MIN 3.0	AC-FT 3280				

TOOELE VALLEY

10172800 SOUTH WILLOW CREEK NEAR GRANTSVILLE, UTAH

LOCATION.--Lat 40°29'47", long 112°34'25", in SW¼NW¼ 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 mi² (10.85 km²). Area at crest-stage gage site, 3.26 mi² (8.44 km²).

PERIOD OF RECORD.--July 1963 to current year. Annual maximum only, July 1960 to July 1963, at crest-stage gage site.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,360 ft (1,939 m) from topographic map. Prior to July 23, 1963, crest-stage gage only, at site 1.4 mi (2.3 km) upstream at different datum.

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

AVERAGE DISCHARGE.--19 years, 6.42 ft³/s (0.182 m³/s), 4,650 acre-ft/yr (5.73 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92 ft³/s (2.61 m³/s) June 8, 1964, gage height, 2.27 ft (0.692 m); minimum daily, 1.7 ft³/s (0.048 m³/s) Jan. 6-12, 1967, many days 1977-78.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 20 ft³/s (0.57 m³/s):

Date	Time	Discharge (ft ³ /s)	(m ³ /s)	Gage height (ft)	(m)
May 4	0500	37	1.05	1.93	0.588
May 28	2300	45	1.27	2.02	.616
June 24	0500	35	.99	1.96	.597
Sept. 27	1700	30	.85	1.88	.573

Minimum daily, 2.2 ft³/s (0.623 m³/s) Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	2.6	2.3	2.7	2.3	4.8	4.8	25	18	14	12	8.3
2	2.3	2.6	2.3	2.6	2.4	4.8	4.9	26	14	14	12	7.8
3	2.6	2.4	2.3	2.6	2.4	4.8	4.8	31	13	15	12	7.8
4	2.8	2.5	2.3	2.6	2.3	4.8	4.8	33	20	16	11	7.8
5	2.6	2.6	2.3	2.6	2.2	4.5	4.8	32	14	14	11	7.8
6	2.6	2.6	2.3	2.6	2.6	4.4	4.8	27	16	14	11	7.8
7	2.6	2.6	2.3	2.6	2.6	4.1	4.4	21	15	14	11	8.3
8	2.6	2.6	2.3	2.6	2.6	4.1	4.1	19	14	14	12	8.8
9	2.6	2.6	2.3	2.6	2.6	3.7	4.1	18	12	14	12	8.8
10	2.8	2.6	2.3	2.6	2.6	3.7	4.1	16	10	15	12	9.3
11	3.1	2.6	2.3	2.6	2.6	4.7	4.1	14	12	16	12	11
12	2.8	2.6	2.3	2.5	2.6	5.2	6.0	14	14	16	11	11
13	2.6	2.6	2.3	2.3	2.6	4.8	7.8	13	21	17	11	11
14	2.6	2.6	2.3	2.3	2.6	5.5	8.3	14	22	17	11	11
15	2.8	2.6	2.3	2.3	2.8	6.0	9.3	14	22	16	11	11
16	3.1	2.4	2.3	2.3	3.1	5.6	9.9	14	22	17	10	11
17	2.8	2.4	2.3	2.3	3.3	5.3	11	14	19	17	10	11
18	2.8	2.6	2.3	2.5	3.1	5.2	11	13	20	17	10	11
19	2.8	2.5	2.8	2.6	2.8	4.9	11	13	18	13	10	11
20	2.8	2.3	2.7	2.6	2.9	4.5	11	14	22	14	10	10
21	2.8	2.3	2.7	2.6	3.5	4.4	10	14	21	14	10	10
22	2.8	2.3	2.8	2.4	4.2	4.4	10	17	22	14	9.3	10
23	2.8	2.4	3.0	2.4	4.8	4.2	10	17	24	14	9.3	10
24	2.8	2.3	3.1	2.3	4.5	4.3	10	21	28	14	9.3	10
25	2.8	2.3	3.2	2.3	4.5	4.4	11	21	21	14	9.3	10
26	2.8	2.3	3.1	2.5	4.8	4.6	12	29	24	14	8.8	14
27	2.8	2.4	3.1	2.6	4.8	4.9	15	36	19	14	8.8	8.8
28	2.9	2.3	2.8	2.6	4.8	4.9	19	28	16	14	8.8	8.3
29	2.9	2.3	2.8	2.4	---	5.2	22	31	13	13	8.8	8.3
30	2.8	2.3	2.9	2.3	---	5.2	24	14	14	12	8.3	8.3
31	2.8	---	2.8	2.4	---	5.0	---	19	---	12	8.3	---
TOTAL	85.3	74.1	79.2	77.2	88.9	146.9	278.0	632	540	453	321.0	289.2
MEAN	2.75	2.47	2.55	2.49	3.18	4.74	9.27	20.4	18.0	14.6	10.4	9.64
MAX	3.1	2.6	3.2	2.7	4.8	6.0	24	36	28	17	12	14
MIN	2.3	2.3	2.3	2.3	2.2	3.7	4.1	13	10	12	8.3	7.8
AC-FT	169	147	157	153	176	291	551	1250	1070	899	637	574

CAL YR 1981 TOTAL 1518.5 MEAN 4.16 MAX 19 MIN 2.3 AC-FT 3010
WTR YR 1982 TOTAL 3064.8 MEAN 8.40 MAX 36 MIN 2.2 AC-FT 6080

TOOELE VALLEY

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10172805 NORTH WILLOW CREEK NEAR GRANTSVILLE, UTAH

LOCATION.--Lat 40°31'58", long 112°34'19", in NW¼NE¼NW¼ sec.30, T.3 S., R.6 W., Tooele County, Hydrologic Unit 16020304 on left bank 100 ft (30 m) upstream from Wasatch National Forest boundary and 200 ft (60 m) upstream from North Willow Irrigation Company diversion structure, and 7.4 mi (11.9 km) southwest of Grantsville.

DRAINAGE AREA.--5.38 mi² (13.9 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,960 ft (1,820 m) from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34 ft³/s (0.96 m³/s) May 27, 1982, gage height, 1.62 ft (0.494 m); minimum daily, 1.6 ft³/s (0.045 m³/s) several days in January and February 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 20 ft³/s (0.566 m³/s), 34 ft³/s (0.96 m³/s) May 27, gage height, 1.62 ft (0.494 m); minimum daily, 1.7 ft³/s (0.048 m³/s) several days in February.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	2.8	2.2	2.5	2.5	4.8	6.3	14	18	13	3.4	2.4
2	1.9	2.8	2.1	2.4	2.5	4.9	6.1	15	18	12	3.2	2.4
3	2.1	2.9	2.1	2.4	2.5	4.9	6.1	20	17	11	3.0	2.3
4	2.4	2.9	2.1	2.4	2.5	4.8	6.1	28	16	10	3.0	2.3
5	2.2	2.9	2.1	2.5	1.7	4.7	5.9	27	17	10	2.8	2.2
6	2.1	2.9	2.1	2.5	1.7	4.6	5.9	25	18	10	2.8	2.3
7	2.1	3.0	2.1	1.9	1.7	4.5	5.9	23	16	9.5	2.8	2.6
8	2.3	3.0	2.1	1.9	1.7	4.5	5.9	23	15	8.8	2.8	2.8
9	2.3	2.8	2.1	1.9	1.7	4.4	5.9	24	14	8.1	2.8	3.0
10	2.3	2.8	2.1	1.9	1.7	4.4	5.8	24	15	7.2	2.8	3.3
11	2.4	2.7	2.1	1.9	1.7	4.7	6.2	22	15	6.3	2.4	4.2
12	2.5	2.6	2.0	1.9	1.7	5.3	8.9	20	16	5.3	2.4	3.8
13	2.4	2.6	2.1	1.9	1.7	5.6	11	20	16	4.8	2.5	3.8
14	2.4	2.6	2.0	1.9	1.7	5.9	12	18	17	4.4	2.6	3.8
15	2.6	2.6	2.0	1.9	1.7	6.4	13	18	18	4.1	2.5	3.8
16	3.0	2.5	2.0	2.0	1.8	5.6	13	18	18	4.0	2.4	4.0
17	2.7	2.6	1.9	1.9	1.7	6.4	13	19	18	3.8	2.3	4.0
18	2.8	2.6	1.9	2.4	2.1	6.2	12	21	17	3.5	2.3	4.0
19	2.9	2.5	2.6	2.4	2.4	6.0	12	23	16	3.4	2.4	4.0
20	2.9	2.5	2.6	2.4	2.9	5.8	11	25	16	3.3	2.4	4.0
21	2.9	2.5	2.7	2.4	3.7	5.6	11	24	16	3.0	2.4	3.7
22	2.8	2.4	2.5	2.4	4.2	5.6	11	25	16	2.8	2.4	3.8
23	2.7	2.4	2.2	2.4	4.8	5.6	11	25	16	3.0	2.4	3.8
24	2.6	2.4	2.4	2.4	5.0	5.5	11	25	16	3.0	2.4	3.8
25	2.6	2.4	2.6	2.3	5.0	5.5	12	25	16	3.3	2.3	4.1
26	2.6	2.2	2.7	2.5	5.0	5.7	13	28	15	3.4	2.3	5.3
27	2.5	2.3	2.6	2.4	4.8	5.9	14	29	15	4.8	2.4	7.9
28	2.5	2.3	2.5	2.5	4.8	5.9	14	26	13	6.3	2.6	8.6
29	2.8	2.2	2.5	2.5	---	6.3	15	23	13	5.2	3.0	7.9
30	2.7	2.2	2.5	2.4	---	6.3	14	21	13	4.5	2.8	7.6
31	2.7	---	2.5	2.5	---	6.3	---	19	---	4.0	2.6	---
TOTAL	77.6	77.9	70.0	69.6	76.9	168.6	298.0	697	480	185.8	81.2	121.5
MEAN	2.50	2.60	2.26	2.25	2.75	5.44	9.93	22.5	16.0	5.99	2.62	4.05
MAX	3.0	3.0	2.7	2.5	5.0	6.4	15	29	18	13	3.4	8.6
MIN	1.9	2.2	1.9	1.9	1.7	4.4	5.8	14	13	2.8	2.3	2.2
AC-FT	154	155	139	138	153	334	591	1380	952	369	161	241
CAL YR 1981	TOTAL	1090.9	MEAN 2.99	MAX 9.5	MIN 1.6	AC-FT 2160						
WTR YR 1982	TOTAL	2404.1	MEAN 6.59	MAX 29	MIN 1.7	AC-FT 4770						

GREAT SALT LAKE DESERT

10172870 TROUT CREEK NEAR CALLAO, UTAH

LOCATION.--Lat 39°44'39", Long 113°53'21", in SW 1/4 SW 1/4 sec. 28, T.12 S., R.18 W., Juab County, Hydrologic Unit 16020306, on left bank 2.9 mi (4.7 km) upstream from Birch Creek and 14 mi (23 km) southwest of Callao.

DRAINAGE AREA.--8.19 mi² (21.2 km²).

PERIOD OF RECORD.--October 1958 to current year. Monthly discharge only for October and November 1958, published in WSP 1734.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft (1,890 m) from topographic map.

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

AVERAGE DISCHARGE.--24 years, 5.30 ft³/s (0.150 m³/s), 3,840 acre-ft/yr (4.73 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 129 ft³/s (3.65 m³/s) May 20, 1973, gage height, 2.81 ft (0.856 m); minimum, 0.24 ft³/s (0.01 m³/s) Feb. 25, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 20 ft³/s (0.566 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 4	0600	26	0.736	1.69	0.515
May 28	0900	*65	1.84	2.19	.668

Minimum, 1.6 ft³/s (0.045 m³/s) Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.5	2.1	2.2	1.9	2.5	2.5	13	28	9.5	5.3	2.7
2	1.7	2.4	2.2	2.0	2.0	2.4	2.8	17	26	8.7	5.2	2.7
3	1.8	2.4	2.1	2.0	2.0	2.4	2.5	20	24	7.9	4.9	2.6
4	2.3	2.4	2.1	2.0	1.9	2.3	2.5	25	21	7.6	4.6	2.5
5	2.0	2.4	2.1	2.1	1.8	2.3	2.5	24	20	8.3	4.3	2.5
6	1.9	2.5	2.0	2.0	1.8	2.5	2.4	19	19	7.2	4.1	2.5
7	1.9	2.7	2.0	2.1	1.8	2.4	2.4	17	16	6.7	4.1	2.5
8	2.1	2.5	2.0	2.2	1.7	2.2	2.4	16	15	7.1	4.0	2.5
9	2.0	2.5	2.0	2.2	1.7	2.2	2.4	16	14	7.0	3.8	2.4
10	2.0	2.4	2.0	2.3	1.7	2.2	2.4	15	15	6.6	3.6	2.6
11	2.3	2.4	2.0	2.2	1.8	2.3	3.1	14	16	6.4	3.5	2.5
12	2.3	2.4	2.0	2.1	1.8	2.3	3.8	13	14	6.0	3.4	2.5
13	2.4	2.5	2.0	2.1	1.8	2.3	3.9	12	14	5.7	3.5	3.1
14	2.3	2.5	1.9	2.1	2.0	2.5	4.6	11	15	5.6	3.4	2.8
15	2.2	2.5	1.9	2.1	2.2	2.6	5.4	11	16	5.7	3.2	3.2
16	2.3	2.5	1.9	2.1	2.5	2.6	5.3	12	16	5.5	3.1	3.2
17	2.4	2.4	1.9	2.1	2.3	2.5	5.0	13	16	5.3	3.0	3.2
18	2.4	2.4	2.1	2.0	2.1	2.5	5.2	17	17	5.1	3.0	3.2
19	2.3	2.4	2.3	2.0	2.1	2.6	5.5	19	16	4.9	2.9	3.1
20	2.4	2.4	2.5	2.0	2.2	2.5	5.2	19	18	4.7	2.8	3.1
21	2.4	2.4	2.4	2.1	2.5	2.5	4.9	22	18	4.5	2.8	3.0
22	2.4	2.3	2.2	2.0	2.8	2.7	4.6	28	17	4.3	2.7	2.9
23	2.4	2.3	2.1	2.0	3.0	2.3	5.0	34	16	4.3	2.9	2.9
24	2.5	2.3	2.2	2.1	2.8	2.4	5.9	45	15	4.3	2.8	2.9
25	2.6	2.3	2.3	2.1	2.8	2.6	6.6	48	15	5.7	2.7	3.1
26	2.6	2.3	2.4	2.1	2.7	2.8	7.2	46	13	5.0	3.3	12
27	2.6	2.3	2.3	2.1	2.6	2.8	7.5	48	12	6.8	2.9	14
28	2.6	2.2	2.3	2.1	2.5	2.8	8.3	49	11	7.5	3.3	11
29	2.6	2.2	2.2	2.0	---	2.7	11	40	11	6.5	3.0	9.6
30	2.5	2.1	2.2	1.9	---	2.7	12	34	10	6.0	2.8	9.5
31	2.5	---	2.2	2.0	---	2.6	---	29	---	5.6	2.8	---
TOTAL	70.4	71.8	65.9	64.4	60.8	77.0	144.8	746	494	192.0	107.7	126.3
MEAN	2.27	2.39	2.13	2.08	2.17	2.48	4.83	24.1	16.5	6.19	3.47	4.21
MAX	2.6	2.7	2.5	2.3	3.0	2.8	12	49	28	9.5	5.3	14
MIN	1.7	2.1	1.9	1.9	1.7	2.2	2.4	11	10	4.3	2.7	2.4
AC-FT	140	142	131	128	121	153	287	1480	980	381	214	251

CAL YR 1981 TOTAL 1517.4 MEAN 4.16 MAX 39 MIN 1.5 AC-FT 3010
WTR YR 1982 TOTAL 2221.1 MEAN 6.09 MAX 49 MIN 1.7 AC-FT 4410

TRIBUTARIES BETWEEN GREAT SALT LAKE DESERT AND BEAR RIVER

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10172952 DUNN CREEK NEAR PARK VALLEY, UTAH

LOCATION.--Lat 41°51'31", Long 113°19'35", in NW¼NW¼ sec.15, T.13 N., R.13 W., Box Elder County, Hydrologic Unit 16020308, on right bank 150 ft (46 m) upstream from diversion structure, 200 ft (61 m) downstream from confluence of left hand and right hand forks, and 2.9 mi (4.7 km) north of Park Valley.

DRAINAGE AREA.--8.72 mi² (22.58 km²).

PERIOD OF RECORD.--May 1971 to September 1973, October 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,250 ft (1,905 m) from topographic map. Prior to Aug. 26, 1982 at site 110 ft (34 m) downstream at different datum.

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

AVERAGE DISCHARGE.--8 years, 5.49 ft³/s (0.155 m³/s), 3,980 acre-ft/yr (4.91 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded discharge, 86 ft³/s (2.43 m³/s) June 10, 11, 1980, gage height, 2.67 ft (0.814 m); minimum, 0.14 ft³/s (0.004 m³/s) Mar. 17, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 59 ft³/s (1.67 m³/s) May 27, gage height, 1.47 ft (0.448 m); minimum daily, 0.90 ft³/s (0.025 m³/s) Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.6	1.7	1.6	1.3	2.0	2.7	15	15	23	7.0	4.3
2	1.5	1.6	1.7	1.5	1.3	2.0	2.7	22	15	21	6.8	4.0
3	1.7	1.5	1.7	1.4	1.3	2.0	2.6	30	16	19	6.7	3.8
4	1.8	1.4	1.7	1.4	1.0	2.0	2.5	27	16	17	6.7	3.7
5	1.7	1.4	1.6	1.5	.90	2.0	2.5	24	17	15	6.6	3.4
6	1.7	1.3	1.7	1.1	1.2	2.0	2.5	23	17	14	6.5	3.4
7	1.8	1.4	1.7	1.0	1.3	2.0	2.4	23	16	13	6.5	3.6
8	2.0	1.4	1.7	1.3	1.3	2.1	2.4	23	15	13	6.0	3.5
9	1.8	1.5	1.7	1.3	1.3	2.2	2.4	22	15	13	6.5	3.3
10	1.9	1.6	1.7	1.3	1.3	2.3	2.4	20	16	12	6.0	3.2
11	2.4	1.6	1.7	1.3	1.3	2.4	3.0	19	20	11	6.0	3.0
12	2.4	1.6	1.6	1.3	1.3	2.4	2.7	18	25	11	5.5	3.7
13	2.1	1.7	1.7	1.3	1.3	2.4	2.7	18	35	11	5.5	3.5
14	2.1	1.7	1.8	1.2	1.6	2.4	3.0	18	40	11	6.0	3.6
15	2.1	1.7	1.7	1.2	1.9	2.4	2.7	19	42	11	5.5	9.1
16	2.1	1.7	1.5	1.3	2.1	2.4	2.5	19	43	10	5.0	5.4
17	2.1	1.7	1.3	1.3	2.6	2.4	2.7	19	44	10	5.0	3.7
18	2.1	1.8	1.5	1.3	2.2	2.4	2.7	18	42	9.8	5.0	3.2
19	2.0	1.7	1.7	1.3	2.0	2.2	2.2	17	40	9.5	5.0	3.7
20	2.0	1.7	2.1	1.3	2.2	2.2	2.0	22	37	9.3	5.0	3.4
21	1.9	1.8	1.8	1.3	2.4	2.2	2.1	27	35	9.2	5.0	3.0
22	1.7	2.2	1.7	1.3	2.4	2.2	2.5	29	36	9.0	4.5	3.0
23	1.7	2.1	1.5	1.3	1.7	2.2	3.4	30	37	9.0	4.5	3.0
24	1.7	2.1	1.6	1.3	1.5	2.4	4.5	34	33	9.0	4.5	2.8
25	1.7	1.7	1.8	1.3	1.5	2.5	6.0	34	34	9.6	4.5	4.9
26	1.7	1.7	1.7	1.4	1.6	2.7	6.5	39	31	9.6	4.5	14
27	1.7	1.8	1.6	1.7	1.8	2.7	7.7	51	27	9.0	4.5	5.6
28	1.7	1.8	1.5	1.3	1.9	2.9	10	40	26	9.6	6.8	4.0
29	1.7	1.7	1.4	1.3	---	2.8	11	30	24	8.5	5.2	4.0
30	1.6	1.7	1.8	1.3	---	2.7	12	20	22	7.5	4.7	4.5
31	1.5	---	1.7	1.4	---	2.7	---	17	---	7.2	4.5	---
TOTAL	57.3	50.2	51.6	41.1	45.50	72.2	117.0	767	831	360.8	172.0	127.3
MEAN	1.85	1.67	1.66	1.33	1.63	2.33	3.90	24.7	27.7	11.6	5.55	4.24
MAX	2.4	2.2	2.1	1.7	2.6	2.9	12	51	44	23	7.0	14
MIN	1.4	1.3	1.3	1.0	.90	2.0	2.0	15	15	7.2	4.5	2.8
AC-FT	114	100	102	82	90	143	232	1520	1650	716	341	252

CAL YR 1981 TOTAL 966.62 MEAN 2.65 MAX 14 MIN .91 AC-FT 1920
WTR YR 1982 TOTAL 2693.00 MEAN 7.38 MAX 51 MIN .90 AC-FT 5340

10174500 SEVIER RIVER AT HATCH, UTAH

LOCATION.--Lat 37°39'04", long 112°25'46", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.28, T.36 S., R.5 W., Garfield County, Hydrologic Unit 16030001, on right bank at highway bridge, 0.2 mi (0.3 km) east of Hatch, and 2.8 mi (4.5 km) downstream from Mammoth Creek.

DRAINAGE AREA.--340 mi² (881 km²).

PERIOD OF RECORD.--June 1911 to September 1928, June 1939 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Hatchtown" 1911 and as "near Hatch" 1912.

REVISED RECORDS.--WSP 960: 1939-40. WSP 1284: 1916. WSP 1564: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,870 ft (2,094 m) from river-profile map. See WSP 1734 for history of changes prior to Oct. 4, 1949. Relocated at present site Aug. 22, 1978.

REMARKS.--Records fair. Small diversions for irrigation above station. No regulation since Hatchtown Dam failed in 1914.

AVERAGE DISCHARGE.--60 years, 125 ft³/s (3.54 m³/s), 90,560 acre-ft/yr (112 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge not determined, occurred May 25, 1914, when Hatchtown Dam failed; maximum recorded, 1,490 ft³/s (42.2 m³/s) May 26, 1922; gage height, 5.25 ft (1.600 m), datum then in use; minimum daily, 10 ft³/s (0.28 m³/s) for several days in 1912 when water was stored in Hatchtown Reservoir. Minimum natural flow, 20 ft³/s (0.57 m³/s) Aug. 30, 31, Sept. 1, 7-9, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 500 ft³/s (14.2 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	(m ³ /s)	Gage height (ft)	(m)
May 5	0230	501	14.2	2.43	0.741
May 26	0930	*739	20.9	2.91	.887

Minimum daily, 35 ft³/s (0.991 m³/s) Jan. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	71	54	58	60	80	67	256	481	160	98	107
2	67	69	52	44	60	85	63	273	478	161	112	94
3	74	67	58	35	60	77	63	360	466	164	109	84
4	73	68	58	48	54	69	68	437	451	147	101	86
5	73	69	58	54	52	64	67	399	432	139	99	90
6	66	69	60	54	43	62	65	352	402	137	102	92
7	63	77	64	40	37	62	62	341	359	125	100	99
8	64	70	64	52	56	66	60	371	343	115	99	93
9	65	70	64	54	58	74	64	392	325	113	97	90
10	65	72	64	56	60	77	67	382	308	110	89	95
11	110	68	64	56	62	83	74	340	308	107	90	97
12	74	65	56	56	58	107	102	323	292	105	95	96
13	66	64	64	52	60	85	127	308	278	103	114	102
14	63	64	64	56	62	82	148	318	269	102	108	99
15	69	64	64	56	63	89	156	299	286	104	101	102
16	69	63	64	56	63	82	156	302	332	101	108	97
17	69	60	58	56	62	74	177	311	271	103	109	95
18	68	62	66	56	62	72	171	343	268	104	106	93
19	68	63	66	56	60	64	183	395	277	96	102	92
20	66	65	66	56	63	62	195	485	266	100	98	90
21	66	66	66	56	72	62	181	537	248	97	114	91
22	66	66	66	52	82	66	181	550	232	98	123	89
23	66	67	58	40	87	64	178	567	233	100	109	86
24	68	66	62	58	77	60	175	619	230	100	119	81
25	70	66	62	60	80	63	197	619	208	111	109	83
26	70	66	62	64	87	69	220	633	193	113	109	85
27	74	65	62	64	83	67	210	550	172	104	118	150
28	75	65	52	64	83	66	211	550	168	106	110	120
29	78	64	62	64	---	64	226	554	166	108	107	119
30	73	60	62	60	---	60	254	493	158	108	109	125
31	71	---	62	54	---	61	---	466	---	103	107	---
TOTAL	2169	1991	1904	1687	1806	2218	4168	13125	8900	3544	3271	2922
MEAN	70.0	66.4	61.4	54.4	64.5	71.5	139	423	297	114	106	97.4
MAX	110	77	66	64	87	107	254	633	481	164	123	150
MIN	60	60	52	35	37	60	60	256	158	96	89	81
AC-FT	4300	3950	3780	3350	3580	4400	8270	26030	17650	7030	6490	5800

CAL YR 1981	TOTAL	33565	MEAN	92.0	MAX	341	MIN	52	AC-FT	66580
WTR YR 1982	TOTAL	47705	MEAN	131	MAX	633	MIN	35	AC-FT	94620

SEVIER LAKE BASIN

10180000 SEVIER RIVER NEAR CIRCLEVILLE, UTAH

LOCATION.--Lat 38°06'15", Long 112°20'08", in NE¼SW¼NW¼ sec.20, T.31 S., R.4 W., Garfield County, Hydrologic Unit 16030001, on left bank 2 mi (3 km) upstream from Pine Creek and 6 mi (10 km) southwest of Circleville.

DRAINAGE AREA.--986 mi² (2,554 km²).

PERIOD OF RECORD.--May to September 1912, April 1914 to September 1927 (fragmentary 1923, 1925-57), October 1949 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1180: 1922 (M). WSP 1314: 1916. WRD UT-75-1: 1969. WDR UT-78-1: Drainage area.

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.--42 years (1914-22, 1923-24, 1949-82), 143 ft³/s (4.050 m³/s), 103,600 acre-ft/yr (128 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,730 ft³/s (77.3 m³/s) Dec. 26, 1971, gage height, 7.06 ft (2.152 m) from high-water mark, from rating curve extended above 1,000 ft³/s (28.3 m³/s); minimum daily, 18 ft³/s (0.51 m³/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, 723 ft³/s (20.5 m³/s) Aug. 2, gage height, 3.85 ft (1.173 m); minimum, 49 ft³/s (1.39 m³/s) Jan. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	146	125	141	127	177	139	213	414	106	87	112
2	85	152	128	141	123	168	125	272	411	104	153	104
3	92	148	135	137	128	172	125	313	393	99	151	96
4	108	156	140	157	124	160	119	349	373	92	118	91
5	104	150	146	175	97	150	117	402	344	90	106	97
6	101	150	145	133	108	137	116	390	315	102	99	91
7	96	172	141	95	142	137	111	344	285	117	105	98
8	92	170	140	103	157	137	108	320	249	125	103	114
9	94	158	140	144	168	135	108	323	220	125	102	128
10	104	154	142	160	168	146	106	341	204	106	88	128
11	127	152	142	163	153	148	110	336	207	101	90	131
12	205	150	141	163	135	170	119	295	207	92	98	111
13	159	149	138	165	135	178	139	256	200	92	188	118
14	145	148	138	168	131	163	163	233	186	88	143	151
15	143	147	135	174	135	172	182	222	174	80	114	153
16	154	147	138	187	148	152	188	198	178	73	98	144
17	145	145	131	140	158	139	211	196	172	71	155	138
18	141	144	128	130	158	133	190	207	180	71	127	117
19	135	141	137	127	159	128	188	235	188	78	131	113
20	132	141	140	123	163	142	196	265	198	74	99	109
21	132	141	142	125	192	128	196	300	200	78	105	101
22	128	146	139	106	235	130	190	328	198	84	121	87
23	125	145	125	114	267	124	188	360	196	78	160	82
24	125	144	116	124	205	114	174	381	184	82	182	80
25	129	142	123	128	177	117	157	414	168	104	157	81
26	126	135	128	134	187	120	153	442	157	102	285	85
27	127	131	138	142	196	125	146	468	148	139	148	214
28	136	136	128	137	182	117	163	484	135	227	151	286
29	149	144	131	140	---	120	186	478	122	125	136	181
30	157	138	143	124	---	124	209	455	112	113	129	198
31	147	---	144	126	---	127	---	448	---	102	120	---
TOTAL	3925	4422	4207	4326	4458	4390	4622	10268	6718	3120	4049	3739
MEAN	127	147	136	140	159	142	154	331	224	101	131	125
MAX	205	172	146	187	267	178	211	484	414	227	285	286
MIN	82	131	116	95	97	114	106	196	112	71	87	80
AC-FT	7790	8770	8340	8580	8840	8710	9170	20370	13330	6190	8030	7420
CAL YR 1981 TOTAL	45717		MEAN 125	MAX 288	MIN 40	AC-FT 90680						
WTR YR 1982 TOTAL	58244		MEAN 160	MAX 484	MIN 71	AC-FT 115500						

SEVIER LAKE BASIN

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10183500 SEVIER RIVER NEAR KINGSTON, UTAH

LOCATION.--Lat 38°12'22", long 112°12'25", in SE¼NE¼NW¼ sec.16, T.30 S., R.3 W., Piute County, Hydrologic Unit 16030001, on left bank 1,000 ft (305 m) upstream from bridge on State Highway 22, 1.1 mi (1.8 km) west of Kingston, and 1.9 mi (3.1 km) upstream from East Fork.

DRAINAGE AREA.--1,131 mi² (2,929 km²).

PERIOD OF RECORD.--June 1914 to current year.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,980 ft (1,823 m) from river-profile map. Prior to Sept. 20, 1918, at site 1 mi (2 km) downstream at different datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--68 years, 125 ft³/s (3.54 m³/s), 90,560 acre-ft/yr (112 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 3,000 ft³/s (850 m³/s) (including estimated flow of 360 ft³/s (10.2 m³/s) in overflow channel bypassing station), Mar. 4, 1938, gage height, 5.20 ft (1.585 m) from rating curve extended above 600 ft³/s (17.0 m³/s); minimum, 0.9 ft³/s (0.025 m³/s) July 26, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 404 ft³/s (11.4 m³/s) May 29, gage height, 2.27 ft (0.692 m); minimum daily, 22 ft³/s (0.623 m³/s) July 16-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	145	151	162	150	201	156	91	283	33	36	64
2	43	145	147	162	148	201	150	117	274	35	38	60
3	46	140	152	155	145	212	142	142	241	34	106	53
4	66	137	158	142	148	198	140	177	243	34	58	53
5	95	132	160	140	130	182	134	225	224	35	45	51
6	79	112	167	138	120	170	134	207	190	32	34	45
7	86	135	163	138	110	164	127	172	153	35	36	59
8	86	157	161	140	159	162	125	162	118	43	31	76
9	74	158	158	141	148	153	120	167	97	63	31	86
10	71	149	158	140	159	164	117	201	83	42	28	88
11	71	146	161	140	162	173	120	192	86	33	26	78
12	141	143	161	140	148	182	127	153	97	27	27	63
13	136	142	160	140	145	198	120	138	98	25	61	68
14	122	147	158	140	150	186	140	132	92	24	89	100
15	109	145	157	141	164	189	148	127	88	24	51	111
16	142	144	158	140	192	182	145	115	87	22	38	114
17	145	148	155	153	195	164	153	101	91	22	68	108
18	138	150	148	150	192	159	134	104	94	22	92	92
19	135	149	150	150	189	156	132	123	99	22	71	75
20	132	147	155	142	192	162	140	140	103	22	69	57
21	124	148	160	148	215	156	140	175	110	22	61	55
22	118	149	160	132	253	153	137	187	110	24	56	51
23	115	152	149	137	296	150	132	215	111	22	55	48
24	110	151	141	150	234	137	120	228	103	26	158	35
25	113	150	143	148	204	137	91	254	92	25	136	33
26	117	149	145	156	208	142	61	282	79	25	211	45
27	115	147	150	167	219	148	58	326	60	30	137	134
28	123	152	149	164	204	142	58	339	61	98	115	278
29	136	156	148	164	---	142	76	348	38	50	102	180
30	151	160	158	150	---	148	92	323	37	36	84	184
31	150	---	161	156	---	150	---	318	---	33	69	---
TOTAL	3332	4385	4802	4566	4979	5163	3669	5981	3642	1020	2219	2544
MEAN	107	146	155	147	178	167	122	193	121	32.9	71.6	84.8
MAX	151	160	167	167	296	212	156	348	283	98	211	278
MIN	43	112	141	132	110	137	58	91	37	22	26	33
AC-FT	6610	8700	9520	9060	9880	10240	7280	11860	7220	2020	4400	5050
CAL YR 1981	TOTAL	38160	MEAN 105	MAX 206	MIN 14	AC-FT 75690						
WTR YR 1982	TOTAL	46302	MEAN 127	MAX 348	MIN 22	AC-FT 91840						

SEVIER LAKE BASIN

10183900 EAST FORK SEVIER RIVER NEAR RUBYS INN, UTAH

LOCATION.--Lat 37°34'33", long 112°15'54", in NE¼SE¼NW¼ sec.19, T.37 S., R.4 W., Garfield County, Hydrologic Unit 16030002, Dixie National Forest, on left bank about 100 ft (30 m) upstream from highway bridge, 0.6 mi (1.0 km) downstream from Skunk Creek, 3.6 mi (5.8 km) upstream from Tropic Reservoir dam, 9.1 mi (14.6 km) southwest of Rubys Inn, and 10.5 mi (16.9 km) southeast of Hatch.

DRAINAGE AREA.--71.6 mi² (185 km²).

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WRD UT-74-1: 1973.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,860 ft (2,396 m) from river-profile map. Prior to October 10, 1966, on right bank at different datum.

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

AVERAGE DISCHARGE.--21 years, 16.9 ft³/s (0.479 m³/s), 12,240 acre-ft/yr (15.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 448 ft³/s (12.7 m³/s) May 23, 1980, gage height, 3.28 ft (1.00 m); no flow for several days in February and March 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 50 ft³/s (1.42 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Oct. 11	1230	56	1.59	2.16	0.658
Apr. 6	1130	100	2.83	2.44	.744
May 3	0200	102	2.89	2.45	.747
Aug. 25	2300	63	1.78	2.21	.674
Sept. 27	1000	*110	3.12	2.49	.759

Minimum, 5.8 ft³/s (0.164 m³/s) Jan. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	11	11	11	8.0	15	20	67	26	11	8.3	9.2
2	16	11	12	9.0	7.3	14	18	80	25	9.9	11	8.8
3	16	11	11	8.6	7.1	13	19	88	25	9.7	11	8.5
4	13	11	11	7.8	7.0	12	20	88	24	9.2	8.6	8.5
5	13	11	12	8.8	6.4	12	58	84	24	9.2	8.0	14
6	11	11	11	8.2	7.1	13	74	73	23	9.5	7.8	16
7	10	17	12	7.0	7.5	13	74	68	23	9.5	7.8	15
8	9.7	14	12	6.5	8.0	14	72	64	22	9.9	8.5	13
9	9.2	12	12	6.8	9.2	15	64	60	21	9.9	8.3	13
10	9.2	12	12	7.4	11	16	60	61	20	9.2	7.6	12
11	33	12	12	8.0	12	17	62	51	20	8.8	8.6	17
12	25	11	11	8.0	12	16	65	46	19	8.6	9.5	12
13	16	11	11	8.0	13	14	56	46	18	8.1	21	19
14	14	11	10	8.0	14	13	47	39	17	7.9	11	16
15	15	11	11	8.8	14	13	42	35	16	7.8	9.2	15
16	14	10	11	7.6	15	14	41	35	16	7.8	9.0	11
17	14	10	9.2	7.8	16	14	47	35	17	7.6	11	11
18	13	10	9.9	8.5	15	15	51	35	18	7.6	9.9	10
19	14	10	10	9.5	15	15	54	36	16	8.1	10	10
20	13	11	12	9.2	15	15	55	39	15	8.5	9.7	9.9
21	13	11	10	8.3	15	15	53	37	15	8.1	9.2	9.7
22	11	11	9.4	11	15	16	49	36	14	8.5	13	9.7
23	11	11	8.7	12	15	16	46	36	13	8.1	13	9.2
24	11	11	9.0	13	15	16	43	31	13	8.6	18	9.0
25	11	11	10	13	14	17	44	31	12	9.5	20	9.5
26	11	11	10	12	14	18	52	30	11	11	24	11
27	11	9.2	11	11	15	18	59	29	11	11	13	56
28	13	9.7	12	10	22	18	64	28	10	10	12	19
29	16	11	13	9.9	---	19	70	28	9.7	9.7	11	15
30	14	10	13	8.8	---	20	66	27	11	8.8	9.9	26
31	12	---	11	8.1	---	21	---	27	---	8.1	9.5	---
TOTAL	420.1	333.9	340.2	281.6	344.6	477	1545	1470	524.7	279.2	348.4	423.0
MEAN	13.6	11.1	11.0	9.08	12.3	15.4	51.5	47.4	17.5	9.01	11.2	14.1
MAX	33	17	13	13	22	21	74	88	26	11	24	56
MIN	8.0	9.2	8.7	6.5	6.4	12	18	27	9.7	7.6	7.6	8.5
AC-FT	833	662	675	559	684	946	3060	2920	1040	554	691	839

CAL YR 1981 TOTAL 4490.5 MEAN 12.3 MAX 51 MIN 3.9 AC-FT 8910
WTR YR 1982 TOTAL 6787.7 MEAN 18.6 MAX 88 MIN 6.4 AC-FT 13460

SEVIER LAKE BASIN

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10187300 OTTER CREEK NEAR KOOSHAREM, UTAH

LOCATION.--Lat 38°36'40", long 111°48'40", in NW¼ sec.28, T.25 S., R.1 E., Sevier County, Hydrologic Unit 16030002, on right bank, 2.3 mi (3.7 km) upstream from mouth and 7.9 mi (12.7 km) northeast of Koosharem.

DRAINAGE AREA.--23.5 mi² (62 km²).

PERIOD OF RECORD.--August 1964 to September 1982 (discontinued).

GAGE.--Water-stage recorder and Cipolletti weir. Altitude of gage is 7,100 ft (2,164 m) from topographic map.

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

AVERAGE DISCHARGE.--18 years, 12.1 ft³/s (0.343 m³/s), 8,770 acre-ft/yr (10.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 117 ft³/s (3.31 m³/s) May 18, 1973, gage height, 2.61 ft (0.796 m); minimum, 3.6 ft³/s (0.10 m³/s) Nov. 9, 1977, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 25 ft³/s (0.71 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	(m ³ /s)	Gage height (ft)	(m)
May 3	0100	44	1.25	2.12	0.646
May 25	2200	*59	1.67	2.24	.683
July 25	2000	26	.74	1.89	.576

Minimum, 5.0 ft³/s (0.14 m³/s) Dec. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	9.0	8.6	8.7	8.1	9.4	9.4	22	32	15	12	10
2	8.1	9.4	8.4	8.4	8.1	9.4	9.3	27	30	15	13	10
3	8.1	9.4	8.7	8.7	8.1	9.4	9.4	34	28	14	12	10
4	8.7	9.0	8.7	8.6	8.1	9.4	9.4	33	28	14	12	11
5	9.4	9.4	8.7	8.7	8.4	9.4	9.3	33	27	15	12	11
6	9.0	9.4	8.7	8.7	8.7	9.0	9.4	30	25	15	12	11
7	8.4	9.7	8.7	8.7	8.8	9.4	9.4	30	24	15	12	11
8	8.7	9.0	8.7	8.7	8.8	9.4	9.0	30	23	16	12	11
9	8.7	9.0	8.7	8.7	8.8	9.4	9.3	30	23	15	12	11
10	8.4	8.7	8.7	8.7	8.8	9.4	9.3	27	22	14	11	11
11	10	9.0	8.7	8.7	8.7	9.4	10	24	21	14	12	11
12	10	8.7	8.7	8.7	8.7	9.4	11	22	21	14	12	11
13	9.0	8.7	8.7	8.7	8.7	9.4	12	21	20	14	13	11
14	8.7	8.7	8.7	8.6	9.0	9.7	13	21	20	14	12	12
15	9.0	8.7	8.7	8.4	9.0	9.4	13	24	20	13	11	11
16	9.4	8.7	8.6	7.8	9.0	9.4	13	25	19	13	12	11
17	9.0	8.6	8.1	8.1	9.0	9.4	12	28	19	13	11	10
18	9.4	8.7	8.6	8.1	9.0	9.4	13	30	19	13	11	10
19	9.0	7.5	8.7	8.1	9.0	9.4	13	31	18	13	12	10
20	9.0	8.4	8.7	8.1	9.0	9.0	12	28	18	13	11	10
21	9.0	8.7	9.0	8.1	9.4	9.4	11	33	18	13	11	10
22	8.7	9.0	8.7	8.1	9.7	9.0	12	34	17	13	12	10
23	8.7	9.0	8.4	8.1	9.7	9.1	12	35	17	13	11	10
24	8.7	9.0	7.5	8.1	9.0	9.4	12	41	16	13	12	10
25	8.7	8.7	5.7	8.1	9.0	9.3	13	44	16	15	12	11
26	8.7	8.1	6.9	8.1	9.4	9.4	14	45	16	14	11	11
27	8.7	8.7	8.7	8.1	9.0	9.4	16	43	16	13	11	16
28	8.8	8.7	8.7	8.1	9.4	9.5	19	41	15	13	11	12
29	9.0	9.0	8.7	8.1	---	9.7	20	36	15	13	10	12
30	8.5	8.7	8.7	8.1	---	9.3	19	33	15	12	10	13
31	8.6	---	8.7	8.1	---	9.4	---	31	---	12	10	---
TOTAL	273.9	265.3	262.5	259.0	248.4	290.4	363.2	966	618	426	358	329
MEAN	8.84	8.84	8.47	8.35	8.87	9.37	12.1	31.2	20.6	13.7	11.5	11.0
MAX	10	9.7	9.0	8.7	9.7	9.7	20	45	32	16	13	16
MIN	7.8	7.5	5.7	7.8	8.1	9.0	9.0	21	15	12	10	10
AC-FT	543	526	521	514	493	576	720	1920	1230	845	710	653

CAL YR 1981	TOTAL	4144.2	MEAN 11.4	MAX 47	MIN 5.7	AC-FT 8220
WTR YR 1982	TOTAL	4659.7	MEAN 12.8	MAX 45	MIN 5.7	AC-FT 9240

10188000 OTTER CREEK RESERVOIR NEAR ANTIMONY, UTAH

LOCATION.--Lat 38°10'15", long 112°01'25", in NW¼SW¼NW¼ sec.28, T.30 S., R.2 W., Piute County, Hydrologic Unit 16030002, near spillway on right side of dam on Otter Creek, 3.7 mi (6.0 km) northwest of Antimony and 9.3 mi (15.0 km) east of Kingston.

DRAINAGE AREA.--373 mi² (966 km²).

PERIOD OF RECORD.--January 1914 to September 1915, January 1934 to current year. Published as "near Coyote" 1914.

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

GAGE.--Staff gage usually read on 10th, 20th, and last day of each month. Altitude of gage is 6,350 ft (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 hm³) 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 hm³). 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, 56,760 acre-ft (70.0 hm³) May 31, 1982, gage height, 37.6 ft (11.46 m); minimum observed, 200 acre-ft (0.25 hm³) Sept. 10, 1956, gage height, 1.0 ft (0.305 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 56,760 acre-ft (70.0 hm³) May 31, gage height, 37.6 ft (11.46 m); minimum observed, 28,780 acre-ft (35.5 hm³) Oct. 31, gage height, 25.2 ft (7.68 m).

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

25	28,400	35	50,170
30	38,550	38	57,800

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	33100
2	---	---	---	---	---	---	---	---	---	---	37700	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	29170	30320	35360	38550	39650	42110	47970	54690	55460	43480	36620	35990
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	28980	32080	37050	38990	40310	43250	51420	55200	52160	39430	36200	35990
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	41200	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	33710	---	---	---	---	54180	---	47730	---	---	35160
31	28780	---	35990	39210	---	44410	---	56760	---	37480	34320	---
(+)	25.2	27.7	28.8	30.3	31.2	32.6	36.6	37.6	34.0	29.5	28.0	28.4
(±)	-580	+4930	+2280	+3220	+1990	+3210	+9770	+2580	-9030	-10250	-3160	+840

CAL YR 1981 (±) -11980
WTR YR 1982 (±) +5800

(+) GAGE HEIGHT, IN FEET, AT END OF MONTH
(±) CHANGE IN CONTENTS, IN ACRE-FEET

SEVIER LAKE BASIN

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10189000 EAST FORK SEVIER RIVER NEAR KINGSTON, UTAH

LOCATION.--Lat 38°11'49", long 112°09'01", in NW¼SW¼SE¼ sec.13, T.30 S., R.3 W., Piute County, Hydrologic Unit 16030002, on left bank 1,500 ft (457 m) upstream from bridge on State Highway 22, 2.2 mi (3.5 km) east of Kingston, 4.6 mi (7.4 km) upstream from mouth, and 10 mi (16 km) downstream from Otter Creek.

DRAINAGE AREA.--1,207 mi² (3,126 km²).

PERIOD OF RECORD.--March 1913 to current year.

REVISED RECORDS.--WSP 750: 1931-32. WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,150 ft (1,875 m) from river-profile map. Prior to Apr. 29, 1914, staff gage at site 0.5 mi (0.8 km) upstream at different datum. Apr. 29, 1914 to June 2, 1939, water-stage recorder at site 4,000 ft (1,219 m) downstream at different datum. June 12, 1939 to July 29, 1970, water-stage recorder at site 2,500 ft (762 m) downstream at different datum.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation above and below station. Also diversion upstream for storage in Otter Creek Reservoir (see station 10188000); flow regulated by reservoir.

AVERAGE DISCHARGE.--69 years, 77.0 ft³/s (2.181 m³/s), 55,790 acre-ft/yr (68.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,030 ft³/s (57.5 m³/s) May 12, 1941, gage height, 5.05 ft (1.539 m); minimum, 1.0 ft³/s (0.03 m³/s) Jan. 25, 1976, gage height, 0.52 ft (0.16 m); result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 615 ft³/s (17.4 m³/s) May 6, gage height, 3.40 ft (1.036 m); minimum daily, 9.8 ft³/s (0.28 m³/s) Jan. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	18	14	17	18	18	20	227	105	214	150	44
2	60	18	15	14	18	20	21	280	97	217	142	43
3	63	18	16	12	19	20	22	457	96	219	137	43
4	62	18	17	14	17	21	24	558	89	220	134	44
5	61	18	18	16	13	20	27	539	89	220	127	46
6	131	18	16	14	11	19	28	580	89	222	124	47
7	142	19	16	9.8	12	19	22	447	91	227	127	47
8	144	18	16	11	15	19	23	369	89	232	129	47
9	144	17	16	12	17	18	23	313	79	230	130	46
10	143	17	16	13	21	18	23	278	74	225	126	45
11	151	17	16	14	20	19	23	245	73	223	124	44
12	151	17	16	15	17	19	23	234	71	222	129	43
13	148	17	16	15	18	20	24	225	69	221	139	30
14	148	16	18	14	19	21	25	215	68	217	146	18
15	149	16	17	15	20	23	28	96	62	215	149	17
16	151	16	17	17	18	24	30	89	57	212	164	17
17	149	17	14	18	20	19	34	95	155	208	165	19
18	147	17	16	19	21	18	39	99	160	205	173	22
19	146	17	17	20	20	18	45	103	69	223	100	20
20	145	17	17	19	21	17	53	110	69	223	62	18
21	142	17	18	20	22	17	79	119	78	223	58	19
22	143	18	17	17	22	17	119	120	106	217	57	21
23	143	18	15	11	21	17	131	84	233	207	57	21
24	144	17	13	14	18	18	169	73	228	201	57	20
25	145	17	11	17	17	18	168	83	223	196	57	21
26	37	15	12	19	18	18	168	97	217	197	62	19
27	18	16	16	20	18	19	168	102	209	198	52	25
28	18	17	14	19	18	19	168	102	205	184	49	29
29	18	19	16	19	---	19	196	128	206	183	48	23
30	20	17	18	17	---	20	200	127	210	172	47	31
31	18	---	19	17	---	21	---	123	---	161	45	---
TOTAL	3338	517	493	488.8	509	593	2123	6717	3666	6534	3266	929
MEAN	108	17.2	15.9	15.8	18.2	19.1	70.8	217	122	211	105	31.0
MAX	151	19	19	20	22	24	200	580	233	232	173	47
MIN	18	15	11	9.8	11	17	20	73	57	161	45	17
AC-FT	6620	1030	978	970	1010	1180	4210	13320	7270	12960	6480	1840

CAL YR 1981 TOTAL 30550.0 MEAN 83.7 MAX 264 MIN 11 AC-FT 60600
WTR YR 1982 TOTAL 29173.8 MEAN 79.9 MAX 580 MIN 9.8 AC-FT 57870

SEVIER LAKE BASIN

10191000 PIUTE RESERVOIR NEAR MARYSVALE, UTAH

LOCATION.--Lat 38°19'26", long 112°11'26", in NW¼NE¼NW¼ sec.3, T.29 S., R.3 W., Piute County, Hydrologic Unit 16030001, at Piute Dam on Sevier River, 9.0 mi (14.5 km) south of Marysville.

DRAINAGE AREA.--2,438 mi² (6,314 km²).

PERIOD OF RECORD.--March 1914 to current year.

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

GAGE.--Staff gage read at irregular intervals. Datum of gage is 5,900.8 ft (1,798.56 m) NGVD of 1929 (levels by Office of State Engineer).

REMARKS.--Reservoir is formed by earthfill dam; storage began in summer of 1910. Capacity, 71,830 acre-ft (88.6 hm³) 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 observed, 82,300 acre-ft (102 hm³) 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, 70,030 acre-ft (86.3 hm³) June 5, gage height, 75.3 ft (22.95 m); minimum observed, 16,640 acre-ft (20.5 hm³) Oct. 1, gage height, 44.9 ft (13.69 m).

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

44	15,540	55	30,870	70	58,030
45	16,760	60	39,150	75	69,260
50	23,380	65	48,170	76	71,830

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16640	27640	38640	49120	57210	64530	66150	66390	69260	69770	53970	48170
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	66850	66850	---	---	54970	---
5	17760	---	---	---	---	---	---	---	70030	67330	---	46310
6	---	---	40720	---	---	64530	---	---	---	---	---	---
7	---	30870	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	59720	---	---	---	---	---	---	---
9	---	---	---	---	---	---	68780	68060	---	---	---	---
10	---	---	---	---	---	---	---	---	68300	63410	53970	43580
11	---	---	---	51810	---	---	---	---	---	---	---	---
12	---	---	42500	---	---	---	---	---	---	---	---	---
13	---	---	---	---	60780	63410	---	---	---	---	---	---
14	21440	---	---	---	---	---	---	---	---	---	---	---
15	---	33270	---	---	---	---	69770	67090	66620	61000	52000	43040
16	---	---	---	53180	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	23960	---	---	---	61210	---	---	---	---	---	---	42680
19	---	---	44660	---	---	---	69770	---	66850	---	51030	---
20	---	35250	---	---	61640	---	---	---	---	57210	---	---
21	---	---	---	---	---	---	---	65920	---	---	---	---
22	---	---	---	---	62960	64530	---	---	---	---	---	---
23	---	---	---	55180	---	---	---	---	---	---	---	---
24	26890	---	---	---	---	---	---	---	---	---	50070	43040
25	---	---	---	---	---	---	---	---	69260	53970	---	---
26	---	---	47060	---	---	---	68780	66620	---	---	---	---
27	---	---	---	---	---	64530	---	---	---	---	---	---
28	---	---	---	---	64530	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	38640	48550	---	---	---	66850	---	69770	53970	48170	43580
31	27640	---	a48840	57210	---	65920	---	69260	---	a53970	48170	---
(†)	52.9	59.7	---	69.6	73.0	73.6	74.0	75.0	75.2	---	65.0	62.5
(‡)	+11000	+11000	+10200	+8370	+7320	+1390	+930	+2410	+510	-15800	-5800	-4590

CAL YR 1981 (‡) -850

WTR YR 1982 (‡) +26940

(†) GAGE HEIGHT, IN FEET, AT END OF MONTH

(‡) CHANGE IN CONTENTS, IN ACRE-FEET

(a) NO GAGE-HEIGHT RECORD, CONTENTS INTERPOLATED

SEVIER LAKE BASIN

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10191500 SEVIER RIVER BELOW PIUTE DAM, NEAR MARYSVALE, UTAH

LOCATION.--Lat 38°19'43", long 112°11'30", in NW¼SW¼SE¼ sec.34, T.28 S., R.3 W., Piute County, Hydrologic Unit 16030003, on left bank 0.25 mi (0.4 km) downstream from Piute Dam and 8.5 mi (13.7 km) south of Marysvale.

DRAINAGE AREA.--2,441 mi² (6,322 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May to August 1911, May 1912 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,870 ft (1,789 m) by barometer. Prior to May 4, 1912, non-recording gage at site 0.25 mi (0.40 km) upstream at different datums. May 4, 1912 to Mar. 31, 1935, water-stage recorder at site 0.05 mi (0.08 km) upstream at different datum. Apr. 1, 1935 to Apr. 7, 1936, at datum 0.7 ft (0.213 m) higher. Apr. 8, 1936 to Feb. 25, 1970, at datum 0.5 ft (0.152 m) higher. Feb. 26, 1970 to Apr. 22, 1979 at site 0.25 mi (0.40 km) downstream at different datum.

REMARKS.--Records good. Flow regulated by Piute Reservoir (see station 10191000).

AVERAGE DISCHARGE.--70 years (1912-82), 211 ft³/s (5.976 m³/s), 152,900 acre-ft/yr (189 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,600 ft³/s (73.6 m³/s) May 23, 24, 1922; practically no flow at times when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 662 ft³/s (18.7 m³/s) July 19, gage height, 1.95 ft (0.594 m); minimum daily, 12 ft³/s (0.340 m³/s) many days during March, April, and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	63	21	18	19	114	12	499	262	428	149	378
2	17	63	21	18	19	169	12	484	322	451	149	379
3	17	63	20	18	19	216	12	530	322	550	110	402
4	17	58	20	18	19	216	12	486	322	550	172	421
5	27	47	20	18	19	219	12	428	369	610	234	419
6	54	43	20	18	19	219	12	464	428	633	233	390
7	54	43	20	18	19	216	12	484	427	625	275	385
8	54	43	20	18	19	214	12	492	441	625	317	376
9	54	43	20	18	19	212	12	543	453	626	383	332
10	49	40	20	18	20	212	12	618	432	574	425	335
11	46	28	19	18	55	212	12	603	429	536	453	336
12	46	28	19	18	120	212	12	570	367	534	470	311
13	44	28	19	18	135	212	12	417	233	528	472	279
14	41	27	19	18	145	212	12	414	228	525	415	237
15	53	25	19	18	145	178	35	373	234	570	423	197
16	54	25	18	18	104	145	88	316	186	633	453	152
17	54	25	18	18	45	145	100	311	184	640	442	50
18	54	25	18	18	55	147	195	314	138	639	414	64
19	54	25	18	18	64	149	230	358	89	622	350	90
20	54	23	18	18	73	145	291	352	72	579	271	90
21	54	21	18	18	80	148	279	347	54	571	271	90
22	39	21	18	18	87	147	248	321	48	570	271	90
23	29	21	18	18	94	147	248	280	47	477	302	98
24	29	21	18	18	100	148	272	273	45	415	356	140
25	23	21	18	18	101	148	370	281	50	400	379	171
26	18	21	18	18	104	148	392	205	70	391	392	171
27	18	20	18	19	108	66	486	119	112	330	403	171
28	42	20	18	19	111	13	564	118	225	262	402	125
29	68	20	18	19	---	12	542	135	385	222	399	81
30	63	20	18	19	---	12	519	240	403	199	370	12
31	63	---	18	19	---	12	---	243	---	170	358	---
TOTAL	1322	971	585	563	1917	4765	5027	11618	7377	15485	10513	6772
MEAN	42.6	32.4	18.9	18.2	68.5	154	168	375	246	500	339	226
MAX	68	63	21	19	145	219	564	618	453	640	472	421
MIN	17	20	18	18	19	12	12	118	45	170	110	12
AC-FT	2620	1930	1160	1120	3800	9450	9970	23040	14630	30710	20850	13430
CAL YR 1981 TOTAL	75456.5			MEAN 207	MAX 791	MIN 5.5	AC-FT 149700					
WTR YR 1982 TOTAL	66915.0			MEAN 183	MAX 640	MIN 12	AC-FT 132700					

SEVIER LAKE BASIN

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 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	HARD- NESS (MG/L AS CACO3)
OCT									
01...	1300	20	490	8.2	25.0	16.0	9.2	606	200
NOV									
03...	1130	63	460	8.3	13.5	7.5	10.0	606	200
DEC									
01...	1100	19	465	8.7	3.5	4.0	11.4	607	220
JAN									
12...	1130	17	495	8.0	-2.0	2.5	10.6	602	210
FEB									
02...	1230	20	520	8.1	.5	4.5	11.1	602	220
MAR									
02...	1230	205	480	8.1	10.5	4.0	10.8	598	220
APR									
02...	1200	11	440	8.2	6.0	7.5	10.3	601	190
MAY									
03...	1100	568	440	8.4	19.0	10.5	10.0	603	210
JUN									
08...	1115	414	440	8.3	17.5	14.5	9.4	605	200
JUL									
08...	1130	610	435	8.2	28.0	16.5	8.8	606	200
AUG									
05...	1100	234	460	7.8	32.0	18.5	7.8	609	200
SEP									
08...	1130	385	470	8.3	25.0	19.0	7.3	608	200
DATE	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT									
01...	.00	43	22	33	26	1.1	4.7	210	38
NOV									
03...	.00	43	23	32	25	1.1	4.6	220	29
DEC									
01...	.00	49	23	29	22	.9	3.7	230	25
JAN									
12...	.00	49	22	28	22	.9	3.8	240	18
FEB									
02...	.00	49	23	29	22	.9	3.7	230	25
MAR									
02...	.00	48	24	29	22	.9	4.1	250	8.0
APR									
02...	4.0	43	21	25	22	.9	3.3	190	24
MAY									
03...	.00	45	23	25	20	.8	3.6	210	22
JUN									
08...	.00	44	21	24	21	.8	3.5	213	25
JUL									
08...	.00	44	21	23	20	.8	3.9	218	22
AUG									
05...	.00	44	21	24	21	.8	4.4	229	22
SEP									
08...	.00	44	23	27	22	.9	4.3	231	27

SEVIER LAKE BASIN

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10191500 SEVIER RIVER BELOW PIUTE DAM, NEAR MARYSVALE, UT--Continued

WATER-QUALITY, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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 CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 01...	15	.4	23	305	.41	16.6	--	<.10	.010
NOV 03...	13	.3	19	296	.40	50.6	--	<.09	.020
DEC 01...	16	.3	28	313	.43	16.1	--	.16	.010
JAN 12...	10	.3	26	302	.41	13.9	--	.21	.080
FEB 02...	16	.3	28	313	.43	16.9	49.0	.16	.010
MAR 02...	10	.3	27	302	.41	167	--	.21	.010
APR 02...	16	.2	23	270	.37	8.0	--	<.10	<.010
MAY 03...	10	.4	21	276	.38	423	--	<.10	.020
JUN 08...	10	.4	22	278	.38	311	--	<.10	.060
JUL 08...	9.8	.3	18	273	.37	450	--	<.10	.050
AUG 05...	10	.3	22	285	.39	180	--	<.10	.080
SEP 08...	10	.3	24	299	.41	311	--	<.10	.050

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT 01...	1300	90
NOV 03...	1130	70
DEC 01...	1100	60
JAN 12...	1130	60
FEB 02...	1230	60
MAR 02...	1230	60
APR 02...	1200	60
MAY 03...	1100	50
JUN 08...	1115	50
JUL 08...	1130	50
AUG 05...	1100	70
SEP 08...	1130	180

SEVIER LAKE BASIN

10194000 SEVIER RIVER ABOVE CLEAR CREEK, NEAR SEVIER, UTAH

LOCATION.--Lat 38°34'20", long 112°15'27", in NE¼NW¼NE¼ sec.5, T.26 S., R.4 W., Sevier County, Hydrologic Unit 16030003, on right bank 0.6 mi (1.0 km) upstream from bridge on U.S. Highway 89, 0.7 mi (1.1 km) upstream from Clear Creek, and 1.0 mi (1.6 km) south of Sevier.

DRAINAGE AREA.--2,707 mi² (7,010 km²).

PERIOD OF RECORD.--May 1911 to November 1916 (published as Sevier River at Sevier), April 1939 to September 1955, October 1960 to current year. Records for November 1916 to September 1929 (published as Sevier River at Sevier) include flow of Clear Creek and are not equivalent.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,560 ft (1,695 m) by barometer. Prior to May 16, 1912, non-recording gage, and May 16, 1912 to Sept. 30, 1929, water-stage recorder, at site 0.8 mi (1.3 km) downstream at different datums (datum lowered 1.0 ft (3.05 m) Mar. 31, 1913).

REMARKS.--Records good. Many diversions above station for irrigation. Flow regulated by Piute Reservoir.

AVERAGE DISCHARGE.--42 years (1912-16, 1939-55, 1960-82), 233 ft³/s (6.599 m³/s), 168,800 acre-ft/yr (208 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--(Not including flow of Clear Creek): Maximum discharge, 2,270 ft³/s (64.3 m³/s) May 16, 1941, gage height, 4.83 ft (1.472 m); minimum, 2.3 ft³/s (0.065 m³/s) Dec. 13, 1964. 1916-29 (including flow of Clear Creek): Maximum discharge, 2,800 ft³/s (79.3 m³/s) during last week of May 1922, computed on basis of records for station near Marysville; minimum, 9.8 ft³/s (0.28 m³/s) Mar. 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 659 ft³/s (18.7 m³/s) July 9, gage height, 2.83 ft (0.863 m); minimum daily, 23 ft³/s (0.651 m³/s) Jan. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	68	34	36	40	129	35	478	383	523	159	376
2	47	68	33	33	40	132	33	474	425	522	157	382
3	33	67	34	44	34	188	33	474	444	553	164	383
4	33	67	34	49	31	213	32	515	438	590	117	415
5	32	67	35	39	30	214	32	460	437	600	191	424
6	39	60	36	31	30	214	32	448	481	641	221	412
7	63	53	36	24	38	214	31	474	493	634	223	395
8	61	53	35	23	56	212	31	476	485	632	286	383
9	64	52	35	26	73	211	31	483	499	644	308	359
10	64	52	36	28	88	210	31	559	519	635	383	336
11	63	50	35	28	85	210	31	580	500	562	405	332
12	60	49	34	28	129	212	32	567	497	534	427	325
13	59	47	34	28	302	209	32	503	425	524	465	317
14	56	43	34	28	203	208	32	425	342	516	439	266
15	57	42	34	28	166	208	33	420	337	510	406	229
16	70	41	30	32	165	164	59	374	320	548	431	193
17	69	41	27	37	112	151	91	343	306	574	436	147
18	68	42	27	36	76	148	114	334	325	582	430	93
19	68	41	30	33	81	150	172	349	276	584	421	106
20	68	42	33	30	88	151	226	376	235	552	330	116
21	68	40	30	28	96	150	272	383	226	521	292	115
22	56	38	28	28	103	148	263	391	213	511	294	113
23	45	38	27	28	109	150	237	377	205	509	289	113
24	40	37	30	28	114	151	237	360	205	408	328	123
25	37	36	33	29	118	152	286	393	208	391	381	169
26	34	38	31	43	120	153	338	418	214	374	382	185
27	33	36	28	39	123	155	380	357	254	383	401	202
28	33	35	28	36	126	73	456	329	326	300	404	191
29	40	35	32	35	---	44	504	323	459	241	411	133
30	50	34	35	37	---	40	495	319	519	207	401	124
31	60	---	37	40	---	38	---	408	---	189	369	---
TOTAL	1631	1412	1005	1012	2776	5002	4611	13170	10996	15494	10351	7457
MEAN	52.6	47.1	32.4	32.6	99.1	161	154	425	367	500	334	249
MAX	70	68	37	49	302	214	504	580	519	644	465	424
MIN	32	34	27	23	30	38	31	319	205	189	117	93
AC-FT	3240	2800	1990	2010	5510	9920	9150	26120	21810	30730	20530	14790

CAL YR 1981 TOTAL 77034 MEAN 211 MAX 676 MIN 24 AC-FT 152800
WTR YR 1982 TOTAL 74917 MEAN 205 MAX 644 MIN 23 AC-FT 148600

SEVIER LAKE BASIN

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10194200 CLEAR CREEK ABOVE DIVERSIONS, NEAR SEVIER, UTAH

LOCATION.--Lat 38°34'45", long 112°17'22", in NW¼NW¼SW¼ sec.31, T.25 S., R.4 W., Sevier County, Hydrologic Unit 16030003, on left bank at south side of State Highway 13, 1.8 mi (2.9 km) west of Sevier, 2.3 mi (3.7 km) upstream from mouth, and 17.2 mi (27.7 km) southwest of Richfield.

DRAINAGE AREA.--164 mi² (425 km²).

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 hm³), at headwaters.

AVERAGE DISCHARGE.--25 years, 32.6 ft³/s (0.923 m³/s), 23,620 acre-ft/yr (29.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 769 ft³/s (21.8 m³/s) Apr. 29, 1973, gage height, 4.41 ft (1.344 m); minimum, 1.5 ft³/s (0.04 m³/s) Feb. 21, 1976, gage height, 0.85 ft (0.26 m); result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 162 ft³/s (4.59 m³/s) May 28, gage height, 2.15 ft (0.655 m); minimum, 3.7 ft³/s (0.105 m³/s) Nov. 26, Dec. 24.

NOTE.--No gage-height record Dec. 27 to Feb. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	15	6.7	10	8.4	18	27	85	111	61	22	16
2	11	15	8.4	8.4	9.6	19	24	105	111	57	24	15
3	11	15	9.3	6.0	9.9	19	26	128	104	52	26	15
4	13	15	9.3	7.0	9.2	17	26	140	98	48	23	14
5	17	15	14	12	7.0	16	24	141	100	48	20	15
6	15	16	14	10	5.4	13	23	124	95	46	19	15
7	14	16	15	6.0	7.0	15	21	107	85	40	18	16
8	16	16	13	5.0	8.0	17	18	102	84	45	19	15
9	15	15	13	5.4	11	15	16	105	84	52	18	20
10	15	15	13	5.8	15	15	17	104	85	48	17	17
11	26	15	13	6.0	16	16	22	94	85	45	16	20
12	21	15	13	6.4	12	23	54	82	85	42	16	18
13	17	15	13	7.0	18	20	54	69	85	40	18	25
14	17	15	13	5.4	18	20	55	61	84	40	24	22
15	17	15	13	5.4	19	23	57	60	80	37	17	20
16	16	15	13	5.6	20	22	55	60	91	35	17	18
17	16	14	6.7	6.0	18	20	52	64	102	34	20	18
18	15	15	7.4	6.4	21	20	52	77	106	33	20	18
19	15	13	16	8.0	19	18	53	94	100	31	19	18
20	15	14	14	8.5	18	18	51	94	97	30	16	17
21	15	15	15	7.8	20	17	46	98	98	29	16	17
22	14	15	13	8.2	19	15	42	104	94	28	16	16
23	14	14	5.7	7.0	20	17	40	107	89	29	16	15
24	14	13	5.4	5.6	18	17	39	119	83	30	17	15
25	14	12	11	6.4	17	18	42	128	81	28	25	15
26	14	6.0	9.3	8.0	18	20	48	134	80	27	19	22
27	15	8.4	10	8.0	17	21	54	143	80	32	20	51
28	13	11	8.4	9.2	18	23	64	155	78	32	20	37
29	15	14	9.2	9.0	---	26	81	147	73	28	19	31
30	16	7.4	12	8.0	---	23	80	130	69	26	18	30
31	16	---	11	7.2	---	24	---	116	---	24	16	---
TOTAL	472	414.8	347.8	224.7	416.5	585	1263	3277	2697	1177	591	601
MEAN	15.2	13.8	11.2	7.25	14.9	18.9	42.1	106	89.9	38.0	19.1	20.0
MAX	26	16	16	12	21	26	81	155	111	61	26	51
MIN	10	6.0	5.4	5.0	5.4	13	16	60	69	24	16	14
AC-FT	936	823	690	446	826	1160	2510	6500	5350	2330	1170	1190

CAL YR 1981 TOTAL 8789.7 MEAN 24.1 MAX 99 MIN 5.4 AC-FT 17430
WTR YR 1982 TOTAL 12066.8 MEAN 33.1 MAX 155 MIN 5.0 AC-FT 23930

NOTE.--No gage-height record Dec. 27 to Feb. 22.

SEVIER LAKE BASIN

10205000 SEVIER RIVER NEAR SIGURD, UTAH

LOCATION.--Lat 38°52'13", long 111°57'14", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ 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 mi² (8,741 km²).

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, non-recording 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.--68 years, 96.4 ft³/s (2.730 m³/s), 69,840 acre-ft/yr (86.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,400 ft³/s (68.0 m³/s) May 30, 1922, gage height, 6.1 ft (1.859 m), present datum, from rating curve extended above 600 ft³/s (17.0 m³/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, 379 ft³/s (10.7 m³/s) Mar. 27, gage height, 3.16 ft (0.963 m); minimum daily, 2.5 ft³/s (0.071 m³/s) June 12-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	124	99	151	141	231	98	6.0	50	32	9.0	5.1
2	51	118	99	150	144	234	99	6.4	11	6.6	36	6.1
3	43	118	115	132	145	238	102	6.6	3.0	3.9	52	4.9
4	44	117	114	129	152	254	112	6.9	3.1	3.1	60	7.4
5	55	116	113	138	138	284	126	8.1	3.3	2.9	64	9.3
6	56	116	116	140	111	301	130	16	2.8	3.0	57	14
7	47	121	117	130	120	272	135	31	2.7	2.8	61	17
8	43	113	120	117	129	271	138	40	2.7	3.3	40	14
9	43	110	119	115	134	286	133	38	2.7	3.5	21	16
10	44	110	119	122	141	296	130	48	2.7	3.0	11	19
11	43	108	118	125	147	302	129	73	2.6	2.8	4.3	31
12	42	106	116	124	141	308	124	142	2.5	2.8	3.3	39
13	67	109	109	123	139	312	118	238	2.5	2.7	3.2	45
14	110	102	111	126	173	315	117	223	2.5	2.7	3.1	53
15	115	98	113	123	212	318	116	137	2.5	2.7	3.1	59
16	152	94	113	123	254	320	116	69	20	2.7	3.2	79
17	205	93	112	125	282	319	111	72	29	2.9	3.3	122
18	180	92	109	129	282	311	92	56	15	2.8	23	134
19	156	92	109	132	249	304	33	35	22	3.3	41	128
20	136	90	122	134	223	297	24	21	81	3.2	55	127
21	120	92	125	134	215	293	13	16	133	6.3	70	124
22	113	99	125	135	217	288	11	7.6	113	7.9	78	120
23	110	99	121	133	221	222	6.7	12	77	6.2	60	118
24	110	97	110	129	224	152	4.2	15	28	6.3	51	112
25	108	94	110	133	226	78	4.8	22	36	7.0	49	111
26	107	95	125	139	228	141	5.0	33	48	7.3	47	104
27	107	96	126	149	228	294	4.9	63	62	4.6	45	96
28	131	97	130	155	230	343	5.0	81	81	3.0	43	96
29	160	101	118	153	---	322	5.0	82	96	3.2	48	98
30	133	105	134	149	---	242	5.1	80	90	3.1	46	100
31	128	---	151	137	---	115	---	83	---	3.4	15	---
TOTAL	3000	3122	3638	4134	5246	8263	2247.7	1767.6	1027.6	151.0	1105.5	2008.8
MEAN	96.8	104	117	133	187	267	74.9	57.0	34.3	4.87	35.7	67.0
MAX	205	124	151	155	282	343	138	238	133	32	78	134
MIN	41	90	99	115	111	78	4.2	6.0	2.5	2.7	3.1	4.9
AC-FT	5950	6190	7220	8200	10410	16390	4460	3510	2040	300	2190	3980

CAL YR 1981 TOTAL 32054.2 MEAN 87.8 MAX 362 MIN 2.8 AC-FT 63580
WTR YR 1982 TOTAL 35711.2 MEAN 97.8 MAX 343 MIN 2.5 AC-FT 70830

SEVIER LAKE BASIN

401

10205030 SALINA CREEK NEAR EMERY, UTAH

LOCATION.--Lat 38°54'43", long 111°31'47", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ 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 mi² (134 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 7,000 ft (2,134 m) from topographic map. Prior to June 9, 1971, at site 300 ft (91 m) downstream at different datum.

REMARKS.--Records good except those for the winter period, which are poor. No diversion above station. Slight regulation from small reservoirs at headwaters.

AVERAGE DISCHARGE.--19 years, 17.4 ft³/s (0.493 m³/s), 12,610 acre-ft/yr (15.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 519 ft³/s (14.7 m³/s) May 16, 1974, gage height, 5.07 ft (1.545 m); minimum discharge, 0.80 ft³/s (0.023 m³/s) Nov. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 60 ft³/s (1.70 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 4	1900	124	3.51	3.92	1.195
May 27	2100	*132	3.74	3.96	1.207

Minimum daily, 3.0 ft³/s (0.085 m³/s) Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	7.8	5.0	5.2	4.5	8.1	6.9	59	85	26	22	14
2	8.2	7.6	5.0	4.6	4.5	8.1	6.4	70	80	25	22	14
3	8.2	7.6	5.6	4.6	5.0	7.9	6.5	77	76	24	22	14
4	8.5	7.3	5.4	4.6	5.6	7.4	6.6	89	78	23	21	14
5	8.4	7.2	4.5	5.2	4.0	6.5	6.3	85	74	24	21	14
6	8.0	7.4	4.5	4.2	3.0	5.5	6.3	74	68	23	21	14
7	8.5	7.5	4.5	3.9	4.5	6.0	6.3	78	66	22	21	14
8	8.5	7.3	4.5	3.9	5.8	6.2	6.6	79	64	24	21	13
9	8.8	7.2	4.3	4.4	6.0	6.5	6.1	64	61	24	21	13
10	8.8	7.2	4.3	5.0	6.2	7.0	6.2	54	59	21	21	14
11	9.1	7.2	4.3	5.3	6.7	7.1	6.3	48	57	21	19	13
12	9.1	7.0	4.7	5.6	7.0	7.3	6.9	46	55	21	19	13
13	8.4	7.0	4.4	6.0	7.0	7.2	7.6	43	51	20	18	14
14	7.5	7.0	4.1	6.4	7.3	7.2	8.2	48	48	19	17	14
15	7.7	7.0	4.6	6.9	7.7	7.1	10	57	45	19	16	14
16	7.9	7.0	4.2	7.2	7.8	6.9	10	66	43	19	17	13
17	8.0	7.0	4.2	7.9	7.6	6.8	9.9	79	42	18	16	13
18	7.9	6.8	4.4	7.7	7.4	6.9	10	83	42	18	16	13
19	8.0	6.4	4.5	7.0	7.2	6.7	10	79	41	18	16	13
20	8.0	6.0	4.8	6.4	7.5	6.6	11	78	40	18	16	13
21	7.9	6.6	5.4	6.4	7.8	6.8	12	88	40	18	15	13
22	8.1	7.4	4.5	6.4	7.9	7.0	14	90	37	18	17	12
23	8.1	7.4	4.5	6.4	7.7	6.8	18	98	34	18	18	12
24	8.1	7.4	4.5	6.4	7.8	6.7	23	104	33	18	16	12
25	8.1	6.6	4.5	7.5	7.7	6.8	31	104	31	18	15	12
26	8.0	6.0	4.5	7.6	7.5	7.0	36	107	30	21	15	12
27	7.7	5.8	4.5	7.6	7.6	6.8	42	107	29	22	15	13
28	7.7	5.6	4.5	7.5	8.0	6.8	52	97	28	22	15	14
29	8.2	5.6	4.6	7.4	---	7.0	53	90	27	22	16	15
30	7.9	5.2	5.2	6.2	---	6.8	54	84	27	22	15	16
31	7.5	---	5.8	5.8	---	6.8	---	83	---	22	14	---
TOTAL	253.0	206.1	144.3	187.2	184.3	214.3	489.1	2408	1491	648	554	402
MEAN	8.16	6.87	4.65	6.04	6.58	6.91	16.3	77.7	49.7	20.9	17.9	13.4
MAX	9.1	7.8	5.8	7.9	8.0	8.1	54	107	85	26	22	16
MIN	7.5	5.2	4.1	3.9	3.0	5.5	6.1	43	27	18	14	12
AC-FT	502	409	286	371	366	425	970	4780	2960	1290	1100	797

CAL YR 1981 TOTAL 4772.3 MEAN 13.1 MAX 59 MIN 4.1 AC-FT 9470
WTR YR 1982 TOTAL 7181.3 MEAN 19.7 MAX 107 MIN 3.0 AC-FT 14240

SEVIER LAKE BASIN

10206000 SALINA CREEK AT SALINA, UTAH

LOCATION.--Lat 38°57'24", long 111°51'58", in SW 1/4 NW 1/4 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 mi² (756 km²).

PERIOD OF RECORD.--April to September 1914 (fragmentary), April 1915 to September 1916, October 1917 to September 1919, November 1942 to September 1955, water year 1960 (annual maximum), October 1960 to current year.

REVISED RECORDS.--WSP 1734: Drainage area. WSP 2127: 1953(M), 1960(M), 1965(M). WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,140 ft (1,567 m) estimated on basis of nearby benchmark. Prior to Mar. 23, 1915, nonrecording gage at site 150 ft (46 m) downstream at different datum. Mar. 23, 1915 to Oct. 16, 1917, nonrecording gage, and Oct. 17, 1917 to Sept. 30, 1919, water-stage recorder at site about 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records fair. Diversions above and below station for irrigation.

AVERAGE DISCHARGE.--37 years (water years 1916, 1918-19, 1944-55, 1961-82), 21.8 ft³/s (0.617 m³/s), 15,790 acre-ft/yr (19.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,800 ft³/s (51.0 m³/s) Aug. 26, 1970, gage height, 7.17 ft (2.185 m) from floodmark, from rating curve extended above 400 ft³/s (11.3 m³/s), on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 546 ft³/s (15.5 m³/s) May 24, gage height, 2.96 ft (0.902 m); minimum daily, 0.71 ft³/s (0.020 m³/s) Sept. 1, 4, 7, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.82	14	7.4	14	14	27	30	156	216	17	2.5	.71
2	1.2	16	7.4	12	14	27	25	161	196	13	3.9	1.3
3	1.4	15	9.0	12	16	33	24	192	159	11	3.5	2.3
4	1.8	14	12	13	15	25	26	228	147	9.6	3.9	.71
5	2.1	15	12	15	14	23	19	270	147	8.7	2.3	.82
6	1.8	15	12	12	13	23	17	245	121	13	2.0	1.1
7	1.0	22	12	9.6	13	21	17	220	109	6.7	1.6	.71
8	1.1	19	12	9.6	13	26	16	230	107	20	1.5	.82
9	1.8	18	14	10	15	22	15	170	91	27	2.0	1.2
10	1.7	17	16	10	20	24	13	170	82	9.8	3.1	1.4
11	9.3	15	13	11	19	24	20	132	78	6.3	1.6	2.1
12	17	13	11	11	17	30	40	114	74	8.7	4.8	2.7
13	13	12	12	14	17	22	66	87	68	6.2	7.1	3.7
14	11	11	12	12	21	26	65	78	64	3.7	6.0	4.6
15	12	11	14	11	25	26	67	122	59	1.8	4.5	1.2
16	15	11	11	12	25	25	62	134	55	1.5	9.9	1.1
17	15	11	8.5	13	25	22	39	206	51	1.8	23	1.9
18	14	14	9.7	14	25	24	51	252	47	1.8	20	1.8
19	14	11	17	15	27	20	46	252	44	1.1	17	1.7
20	14	8.7	19	16	29	23	29	171	41	1.7	3.0	1.0
21	14	11	20	17	31	19	29	216	38	1.1	1.8	.89
22	14	12	16	19	34	20	27	276	35	1.5	3.9	.79
23	14	12	7.6	13	32	20	27	244	33	3.7	19	.71
24	15	12	8.1	13	28	21	37	376	31	5.4	17	1.0
25	14	12	16	13	25	22	45	358	30	12	6.0	2.0
26	12	9.1	18	13	25	25	56	371	25	26	1.3	3.0
27	11	9.6	20	14	25	28	71	344	23	42	1.6	14
28	11	13	15	15	25	25	93	335	16	25	2.1	18
29	15	13	15	16	---	31	120	244	15	10	6.0	20
30	16	12	17	14	---	23	150	244	14	5.2	2.8	36
31	12	---	19	14	---	23	---	199	---	3.8	2.0	---
TOTAL	297.02	398.4	412.7	407.2	602	750	1342	6797	2216	306.1	186.7	129.26
MEAN	9.58	13.3	13.3	13.1	21.5	24.2	44.7	219	73.9	9.87	6.02	4.31
MAX	17	22	20	19	34	33	150	376	216	42	23	36
MIN	.82	8.7	7.4	9.6	13	19	13	78	14	1.1	1.3	.71
AC-FT	589	790	819	808	1190	1490	2660	13480	4400	607	370	256

CAL YR 1981 TOTAL 6158.91 MEAN 16.9 MAX 156 MIN .21 AC-FT 12220
WTR YR 1982 TOTAL 13844.38 MEAN 37.9 MAX 376 MIN .71 AC-FT 27460

NOTE.--No gage-height record Dec. 28 to Feb. 18.

SEVIER LAKE BASIN

403

10208500 OAK CREEK NEAR FAIRVIEW, UTAH

LOCATION.--Lat 39°40'26", long 111°24'30", in NW¼NE¼SW¼ sec.19, T.13 S., R.5 E., Sanpete County, Hydrologic Unit 16030004, on right bank 2.1 mi (3.4 km) upstream from mouth and 3.7 mi (6.0 km) northeast of Fairview.

DRAINAGE AREA.--11.8 mi² (30.6 km²).

PERIOD OF RECORD.--October 1964 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,550 ft (2,000 m) from topographic map.

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

AVERAGE DISCHARGE.--18 years, 11.1 ft³/s (0.314 m³/s), 8,040 acre-ft/yr (9.91 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 279 ft³/s (7.90 m³/s) May 26, 1982, gage height, 4.09 ft (1.247 m); minimum, 0.78 ft³/s (0.022 m³/s) Nov. 29, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 25 ft³/s (0.71 m³/s), and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 4	1800	122	3.46	3.65	1.112
May 26	1900	*279	7.90	4.09	1.247

Minimum daily, 1.6 ft³/s (0.045 m³/s) Dec. 31-Jan. 3, Feb. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	3.5	2.8	1.6	1.8	3.7	4.0	58	135	14	4.9	2.9
2	1.9	3.5	2.8	1.6	1.6	3.9	4.0	76	120	13	4.9	2.9
3	2.3	3.6	2.8	1.6	1.6	3.7	3.9	89	110	12	4.9	2.7
4	4.5	3.5	2.6	1.8	1.8	3.6	3.9	104	100	12	4.4	2.7
5	3.2	3.5	2.6	2.0	2.0	3.6	3.7	113	93	12	4.2	2.9
6	2.4	3.5	2.6	1.8	2.2	3.4	3.9	108	87	11	4.2	2.9
7	2.3	3.5	2.6	1.8	2.3	3.7	3.8	99	83	11	4.2	3.0
8	4.2	3.4	2.6	1.8	2.4	3.6	3.6	97	80	11	4.2	2.9
9	2.7	3.2	2.6	1.8	2.4	3.4	3.7	95	73	11	4.0	2.7
10	2.5	3.1	2.6	2.0	2.6	3.4	3.8	86	65	10	3.9	3.3
11	4.4	3.1	2.6	2.2	2.6	3.7	4.4	77	60	9.4	4.0	3.6
12	3.3	3.1	2.5	2.2	2.6	3.8	8.0	67	57	8.7	4.0	3.2
13	2.7	3.1	2.6	2.0	2.8	3.5	8.9	61	53	8.4	4.2	4.4
14	2.7	3.2	2.5	1.8	2.8	3.7	10	59	49	7.9	4.0	3.9
15	2.7	3.3	2.6	2.0	2.9	3.8	11	59	47	7.7	3.9	3.9
16	3.1	3.2	2.5	2.2	3.0	3.6	11	63	45	7.5	3.7	3.6
17	3.1	3.2	2.1	2.4	3.3	3.5	12	73	42	6.8	3.9	3.4
18	3.0	3.3	2.5	2.6	3.3	3.5	13	90	39	6.6	3.7	3.3
19	3.0	2.8	2.8	2.6	3.3	3.5	12	101	36	6.4	3.7	3.2
20	2.9	3.1	2.8	2.6	3.3	3.4	12	99	33	6.4	3.3	3.2
21	3.0	3.0	2.8	2.6	3.4	3.3	12	104	29	6.2	3.3	3.2
22	2.9	3.0	2.5	2.4	3.6	3.4	12	114	26	6.0	3.4	3.2
23	2.9	3.0	2.0	2.2	3.7	3.4	15	130	24	6.0	3.3	3.0
24	2.9	2.9	1.8	2.4	3.6	3.5	18	150	23	6.0	3.3	2.9
25	2.8	2.9	2.0	2.6	3.6	3.6	22	170	21	5.6	3.2	3.4
26	2.9	2.0	2.0	2.6	3.6	3.9	26	185	20	6.0	3.2	4.5
27	3.0	2.5	2.0	2.6	3.6	3.9	30	199	18	6.0	3.2	5.8
28	3.0	3.0	1.8	2.6	3.6	3.9	38	206	17	6.2	3.6	5.6
29	3.8	3.0	2.2	2.6	---	4.0	46	176	16	5.6	3.7	5.1
30	3.5	2.9	2.0	2.4	---	4.0	52	170	15	5.2	3.2	5.6
31	3.2	---	1.6	2.0	---	4.0	---	155	---	5.1	3.0	---
TOTAL	92.7	93.9	74.8	67.4	79.3	112.9	411.6	3433	1616	256.7	118.6	106.9
MEAN	2.99	3.13	2.41	2.17	2.83	3.64	13.7	111	53.9	8.28	3.83	3.56
MAX	4.5	3.6	2.8	2.6	3.7	4.0	52	206	135	14	4.9	5.8
MIN	1.9	2.0	1.6	1.6	1.6	3.3	3.6	58	15	5.1	3.0	2.7
AC-FT	184	186	148	134	157	224	816	6810	3210	509	235	212
CAL YR 1981	TOTAL	2900.7	MEAN	7.95	MAX	68	MIN	1.3	AC-FT	5750		
WTR YR 1982	TOTAL	6463.8	MEAN	17.7	MAX	206	MIN	1.6	AC-FT	12820		

SEVIER LAKE BASIN

10215700 OAK CREEK NEAR SPRING CITY, UTAH

LOCATION.--Lat 39°26'52", long 111°25'29", in SW¼SE¼SW¼, sec.1, T.16 S., R.4 E., Sanpete County, 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 mi² (21.6 km²).

PERIOD OF RECORD.--October 1964 to September 1974, June 1979 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,400 ft (2,260 m) from topographic map.

REMARKS.--Records good except those for winter period, which are fair. No diversion above station. Flow includes discharge of Spring City tunnel (transmountain diversion from Colorado River Basin).

AVERAGE DISCHARGE.--13 years, 10.4 ft³/s (0.295 m³/s), 7,530 acre-ft/yr (9.28 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 300 ft³/s (8.50 m³/s) July 23, 1965, gage height, 3.75 ft (1.143 m) from floodmark, from rating curve extended above 75 ft³/s (2.12 m³/s); minimum, 0.93 ft³/s (0.026 m³/s) Mar. 6, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 40 ft³/s (1.13 m³/s), and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
May 27	1800	72 2.04	2.44 0.744
June 17	1900	*97 2.75	2.59 .789

Minimum daily, 2.8 ft³/s (0.079 m³/s) Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	5.2	5.0	4.1	3.7	3.7	4.1	10	40	58	11	8.4
2	4.2	5.2	5.2	4.0	3.7	3.7	4.0	13	39	49	11	8.4
3	4.4	5.2	5.2	4.2	3.7	3.6	4.1	14	42	44	11	8.0
4	6.2	5.2	5.2	4.2	3.7	3.5	4.0	16	45	39	11	8.0
5	5.6	5.2	5.2	4.1	3.2	3.6	3.9	16	45	34	9.8	7.6
6	5.0	5.2	5.2	3.8	2.8	3.7	4.0	14	42	28	9.8	7.6
7	4.6	5.2	5.2	3.6	3.0	3.7	3.9	16	42	26	9.8	8.0
8	5.6	4.8	5.2	4.0	3.4	3.8	4.1	18	42	31	10	7.6
9	4.2	4.8	5.2	4.2	3.7	3.9	4.0	18	42	31	9.8	7.6
10	4.2	4.8	4.8	4.2	3.7	3.9	4.3	16	46	26	9.3	7.6
11	6.0	4.8	4.8	4.2	3.7	3.8	4.4	15	55	26	9.8	7.6
12	5.2	4.8	4.2	4.2	3.7	3.7	4.6	13	70	24	9.3	7.2
13	4.8	4.8	4.2	3.7	3.7	3.9	4.9	13	66	23	9.3	8.0
14	4.8	4.8	4.2	3.7	3.7	3.8	4.8	13	61	21	8.8	6.8
15	4.8	5.2	4.2	3.7	3.7	3.7	4.7	13	55	19	8.8	8.0
16	4.2	5.2	4.2	3.7	3.7	3.6	4.5	14	63	17	9.8	8.4
17	4.8	5.2	3.9	3.7	3.7	3.7	4.7	17	76	17	8.8	8.4
18	4.8	4.8	3.9	3.7	3.7	3.8	4.5	20	78	16	8.8	7.6
19	4.8	4.8	4.2	3.7	3.7	3.6	4.2	19	70	15	8.4	7.6
20	4.8	4.8	4.2	3.7	3.7	3.6	4.1	18	72	14	8.4	7.2
21	4.8	4.8	4.2	3.7	3.7	3.7	5.2	22	76	14	11	7.2
22	5.2	4.8	4.2	3.7	3.7	3.7	5.2	26	76	14	8.8	8.0
23	5.2	4.8	4.1	3.2	3.7	3.8	5.2	30	68	14	8.4	7.2
24	4.8	4.8	3.9	3.7	3.7	3.9	5.2	37	63	13	8.4	7.2
25	4.8	4.8	4.1	3.7	3.7	4.0	5.6	43	70	13	8.4	7.6
26	4.8	4.6	4.2	3.7	3.7	3.9	6.0	52	70	13	8.0	8.4
27	4.8	5.2	4.1	3.7	3.7	4.0	6.4	59	72	13	8.0	9.8
28	4.8	5.2	4.0	3.7	3.7	4.1	7.2	53	76	13	8.0	8.0
29	5.2	5.2	4.2	3.7	---	4.0	8.8	46	72	12	8.0	6.8
30	4.8	5.2	4.2	3.1	---	3.9	8.4	43	66	12	8.0	7.6
31	4.8	---	4.2	3.7	---	4.2	---	40	---	11	8.0	---
TOTAL	151.2	149.4	138.8	118.0	101.2	117.5	149.0	757	1800	700	285.7	233.4
MEAN	4.88	4.98	4.48	3.81	3.61	3.79	4.97	24.4	60.0	22.6	9.22	7.78
MAX	6.2	5.2	5.2	4.2	3.7	4.2	8.8	59	78	58	11	9.8
MIN	4.2	4.6	3.9	3.1	2.8	3.5	3.9	10	39	11	8.0	6.8
AC-FT	300	296	275	234	201	233	296	1500	3570	1390	567	463

CAL YR 1981 TOTAL 3023.2 MEAN 8.28 MAX 74 MIN 2.3 AC-FT 6000
WTR YR 1982 TOTAL 4701.2 MEAN 12.9 MAX 78 MIN 2.8 AC-FT 9320

10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UTAH

LOCATION.--Lat 39°15'33", long 111°34'45", in NE¼SE¼SE¼ sec.9, T.18 S., R.3 E., Sanpete County, Hydrologic Unit 16030004, on right bank 200 ft (61 m) downstream from a side road bridge 0.6 mi (1.0 km) upstream from upper powerplant, 2.3 mi (3.7 km) east of cattle guard at Manti-LaSal forest boundary, and 3.5 mi (5.6 km) east of Manti.

DRAINAGE AREA.--26.4 mi² (68.4 km²).

PERIOD OF RECORD.--October 1964 to September 1974; October 1978 to current year.

REVISED RECORDS.--WDR UT-81-1: 1979, 1980(M).

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.--14 years, 29.8 ft³/s (0.844 m³/s), 21,590 acre-ft/yr (26.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 682 ft³/s (19.3 m³/s) June 9, 1973, gage height, 2.93 ft (0.893 m), revised; minimum, 0.9 ft³/s (0.025 m³/s) Nov. 3, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 50 ft³/s (1.42 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 26	2100	*430	12.2	2.58	0.786
June 11	1800	390	11.0	2.51	.765
June 17	1900	407	11.5	2.54	.774

Minimum daily, 3.4 ft³/s (0.096 m³/s) Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	8.0	4.1	4.4	3.9	4.2	6.0	50	177	104	30	14
2	5.4	6.8	4.3	4.1	3.7	4.1	5.6	71	166	99	30	13
3	5.8	6.3	4.7	4.4	3.7	4.0	6.0	79	172	93	29	13
4	7.6	5.9	5.1	4.5	3.7	3.9	5.6	96	183	86	28	13
5	7.3	6.1	5.1	4.4	3.4	4.1	5.6	84	165	81	28	13
6	6.1	6.2	5.0	4.3	3.5	4.4	6.0	66	141	74	26	14
7	5.8	6.4	4.9	3.9	3.7	4.6	5.6	63	144	71	25	14
8	7.3	5.8	4.8	4.2	3.8	5.0	5.8	69	149	77	24	18
9	6.1	5.8	4.9	4.3	3.9	5.4	6.2	66	166	77	24	12
10	5.9	5.6	4.9	4.2	3.9	5.6	6.8	60	204	69	23	12
11	11	5.6	4.7	4.3	3.9	5.4	6.8	53	253	67	22	15
12	8.5	5.3	4.4	4.5	4.1	5.4	7.2	47	271	64	22	13
13	7.0	5.6	4.2	4.5	4.3	6.0	8.6	42	222	60	23	16
14	6.7	5.6	4.2	3.9	4.4	5.7	8.0	43	187	56	22	15
15	7.0	5.6	4.3	3.9	4.5	5.6	7.4	47	172	52	20	18
16	7.3	5.6	4.2	3.9	4.8	5.4	7.4	52	227	48	21	15
17	7.0	5.6	4.1	3.9	4.6	5.4	8.0	66	292	46	20	14
18	6.9	5.4	4.0	3.9	4.6	5.2	7.6	77	290	44	20	12
19	6.6	4.8	4.2	3.9	4.4	4.7	7.2	83	270	44	19	12
20	6.1	4.7	4.5	3.9	4.1	4.7	8.0	74	224	44	18	11
21	6.1	5.0	4.8	3.9	4.4	5.0	8.2	88	207	44	21	11
22	7.6	5.6	4.9	3.8	4.6	5.4	13	111	163	48	18	11
23	5.8	5.5	3.5	3.6	5.0	5.8	15	143	123	46	17	10
24	5.6	5.3	4.0	3.9	4.7	6.0	20	182	129	44	16	9.8
25	5.6	5.0	4.2	4.2	4.5	6.2	24	235	121	43	16	11
26	5.8	4.7	4.5	4.4	4.7	5.8	28	284	116	44	16	18
27	5.6	4.2	4.6	4.2	4.9	5.4	30	296	112	44	16	24
28	5.8	4.4	4.6	4.0	4.3	5.8	37	307	109	42	16	19
29	7.1	4.7	4.6	4.0	---	5.6	43	225	108	38	15	18
30	5.8	4.3	4.6	4.0	---	5.8	44	199	106	35	14	24
31	7.0	---	4.6	4.0	---	6.2	---	171	---	32	14	---
TOTAL	204.8	165.4	139.5	127.3	118.0	161.8	397.6	3529	5369	1816	653	427.8
MEAN	6.61	5.51	4.50	4.11	4.21	5.22	13.3	114	179	58.6	21.1	14.3
MAX	11	8.0	5.1	4.5	5.0	6.2	44	307	292	104	30	24
MIN	5.4	4.2	3.5	3.6	3.4	3.9	5.6	42	106	32	14	9.8
AC-FT	406	328	277	252	234	321	789	7000	10650	3600	1300	849
CAL YR 1981	TOTAL	8697.3	MEAN	23.8	MAX	231	MIN	2.4	AC-FT	17250		
WTR YR 1982	TOTAL	13109.2	MEAN	35.9	MAX	307	MIN	3.4	AC-FT	26000		

10216200 GUNNISON RESERVOIR NEAR STERLING, UTAH

LOCATION.--Lat 39°12'23", long 111°42'37", in SE¼NW¼NE¼ sec.32, T.18 S., R.2 E., Sanpete County, Hydrologic Unit 16030004, on right bank 250 ft (76 m) upstream from earthfill, rock-faced dam on San Pitch River, 1.2 mi (1.9 km) northwest of Sterling, 5.7 mi (9.2 km) southwest of Manti, and 6.8 mi (10.9 km) northeast of Gunnison.

DRAINAGE AREA.--672 mi² (1,740 km²).

PERIOD OF RECORD.--January 1965 to current year. No previous records collected at this site.

REVISED RECORDS.--WSP 2127: Drainage area. WDR UT-79-1, WDR UT-81-1: Change in contents.

GAGE.--Inclined staff gage. Datum of gage at top of dead storage is 5,366.2 ft (1,635.61 m) NGVD of 1929 (levels by the Soil Conservation Service and U.S. Geological Survey).

REMARKS.--The reservoir is formed by earthfill, rock-faced dam on the San Pitch River. Active capacity, 18,200 acre-ft (22.4 hm³) at elevation 5,389.6 ft (1,642.75 m). Dead storage 650 acre-ft (0.80 hm³) 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, 19,360 acre-ft (23.9 hm³) June 21, 1982, elevation, 5,390.5 ft (1,643.02 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, 19,360 acre-ft (23.9 hm³) June 21, elevation, 5,390.5 ft (1,643.02 m); minimum contents observed, 3,780 acre-ft (4.66 hm³) Oct. 1, elevation, 5374.7 ft (1,638.21 m).

Capacity table (elevation, in feet, and usable contents, in acre-feet)
(Based on field survey by Soil Conservation Service in 1965)

5,374	3,350	5,385	12,720
5,380	7,750	5,391	20,010

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3780	---	6650	---	13390	17310	---	---	---	---	---	---
2	---	4610	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	16450	---
4	---	---	---	10000	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	3900	---	---	---	---	---	---	---	---	---	15960	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	18460	---	---
10	---	---	---	---	---	---	---	---	---	---	---	10400
11	---	---	---	---	---	---	---	18580	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	18710	---	---	---	---
14	---	---	8020	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	5700	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	14540	---	---	---	---	---	---	9510
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	18970	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	19360	---	13620	---
22	---	---	9230	---	---	17820	---	---	---	18070	---	---
23	---	6160	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	12500	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	17190	---	---	---	---	---	---	---
28	---	---	---	---	a17250	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	8660
30	---	6650	---	---	---	---	a18780	---	a18910	---	---	a8660
31	a4560	---	a9760	a13260	---	a18190	---	a19010	---	a16860	12180	---
(+)	---	78.7	---	---	---	---	---	---	---	---	84.5	---
(±)	+790	+2090	+3110	+3500	+3990	+940	+590	+230	-100	-2050	-4680	-3520

CAL YR 1981 (±) -7680

WTR YR 1982 (±) +4890

(+) GAGE HEIGHT, IN FEET, AT END OF MONTH

(±) CHANGE IN CONTENTS, IN ACRE-FEET

(a) NO GAGE-HEIGHT RECORD, CONTENTS INTERPOLATED

SEVIER LAKE BASIN

407

10217000 SEVIER RIVER BELOW SAN PITCH RIVER, NEAR GUNNISON, UTAH

LOCATION.--Lat 39°09'19", long 111°52'37", in NE¼NE¼SE¼ sec.14, T.19 S., R.1 W., Sanpete County, Hydrologic Unit 16030003, on left bank 1,000 ft (305 m) downstream from San Pitch River and 3.2 mi (5.1 km) west of Gunnison.

DRAINAGE AREA.--4,921 mi² (12,745 km²).

PERIOD OF RECORD.--March 1912 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,025 ft (1,532 m) from topographic map. Prior to Oct. 28, 1938, at same site at datum 0.36 ft (0.110 m) higher.

REMARKS.--Records good. Flow regulated by reservoirs and many diversions for irrigation above station. Most of flow diverted above station during irrigation season.

AVERAGE DISCHARGE.--70 years, 225 ft³/s (6.37 m³/s), 163,000 acre-ft/yr (201 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,620 ft³/s (742 m³/s) June 1, 1922, gage height, 5.68 ft (1.731 m); minimum, 5.6 ft³/s (0.16 m³/s) July 17-21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 859 ft³/s (24.3 m³/s) Mar. 7, gage height, 5.15 ft (1.570 m); minimum, 80 ft³/s (2.27 m³/s) July 22, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	266	252	296	292	659	377	198	394	258	127	108
2	137	262	245	282	294	694	358	228	396	201	130	98
3	147	258	251	274	298	740	351	280	411	157	147	103
4	152	254	262	262	296	764	351	349	389	149	127	107
5	155	252	264	266	294	769	353	379	372	140	135	108
6	155	252	264	278	294	836	353	335	372	150	140	108
7	162	252	268	278	294	850	347	266	358	130	132	114
8	160	260	266	278	293	797	343	247	332	119	124	114
9	162	254	268	265	292	702	343	272	308	150	107	103
10	173	251	268	262	292	713	330	264	282	140	100	101
11	185	251	268	260	290	707	316	260	258	117	91	104
12	207	245	266	258	292	718	314	252	247	108	97	116
13	189	245	262	258	288	721	298	288	241	105	86	130
14	194	249	258	264	290	726	284	335	230	100	89	150
15	224	268	258	264	318	734	284	345	226	91	86	182
16	237	260	258	264	360	743	237	316	209	89	87	185
17	270	243	251	272	425	726	252	302	220	86	97	200
18	306	241	239	278	452	713	243	343	251	85	105	232
19	298	245	243	284	470	699	228	349	300	82	130	235
20	294	241	258	286	459	683	176	337	266	81	133	222
21	276	239	270	290	461	667	132	300	341	81	137	226
22	256	241	272	286	468	638	140	312	377	81	149	235
23	249	245	252	282	459	447	132	322	366	81	166	243
24	247	247	241	280	445	360	130	339	337	93	169	237
25	245	239	237	280	436	292	130	379	243	105	155	235
26	243	237	243	286	431	245	138	400	216	121	159	249
27	239	233	268	302	454	320	152	438	187	138	150	292
28	251	256	258	310	576	517	162	459	211	159	152	322
29	282	262	256	312	---	576	192	443	232	159	145	370
30	306	260	264	306	---	527	205	411	256	142	145	443
31	276	---	288	298	---	450	---	416	---	130	138	---
TOTAL	6809	7508	8018	8661	10313	19733	7651	10164	8828	3828	3935	5672
MEAN	220	250	259	279	368	637	255	328	294	123	127	189
MAX	306	268	288	312	576	850	377	459	411	258	169	443
MIN	132	233	237	258	288	245	130	198	187	81	86	98
AC-FT	13510	14890	15900	17180	20460	39140	15180	20160	17510	7590	7810	11250

CAL YR 1981 TOTAL 81166 MEAN 222 MAX 672 MIN 55 AC-FT 161000
WTR YR 1982 TOTAL 101120 MEAN 277 MAX 850 MIN 81 AC-FT 200600

SEVIER LAKE BASIN

10218500 SEVIER BRIDGE RESERVOIR NEAR JUAB, UTAH

LOCATION.--Lat 39°22'20", long 112°01'57", in NW¼NW¼ sec.1, T.17 S., R.2 W., Juab County, Hydrologic Unit 16030003, at Sevier Bridge Dam on Sevier River, 9.0 mi northeast of Scipio.

DRAINAGE AREA.--5,155 mi² (13,260 km²).

PERIOD OF RECORD.--January 1914 to current year.

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

GAGE.--Staff gage below gage height, 60 ft (18 m) and wire-weight gage above, at left end of dam, read once daily. Datum of gage is 4,937.51 ft (1,504.953 m) NGVD of 1929.

REMARKS.--Reservoir was formed by a 30-ft (9-m) earthfill dam. Storage began about 1904. Dam ultimately raised to 90 ft (27 m) by June 1916. Capacity, 236,000 acre-ft (291 hm³) 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 hm³) 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, 235,100 acre-ft (290 hm³) Apr. 1, gage height, 79.9 ft (24.35 m); minimum contents observed, 114,900 acre-ft (142 hm³) Oct. 1, gage height, 65.0 ft (19.81 m).

Capacity table (gage height in feet, and contents in acre-feet)

65	114,900	75	186,500
68	132,600	78	215,100
70	146,200	80	236,150
72	161,300		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114900	126900	143400	160600	178700	199500	235100	221300	196600	168600	139900	118800
2	115500	128800	143400	160600	179500	200400	234000	217200	194700	165400	139200	119300
3	114900	129400	143400	161300	180400	203300	234000	216100	193800	163700	139200	118800
4	115500	130100	144100	162900	181300	203300	231900	215100	193800	162100	139200	118800
5	116600	130100	144100	164600	181300	205200	234000	214100	192900	161300	140600	119300
6	117100	130700	144800	164600	182200	207100	232900	215100	192900	160600	139900	119900
7	117100	130700	144800	165400	182200	208100	232900	216100	193800	159800	139200	119300
8	116600	130700	146200	165400	183000	208100	234000	216100	192900	159000	139200	119300
9	116600	131900	147000	166200	183000	210100	232900	216100	192900	158200	138500	119300
10	117100	132600	147700	166200	183900	212100	234000	214100	191100	156700	137900	119300
11	117700	132600	147700	166200	184800	213100	234000	212100	190200	155900	137900	119300
12	117700	133200	147700	167000	184800	215100	234000	212100	189300	155100	137200	119300
13	118200	133900	149200	167800	185700	216100	234000	213100	189300	155100	135200	120400
14	118200	135200	149200	167800	186500	217200	232900	213100	189300	154400	132600	121000
15	118200	135900	150700	168600	187500	219200	232900	213100	187500	152900	131300	121600
16	118800	135900	150700	169400	187500	221300	232900	211100	185700	152900	130700	121600
17	120400	135900	150700	170200	188400	223400	232900	211100	185700	150700	128800	122200
18	121600	136500	151400	171100	189300	224400	231900	210100	184800	148400	126900	122200
19	121600	137200	152900	171900	191100	224400	231900	210100	183900	147000	125700	121600
20	121600	137200	152900	171900	191100	225400	231900	209100	183900	146200	125100	122200
21	121600	137200	152900	172700	192000	227600	231900	208100	183000	144800	124500	123400
22	122800	137900	152900	172700	193800	229700	230800	208100	181300	144100	123900	123400
23	123900	138500	153600	173600	194700	229700	230800	206200	180400	144100	122800	123900
24	123900	139900	155900	174400	195700	229700	229700	203300	178700	143400	121600	124500
25	124500	139900	155900	175300	197600	230800	227600	203300	176900	142700	121000	124500
26	124500	140600	156700	176100	197600	229700	227600	202300	176100	142000	121000	124500
27	124500	141300	157500	176100	198500	230800	225400	201400	175300	141300	120400	126300
28	124500	142000	158200	176900	199500	230800	224400	200400	175300	140600	119900	126900
29	125100	142000	159000	176900	---	230800	222300	198500	173600	140600	119300	127600
30	125100	142700	159000	177800	---	232900	222300	197600	171100	139900	119900	128800
31	126900	---	160600	178700	---	234000	---	196600	---	139900	119300	---
(+)	67.1	69.5	71.9	74.1	76.4	79.8	78.7	76.1	73.2	69.1	65.8	67.4
(±)	+12000	+15800	+17900	+18100	+20800	+34500	-11700	-25700	-25500	-31200	-20600	+9500

CAL YR 1981 (±) -53500

WTR YR 1982 (±) +13900

(+) GAGE HEIGHT, IN FEET, AT END OF MONTH

(±) CHANGE IN CONTENTS, IN ACRE-FEET

SEVIER LAKE BASIN

409

10219000 SEVIER RIVER NEAR JUAB, UTAH

LOCATION.--Lat 39°22'29", long 112°02'20", in SE¼SW¼SE¼ sec.35, T.16 S., R.2 W., Juab County, Hydrologic Unit 16030005, on right bank 0.5 mi (0.8 km) downstream from Sevier Bridge Dam and 11.6 mi (18.7 km) southwest of Juab.

DRAINAGE AREA.--5,165 mi² (13,377 km²).

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. Flow regulated by Sevier Bridge Reservoir (see station 10218500).

AVERAGE DISCHARGE.--71 years, 225 ft³/s (6.372 m³/s), 163,000 acre-ft/yr (201 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,140 ft³/s (60.6 m³/s) June 2, 1922, gage height, 8.50 ft (2.591 m); practically no flow at times when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 962 ft³/s (27.2 m³/s) July 1; minimum daily, 1.5 ft³/s (0.042 m³/s) Feb. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	3.1	2.0	4.1	2.5	4.9	240	797	661	962	232	57
2	3.7	2.6	2.0	3.9	2.5	4.9	342	796	660	961	126	57
3	3.9	2.6	2.0	3.3	2.3	4.9	341	732	659	959	50	57
4	4.4	2.6	2.0	3.3	2.0	4.9	333	587	657	959	14	57
5	3.6	2.6	2.0	3.3	1.7	6.0	335	587	659	822	154	59
6	3.3	2.6	2.0	2.8	1.5	6.8	329	588	656	749	220	59
7	3.3	2.6	2.0	2.6	1.6	8.0	282	514	585	748	217	59
8	4.1	2.6	2.0	2.6	1.7	8.7	244	469	548	748	358	59
9	3.1	2.6	2.6	2.6	1.7	9.2	241	532	545	542	429	59
10	3.1	2.6	3.2	2.6	1.7	8.9	236	579	545	433	424	60
11	3.7	2.6	3.3	2.7	1.8	9.4	226	439	544	434	419	53
12	3.3	2.6	3.3	2.7	1.7	10	222	355	540	435	686	7.9
13	3.4	2.6	3.3	2.8	1.8	10	224	356	540	437	820	7.9
14	3.7	2.4	3.3	2.7	2.1	11	223	354	602	437	814	7.1
15	3.4	2.0	3.3	2.6	2.3	11	217	554	646	438	811	7.1
16	3.3	2.0	3.3	2.6	3.1	11	216	683	642	563	808	6.3
17	3.3	2.1	3.3	2.8	3.1	12	220	683	642	651	616	7.1
18	3.3	2.7	3.3	2.9	3.1	15	219	682	641	650	514	6.3
19	3.3	2.0	3.3	3.0	3.1	15	247	681	641	650	515	6.3
20	3.3	2.0	3.4	3.0	3.2	16	338	680	637	650	514	6.3
21	3.3	2.0	4.1	3.0	4.3	14	328	680	639	449	512	6.3
22	3.1	2.0	4.0	2.6	4.1	151	339	721	639	345	512	6.3
23	2.6	2.0	4.0	2.6	4.0	248	427	778	712	347	383	19
24	2.6	2.0	4.0	2.6	4.0	261	592	841	827	346	318	67
25	2.6	2.0	4.0	2.6	4.0	205	682	880	866	346	318	67
26	2.6	2.0	4.0	2.6	4.0	167	683	879	866	348	318	67
27	2.4	2.0	4.0	2.7	4.7	160	681	876	865	347	500	24
28	2.6	2.0	4.0	2.8	4.7	156	711	880	864	347	537	7.9
29	3.5	2.0	4.0	2.9	---	156	802	879	915	348	299	7.9
30	3.3	2.0	4.0	2.5	---	155	798	880	960	348	200	7.1
31	3.3	---	4.0	2.5	---	155	---	753	---	350	104	---
TOTAL	102.1	69.5	99.0	88.3	78.3	2015.6	11318	20695	20403	17149	12742	977.8
MEAN	3.29	2.32	3.19	2.85	2.80	65.0	377	668	680	553	411	32.6
MAX	4.4	3.1	4.1	4.1	4.7	261	802	880	960	962	820	67
MIN	2.4	2.0	2.0	2.5	1.5	4.9	216	354	540	345	14	6.3
AC-FT	203	138	196	175	155	4000	22450	41050	40470	34020	25270	1940
CAL YR 1981 TOTAL	98199.3			MEAN 269	MAX 1160	MIN 2.0	AC-FT 194800					
WTR YR 1982 TOTAL	85737.6			MEAN 235	MAX 962	MIN 1.5	AC-FT 170100					

SEVIER LAKE BASIN

10219200 CHICKEN CREEK NEAR LEVAN, UTAH

LOCATION.--Lat 39°33'08", long 111°49'45", in NW¼NE¼SW¼ sec.33, T.14 S., R.1 E., Juab County, Hydrologic Unit 16030005, on right bank 370 ft (113 m) downstream from county road bridge, just upstream from diversion structure, 0.4 mi (0.6 km) upstream from mouth of canyon, and 1.9 mi (3.1 km) east of Levan.

DRAINAGE AREA.--27.9 mi² (72.3 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,500 ft (1,676 m) from topographic map. Prior to Jan. 18, 1978 at site 250 ft (76 m) upstream at different datum.

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

AVERAGE DISCHARGE.--20 years, 6.67 ft³/s (0.189 m³/s), 4,830 acre-ft/yr (5.96 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 390 ft³/s (11.0 m³/s) Sept. 8, 1981, gage height, 5.70 ft (1.737 m), from rating curve extended above 250 ft³/s (7.08 m³/s) on basis of velocity-area study; no flow Feb. 11, 14, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 15 ft³/s (0.425 m³/s), and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Oct. 11	0230	51	1.44	4.30	1.311
Apr. 12	2130	37	1.05	4.18	1.274
May 4	1830	*140	3.96	4.70	1.433
July 27	1630	31	.88	4.12	1.256

Minimum, 1.3 ft³/s (0.037 m³/s) Dec. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.3	1.9	1.8	4.2	7.0	8.8	63	23	11	5.8	3.3
2	2.0	2.3	1.9	1.8	4.2	7.0	8.2	70	22	10	5.8	3.3
3	2.0	2.3	1.9	1.8	4.2	7.0	8.6	72	21	9.7	6.1	3.3
4	5.9	2.2	1.9	1.8	4.2	7.0	8.6	82	20	9.1	5.4	3.2
5	4.0	2.2	1.9	1.8	4.2	7.0	8.6	74	20	9.1	5.2	3.3
6	2.7	2.1	1.9	1.8	4.2	7.2	8.4	61	20	9.1	4.9	3.3
7	2.7	2.0	1.9	1.8	4.2	7.4	7.7	56	20	9.1	4.8	3.3
8	6.3	2.0	1.9	1.8	4.2	7.4	8.3	60	20	8.9	4.7	3.3
9	3.2	2.0	1.9	1.8	4.2	7.4	8.3	54	19	9.0	4.9	3.3
10	2.8	2.0	1.9	1.8	4.2	7.4	8.3	53	19	8.0	5.6	3.3
11	10	2.0	1.9	1.8	4.2	7.4	9.2	45	18	7.9	5.2	3.3
12	3.5	2.0	1.9	1.8	4.2	7.4	21	34	17	7.5	5.3	3.3
13	3.0	2.0	1.9	2.0	4.2	7.4	29	30	17	7.4	5.0	3.5
14	2.7	2.0	1.9	2.3	4.2	7.4	31	29	17	7.2	5.1	4.2
15	2.5	2.0	1.8	2.6	4.2	7.4	30	30	17	6.8	4.8	3.7
16	3.2	1.9	1.8	3.0	5.2	7.4	27	29	16	6.6	6.6	3.7
17	3.0	1.9	1.5	3.4	6.0	7.4	27	28	16	6.1	5.5	3.7
18	2.7	2.4	1.6	3.7	7.0	7.0	28	28	16	6.2	5.4	3.5
19	2.7	2.1	1.9	4.0	7.0	6.4	29	29	16	5.8	5.1	3.3
20	2.4	2.0	1.9	4.2	7.0	6.0	25	31	15	5.8	5.1	3.2
21	2.3	2.0	1.9	4.2	7.0	5.8	23	30	15	5.7	5.1	3.0
22	2.3	2.0	1.8	4.2	7.0	5.8	24	30	14	5.4	5.1	3.0
23	2.2	2.0	1.8	4.2	7.0	5.8	26	28	13	5.4	5.1	3.0
24	2.2	2.0	1.8	4.2	7.0	5.8	29	27	13	5.8	5.1	3.0
25	2.2	2.0	1.8	4.2	7.0	5.8	37	26	13	7.1	4.2	3.3
26	2.2	2.0	1.8	4.2	7.0	6.3	45	25	12	8.0	3.7	4.9
27	2.2	2.0	1.8	4.2	7.0	6.7	53	24	11	11	3.5	6.7
28	2.0	2.0	1.8	4.2	7.0	8.1	61	24	11	7.7	3.5	9.7
29	3.7	2.0	1.8	4.2	---	9.7	58	23	11	6.9	3.5	8.1
30	3.2	1.9	1.8	4.2	---	8.6	58	23	10	6.5	3.5	8.6
31	2.4	---	1.8	4.2	---	8.1	---	23	---	6.0	3.5	---
TOTAL	96.2	61.6	57.0	93.0	151.2	219.5	754.0	1241	493	235.8	152.1	121.6
MEAN	3.10	2.05	1.84	3.00	5.40	7.08	25.1	40.0	16.4	7.61	4.91	4.05
MAX	10	2.4	1.9	4.2	7.0	9.7	61	82	23	11	6.6	9.7
MIN	2.0	1.9	1.5	1.8	4.2	5.8	7.7	23	10	5.4	3.5	3.0
AC-FT	191	122	113	184	300	435	1500	2460	978	468	302	241

CAL YR 1981 TOTAL 1281.1 MEAN 3.51 MAX 35 MIN 1.2 AC-FT 2540
WTR YR 1982 TOTAL 3676.0 MEAN 10.1 MAX 82 MIN 1.5 AC-FT 7290

LOCATION.--Lat 39°28'55", long 112°23'35", in NW¼NE¼SE¼ sec.27, T.15 S., R.5 W., Millard County, Hydrologic Unit 16030005, on right bank 1.6 mi (2.6 km) downstream from highway bridge and 3.5 mi (5.6 km) southwest of Lynndyl.

WATER-DISCHARGE RECORDS

REMARKS.--Records good except those of no gage-height record, Nov. 26 to Feb. 24, which are poor. Flow regulated by Sevier Bridge Reservoir about 35 mi (56 km) upstream (see station 10218500). Several diversions for irrigation between reservoir and station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,980 ft³/s (84.4 m³/s) Feb. 10, 1962, gage height, 11.73 ft (3.575 m); minimum discharge, 2.4 ft³/s (0.07 m³/s) Jan. 26, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 817 ft³/s (23.1 m³/s) May 2, gage height, 6.84 ft (2.085 m); minimum daily, 7.6 ft³/s (0.22 m³/s) several days in February.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	68	56	60	10	10	191	805	628	706	354	158
2	40	67	58	60	10	12	207	811	492	751	350	82
3	42	66	60	60	10	19	270	709	478	766	206	55
4	49	65	62	60	10	40	259	634	478	781	184	44
5	66	65	64	45	8.8	62	256	472	485	796	140	38
6	70	65	64	27	8.2	62	263	440	498	793	84	43
7	66	66	64	18	7.6	61	272	438	515	620	85	60
8	73	67	64	11	7.6	60	259	418	490	608	93	63
9	76	65	64	11	7.6	60	212	366	428	615	90	51
10	72	64	64	11	7.6	60	201	348	422	550	172	54
11	74	63	64	11	7.6	60	199	406	402	352	182	70
12	75	63	64	12	7.6	60	186	360	390	326	186	74
13	73	63	64	12	7.6	60	184	231	392	316	236	74
14	70	63	64	12	7.6	60	214	225	382	292	485	59
15	71	63	64	12	7.6	61	204	215	364	294	542	56
16	74	63	60	13	7.6	65	214	272	410	296	568	56
17	73	62	58	14	7.6	65	220	458	412	312	572	53
18	71	65	63	12	8.2	65	223	468	412	430	548	53
19	68	66	68	11	8.7	63	223	470	416	452	366	55
20	67	64	71	9.5	8.7	63	220	470	408	460	346	50
21	66	64	66	9.5	8.7	62	306	465	408	474	318	46
22	65	64	60	9.5	9.2	62	328	467	412	438	308	48
23	65	63	60	9.5	10	53	356	467	428	296	326	43
24	64	64	60	10	10	106	402	528	450	334	306	36
25	64	64	60	11	10	163	508	550	548	332	198	30
26	65	64	60	12	10	167	691	610	646	326	170	68
27	64	54	60	11	10	122	703	631	691	326	163	113
28	64	54	60	11	10	113	694	634	691	346	170	138
29	69	54	60	10	---	108	685	658	673	346	404	142
30	74	54	70	11	---	113	772	658	646	328	334	137
31	70	---	64	12	---	184	---	649	---	318	170	---
TOTAL	2039	1892	1940	598.0	244.1	2321	9922	15333	14495	14380	8656	2049
MEAN	65.8	63.1	62.6	19.3	8.72	74.9	331	495	483	464	279	68.3
MAX	76	68	71	60	10	184	772	811	691	796	572	158
MIN	39	54	56	9.5	7.6	10	184	215	364	292	84	30
AC-FT	4040	3750	3850	1190	484	4600	19680	30410	28750	28520	17170	4060
CAL YR 1981	TOTAL	84585.0	MEAN	232	MAX	960	MIN	18	AC-FT	167800		
WTR YR 1982	TOTAL	73869.1	MEAN	202	MAX	811	MIN	7.6	AC-FT	146500		

SEVIER LAKE BASIN

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

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

SPECIFIC CONDUCTANCE: March 1951 to September 1980, once daily, October 1980 to September 1981, continuous (discontinued).

WATER TEMPERATURES: March 1951 to September 1980, once daily, October 1980 to September 1981, continuous (discontinued).

SEDIMENT DATA: October 1976 to current year, periodically.

INSTRUMENTATION.--Conductance and water temperature recorder October 1980 to September 1981.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 8,300 micromhos Dec. 27, 1962; minimum daily, 395 micromhos Feb. 17, 1980.

WATER TEMPERATURES: Maximum recorded, 33.0°C Aug. 23, 1981; minimum, 0.0°C on many days during winter period of most years.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM OF HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT										
27...	1040	63	1920	8.2	17.0	9.5	19	9.2	631	40
JAN										
14...	1230	12	4320	7.8	1.0	.0	1.0	12.6	636	13
MAR										
17...	1200	68	1910	8.3	10.5	6.0	9.1	10.1	626	K50
MAY										
11...	0945	396	1990	8.5	11.0	10.0	44	9.0	630	270
JUL										
21...	0945	487	1950	8.2	35.5	21.0	60	6.8	634	540
SEP										
21...	1100	44	2720	8.3	25.0	18.5	24	8.4	635	75

DATE	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT									
27...	210	530	290	76	82	220	47	4.8	5.7
JAN									
14...	110	1000	600	140	160	630	57	8.6	9.6
MAR									
17...	120	530	270	75	83	220	47	4.8	5.2
MAY									
11...	2400	470	190	66	74	260	54	5.2	6.6
JUL									
21...	1700	440	170	56	72	240	54	5.8	6.5
SEP									
21...	460	680	450	90	110	350	53	5.9	7.5

DATE	ALKA- LINEITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT									
27...	240	290	340	.3	62	1230	1220	1.7	208
JAN									
14...	410	760	840	.5	13	2960	2800	4.0	98.3
MAR									
17...	260	300	330	.4	14	1230	1200	1.7	225
MAY									
11...	280	300	320	.3	17	1250	1210	1.7	1340
JUL									
21...	264	290	290	.4	16	1180	1130	1.6	1550
SEP									
21...	226	480	500	.3	14	1760	1690	2.4	209

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

10224000 SEVIER RIVER NEAR LYNN DYK, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

		NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	
OCT 27...		.29	.090	.12	.78	.030	.09	.050	.030	.09	
JAN 14...		.92	.200	.26	1.20	.010	.03	.010	<.010	--	
MAR 17...		.36	.100	.13	.41	.030	.09	.010	.010	.03	
MAY 11...		.45	.140	.18	.96	.100	.31	<.010	.020	.06	
JUL 21...		.35	.090	.12	2.40	.080	.25	.040	.020	.06	
SEP 21...		.16	<.060	.08	.90	.020	.06	<.010	<.010	--	
DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	
OCT 27...	1040	6	0	6	200	100	87	4	<1	10	
MAR 17...	1200	5	0	5	100	7	93	1	<1	10	
MAY 11...	0945	8	0	8	100	0	100	<1	<1	10	
SEP 21...	1100	6	0	6	100	0	100	<1	<1	<10	
DATE	TIME	CHRO- MIUM, SUS- PENDE RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 27...	10	0	<1	<3	6	5	1	620	--	<10	
MAR 17...	--	<10	<1	1	8	6	2	480	--	<3	
MAY 11...	--	<10	1	<1	7	5	2	1300	1300	50	
SEP 21...	--	<10	<1	1	2	1	1	460	440	20	
DATE	TIME	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE 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- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
OCT 27...	2	--	<1	30	30	1	.1	.1	.0	3	
MAR 17...	11	--	<1	50	30	17	<.1	--	<.1	3	
MAY 11...	5	3	2	70	60	10	.1	--	<.1	4	
SEP 21...	<1	--	<1	30	10	20	1.2	--	<.1	2	
DATE	TIME	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 27...	2	1	0	0	0	<1	<1	20	10	7	
MAR 17...	--	<1	<1	--	1	<1	<1	20	--	<4	
MAY 11...	2	2	1	0	1	2	<1	10	0	10	
SEP 21...	0	2	1	0	1	<1	<1	20	0	20	

SEVIER LAKE BASIN

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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)
OCT 27...	1100	--	0	--	.0	--	.0	--	.0	--	.0
MAR 17...	1200	<.10	--	<.01	--	<.10	--	<.01	--	<.01	--
MAY 11...	1230	--	<1	--	<.1	--	<1.0	--	<.1	--	<.1

DATE	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)
OCT 27...	--	.0	--	--	.0	--	--	.0	--	--
MAR 17...	<.01	--	.00	<.01	--	<.01	<.01	--	.00	<.01
MAY 11...	--	<.1	--	--	<.1	--	--	<.1	--	--

DATE	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (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)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)
OCT 27...	.0	--	.0	--	.0	--	--	--	--	--
MAR 17...	--	<.01	--	<.01	--	.00	<.01	.00	.00	.00
MAY 11...	<.1	--	<.1	--	<.1	--	--	--	--	--

DATE	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	MIREX, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)
OCT 27...	--	.0	--	--	--	--	--	--	--	--
MAR 17...	<1	--	.00	<.01	<.01	<.01	<.10	<.10	<.01	<.01
MAY 11...	--	<10	--	--	--	--	--	--	--	--

DATE	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PER- THANE IN BOTTOM MATERIAL (UG/KG)
OCT 27...	.0	.0	.0	.00
MAR 17...	--	--	--	--
MAY 11...	<.1	<1.0	<.1	<1.00

SEVIER LAKE BASIN

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10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued

WATER-QUALITY DATA, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT 27...	1040	63	9.5	136	44	23
JAN 14...	1230	12	.0	27	79	.90
MAR 17...	1200	68	6.0	37	96	6.8
JUL 21...	0945	487	21.0	388	82	510
SEP 21...	1100	44	18.5	127	--	15

SEVIER LAKE BASIN

10224100 OAK CREEK ABOVE LITTLE CREEK, NEAR OAK CITY, UTAH

LOCATION.--Lat 39°21'23", long 112°13'55", in NE¼NE¼NW¼ sec.7, T.17 S., R.3 W., Millard County, Hydrologic Unit 16030005, Fish Lake National Forest, on right bank 0.3 mi (0.5 km) upstream from a 12-inch (0.30-m) pipeline diversion at Walker's Fork and 5.7 mi (9.2 km) east of Oak City.

DRAINAGE AREA.--5.58 mi² (14.45 km²).

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 fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--18 years, 2.80 ft³/s (0.079 m³/s), 2,030 acre-ft/yr (2.50 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 120 ft³/s (3.40 m³/s) Apr. 29, 1973, gage height, 2.21 ft (0.674 m); minimum, 0.03 ft³/s (0.001 m³/s) Dec. 31, 1967, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 10 ft³/s (0.28 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Apr. 14	2000	17	0.48	1.41	0.430
May 3	1800	*24	.68	1.53	.466

Minimum daily, 0.28 ft³/s (0.008 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.28	1.5	1.1	1.1	1.2	1.7	4.6	17	5.7	1.2	.66	.45
2	.32	1.5	1.1	1.1	1.2	1.9	4.6	17	5.1	1.1	.79	.45
3	.32	1.5	1.1	1.1	1.2	2.3	4.6	20	5.0	1.1	.74	.45
4	.53	1.5	1.1	1.1	1.3	2.3	4.8	23	4.6	1.0	.70	.40
5	.45	1.5	1.1	1.1	1.2	2.3	4.6	22	4.3	1.1	.66	.40
6	.36	1.6	1.1	1.0	1.1	2.2	4.4	18	4.3	1.0	.66	.40
7	.36	1.6	1.1	1.0	1.1	2.2	4.4	16	4.1	1.0	.66	.40
8	.57	1.6	1.0	1.0	1.1	2.2	4.1	15	3.6	1.0	.66	.40
9	.40	1.6	1.0	1.0	1.1	2.2	4.0	14	3.5	1.0	.57	.40
10	.40	1.6	1.0	1.0	1.1	2.4	3.8	13	3.2	.88	.53	.53
11	.84	1.6	1.0	1.0	1.1	3.5	6.1	12	2.9	.82	.53	.53
12	.57	1.6	1.0	1.1	1.1	4.8	13	11	2.9	.79	.53	.45
13	.57	1.6	1.0	1.1	1.1	4.8	14	10	2.9	.74	.53	.66
14	.62	1.5	1.0	1.1	1.1	5.0	15	9.0	2.7	.70	.53	.53
15	.66	1.5	1.0	1.1	1.2	5.5	16	8.2	2.6	.70	.49	.49
16	.70	1.5	1.0	1.1	1.3	5.1	16	7.8	2.4	.70	.45	.45
17	.72	1.5	1.0	1.1	1.3	5.0	15	7.5	2.3	.62	.49	.49
18	.75	1.4	1.0	1.1	1.3	4.6	15	7.8	2.3	.62	.49	.49
19	.80	1.4	1.0	1.1	1.3	4.3	14	8.7	2.1	.57	.49	.49
20	.84	1.4	1.0	1.1	1.4	4.0	13	9.0	1.9	.53	.45	.49
21	.87	1.4	1.0	1.1	1.4	3.8	12	9.0	1.9	.53	.49	.45
22	.90	1.4	1.1	1.1	1.4	3.5	11	9.3	1.8	.53	.53	.45
23	.90	1.4	.98	1.1	1.5	3.3	11	9.3	1.7	.57	.49	.45
24	.96	1.3	.98	1.2	1.5	3.2	11	9.3	1.6	.57	.49	.49
25	.96	1.3	1.0	1.2	1.5	3.2	11	9.0	1.6	.74	.49	.53
26	.99	1.2	1.0	1.2	1.6	3.3	12	9.0	1.4	.84	.49	.79
27	.96	1.2	1.0	1.2	1.7	3.5	13	8.7	1.3	.90	.49	1.3
28	1.0	1.2	1.1	1.2	1.7	3.6	15	9.0	1.2	.90	.53	3.5
29	1.5	1.2	1.1	1.2	---	4.3	16	7.8	1.2	.84	.49	3.9
30	1.5	1.1	1.1	1.2	---	4.4	17	6.8	1.2	.79	.45	3.8
31	1.4	---	1.1	1.2	---	4.4	---	6.2	---	.70	.45	---
TOTAL	23.00	43.2	32.16	34.3	36.1	108.8	310.0	359.4	83.3	25.08	17.00	25.01
MEAN	.74	1.44	1.04	1.11	1.29	3.51	10.3	11.6	2.78	.81	.55	.83
MAX	1.5	1.6	1.1	1.2	1.7	5.5	17	23	5.7	1.2	.79	3.9
MIN	.28	1.1	.98	1.0	1.1	1.7	3.8	6.2	1.2	.53	.45	.40
AC-FT	46	86	64	68	72	216	615	713	165	50	34	50

CAL YR 1981 TOTAL 628.77 MEAN 1.72 MAX 15 MIN .19 AC-FT 1250
WTR YR 1982 TOTAL 1097.35 MEAN 3.01 MAX 23 MIN .28 AC-FT 2180

SEVIER LAKE BASIN

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10224300 OAK CREEK BELOW BIG SPRING, NEAR OAK CITY, UTAH

LOCATION.--Lat 39°21'11", Long 112°17'07", in NE¼NE¼SW¼, sec.10, T.17 S., R.4 W., Millard County, Hydrologic Unit 16030005, on right bank 0.5 mi (0.8 km) upstream from Fish Lake National Forest, 3.2 mi (5.15 km) east of Oak City along road to Forest Camp.

DRAINAGE AREA.--17.8 mi² (46.1 km²).

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

GAGE.--Water-stage recorder 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 ft³/s (2.86 m³/s) May 14, 1980, gage height, 1.43 ft (0.436 m); minimum daily, 1.7 ft³/s (0.048 m³/s) Oct. 1-3, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 20 ft³/s (0.566 m³/s), 50 ft³/s (1.42 m³/s) May 3, gage height, 1.13 ft (0.344 m); minimum daily, 1.7 ft³/s (0.048 m³/s) Oct. 1-3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	3.1	2.7	2.9	3.5	8.6	15	31	15	5.4	3.0	2.3
2	1.7	3.2	2.0	2.7	3.5	9.5	14	35	14	5.4	3.0	2.2
3	1.8	3.3	2.0	2.7	3.6	9.5	14	42	13	5.4	3.0	2.2
4	2.0	3.5	2.2	2.7	3.7	9.3	15	36	12	5.0	2.7	2.2
5	1.8	3.5	2.3	2.8	3.6	9.0	14	36	11	5.0	2.7	2.2
6	1.8	3.5	2.3	2.7	3.5	9.6	15	33	11	5.0	2.7	2.2
7	1.8	3.7	2.5	2.6	3.5	10	15	31	11	5.0	2.7	2.2
8	2.2	3.7	2.5	2.5	3.5	10	15	29	10	5.0	2.7	2.2
9	2.0	3.7	2.6	2.5	3.5	9.9	15	29	9.9	4.6	2.5	2.2
10	2.0	3.7	2.7	2.5	3.5	9.9	15	26	9.9	4.6	2.5	2.5
11	2.5	3.7	2.7	2.6	3.5	11	16	25	9.4	4.6	2.5	2.5
12	2.3	3.7	2.7	2.7	3.5	12	18	24	9.4	4.2	2.5	2.2
13	2.2	3.8	2.7	2.7	3.5	12	23	23	9.0	4.2	2.5	2.7
14	2.2	4.0	2.7	2.7	3.6	12	27	22	8.6	4.2	2.5	2.3
15	2.2	4.0	2.7	2.7	3.7	13	28	22	8.4	4.0	2.5	2.2
16	2.3	4.0	2.8	2.7	3.8	13	28	20	8.1	4.0	2.5	2.2
17	2.3	4.0	2.7	2.7	4.0	13	27	20	8.1	3.7	2.5	2.2
18	2.3	4.0	2.7	2.8	4.0	13	28	20	8.1	3.7	2.5	2.3
19	2.5	3.7	2.7	2.8	4.3	13	25	19	7.6	3.4	2.5	2.5
20	2.5	3.7	2.7	2.8	4.5	13	26	19	7.6	3.2	2.5	2.5
21	2.6	3.5	2.8	3.1	5.0	12	26	19	7.2	3.2	2.5	2.5
22	2.7	3.5	2.8	3.0	5.5	12	23	19	7.2	3.2	2.5	2.3
23	2.7	3.5	2.7	3.0	6.0	13	25	19	7.2	3.2	2.5	2.3
24	2.7	3.5	2.5	3.0	6.2	13	26	19	6.8	3.2	2.5	2.3
25	2.7	3.6	2.6	3.1	6.4	13	28	19	6.4	3.2	2.3	2.3
26	2.7	3.2	2.6	3.4	6.9	13	30	19	6.4	3.2	2.3	2.8
27	2.7	3.3	2.7	3.5	7.2	13	32	18	6.4	3.2	2.3	3.7
28	2.7	3.2	2.7	3.5	7.5	13	36	18	6.0	3.2	2.3	6.0
29	3.2	3.2	2.7	3.5	---	15	41	17	6.0	3.2	2.3	6.8
30	3.0	3.0	2.8	3.5	---	14	36	16	5.7	3.2	2.3	6.8
31	3.0	---	2.7	3.5	---	14	---	15	---	3.0	2.3	---
TOTAL	72.8	107.0	80.5	89.9	124.5	365.3	696	740	266.4	124.6	78.6	83.8
MEAN	2.35	3.57	2.60	2.90	4.45	11.8	23.2	23.9	8.88	4.02	2.54	2.79
MAX	3.2	4.0	2.8	3.5	7.5	15	41	42	15	5.4	3.0	6.8
MIN	1.7	3.0	2.0	2.5	3.5	8.6	14	15	5.7	3.0	2.3	2.2
AC-FT	144	212	160	178	247	725	1380	1470	528	247	156	166

CAL YR 1981 TOTAL 1624.8 MEAN 4.45 MAX 20 MIN 1.7 AC-FT 3220
WTR YR 1982 TOTAL 2829.4 MEAN 7.75 MAX 42 MIN 1.7 AC-FT 5610

BEAVER RIVER BASIN

10234500 BEAVER RIVER NEAR BEAVER, UTAH

LOCATION.--Lat 38°16'49", long 112°34'01", in SE¼SE¼SE¼ sec.18, T.29 S., R.6 W., Beaver County, Hydrologic Unit 16030007, on left bank 4.0 mi (6.4 km) east of Beaver.

DRAINAGE AREA.--91.0 mi² (236 km²).

PERIOD OF RECORD.--June to September 1906, March 1914 to current year.

REVISED RECORDS.--WDR UT-80-1: 1979.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft (1,981 m) from topographic map. Prior to Mar. 30, 1914, nonrecording gage and Mar. 30, 1914 to Oct. 15, 1937, water-stage recorder, at site 1,000 ft (305 m) downstream at different datum. Oct. 16, 1937 to Mar. 20, 1959, at same site at different datum. Mar. 21, 1959 to Mar. 21, 1978 at site 2,000 ft (610 m) upstream at different datum.

REMARKS.--Records good except those for winter period, which are poor. No diversion for irrigation above station. Water diverted for hydroelectric power, but returned to stream above station. Some regulation by powerplants and several small reservoirs.

AVERAGE DISCHARGE.--68 years, 51.2 ft³/s (1.450 m³/s), 37,090 acre-ft/yr (45.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,080 ft³/s (30.6 m³/s) July 22, 1936, gage height, 7.27 ft (2.216 m) site and datum then in use, from rating curve extended above 500 ft³/s (14.2 m³/s); minimum, 1.8 ft³/s (0.051 m³/s) Dec. 6, 1976, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 150 ft³/s (4.25 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 4	2015	260	7.36	2.67	0.814
May 25	2200	*472	13.4	3.19	.972

Minimum, 7.1 ft³/s (0.201 m³/s) Apr. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	27	18	17	19	20	22	149	244	109	71	33
2	23	28	18	15	18	21	21	168	214	102	78	32
3	23	27	20	13	18	20	20	204	197	99	73	32
4	24	26	23	15	15	17	21	223	198	97	66	31
5	24	26	23	14	12	17	20	198	190	102	64	31
6	20	28	22	12	13	15	20	187	180	97	62	33
7	24	26	22	10	13	17	20	186	205	91	61	39
8	24	25	21	12	15	18	19	193	204	98	54	33
9	22	23	22	12	16	19	19	184	206	101	53	33
10	22	24	22	13	17	20	20	164	204	88	51	33
11	25	24	22	15	17	20	21	146	187	83	48	33
12	26	24	22	14	17	20	27	135	183	84	50	32
13	25	24	21	14	19	20	35	129	181	93	58	34
14	22	24	21	14	20	21	43	131	174	92	54	36
15	23	24	22	14	20	21	50	135	164	90	46	38
16	25	24	20	15	20	20	53	135	159	85	46	39
17	24	24	19	17	19	19	52	145	164	86	47	35
18	25	24	17	18	19	19	60	164	171	87	45	33
19	26	17	19	20	19	19	63	174	161	88	44	33
20	24	23	20	20	19	22	53	189	171	84	41	31
21	25	23	19	19	19	20	49	224	166	81	50	31
22	26	24	18	19	20	22	40	248	157	82	55	29
23	24	25	18	17	20	20	41	264	149	85	54	29
24	24	24	19	20	19	20	46	305	141	88	52	26
25	22	23	21	20	20	20	60	356	138	83	55	28
26	23	23	21	20	20	20	75	358	136	79	51	37
27	23	22	19	20	20	21	96	323	137	79	50	55
28	24	20	18	20	20	21	118	316	134	80	46	47
29	26	18	18	20	---	20	136	279	126	76	44	44
30	25	17	18	19	---	19	132	256	119	74	39	44
31	25	---	18	19	---	21	---	246	---	72	35	---
TOTAL	738	711	621	507	503	609	1452	6514	5160	2735	1643	1044
MEAN	23.8	23.7	20.0	16.4	18.0	19.6	48.4	210	172	88.2	53.0	34.8
MAX	26	28	23	20	20	22	136	358	244	109	78	55
MIN	20	17	17	10	12	15	19	129	119	72	35	26
AC-FT	1460	1410	1230	1010	998	1210	2880	12920	10230	5420	3260	2070

CAL YR 1981	TOTAL	15534	MEAN 42.6	MAX 197	MIN 17	AC-FT 30810
WTR YR 1982	TOTAL	22237	MEAN 60.9	MAX 358	MIN 10	AC-FT 44110

BEAVER RIVER BASIN

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10237000 BEAVER RIVER AT ADAMSVILLE, UTAH

LOCATION.--Lat 38°15'13", long 112°45'56", in NE¼SW¼SW¼ sec.28, T.29 S., R.8 W., Beaver County, Hydrologic Unit 16030007, on right bank 80 ft (24 m) upstream from bridge on State Highway 21, 1.6 mi (2.6 km) upstream from Indian Creek, and 1.6 mi (2.6 km) east of Adamsville.

DRAINAGE AREA.--303 mi² (785 km²).

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 fair. One small diversion between station and Minersville Reservoir. Several ditches above station divert practically entire flow during irrigation season to supply Adamsville and Beaver districts.

AVERAGE DISCHARGE.--68 years (1914-82), 35.9 ft³/s (1.017 m³/s), 26,010 acre-ft/yr (32.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,090 ft³/s (30.9 m³/s) July 23, 1941, gage height, 4.68 ft (1.426 m), site and datum then in use, from rating curve extended above 500 ft³/s (14.2 m³/s); no flow during summer and fall months in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 206 ft³/s (5.83 m³/s) July 27, gage height, 5.38 ft (1.640 m); minimum, 2.7 ft³/s (0.076 m³/s) Oct. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	35	46	38	50	39	41	9.0	112	24	23	35
2	3.0	40	48	38	50	39	42	9.9	75	25	29	28
3	3.4	41	50	34	50	44	43	13	50	23	39	27
4	5.6	45	51	34	50	47	39	38	41	20	27	28
5	4.6	44	48	34	50	47	38	36	39	26	24	28
6	3.6	47	45	35	43	43	35	29	35	30	20	37
7	3.4	57	45	35	38	43	33	28	37	30	18	47
8	3.4	48	44	33	38	41	31	25	40	33	20	41
9	3.8	47	42	36	38	39	26	31	41	52	29	35
10	3.4	46	43	41	38	37	26	27	41	42	24	52
11	5.9	46	43	41	40	39	28	23	41	30	22	58
12	5.9	45	42	46	40	39	35	20	41	22	24	47
13	5.4	44	43	52	39	37	37	18	39	18	30	66
14	12	44	42	48	39	37	35	16	34	18	28	68
15	33	44	41	48	39	44	20	17	32	15	26	55
16	40	43	39	48	39	43	17	16	32	15	21	46
17	36	44	40	48	39	40	14	17	32	7.9	21	47
18	33	45	41	50	39	41	12	13	36	5.0	26	44
19	31	43	41	52	39	44	15	13	40	6.0	41	44
20	30	43	41	54	39	44	14	14	44	7.9	28	41
21	29	46	43	54	39	40	11	25	57	8.7	25	39
22	28	48	41	52	39	39	10	43	53	11	29	35
23	27	47	40	52	39	39	9.1	47	60	13	37	34
24	28	43	39	47	39	39	8.9	115	50	23	48	27
25	27	37	38	48	39	37	7.4	112	41	34	60	25
26	26	37	38	50	39	36	7.4	204	36	39	43	37
27	27	36	38	50	39	39	8.0	174	41	151	48	73
28	27	41	38	50	39	38	8.6	159	40	86	55	64
29	31	45	38	54	---	46	13	159	32	48	48	54
30	34	44	38	54	---	45	11	141	24	36	39	54
31	32	---	38	54	---	43	---	128	---	30	35	---
TOTAL	585.2	1315	1304	1410	1149	1268	675.4	1719.9	1316	929.5	987	1316
MEAN	18.9	43.8	42.1	45.5	41.0	40.9	22.5	55.5	43.9	30.0	31.8	43.9
MAX	40	57	51	54	50	47	43	204	112	151	60	73
MIN	2.8	35	38	33	38	36	7.4	9.0	24	5.0	18	25
AC-FT	1160	2610	2590	2800	2280	2520	1340	3410	2610	1840	1960	2610

CAL YR 1981 TOTAL 9398.8 MEAN 25.8 MAX 134 MIN 1.1 AC-FT 18640
WTR YR 1982 TOTAL 13975.0 MEAN 38.3 MAX 204 MIN 2.8 AC-FT 27720

BEAVER RIVER BASIN

10237000 BEAVER RIVER AT ADAMSVILLE, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

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

SEDIMENT DATA: October 1976 to current year, periodically.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to September 1981 (discontinued).

WATER TEMPERATURES: October 1975 to September 1981 (discontinued).

INSTRUMENTATION.--Specific-conductance recorder and temperature recorder since October 1975.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,130 micromhos Oct. 14, 1976; minimum, 258 micromhos Feb. 4, 1977.

WATER TEMPERATURE: Maximum, 31.5°C June 28, 1977, minimum, 0.0°C on many days during winter period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	BARO- METRIC PRES- SURE (MM HG)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT 28...	1100	27	450	8.2	17.5	9.0	6.0	11.7	609	50
JAN 15...	1240	48	365	7.8	6.0	.5	30	12.2	612	300
MAR 18...	1130	41	330	7.8	2.0	2.0	10	10.7	603	75
MAY 12...	1050	22	495	8.4	9.5	8.0	3.6	13.8	608	300
JUL 22...	1230	10	630	8.3	36.0	23.5	2.0	10.5	614	3400
SEP 20...	1200	40	450	8.4	23.5	15.5	2.7	10.9	611	--
DATE	TIME	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT 28...		240	180	.00	50	13	30	26	1.0	6.0
JAN 15...		370	130	1.0	38	8.7	18	22	.7	4.0
MAR 18...		820	140	.00	40	9.4	21	24	.8	3.9
MAY 12...		1300	210	.00	56	17	32	24	1.0	8.6
JUL 22...		3900	220	.00	62	17	48	31	1.5	8.1
SEP 20...		820	190	.00	51	14	28	24	1.0	6.2
DATE	TIME	ALKA- LITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT 28...	200	14	17	.8	35	296	286	.40	21.8	
JAN 15...	130	12	21	.3	35	210	215	.29	27.2	
MAR 18...	140	19	15	.5	35	237	228	.32	26.2	
MAY 12...	210	38	29	1.1	34	343	342	.47	20.6	
JUL 22...	290	35	27	1.1	42	413	415	.56	11.2	
SEP 20...	208	24	18	.7	37	400	304	.54	43.3	

10237000 BEAVER RIVER AT ADAMSVILLE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

		NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	
OCT 28...		<.09	.090	.12	.69	.050	.15	.060	.060	.18	
JAN 15...		.48	.260	.33	.77	.100	.31	<.010	.070	.21	
MAR 18...		.36	.130	.17	.54	.120	.37	.090	.070	.21	
MAY 12...		<.10	.230	.30	1.50	.170	.52	.100	.060	.18	
JUL 22...		<.10	.070	.09	.40	.100	.31	.100	.120	.37	
SEP 20...		.10	.060	.08	.90	1.00	3.1	.070	.070	.21	
			ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	
OCT 28...	1100		3	0	3	100	50	46	4	<1	<10
MAR 18...	1130		3	1	2	<100	--	100	<1	<1	<10
MAY 12...	1050		3	0	4	300	300	46	<1	<3	20
SEP 20...	1200		3	0	5	100	50	50	<1	<1	<10
		CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)
OCT 28...	0		1	<3	6	4	2	320	300	17	5
MAR 18...	<10		14	<1	18	16	2	1100	1100	16	11
MAY 12...	<10		<1	2	14	5	9	450	410	44	6
SEP 20...	10		<1	1	2	0	2	230	200	30	<1
		LEAD, SUS- PENDE 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- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)
OCT 28...	--		<1	110	20	91	.1	.1	.0	3	--
MAR 18...	--		<1	180	90	90	<.1	--	<.1	13	--
MAY 12...	3		3	170	30	140	.1	--	<.1	3	0
SEP 20...	--		<1	80	30	49	1.1	1.0	.1	<1	--
		NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	
OCT 28...	<1		0	0	0	<1	<1	20	20	5	
MAR 18...	<1		<1	--	<1	1	<1	30	--	<4	
MAY 12...	3		<1	--	<1	<1	<1	20	--	<12	
SEP 20...	3		<1	--	<1	1	<1	10	7	3	

BEAVER RIVER BASIN

10237000 BEAVER RIVER AT ADAMSVILLE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT						
28...	1100	27	9.0	54	62	4.0
JAN						
15...	1240	48	.5	237	79	31
MAR						
18...	1130	41	2.0	74	77	8.2
MAY						
12...	1050	22	8.0	47	43	2.8
JUL						
22...	1230	10	23.5	8	61	.22
SEP						
20...	1200	40	15.5	13	--	1.4

BEAVER RIVER BASIN

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10238500 MINERSVILLE RESERVOIR NEAR MINERSVILLE, UTAH

LOCATION.--Lat 38°13'03', long 112°50'05, in SE¼NE¼NW¼ sec.11, T.30 S., R.9 W., Beaver County, Hydrologic Unit 16030007, at right end of Rocky Ford Dam on Beaver River, 5.0 mi (8.0 km) east of Minersville.

DRAINAGE AREA.--534 mi² (1,383 km²).

PERIOD OF RECORD.--April to August 1915, November 1915 to September 1917, December 1917 to March 1921, June to September 1922, October 1937 to current year. Month-end contents only for some periods, published in WSP 1314. Published as Rockyford Reservoir near Minersville prior to October 1, 1967.

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

GAGE.--Staff gage. Datum of gage is at 5,452.0 ft (1,661.77 m) NGVD of 1929 (levels by topographic survey).

REMARKS.--Reservoir is formed by earthfill dam completed in 1914. Capacity, 23,260 acre-ft (28.7 hm³) 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 hm³). 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 hm³) 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, 20,180 acre-ft (24.9 hm³) Apr. 27, gage height, 49.6 ft (15.118 m); minimum observed, 9,420 acre-ft (11.6 hm³), gage height, 36.5 ft (11.125 m) Oct. 24.

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

36	9,080	50	20,560
40	11,790		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	15830	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	11450	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	12760	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	15020	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	17250	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	11660	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	11790	13980	---	17720	---	20080	---	---	---	---	---
24	9420	---	---	---	---	19330	---	16400	15590	---	---	---
25	---	---	---	15670	---	---	---	---	---	---	10440	---
26	9620	---	---	---	---	---	---	---	---	11320	---	---
27	---	---	---	---	---	19420	20180	---	---	---	---	---
28	---	---	---	---	a18000	---	---	---	---	---	---	10100
29	---	---	14220	---	---	---	---	---	---	---	---	---
30	---	a12310	---	---	---	---	a19760	---	a14790	---	10100	a10280
31	a10010	---	a14320	a15790	---	a19520	---	a16220	---	a11400	a10100	---
(±)	+1660	+2300	+2010	+1470	+2210	+1520	+240	-3540	-1430	-3390	-1300	+180

CAL YR 1981 (±) -6800
WTR YR 1982 (±) +1930

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

BEAVER RIVER BASIN

10239000 BEAVER RIVER AT ROCKY FORD DAM, NEAR MINERSVILLE, UTAH

LOCATION.--Lat 38°13'03", long 112°50'22", in SE¼NW¼NW¼ sec.11, T.30 S., R.9 W., Beaver County, Hydrologic Unit 16030007, on right bank and 0.5 mi (0.8 km) downstream from Rocky Ford Dam and 4.8 mi (7.7 km) east of Minersville.

DRAINAGE AREA.--535 mi² (1,386 km²).

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 fair. One small diversion between dam and station. Flow regulated by Minersville Reservoir (formerly published as Rockyford Reservoir). Numerous diversions for irrigation and municipal use above reservoir.

AVERAGE DISCHARGE.--67 years (1914-36, 1937-82), 37.3 ft³/s (1.056 m³/s), 27,020 acre-ft/yr (33.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 762 ft³/s (21.6 m³/s) June 11, 1980, gage height, 3.95 ft (1.204 m); minimum daily, 0.4 ft³/s (0.011 m³/s) Mar. 20, 1914.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 201 ft³/s (5.69 m³/s) Aug. 24, gage height, 2.56 ft (0.780 m); minimum daily, 5.9 ft³/s (0.167 m³/s) Nov. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	6.1	7.0	9.3	9.3	9.4	13	99	120	130	72	128
2	10	6.0	7.0	9.3	9.6	9.3	13	114	122	136	73	127
3	9.9	6.1	7.0	9.3	10	9.6	13	119	110	147	61	127
4	10	6.0	7.5	9.3	10	9.3	14	119	106	150	54	126
5	9.9	6.1	7.5	9.3	10	9.3	13	119	105	151	55	126
6	10	6.1	7.3	9.4	10	9.3	13	118	104	152	53	126
7	9.8	6.1	7.0	9.9	10	9.3	14	119	105	152	55	104
8	10	5.9	7.0	9.9	10	9.3	14	125	104	151	55	76
9	9.5	6.0	7.0	8.7	9.9	10	14	128	104	151	56	86
10	9.8	6.0	7.0	7.1	9.9	9.9	15	128	77	148	60	93
11	9.6	6.5	7.1	7.8	9.9	9.9	15	125	89	139	112	92
12	8.6	6.3	7.7	8.6	10	9.9	14	115	100	133	126	88
13	8.6	6.5	7.6	8.7	10	10	14	106	100	126	123	86
14	8.2	6.5	7.5	9.0	11	10	14	98	100	118	122	71
15	8.1	6.5	7.5	9.3	11	10	13	98	89	138	120	66
16	7.4	6.5	7.5	9.3	11	10	13	98	85	143	114	41
17	7.8	7.0	7.5	10	11	10	13	98	85	150	117	14
18	7.6	7.0	7.5	9.9	11	11	13	99	70	167	111	14
19	7.7	7.5	7.5	9.9	10	10	12	101	54	168	105	14
20	7.2	7.5	7.5	9.9	10	11	11	115	53	164	104	14
21	7.5	8.1	7.6	9.9	11	11	11	130	51	162	104	14
22	7.1	8.1	7.5	9.9	11	11	11	141	44	159	103	14
23	7.1	7.9	7.5	10	10	11	10	155	42	157	119	14
24	6.6	7.0	8.1	9.9	9.3	11	10	159	46	155	121	14
25	6.7	7.0	8.1	11	9.3	11	10	158	50	137	70	14
26	6.2	7.0	8.1	9.7	9.3	12	27	159	59	110	88	15
27	6.0	7.0	8.5	9.9	9.3	12	39	158	83	92	112	14
28	6.2	7.0	8.4	10	9.3	12	56	158	96	87	112	12
29	6.1	7.0	8.7	10	---	12	78	137	97	79	111	11
30	6.2	7.2	8.7	9.3	---	12	88	122	116	71	123	11
31	6.0	---	8.7	9.3	---	12	---	121	---	72	129	---
TOTAL	269.4	201.5	236.1	292.8	282.1	323.5	608	3839	2566	4195	2940	1752
MEAN	8.69	6.72	7.62	9.45	10.1	10.4	20.3	124	85.5	135	94.8	58.4
MAX	28	8.1	8.7	11	11	12	88	159	122	168	129	128
MIN	6.0	5.9	7.0	7.1	9.3	9.3	10	98	42	71	53	11
AC-FT	534	400	468	581	560	642	1210	7610	5090	8320	5830	3480

CAL YR 1981 TOTAL 15799.7 MEAN 43.3 MAX 142 MIN 1.7 AC-FT 31340
WTR YR 1982 TOTAL 17505.4 MEAN 48.0 MAX 168 MIN 5.9 AC-FT 34720

PAROWAN VALLEY

425

10241470 CENTER CREEK ABOVE PAROWAN CREEK, NEAR PAROWAN, UTAH

LOCATION.--Lat 37°47'35", long 112°48'55", in SW¼NE¼NE¼ sec.1, T.35 S., R.9 W., Iron County, Hydrologic Unit 16030006, on left bank about 900 ft (274 m) above mouth of Parowan Creek and 3.5 mi (5.6 km) south of Parowan.

DRAINAGE AREA.--11.6 mi² (30.0 km²), does not include 2.0 mi² (5.18 km²) that contributes runoff to Yankee Meadows Reservoir, located on Boworg Creek, which is a tributary to Center Creek, 0.5 mi (0.8 km) below station.

PERIOD OF RECORD.--October 1964 to current year.

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

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

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

AVERAGE DISCHARGE.--18 years, 6.22 ft³/s (0.176 m³/s), 4,510 acre-ft/yr (5.56 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 353 ft³/s (10.0 m³/s) Aug. 10, 1965, gage height, 4.96 ft (1.512 m) from floodmarks, from rating curve extended above 18 ft³/s (0.51 m³/s) on basis of slope-area measurements at gage height, 4.96 ft (1.512 m); minimum recorded, 1.4 ft³/s (0.040 m³/s) July 16, 1972 and Jan. 24, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16 ft³/s (0.45 m³/s) July 26, gage height, 1.01 ft (0.308 m), no peak above base of 30 ft³/s (0.85 m³/s); minimum daily, 1.5 ft³/s (0.042 m³/s) Jan. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	4.6	3.6	4.4	4.5	4.4	4.8	8.4	8.0	10	6.7	5.3
2	4.9	4.6	4.3	3.7	4.4	4.6	4.9	9.1	7.9	10	6.8	5.1
3	4.9	4.6	4.7	2.6	4.8	4.7	4.8	9.4	7.7	10	6.6	5.1
4	4.6	4.4	4.7	3.0	4.4	4.4	5.0	9.7	7.9	10	6.4	5.2
5	4.4	4.6	4.8	3.5	3.0	4.3	5.1	8.3	8.1	11	6.4	5.5
6	4.4	4.9	4.7	3.3	1.6	5.2	5.0	7.7	8.1	10	6.5	5.8
7	4.3	4.7	4.7	2.4	2.3	4.4	4.8	7.8	8.1	10	6.5	5.7
8	4.3	4.4	4.6	1.8	3.3	4.6	4.8	7.8	8.1	10	6.5	5.3
9	4.3	4.4	4.8	1.5	4.0	4.6	5.0	7.9	8.2	9.4	6.3	5.7
10	4.4	4.4	4.9	3.3	4.2	4.6	5.4	8.1	8.3	9.2	6.2	5.9
11	4.9	4.6	4.8	3.9	4.4	4.9	5.9	7.4	8.5	9.6	5.9	6.8
12	4.4	4.6	4.7	4.2	4.3	5.0	6.7	7.5	8.7	9.2	6.5	5.6
13	4.4	4.6	4.8	4.2	4.4	4.9	6.9	7.4	9.0	8.9	6.4	7.0
14	4.4	4.8	4.7	4.2	4.5	5.0	6.6	7.2	9.1	8.4	6.2	6.0
15	4.5	4.8	4.7	4.2	4.3	5.1	6.4	7.4	9.2	8.2	6.0	5.8
16	4.5	4.6	4.7	3.8	4.7	5.0	5.7	7.3	8.9	7.9	6.3	5.6
17	4.4	4.4	4.3	3.5	4.6	4.9	5.4	7.4	9.7	8.3	6.1	5.5
18	4.4	4.4	4.2	3.5	4.6	4.7	5.5	7.8	10	8.6	5.9	5.5
19	4.4	4.3	4.8	3.7	4.5	5.2	5.5	8.0	9.9	8.4	5.9	5.4
20	4.4	4.4	4.7	3.8	4.6	4.9	5.4	7.9	9.1	7.8	6.1	5.2
21	4.4	4.6	4.9	3.9	4.8	5.0	5.5	8.2	9.3	7.4	6.0	5.2
22	4.3	4.6	4.8	4.1	5.0	4.9	4.9	8.4	9.3	7.6	6.4	5.1
23	4.4	4.6	4.3	3.9	4.8	5.2	4.8	8.2	9.7	7.5	6.0	5.1
24	4.3	4.4	3.9	4.2	4.6	5.4	5.1	8.4	9.4	7.8	5.7	5.0
25	4.3	4.4	3.9	4.4	4.4	5.2	5.6	8.7	9.6	7.9	5.8	5.0
26	4.3	3.9	4.1	4.8	4.4	5.0	6.3	8.8	9.6	8.4	6.2	5.3
27	4.5	4.1	4.5	4.8	4.4	4.7	7.1	8.9	9.3	7.3	6.7	6.7
28	4.6	3.9	4.8	4.7	4.4	4.8	7.7	8.9	9.3	7.2	5.7	5.8
29	4.7	3.9	4.1	4.6	---	5.0	7.8	8.8	9.4	7.0	5.7	5.5
30	4.5	3.5	4.2	5.6	---	5.0	7.7	8.7	9.7	6.9	5.5	5.5
31	4.4	---	4.1	6.0	---	4.9	---	8.3	---	6.7	5.4	---
TOTAL	138.7	133.0	139.8	119.5	118.2	150.5	172.1	253.8	267.1	266.6	191.3	167.2
MEAN	4.47	4.43	4.51	3.85	4.22	4.85	5.74	8.19	8.90	8.60	6.17	5.57
MAX	4.9	4.9	4.9	6.0	5.0	5.4	7.8	9.7	10	11	6.8	7.0
MIN	4.3	3.5	3.6	1.5	1.6	4.3	4.8	7.2	7.7	6.7	5.4	5.0
AC-FT	275	264	277	237	234	299	341	503	530	529	379	332

CAL YR 1981 TOTAL 1898.4 MEAN 5.20 MAX 11 MIN 3.5 AC-FT 3770
WTR YR 1982 TOTAL 2117.8 MEAN 5.80 MAX 11 MIN 1.5 AC-FT 4200

10241600 SUMMIT CREEK NEAR SUMMIT, UTAH

LOCATION.--Lat 37°47'13", long 112°54'56", in NW¼NE¼SW¼ sec.6, T.35 S., R.9 W., Iron County, Hydrologic Unit 16030006, on left bank about 900 ft (274 m) upstream from concrete diversion dam, 1.2 mi (1.9 km) south of U.S. Highway 91, and 1.3 mi (2.1 km) southeast of Summit.

DRAINAGE AREA.--24.0 mi² (62.2 km²).

PERIOD OF RECORD.--October 1964 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,313 ft (1,924 m) (levels by U.S. Geological Survey). Prior to July 15, 1971, at site 600 ft (183 m) downstream at different datum.

REMARKS.--Records good except for periods of ice effect and no gage-height record, May 17 to June 20, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--18 years, 4.16 ft³/s (0.118 m³/s), 3,010 acre-ft/yr (3.71 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 858 ft³/s (24.3 m³/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 ft³/s (0.001 m³/s) Feb. 5-7, 1971.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 15 ft³/s (0.42 m³/s), and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
May 3	1830	*73	2.07	2.67	0.814
Aug. 23	2300	23	.65	2.45	.747
Aug. 26	1630	18	.51	2.43	.741

Minimum daily, 0.40 ft³/s (0.011 m³/s) Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.0	1.4	1.5	1.9	1.9	2.4	26	9.2	3.3	1.7	1.6
2	1.9	2.0	1.7	1.4	1.3	2.0	2.3	43	9.0	3.2	2.0	1.5
3	2.3	2.0	1.7	1.2	.90	1.9	2.5	49	8.8	3.0	2.1	1.4
4	2.1	2.0	1.8	1.4	.60	1.5	2.5	42	8.4	2.8	1.9	1.4
5	2.1	2.0	1.8	1.4	.40	1.4	2.5	24	8.2	2.8	1.7	1.6
6	2.1	2.0	1.8	1.0	.70	1.5	2.6	20	7.4	2.8	1.8	2.0
7	1.7	2.8	1.8	.50	1.0	1.7	2.4	23	6.7	2.8	1.8	3.0
8	1.9	2.2	1.8	.60	1.0	1.8	2.5	26	6.2	3.2	1.7	2.7
9	1.7	2.0	1.8	.75	.95	1.8	2.6	22	6.0	2.7	1.7	2.2
10	1.7	2.0	1.8	.95	.90	2.1	2.7	12	5.8	2.6	1.5	2.1
11	3.5	2.0	1.8	1.1	.95	2.1	3.3	11	5.6	2.4	1.5	3.5
12	2.4	2.0	1.8	1.0	1.0	2.1	4.0	11	5.3	2.2	2.3	2.2
13	2.1	2.0	1.8	.90	1.1	2.0	4.8	11	5.2	2.1	3.5	3.1
14	2.1	2.0	1.8	1.0	1.3	2.1	6.6	12	5.0	2.0	2.1	2.6
15	2.1	2.0	1.8	1.1	1.5	2.1	6.5	12	5.0	1.9	1.6	2.1
16	2.0	2.0	1.8	1.2	1.7	2.1	6.0	15	4.9	1.7	1.6	1.9
17	2.0	1.9	1.2	1.4	1.9	1.9	5.9	14	4.9	1.7	1.7	2.0
18	2.1	2.1	.90	1.5	2.1	1.7	7.1	13	5.2	1.7	1.7	1.8
19	2.1	1.3	1.9	1.5	1.8	1.2	6.4	13	5.3	1.8	1.7	1.7
20	2.1	1.5	1.9	1.5	2.1	1.3	5.1	14	5.4	1.8	1.9	1.7
21	2.1	1.9	1.9	1.4	2.1	1.7	5.1	15	5.5	1.5	2.5	1.7
22	2.0	1.9	1.8	.70	2.1	1.8	5.1	16	5.6	1.5	2.0	1.7
23	2.0	1.9	.60	1.1	2.1	1.8	5.0	15	5.3	1.7	2.6	1.7
24	2.1	1.9	.50	1.3	1.9	1.9	5.6	14	5.0	2.4	3.5	1.7
25	2.1	1.5	.66	1.9	2.0	2.2	7.9	13	4.6	2.4	2.2	1.7
26	2.0	1.7	1.4	1.9	2.0	2.2	7.7	12	4.2	2.3	4.2	2.1
27	1.9	1.8	2.1	1.9	1.9	2.1	12	12	4.1	2.5	2.7	4.4
28	1.9	1.8	2.1	1.9	1.9	2.1	17	11	3.8	2.6	2.1	2.9
29	2.2	1.8	1.7	1.7	---	2.3	18	11	3.4	2.2	1.8	2.6
30	1.5	1.8	1.7	1.4	---	2.1	20	10	3.5	2.0	1.7	2.9
31	1.7	---	1.7	1.5	---	2.5	---	9.6	---	1.7	1.7	---
TOTAL	63.2	57.8	50.26	39.60	41.10	58.9	184.1	551.6	172.5	71.3	64.5	65.5
MEAN	2.04	1.93	1.62	1.28	1.47	1.90	6.14	17.8	5.75	2.30	2.08	2.18
MAX	3.5	2.8	2.1	1.9	2.1	2.5	20	49	9.2	3.3	4.2	4.4
MIN	1.5	1.3	.50	.50	.40	1.2	2.3	9.6	3.4	1.5	1.5	1.4
AC-FT	125	115	100	79	82	117	365	1090	342	141	128	130

CAL YR 1981 TOTAL 1337.62 MEAN 3.66 MAX 20 MIN .12 AC-FT 2650
WTR YR 1982 TOTAL 1420.36 MEAN 3.89 MAX 49 MIN .40 AC-FT 2820

10242000 COAL CREEK NEAR CEDAR CITY, UTAH

LOCATION.--Lat 37°40'20", long 113°02'02", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.13, T.36 S., R.11 W., Iron County, Hydrologic Unit Unit 16030006, on right bank 600 ft (183 m) downstream from powerplant, 1.2 mi (1.9 km) east of Cedar City, and 3.0 mi (4.8 km) from the mouth of Right Hand Creek.

DRAINAGE AREA.--80.9 mi² (209.5 km²).

PERIOD OF RECORD.--May to September 1915 (gage heights and discharge measurements only), October 1915 to July 1916, September 1916 to July 1918, September 1918 to November 1919, May 1935 to September 1937, April 1938 to current year. Records prior to November 1919 exclude flow of power canal; records would be equivalent if flow in canal were added.

REVISED RECORD.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,000 ft (1,829 m) from topographic map. Prior to Mar. 30, 1939, nonrecording gages and Mar. 30, 1939 to May 14, 1945, water-stage recorder at several sites about 0.5 mi (0.8 km) upstream at various datums. May 15, 1945 to Oct. 10, 1951, May 4 to July 2, 1952, water-stage recorder at site 2 mi (3 km) upstream at different datum. July 3, 1952 to Nov. 17, 1967, water-stage recorder at site 600 ft (183 m) upstream at different datum.

REMARKS.--Records good. No diversion above station for irrigation. Diversion above station for municipal supply at Cedar City. Slight regulation at low flow by steam powerplant above station.

AVERAGE DISCHARGE.--46 years (1935-37, 1938-82), 32.4 ft³/s (0.918 m³/s), 23,470 acre-ft/yr (28.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,620 ft³/s (131 m³/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 ft³/s (0.008 m³/s) Nov. 5, 14, 17, 26, 1959, Feb. 17, 1960, Feb. 24, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 550 ft³/s (15.6 m³/s), 651 ft³/s (18.4 m³/s) May 3, gage height, 5.39 ft (1.643 m); minimum, 5.3 ft³/s (0.15 m³/s).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	16	13	11	12	19	19	251	122	29	17	13
2	16	15	11	11	11	17	19	323	113	27	18	13
3	24	14	9.9	10	12	16	20	398	106	25	17	13
4	15	14	11	12	11	13	22	378	100	25	16	12
5	14	13	11	12	6.0	13	21	245	90	24	16	14
6	12	15	11	12	7.6	11	18	200	80	23	15	17
7	12	16	11	7.0	9.8	14	17	218	76	22	16	18
8	12	15	10	8.0	10	15	17	252	73	25	15	18
9	12	14	11	10	9.3	15	20	222	70	23	14	16
10	12	14	11	10	12	18	26	164	67	21	14	20
11	45	14	11	10	11	16	35	125	64	21	14	28
12	27	14	11	11	12	19	50	109	60	20	30	16
13	20	14	11	11	12	21	73	120	58	19	42	26
14	17	13	11	12	14	25	77	148	57	18	18	19
15	17	13	11	12	14	21	70	158	53	18	16	15
16	17	13	9.8	12	16	17	65	187	50	17	15	13
17	18	13	8.5	13	14	15	72	235	53	17	20	13
18	22	13	12	13	13	12	81	229	56	17	19	12
19	19	12	13	12	14	14	78	204	58	17	16	12
20	18	12	11	12	18	16	59	203	60	17	16	12
21	16	12	11	10	25	15	54	209	56	16	34	11
22	15	13	9.3	12	29	16	50	220	49	24	23	10
23	15	13	9.5	14	27	18	54	239	46	21	55	10
24	14	12	11	13	18	21	73	217	43	20	50	10
25	14	12	15	14	18	23	91	203	41	23	30	11
26	13	10	12	14	21	19	114	204	38	22	32	16
27	13	11	12	12	20	19	126	191	37	30	28	57
28	14	13	12	12	19	20	171	179	35	23	25	33
29	17	13	11	11	---	19	207	154	32	20	19	24
30	15	11	12	13	---	18	207	141	31	18	17	24
31	13	---	11	13	---	20	---	130	---	17	15	---
TOTAL	517.3	397	345.0	359.0	415.7	535	2006	6456	1874	659	692	526
MEAN	16.7	13.2	11.1	11.6	14.8	17.3	66.9	208	62.5	21.3	22.3	17.5
MAX	45	16	15	14	29	25	207	398	122	30	55	57
MIN	9.3	10	8.5	7.0	6.0	11	17	109	31	16	14	10
AC-FT	1030	787	684	712	825	1060	3980	12810	3720	1310	1370	1040

CAL YR 1981 TOTAL 11476.7 MEAN 31.4 MAX 220 MIN 8.5 AC-FT 22760
WTR YR 1982 TOTAL 14782.0 MEAN 40.5 MAX 398 MIN 6.0 AC-FT 29320

SNAKE RIVER BASIN

RAFT RIVER BASIN

13077700 GEORGE CREEK NEAR YOST, UTAH

LOCATION.--Lat 41°55'07", long 113°28'51", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ 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 mi² (20.31 km²).

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.--23 years, 7.70 ft³/s (0.218 m³/s), 5,580 acre-ft/yr (6.88 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 146 ft³/s (4.13 m³/s) June 10, 1963, gage height, 1.96 ft (0.597 m); minimum, 1.0 ft³/s (0.03 m³/s) July 14-19, 1976, Feb. 5, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 94 ft³/s (2.66 m³/s) May 26, gage height, 1.50 ft (0.457 m); minimum daily, 1.0 ft³/s (0.028 m³/s) Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	2.5	1.8	1.8	1.5	2.0	2.1	14	23	34	6.3	3.5
2	2.1	2.5	1.8	1.4	1.5	2.0	2.0	25	23	26	6.2	3.4
3	2.6	2.4	1.8	1.6	1.4	2.0	1.8	36	24	24	6.1	3.3
4	2.4	2.4	1.8	1.7	1.1	2.0	1.8	34	25	22	5.8	3.2
5	2.4	2.4	1.8	1.8	1.0	1.9	1.8	24	26	20	5.5	3.3
6	2.2	2.4	1.9	1.2	1.3	1.6	1.6	20	26	17	5.4	3.2
7	2.8	2.4	1.8	1.1	1.4	1.6	1.6	20	24	16	5.2	3.3
8	3.1	2.4	1.8	1.5	1.5	1.6	1.6	20	22	17	5.1	3.2
9	2.7	2.2	1.8	1.5	1.4	1.6	1.6	20	23	16	5.1	3.1
10	3.1	2.3	1.8	1.5	1.4	1.6	1.6	17	25	15	4.8	3.2
11	3.4	2.3	1.7	1.5	1.4	1.8	3.5	15	30	15	4.7	3.2
12	3.3	2.2	1.6	1.5	1.4	1.6	4.1	14	40	15	4.6	3.6
13	2.9	2.5	1.6	1.4	1.4	1.7	3.8	14	55	15	4.5	3.5
14	2.8	2.6	1.6	1.4	1.7	1.8	4.4	14	62	14	4.6	3.8
15	2.8	2.4	1.8	1.4	2.0	1.8	4.2	16	64	13	4.6	4.9
16	2.8	2.4	1.7	1.5	2.3	1.8	3.8	21	66	12	4.1	5.5
17	2.8	2.2	1.6	1.5	2.8	1.8	3.7	26	68	11	4.1	4.6
18	2.8	2.1	1.7	1.5	2.4	2.1	3.6	39	64	12	4.0	4.1
19	2.8	1.8	2.4	1.4	2.1	1.8	3.6	37	62	11	4.0	3.8
20	2.6	2.0	2.8	1.4	2.4	1.6	3.4	36	57	10	4.0	3.8
21	2.6	2.1	2.4	1.5	2.6	1.6	3.1	39	55	10	3.9	3.5
22	2.4	2.5	1.8	1.4	2.6	1.6	3.4	44	57	9.5	3.8	3.3
23	2.6	2.4	1.6	1.4	1.8	1.6	3.8	46	58	9.7	3.6	3.1
24	2.6	2.6	1.4	1.4	1.6	1.7	5.8	55	55	9.2	3.6	3.1
25	2.5	1.8	1.9	1.4	1.6	2.1	8.4	55	57	8.8	3.6	3.8
26	2.5	1.4	1.8	1.6	1.8	2.2	9.7	73	53	8.4	3.6	7.6
27	2.6	2.1	1.7	1.8	1.9	2.2	10	79	50	8.0	3.5	4.9
28	2.5	2.1	1.6	1.7	2.0	2.4	12	62	48	12	4.4	4.4
29	2.6	1.8	1.8	1.7	---	2.3	14	44	45	8.0	4.1	4.4
30	2.4	1.8	2.2	1.6	---	2.1	12	30	40	7.2	4.4	4.6
31	2.4	---	1.7	1.6	---	2.1	---	25	---	6.6	3.8	---
TOTAL	82.2	67.0	56.5	46.7	49.3	57.6	137.8	1014	1327	432.4	141.0	116.2
MEAN	2.65	2.23	1.82	1.51	1.76	1.86	4.59	32.7	44.2	13.9	4.55	3.87
MAX	3.4	2.6	2.8	1.8	2.8	2.4	14	79	68	34	6.3	7.6
MIN	2.1	1.4	1.4	1.1	1.0	1.6	1.6	14	22	6.6	3.5	3.1
AC-FT	163	133	112	93	98	114	273	2010	2630	858	280	230
CAL YR 1981	TOTAL	2229.1	MEAN	6.11	MAX	46	MIN	1.4	AC-FT	4420		
WTR YR 1982	TOTAL	3527.7	MEAN	9.66	MAX	79	MIN	1.0	AC-FT	7000		

DISCHARGE AT PARTIAL-RECORD STATIONS

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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 or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites now included in the partial-record program. These measurements generally are made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations generally are presented in two tables. However, no records at low-flow partial-record stations are available for the 1982 water year.

Annual maximum discharge at partial-record stations

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Date	Annual maximum	
						Gage height (feet)	Discharge (cfs)
Tributary between Weber and Jordan Basins							
10142000	Farmington Creek near Farmington,	Lat 41°00'05", long 111°52'21", in NE¼NE¼NE¼ sec.18, T.3 N, R.1 E., Davis County, Hydro- logic Unit 16020102, on right bank 1.0 mi (1.6 km) north- east of Farmington.	10.0	1949- 1982	5-2-82	1.59	214

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1982

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
GREEN RIVER BASIN						
Mud Creek	Price River	Lat 39°35'05", long 111°09'05", Carbon County below Long Canyon south of Clear Creek.		1980-81	9-24-82	0.42
Mud Creek	Price River	Lat 39°38'57", long 111°09'07", Carbon County above Boarding House Canyon on Utah Highway 96 north of Clear Creek.		1980-81	9-24-82	1.03
Boarding House Creek	Mud Creek	Lat 39°38'57", long 111°09'08", at mouth on Utah Highway 96 south of Scofield.		1980-81	9-24-82	1.01
Mud Creek	Price River	Lat 39°41'03", long 111°09'16", above Eccles Canyon north of Clear Creek.		1980-81	9-24-82	2.61
Eccles Canyon	Mud Creek	Lat 39°41'00", long 111°11'33", above South Fork.		1980-81	9-24-82	.36
South Fork Eccles Canyon	Eccles Canyon	Lat 39°40'54", long 111°11'32", at mouth.		1980-81	9-24-82	.35
Winter Quarters Canyon	Mud Creek	Lat 39°43'16", long 111°09'38", at mouth on Utah Highway 96 south of Scofield.		1980-81	9-24-82	1.3
Soldier Creek	Price River	Lat 39°43'13", long 110°36'18", above Pine Canyon east of Wellington.		1980-81	9-30-82	5.9
Pine Canyon	Soldier Creek	Lat 39°43'13", long 110°36'18", at mouth on Utah Highway 53.		1980-81	9-30-82	.65
Soldier Creek	Price River	Lat 39°42'31", long 110°36'25", on Utah Highway 53 east of Wellington.		1980-81	9-30-82	6.0
Whitmore Canyon	Grassy Trail Creek	Lat 39°37'09", long 110°23'35", below Grassy Trail reservoir.		1980-81	9-30-82	4.2
Whitmore Canyon	Grassy Trail Creek	Lat 39°35'46", long 110°22'36", below Water Canyon.		1980-81	9-30-82	4.2
Whitmore Canyon	Grassy Trail Creek	Lat 39°35'02", long 110°22'10", above Pole Canyon.		1980-81	9-30-82	4.8
JORDAN RIVER BASIN						
10168500 Big Cottonwood Creek	Jordan River	Lat 40°37'07", long 111°46'52", at Big Cottonwood Creek water treatment plant at mouth of canyon, 12 mi southeast of Salt Lake City.	50	1898-1982*	9-27-82	a1,000
SEVIER LAKE BASIN						
10187300 Otter Creek	East Fork Sevier River	Lat 38°14'59", long 111°57'55", 200 ft upstream from Otter Creek Reservoir and 9.4 mi north of Antimony.	322	1916-20*, 1961-64, 1971-80	4-12-82 4-23-82 6-10-82 6-21-82 7-14-82	66 133 19 8.6 3.2

* Operated as a continuous-record station.
a Peak flow.

DISCHARGE MEASUREMENTS AT SOUTHERN PACIFIC TRANSPORTATION CO. CAUSEWAY

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Compilation of data for flow through the two 15-ft (4.6-m) culverts

Great Salt Lake Basin

Date of Observation	EAST CULVERT Lat 41°13'17", long 112°33'36" 3.2 mi (5.1 km) west along the railroad causeway from the east end of the causeway			WEST CULVERT Lat 41°13'24", long 112°40'00" 8.2 mi (13.2 km) west along the railroad causeway from the east end of the causeway		
	Discharge (ft ³ /s)	Specific gravity	Temperature (°C)	Discharge (ft ³ /s)	Specific gravity	Temperature (°C)
Oct. 15, 1981	(a) 277	1.104	14.0	(a) 409	1.103	14.0
	(b) 107	1.210	14.5	(b) 123	1.194	13.5
Nov. 16	(a) 474	1.100	11.0	(a) 484	1.100	11.0
	(b) 59.3	1.192	11.0	(b) 115	1.196	11.0
Dec. 15	(a) 457	1.099	5.0	(a) 0.0	--	--
	(b) 56.9	1.200	6.0	(b) 614	--	--
Jan. 14, 1982	(a) --	--	--	(a) 505	1.103	-1.5
	(b) --	--	--	(b) 33.3	1.189	0.0
Feb. 16	(a) 561	1.102	0.0	(a) 670	1.100	1.0
	(b) 182	1.172	0.0	(b) 73.9	1.174	0.0
Mar. 15	(a) 821	1.094	5.0	(a) 813	1.096	4.0
	(b) 103	1.146	4.5	(b) 68.4	1.150	5.0
Apr. 15	(a) 937	1.093	9.0	(a) 842	1.092	9.0
	(b) 68.2	1.144	9.0	(b) 70.5	1.132	9.0
May 14	(a) 1,140	1.073	16.0	(a) 1,070	1.087	16.0
	(b) 65.3	1.144	13.0	(b) 75.9	1.137	15.5
June 15	(a) 1,200	1.081	20.5	(a) 1,120	1.083	20.5
	(b) 74.3	1.138	19.0	(b) 76.8	1.086	19.5
July 15	(a) 902	1.082	25.0	(a) --	1.084	25.0
	(b) 90.6	1.136	25.0	(b) --	1.124	25.0
Aug. 16	(a) 729	1.083	26.5	(a) 686	1.083	26.0
	(b) 86.9	1.152	25.0	(b) 117	1.147	25.0
Sept. 15	(a) 575	1.087	19.0	(a) 557	1.086	20.0
	(b) 82.1	1.168	20.5	(b) 150	1.211	21.0

(a) Indicates flow from south to north

(b) Indicates flow from north to south

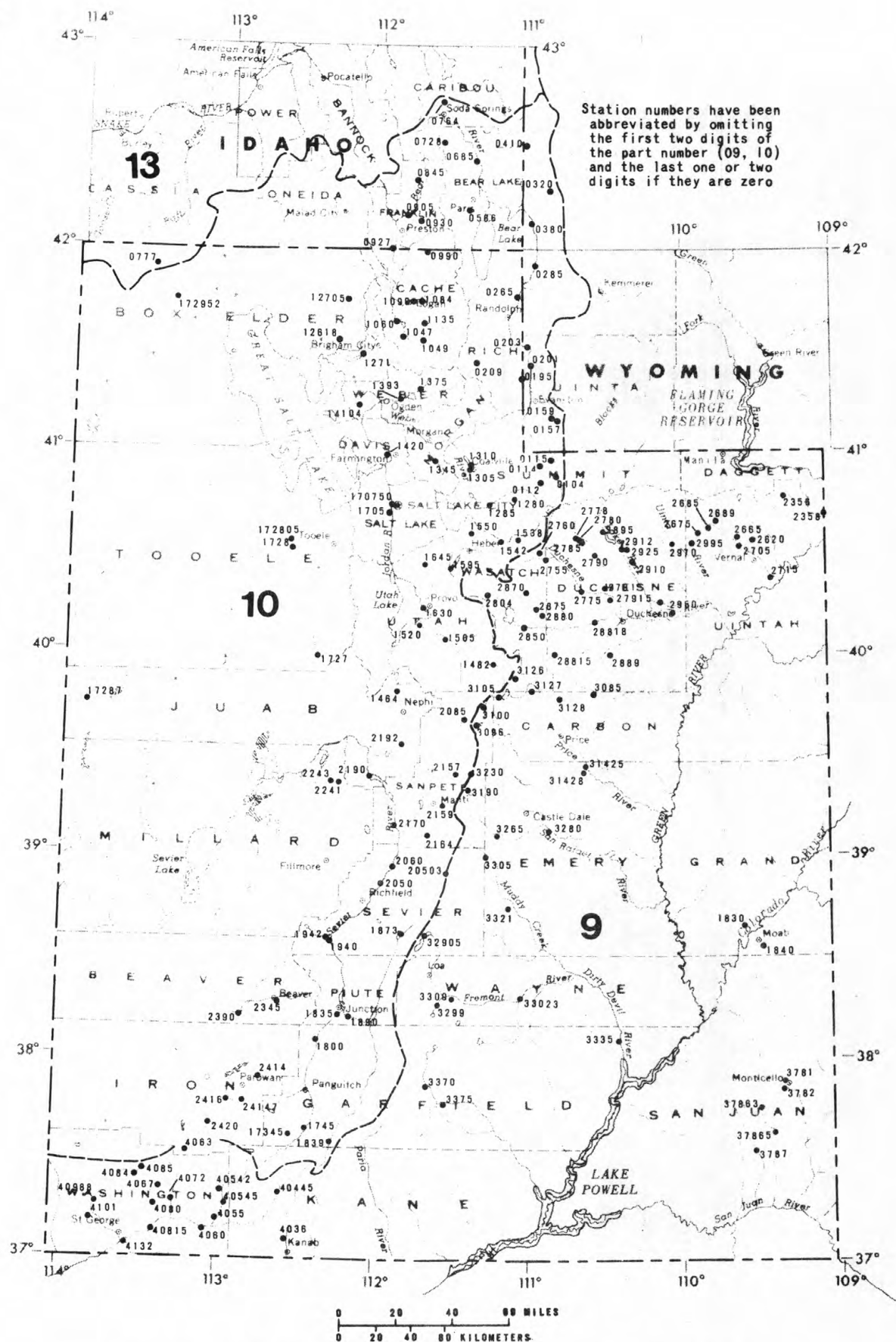


Figure 12.—Location of sites in Utah where data were obtained on the specific conductance of surface water.

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
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COLORADO RIVER BASIN

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

09183000 COURTHOUSE WASH NEAR MOAB, UT (LAT 38°36'46", LONG 109°34'45")

OCT , 1981					MAY , 1982				
01...	0905	.13	12.5	810	10...	1050	.11	14.0	780
21...	0940	.27	7.0	840	JUN				
NOV					07...	0945	.12	13.0	770
17...	1130	.40	14.0	1000	JUL				
JAN , 1982					06...	0755	.09	14.0	840
20...	1130	2.1	4.5	880	AUG				
FEB					04...	1030	.08	19.0	800
18...	1405	.94	11.0	950	SEP				
APR					07...	1130	.13	21.5	820
06...	1015	.54	11.0	920					

09184000 MILL CREEK NEAR MOAB, UT (LAT 38°33'44", LONG 109°30'48")

OCT , 1981					MAY , 1982				
01...	1020	9.6	12.5	200	10...	1211	13	13.0	170
NOV					JUN				
17...	1330	4.4	8.5	260	07...	1115	9.2	16.5	185
DEC					JUL				
01...	1400	4.5	3.0	320	06...	0915	8.6	14.0	185
JAN , 1982					AUG				
20...	1340	3.4	4.0	340	04...	0850	10	17.5	200
FEB					SEP				
18...	1150	6.1	5.5	255	02...	0950	8.3	17.0	210
APR					27...	1025	153	13.5	120
06...	1315	6.4	13.0	220					

GREEN RIVER BASIN

09235600 POT CREEK ABOVE DIVERSIONS, NEAR VERNAL, UT (LAT 40°46'05", LONG 109°19'06")

OCT , 1981					JUN , 1982				
20...	1000	.29	1.5	285	09...	0915	3.4	8.0	130
NOV					JUL				
23...	1320	.30	4.5	320	06...	1135	.45	16.0	205
APR , 1982					AUG				
21...	0835	11	.0	200	16...	--	.00	--	--
28...	0900	29	3.0	130					
MAY									
05...	1940	26	10.0	130					

09235800 POT CREEK NEAR VERNAL, UT (LAT 40°40'25", LONG 109°03'03")

NOV , 1981					MAY , 1982				
23...	1145	.13	6.0	540	05...	1605	2.6	15.0	285
FEB , 1982					JUN				
23...	--	.16	--	--	09...	--	.00	--	--
MAR					JUL				
05...	--	.34	--	--	06...	--	.00	--	--
APR					AUG				
15...	1135	6.0	9.0	205	16...	--	.00	--	--

09261700 BIG BRUSH CREEK ABOVE RED FLEET RESERVOIR, NEAR VERNAL, UTAH (LAT 40°35'20", LONG 109°27'53")

OCT , 1981					APR , 1982				
15...	1015	14	7.5	550	23...	1215	16	11.5	500
NOV					JUN				
17...	1110	14	7.5	540	08...	1130	69	9.5	200
JAN , 1982					29...	1505	39	14.5	200
20...	1030	11	3.0	530	JUL				
FEB					26...	1215	38	15.0	240
16...	1550	10	6.5	610	AUG				
MAR					26...	1010	30	15.5	280
12...	1210	10	8.5	640					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
GREEN RIVER BASIN									
09266500 ASHLEY CREEK NEAR VERNAL, UTAH (LAT 40°34'39", LONG 109°37'17")									
OCT , 1981					MAY , 1982				
23...	1515	34	8.5	165	04...	1225	234	6.0	95
DEC					26...	--	642	--	--
03...	0845	20	7.0	170	JUN				
JAN , 1982					14...	1230	257	8.0	<50
20...	1045	16	7.5	175	JUL				
MAR					07...	1105	138	10.0	70
01...	1245	14	7.0	210	26...	1505	129	14.0	95
APR					AUG				
01...	1100	14	8.0	195	26...	--	81	--	--
09267500 MOSBY CANAL NEAR LAPOINT, UT (LAT 40°36'30", LONG 109°53'00")									
OCT , 1981					JUN , 1982				
05...	1630	.44	8.5	<50	24...	1155	30	11.0	<50
NOV					JUL				
17...	1550	4.5	2.5	<50	14...	1215	23	14.0	<50
MAY , 1982					AUG				
17...	1330	14	5.0	<50	19...	1105	17	16.5	<50
09268500 NORTH FORK OF DRY FORK NEAR DRY FORK, UT (LAT 49°38'34", LONG 109°48'37")									
OCT , 1981					JUN , 1982				
06...	0945	2.8	3.5	<50	11...	1200	33	5.5	<50
NOV					JUL				
16...	1045	2.0	3.0	70	07...	1130	19	6.0	<50
FEB , 1982					AUG				
09...	--	1.3	--	<50	03...	1100	7.6	8.0	<50
APR					SEP				
06...	0945	.98	1.0	57	15...	0950	3.5	4.0	<50
MAY									
27...	1100	58	4.0	<50					
09268900 BROWNIE CANYON ABOVE SINKS, NEAR DRY FORK, UT (LAT 40°39'34", LONG 109°45'01")									
OCT , 1981					JUN , 1982				
06...	1210	3.4	4.0	<50	11...	1410	54	6.5	<50
NOV					JUL				
16...	1350	3.0	1.0	<50	07...	1330	33	8.0	<50
FEB , 1982					AUG				
09...	1450	1.7	.0	<50	03...	1315	12	9.5	<50
APR					SEP				
06...	1155	1.4	.5	<50	15...	1140	5.2	3.0	<50
MAY									
27...	1440	102	5.0	<50					
09270500 DRY FORK AT MOUTH, NEAR DRY FORK, UT (LAT 40°31'35", LONG 109°36'18")									
OCT , 1981					JUN , 1982				
06...	1450	1.6	16.5	720	14...	1220	229	10.0	110
NOV					JUL				
16...	1550	1.5	9.0	820	07...	1330	75	15.0	185
JAN , 1982					AUG				
20...	1305	1.7	.5	1010	04...	1440	3.2	25.0	570
MAR					26...	1535	2.8	24.0	660
01...	1545	2.2	6.0	990					
09271500 ASHLEY CREEK NEAR JENSEN, UT (LAT 40°22'29", LONG 109°24'27")									
OCT , 1981					MAY , 1982				
14...	0940	53	9.5	2750	04...	1430	19	18.5	2450
NOV					JUN				
17...	1000	25	6.0	2200	02...	1045	260	10.0	530
JAN , 1982					08...	1445	157	15.5	780
21...	1120	23	.5	2140	29...	1300	62	17.5	1720
MAR					JUL				
01...	1015	28	5.0	2140	27...	1410	14	26.0	2040
APR									
01...	0905	26	6.0	2590					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
GREEN RIVER BASIN									
09275500 WEST FORK DUCHESNE RIVER NEAR HANNA, UT (LAT 40°27'01", LONG 110°53'01")									
OCT , 1981					MAY , 1982				
06...	1745	19	3.0	480	19...	1800	266	7.0	340
NOV					JUN				
12...	1350	17	5.0	580	02...	1510	293	10.0	340
DEC					09...	1555	290	11.0	325
15...	--	18	--	--	30...	1405	193	11.0	330
JAN , 1982					JUL				
20...	1610	11	.0	500	30...	1245	57	15.0	440
MAR					SEP				
10...	1500	20	6.0	485	02...	1200	29	14.0	460
APR									
21...	1450	43	8.0	475					
09276000 WOLF CREEK ABOVE RHOADES CANYON, NEAR HANNA, UT (LAT 40°28'16", LONG 110°55'05")									
OCT , 1981					MAY , 1982				
06...	1645	3.8	2.0	300	19...	1430	18	6.0	280
NOV					JUN				
12...	1235	3.6	5.5	280	02...	1230	32	7.0	260
DEC					30...	1135	35	8.0	250
15...	1350	2.5	5.0	290	JUL				
MAR , 1982					30...	1425	13	11.0	295
10...	1230	2.3	6.0	320	SEP				
APR					02...	1455	7.5	11.0	300
21...	1215	2.2	7.0	315					
09277500 DUCHESNE RIVER NEAR TABIONA, UT (Lat 40°18'01", LONG 110°36'06")									
OCT , 1981					MAY , 1982				
08...	1410	109	2.5	620	19...	1210	705	6.5	240
NOV					JUN				
12...	1225	106	6.5	540	09...	1340	824	9.0	255
DEC					29...	1945	985	13.5	200
17...	1105	91	1.0	580	JUL				
JAN , 1982					28...	1620	193	18.0	510
21...	1655	96	2.0	500	SEP				
MAR					01...	1530	107	17.5	530
10...	1825	86	7.5	500					
APR									
22...	1715	114	12.0	440					
09277800 ROCK CREEK ABOVE SOUTH FORK, NEAR HANNA, UT (LAT 40°33'27", LONG 110°41'50")									
OCT , 1981					JUN , 1982				
07...	1005	42	3.0	<50	03...	1045	560	3.5	<50
NOV					16...	1130	793	5.0	<50
11...	0930	29	.0	<50	JUL				
DEC					08...	1005	440	8.0	<50
16...	1010	35	.0	<50	AUG				
FEB , 1982					10...	1210	128	12.5	<50
18...	0950	21	.5	<50	SEP				
APR					14...	1125	75	6.0	<50
08...	1050	23	1.0	<50					
09278000 SOUTH FORK ROCK CREEK NEAR HANNA, UT (LAT 40°32'54", LONG 110°41'37")									
OCT , 1981					JUN , 1982				
07...	1115	4.3	1.5	200	03...	1110	56	5.0	140
NOV					16...	1310	74	7.0	145
11...	1140	3.1	.0	210	JUL				
DEC					08...	1245	54	6.5	155
16...	1300	4.4	.0	220	AUG				
FEB , 1982					10...	1230	17	10.0	165
18...	1105	2.5	.5	230	SEP				
APR					14...	1255	8.2	4.0	200
08...	1230	2.8	1.0	250					
MAY									
24...	--	52	--	--					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
GREEN RIVER BASIN									
09278500 ROCK CREEK NEAR HANNA, UT (LAT 40°32'44", LONG 110°39'20")									
OCT , 1981					JUN , 1982				
07...	1415	54	3.5	56	03...	1515	653	7.5	<50
NOV					16...	1540	844	8.5	<50
11...	1005	37	1.0	60	JUL				
DEC					08...	1030	532	9.0	<50
16...	1445	47	.0	55	AUG				
FEB , 1982					10...	1345	160	15.0	<50
18...	1230	29	1.5	60	SEP				
APR					14...	1450	90	6.0	<50
08...	1435	51	1.0	52					
09279000 ROCK CREEK NEAR MOUNTAIN HOME, UT (LAT 40°29'36", LONG 110°34'39")									
OCT , 1981					JUN , 1982				
07...	1715	69	3.5	110	07...	1220	647	5.5	<50
NOV					17...	1300	1170	7.5	120
11...	1500	53	2.5	145	JUL				
DEC					08...	1310	537	10.5	<50
16...	1545	66	.0	130	AUG				
FEB , 1982					10...	1540	179	16.0	70
18...	1600	45	1.5	150	SEP				
APR					14...	1640	115	7.5	80
08...	1635	59	1.0	165					
09279100 ROCK CREEK NEAR TALMAGE, UT (LAT 40°18'40", LONG 110°29'36")									
MAY , 1982					JUN , 1982				
18...	1545	302	11.5	105	29...	1500	1100	13.0	51
JUN									
10...	1050	757	7.0	57					
09279150 DUCHESNE RIVER ABOVE KNIGHT DIVERSION, NEAR DUCHESNE, UT (LAT 40°16'14", LONG 110°26'31")									
OCT , 1981					MAY , 1982				
08...	1540	209	4.5	425	18...	1140	904	10.0	215
NOV					JUN				
10...	1145	205	4.5	470	10...	1500	1550	11.0	165
DEC					29...	1105	2460	11.0	125
17...	1415	172	1.0	--	JUL				
JAN , 1982					28...	1350	466	18.0	260
21...	1120	159	.0	440	SEP				
MAR					01...	1220	191	16.0	360
09...	1700	148	8.0	455					
APR									
22...	1245	210	10.0	400					
09280400 HOBBLE CREEK AT DANIELS SUMMIT, NEAR WALLSBURG, UT (LAT 40°17'54", LONG 111°15'52")									
OCT , 1981					MAY , 1982				
06...	1230	.35	5.0	180	17...	1525	20	3.5	71
NOV					JUN				
09...	1025	.42	.0	200	01...	1520	25	6.0	65
DEC					11...	1350	24	10.0	65
15...	1055	.47	.0	--	28...	1530	3.6	17.0	94
JAN , 1982					JUL				
18...	1420	.26	.0	210	26...	1445	.48	18.0	160
MAR					AUG				
08...	1435	.27	.0	215	31...	1245	.09	15.0	210
APR									
19...	1540	2.5	1.0	145					
09285000 STRAWBERRY RIVER NEAR SOLDIER SPRINGS, UT (LAT 40°08'00", LONG 111°01'27")									
OCT , 1981					MAY , 1982				
27...	1440	11	8.0	470	17...	1740	26	5.0	435
MAR , 1982					JUL				
08...	1730	12	3.5	--	26...	1745	25	7.0	490

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
GREEN RIVER BASIN									
09287000 CURRANT CREEK BELOW RED LEDGE HOLLOW, NEAR FRUITLAND, UT (LAT 40°19'27", LONG 111°02'43")									
OCT , 1981					JUN , 1982				
26...	1730	12	6.0	490	01...	1840	182	9.5	295
DEC					08...	1915	128	12.5	305
07...	1715	11	1.0	475	JUL				
MAR , 1982					01...	1210	63	12.0	340
12...	1340	13	2.0	460	26...	1915	22	18.0	370
APR					AUG				
20...	1240	60	1.0	405	31...	1550	13	17.0	360
MAY									
21...	1400	266	7.5	285					
09287500 WATER HOLLOW NEAR FRUITLAND, UT (LAT 40°14'30", LONG 110°58'48")									
OCT , 1981					JUN , 1982				
26...	1610	.38	7.0	660	01...	1750	1.9	15.0	540
DEC					JUL				
07...	1510	.48	.0	670	01...	1410	1.2	17.0	570
MAR , 1982					27...	1205	.93	19.0	610
11...	1605	.99	1.5	550	AUG				
APR					31...	1750	.48	19.0	580
20...	1035	1.1	1.0	560					
MAY									
17...	1955	1.5	15.0	560					
09288000 CURRANT CREEK NEAR FRUITLAND, UT (LAT 40°12'01", LONG, 110°54'25")									
OCT , 1981					MAY , 1982				
27...	1700	27	7.5	520	21...	1800	301	20.0	310
DEC					JUN				
10...	1350	28	4.0	520	08...	1810	149	13.0	340
JAN , 1982					JUL				
18...	1725	30	1.0	500	01...	1620	79	17.0	380
MAR					27...	1945	44	18.0	445
11...	1815	35	5.0	495	AUG				
APR					31...	1920	29	17.5	440
20...	1525	71	4.0	445					
09288150 WEST FORK AVINTAQUIN CREEK NEAR FRUITLAND, UT (LAT 39°59'35", LONG 110°48'51")									
OCT , 1981					JUN , 1982				
28...	1500	2.8	8.0	570	08...	1410	59	11.0	510
DEC					JUL				
08...	1520	1.3	4.0	590	02...	1150	23	13.0	510
MAR , 1982					29...	1735	23	16.5	480
11...	1100	7.8	5.0	620	SEP				
APR					02...	1735	4.6	17.5	530
21...	1740	28	8.5	560					
MAY									
20...	1645	132	12.0	485					
09288180 STRAWBERRY RIVER NEAR DUCHESNE, UT (LAT 40°09'17", LONG 110°33'15")									
OCT , 1981					MAY , 1982				
30...	1430	85	6.0	800	20...	1225	730	9.0	480
DEC					JUN				
10...	1140	74	1.0	780	08...	1215	490	10.5	550
JAN , 1982					28...	1835	241	20.0	590
19...	1230	72	.0	810	JUL				
MAR					29...	1415	145	20.5	730
12...	1050	121	3.5	900	SEP				
APR					02...	1945	95	19.0	740
20...	1730	163	5.0	640					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
GREEN RIVER BASIN									
09288900 SOWERS CREEK NEAR DUCHESNE, UT (LAT 39°59'22", LONG 110°27'33")									
OCT , 1981					MAY , 1982				
30...	1140	1.1	2.0	1430	20...	2005	8.4	14.5	1040
DEC 08...	1220	.93	1.0	1420	JUN 10...	1905	6.8	15.0	1130
JAN , 1982					30...	1640	6.9	17.5	1140
19...	1625	1.8	.5	1290	JUL 29...	1205	5.6	16.0	1180
MAR 09...	1120	1.7	3.0	1480	SEP 03...	1110	3.8	11.5	1140
APR 23...	1210	5.3	7.0	1110					
09289500 LAKE FORK RIVER ABOVE MOON LAKE, NEAR MOUNTAIN HOME, UT (LAT 40°36'24", LONG 110°31'35")									
OCT , 1981					JUN , 1982				
06...	1150	49	10.0	<50	30...	1200	522	7.0	<50
NOV 13...	1100	36	3.0	<50	JUL 28...	1210	218	11.0	<50
MAR , 1982					SEP 01...	1220	74	11.0	50
11...	--	25	--	--					
JUN 03...	1110	463	4.0	<50					
09291000 LAKE FORK RIVER BELOW MOON LAKE, NEAR MOUNTAIN HOME, UT (LAT 40°33'23", LONG 110°29'02")									
MAR , 1982					JUL , 1982				
11...	--	.00	--	--	28...	1445	301	10.0	<50
APR 27...	0935	178	3.0	--	SEP 01...	1505	294	13.0	<50
JUN 03...	1350	239	9.0	--					
30...	1505	752	7.5	<50					
09291200 LAKE FORK RIVER BELOW TASKEECH DAMSITE, NEAR MOUNTAIN HOME, UT (LAT 40°30'05", LONG 110°24'17")									
OCT , 1981					APR , 1982				
06...	1740	10	13.5	300	27...	1130	49	7.0	120
NOV 13...	1100	8.2	5.0	345	JUN 07...	1410	36	12.0	155
JAN , 1982					30...	1945	660	9.0	<50
19...	1145	5.8	.0	310	JUL 29...	1000	266	11.0	<50
MAR 19...	1030	6.8	1.0	290					
09292500 YELLOWSTONE RIVER NEAR ALTONAH, UT (LAT 40°30'43", LONG 110°20'27")									
OCT , 1981					JUN , 1982				
07...	1025	73	8.0	<50	07...	1615	401	9.0	<50
NOV 13...	1445	71	6.0	90	JUL 01...	1010	745	9.0	<50
MAR , 1982					29...	1210	259	14.5	<50
19...	1350	43	4.5	100	SEP 23...	1145	161	10.0	<50
APR 27...	1220	65	8.0	85	28...	1320	470	7.0	<50
09295000 DUCHESNE RIVER AT MYTON, UT (LAT 40°12'01", LONG 110°03'47")									
OCT , 1981					JUN , 1982				
05...	1235	53	15.5	1970	10...	1255	1370	12.0	410
NOV 16...	1315	64	8.0	1650	28...	1220	2340	14.5	285
JAN , 1982					JUL 15...	1115	478	18.5	590
18...	1325	365	.0	710	AUG 04...	1020	162	21.5	900
MAR 15...	1040	447	6.0	880	30...	1320	106	22.0	1210
APR 22...	1025	480	6.5	810	SEP 29...	1130	697	8.0	420

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
GREEN RIVER BASIN									
09297000 UINTA RIVER NEAR NEOLA, UT (LAT 40°32'08", LONG 110°03'46")									
OCT , 1981					JUN , 1982				
05...	1155	126	7.0	<50	02...	1410	552	9.0	<50
NOV					23...	1350	698	11.0	<50
17...	1100	103	3.5	<50	JUL				
JAN , 1982					21...	1155	283	13.0	<50
22...	1330	62	.5	<50	AUG				
FEB					31...	1245	223	12.5	<50
26...	1145	51	2.0	<50	SEP				
MAR					30...	1155	466	6.5	<50
30...	1140	61	2.0	<50					
APR									
29...	1225	124	7.0	<50					
09299500 WHITEROCKS RIVER NEAR WHITEROCKS, UT (LAT 40°33'54", LONG 109°55'37")									
OCT , 1981					JUN , 1982				
01...	1455	52	12.0	63	02...	1800	369	7.0	<50
NOV					23...	1615	399	11.0	<50
18...	1125	47	1.5	115	JUL				
JAN , 1982					21...	1410	189	17.0	<50
22...	1600	41	.5	<50	AUG				
FEB					31...	0840	144	10.5	<50
26...	1335	27	2.0	<50	SEP				
MAR					28...	1210	369	7.0	<50
30...	1415	37	2.5	70					
APR									
29...	1435	94	10.0	<50					
09306405 HELLS HOLE CANYON CREEK AT MOUTH, NEAR WATSON, UT (LAT 39°58'24", LONG 109°07'40")									
SEP , 1982									
16... .00									
09306410 EVACUATION CREEK ABOVE MISSOURI CREEK, NEAR DRAGON, UT (LAT 39°47'52", LONG 109°04'27")									
OCT , 1981					AUG , 1982				
08...	1100	79	7.0	510	10...	1250	.41	26.5	4500
13...	1255	1.5	15.0	2970	SEP				
DEC					16...	1335	.64	23.0	3570
10...	1420	.53	10.0	3400	21...	1420	.37	25.5	2850
JUL , 1982					28...	1500	3.8	16.0	1920
01...	1130	.26	25.0	4650					
26...	1245	.20	23.5	3630					
09306800 BITTER CREEK NEAR BONANZA, UT (LAT 39°45'12", LONG 109°21'15")									
OCT , 1981					AUG , 1982				
30...	1500	3.2	7.5	4300	18...	1115	.51	19.0	3500
JUL , 1982									
01...	1155	.19	20.0	6000					
09307900 HILL CREEK NEAR MOUTH, NEAR OURAY, UT (LAT 39°51'35", LONG 109°42'12")									
OCT , 1981					NOV , 1981				
01...	--	.00	--	--	03...	1125	2.2	2.5	1210
09308500 MINNIE MAUD CREEK NEAR MYTON, UT (LAT 39°48'10", LONG 110°35'00")									
OCT , 1981					JUL , 1982				
07...	1000	1.4	7.0	800	14...	1510	4.0	24.0	760
NOV					AUG				
30...	1245	1.8	.0	550	11...	1230	3.6	19.5	740
APR , 1982					30...	1440	2.3	22.0	790
14...	0935	13	3.0	630	SEP				
MAY					15...	1250	2.8	10.0	820
14...	0920	36	3.5	610					
JUN									
18...	1320	12	12.0	790					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
GREEN RIVER BASIN									
09309600 FAIRVIEW TUNNEL NEAR FAIRVIEW, UT (LAT 39°40'03", LONG 111°18'41")									
OCT , 1981					AUG , 1982				
12... 1350		.88	1.5	370	20... 1135	15		17.5	290
JUN , 1982					SEP				
23... 2050		12	10.0	340	08... 1405	11		18.0	250
09310000 GOOSEBERRY CREEK NEAR SCOFIELD, UT (LAT 39°42'57", LONG 111°17'58")									
OCT , 1981					JUN , 1982				
12... 1220		8.6	4.5	180	23... 1840	63		13.5	345
NOV					AUG				
02... 1055		5.0	5.0	150	20... 0915	7.0		17.5	350
DEC					SEP				
10... 0900		4.6	2.5	295	08... 1215	5.6		17.0	175
APR , 1982									
20... --		20	--	360					
09310500 FISH CREEK ABOVE RESERVOIR, NEAR SCOFIELD, UT (LAT 39°46'28", LONG 111°11'25")									
OCT , 1981					JUN , 1982				
06... 1625		13	13.0	280	24... 1840	120		11.0	375
DEC					25... 0820	115		10.5	385
01... 1235		12	.0	300	AUG				
FEB , 1982					06... 1545	24		20.5	350
26... 1040		7.7	.0	420	SEP				
APR					16... 1425	18		9.0	370
20... 1035		75	--	420					
MAY									
21... 1830		484	9.0	355					
09310600 ECCLES CANYON NEAR SCOFIELD, UT (LAT 39°41'07", LONG 111°09'22")									
OCT , 1981					MAY , 1982				
01... --		1.3	8.5	520	19... 1600	18		6.5	340
DEC					JUN				
01... 1020		1.2	3.5	500	25... 1120	9.5		8.0	410
MAR , 1982					AUG				
09... 1550		2.2	3.5	540	06... 1035	3.0		10.0	530
APR					SEP				
23... 0910		3.2	3.0	560	16... 1130	2.0		7.0	670
MAY									
12... 1700		9.1	5.0	420					
09310700 MUD CREEK BELOW WINTER QUARTERS CANYON, AT SCOFIELD, UT (LAT 39°43'18", LONG 111°09'38")									
OCT , 1981					MAY , 1982				
05... --		5.0	9.0	320	19... 1800	75		7.0	300
DEC					JUN				
01... 1220		4.3	.0	550	25... 0915	46		7.5	325
MAR , 1982					AUG				
09... 1730		7.2	1.0	570	06... 1320	8.9		17.5	500
APR					SEP				
23... 1045		16	4.5	530	16... 1400	7.3		9.0	630
09312600 WHITE RIVER BELOW TABBYUNE CREEK, NEAR SOLDIER SUMMIT, UT (LAT 39°52'33", LONG 111°2'12")									
OCT , 1981					MAY , 1982				
06... 1450		6.6	12.0	550	21... 1515	331		10.5	550
DEC					JUN				
01... 1400		6.1	.0	620	25... 1325	43		17.0	580
MAR , 1982					AUG				
09... 1350		9.8	.0	640	05... 1230	11		27.0	480
APR					SEP				
22... 1435		86	8.0	660	15... 1330	8.3		10.0	600

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
GREEN RIVER BASIN									
09312700 BEAVER CREEK NEAR SOLDIER SUMMIT, UT (LAT 39°49'50", LONG 110°58'07")									
OCT , 1981					MAY , 1982				
06... 1450	.01	15.0	530		19... 1205	38	8.5	315	
DEC 01... 1530	.04	.0	500		JUN 24... 1740	7.5	18.0	405	
MAR , 1982					AUG 05... 1430	.23	21.5	560	
09... 1105	.05	.0	600		SEP 15... 1445	.19	13.0	560	
APR 22... 1120	.34	9.0	590						
09312800 WILLOW CREEK NEAR CASTLE GATE, UT (LAT 39°46'37", LONG 110°47'30")									
OCT , 1981					MAY , 1982				
06... 0945	1.8	6.0	930		19... 1000	46	7.0	600	
NOV 16... 1555	3.2	7.0	910		JUN 24... 1540	11	21.5	720	
JAN , 1982					AUG 05... 1550	2.4	27.0	850	
14... 1130	1.1	.0	980		SEP 15... 1605	2.7	15.0	890	
MAR 09... 0835	3.8	.0	970						
APR 22... 0855	24	6.0	560						
09314250 PRICE RIVER BELOW MILLER CREEK, NEAR WELLINGTON, UT (LAT 39°26'59", LONG 110°37'08")									
OCT , 1981					MAY , 1982				
05... 1230	97	14.5	1760		14... 1410	373	12.0	930	
NOV 16... 1105	34	6.5	3000		JUN 16... 1310	358	17.5	770	
FEB , 1982					JUL 14... 1050	56	21.0	2650	
16... 1320	33	1.0	--		AUG 13... 0920	65	17.5	3140	
MAR 08... 1235	56	6.0	2790		SEP 15... 1430	72	16.5	2100	
APR 12... 1030	85	9.0	1690						
09314280 DESERT SEEP WASH NEAR WELLINGTON, UT (LAT 39°25'16", LONG 110°38'44")									
OCT , 1981					JUN , 1982				
05... 1510	45	15.5	3000		16... 1515	54	23.5	2700	
NOV 16... 1325	16	7.5	4600		JUL 14... 1250	17	25.5	3500	
FEB , 1982					AUG 30... 1130	59	18.5	2360	
26... 1450	54	.0	6370		SEP 15... 1635	76	16.0	1900	
APR 12... 1305	26	12.5	3080						
MAY 14... 1250	27	14.0	3190						
09319000 EPHRAIM TUNNEL NEAR EPHRAIM, UT (LAT 39°19'47", LONG 111°25'51")									
OCT , 1981					AUG , 1982				
07... 1035	.08	4.5	330		09... 1415	4.3	8.0	290	
JUN , 1982					SEP 07... 1430	1.2	12.0	315	
03... 1115	46	4.0	300						
24... 1145	39	7.0	285						
09323000 SPRING CITY TUNNEL NEAR SPRING CITY, UT (LAT 39°25'34", LONG 111°21'51")									
OCT , 1981					AUG , 1982				
07... 1415	1.1	6.0	330		18... 1240	2.8	11.5	335	
APR , 1982					24... 0915	2.4	12.0	340	
20... 1235	.87	1.5	380		SEP 07... 1110	1.9	8.0	340	
JUN 23... 0845	34	2.5	325						

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
GREEN RIVER BASIN									
09326500 FERRON CREEK (UPPER STATION) NEAR FERRON, UT (LAT 39°06'15", LONG 111°12'47")									
OCT , 1981					JUN , 1982				
06...	1000	13	7.5	470	17...	1450	421	12.0	370
DEC					JUL				
01...	1030	8.1	.0	610	15...	1150	144	14.0	400
MAR , 1982					AUG				
09...	0930	8.6	.5	580	12...	1250	54	19.5	460
APR					SEP				
14...	1320	26	8.5	470	17...	1110	33	12.0	500
MAY									
13...	1130	94	5.0	490					
09328000 SAN RAFAEL RIVER NEAR CASTLE DALE, UT (LAT 39°08'37", LONG 111°53'50")									
DEC , 1981					JUN , 1982				
02...	0945	24	.0	3820	16...	1430	529	16.0	930
MAR , 1982					JUL				
08...	1515	50	6.0	3530	14...	1330	155	23.5	1990
APR					AUG				
13...	1450	63	14.5	2710	31...	0950	105	18.5	2770
MAY					SEP				
12...	1400	78	13.0	2650	17...	1010	99	14.5	2730
DIRTY DEVIL RIVER BASIN									
09329050 SEVEN MILE CREEK NEAR FISH LAKE, UT (LAT 38°37'40", LONG 111°38'50")									
OCT , 1981					JUN , 1982				
07...	1315	6.3	7.0	125	21...	1730	26	11.0	125
NOV					JUL				
12...	1350	11	2.0	135	19...	1540	11	15.0	125
FEB , 1982					AUG				
17...	0945	5.6	1.0	140	26...	1220	14	11.0	140
MAY									
17...	1320	53	5.0	115					
09330000 FREMONT RIVER NEAR BICKNELL, UT (LAT 38°18'25", LONG 111°31'03")									
OCT , 1981					APR , 1982				
08...	0745	57	7.0	510	13...	1345	70	15.0	530
NOV					MAY				
16...	1115	70	6.5	520	18...	1605	94	16.0	540
DEC					JUN				
15...	1135	71	5.0	510	22...	1235	59	14.0	560
JAN , 1982					JUL				
25...	1305	76	3.0	475	21...	1220	54	16.0	485
MAR					AUG				
11...	0850	74	5.0	520	26...	1550	75	17.0	640
09330500 MUDDY CREEK NEAR EMERY, UT (LAT 38°58'55", LONG 111°14'55")									
OCT , 1981					JUN , 1982				
05...	1615	14	15.0	420	17...	1200	166	11.0	350
NOV					JUL				
30...	1400	15	.0	315	15...	1010	91	9.5	380
MAR , 1982					AUG				
10...	1110	11	2.5	480	12...	1130	48	16.0	400
APR					SEP				
13...	0950	19	6.0	500	16...	1050	36	8.0	370
MAY									
27...	1020	205	7.5	400					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
DIRTY DEVIL RIVER BASIN									
09332100 MUDDY CREEK BELOW INTERSTATE 70, NEAR EMERY, UT (LAT 38°48'44", LONG 111°11'53")									
OCT , 1981					MAY , 1982				
05... 1150		9.9	12.5	3030	27... 1245		145	14.0	730
NOV					JUN				
30... 1215		7.8	.0	2450	17... 1100		100	15.5	840
FEB , 1982					JUL				
11... 1230		14	.0	2570	16... 1025		17	18.0	2230
MAR					AUG				
10... 1515		20	7.5	2350	12... 0950		17	18.5	2080
APR					SEP				
14... 1510		30	13.5	1410	13... 1315		8.6	21.5	3430
09333500 DIRTY DEVIL RIVER ABOVE POISON SPRING WASH, NEAR HANKSVILLE, UT (LAT 38°05'50", LONG 110°24'27")									
OCT , 1981					APR , 1982				
01... 1340		26	21.0	2830	14... 0830		81	12.0	1730
NOV					MAY				
12... 1410		98	8.5	2230	19... 1040		57	17.0	2790
JAN , 1982					JUN				
26... 1045		101	1.0	1810	30... 1000		41	21.0	2380
MAR					AUG				
10... 0930		110	13.5	1830	11... 0935		120	22.0	3150
09337000 ESCALANTE RIVER BASIN PINE CREEK NEAR ESCALANTE, UT (LAT 37°51'45", LONG 111°38'07")									
OCT , 1981					APR , 1982				
08... 1125		4.3	6.0	370	29... 1235		35	5.5	195
NOV					MAY				
17... 1120		3.6	3.0	375	20... 1340		26	9.0	180
DEC					JUN				
16... 1050		4.0	.5	385	23... 0840		6.8	10.5	400
JAN , 1982					JUL				
14... 1310		3.8	.5	400	22... 0730		6.9	18.0	310
FEB					AUG				
22... 1125		3.2	1.0	390	17... 1245		5.6	18.0	345
MAR									
31... 1225		4.5	6.0	440					
09337500 ESCALANTE RIVER NEAR ESCALANTE, UT (LAT 37°46'41", LONG 111°34'26")									
OCT , 1981					APR , 1982				
08... 1235		7.9	8.0	1070	29... 1055		39	7.5	300
NOV					MAY				
17... 1010		11	4.5	920	20... 1210		33	11.0	290
DEC					JUN				
16... 1210		12	1.0	860	23... 1030		8.8	15.0	1020
JAN , 1982					JUL				
14... 1150		17	.5	960	22... 0855		2.9	17.0	1580
FEB					AUG				
22... 1300		25	6.0	670	17... 1110		8.5	19.0	920
MAR									
31... 1100		18	6.0	850					
09372200 McELMO CREEK NEAR BLUFF, UT (LAT 37°13'00", LONG 109°11'00")									
OCT , 1981					MAY , 1982				
09... 0945		41	10.0	2900	06... 0845		33	10.0	2100
NOV					JUN				
19... 1500		30	8.5	3000	11... 0920		62	17.5	1980
JAN , 1982					AUG				
27... 1500		39	8.5	3080	05... 1400		78	26.5	1940
MAR					SEP				
24... 0940		31	6.5	3120	10... 0945		109	19.5	2000

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
SAN JUAN RIVER BASIN									
09378100 NORTH CREEK ABOVE RANGER STATION, NEAR MONTICELLO, UT (LAT 37°52'23", LONG 109°21'57")									
OCT , 1981					JUN , 1982				
08...	1100	.00	--	--	10...	1030	.04	10.0	950
NOV					JUL				
18...	1100	.00	--	--	27...	1050	.00	--	--
MAR , 1982					AUG				
23...	1600	.01	6.0	960	31...	0940	.00	--	--
MAY					SEP				
05...	1005	.01	8.0	980	30...	0955	.00	--	--
09378200 MONTEZUMA CREEK AT GOLF COURSE, AT MONTICELLO, UT (LAT 37°51'38", LONG 109°20'30")									
OCT , 1981					JUN , 1982				
08...	1115	.22	14.0	440	10...	1050	.00	--	--
NOV					JUL				
18...	1155	.20	6.0	400	27...	1435	.02	23.0	210
MAR , 1982					SEP				
24...	1450	.04	9.0	570	09...	1630	.05	21.0	200
31...	1345	.01	13.5	490	30...	1420	.30	13.0	300
MAY									
05...	1720	4.8	10.0	280					
06...	1300	4.2	10.0	290					
09378630 RECAPTURE CREEK NEAR BLANDING, UT (LAT 37°45'20", LONG 109°28'33")									
OCT , 1981					JUN , 1982				
08...	1330	.01	15.0	220	10...	1320	1.0	16.0	140
NOV					JUL				
18...	1240	.02	7.0	200	27...	1200	.02	23.5	220
MAR , 1982					AUG				
23...	1310	.10	9.0	250	31...	1330	.02	26.5	230
MAY					SEP				
05...	1120	6.4	7.0	100	30...	1100	.04	12.0	220
09378650 RECAPTURE CREEK BELOW JOHNSON CREEK, NEAR BLANDING, UT (LAT 37°40'51", LONG 109°27'43")									
OCT , 1981					JUN , 1982				
08...	1340	.00	--	--	10...	1150	.44	21.5	370
NOV					JUL				
18...	1320	.00	--	--	27...	1230	.00	--	--
JAN , 1982					AUG				
27...	0930	.00	--	--	31...	1130	1.3	20.0	290
MAR					SEP				
23...	1020	.46	3.0	460	30...	1230	.45	12.0	230
MAY									
05...	1330	21	12.0	180					
09378700 COTTONWOOD WASH NEAR BLANDING, UT (LAT 37°33'38", LONG 109°34'41")									
OCT , 1981					JUN , 1982				
08...	1500	1.9	20.0	250	10...	1455	.00	--	--
NOV					JUL				
18...	1600	2.3	7.0	580	27...	1340	.00	--	--
MAR , 1982					SEP				
24...	1150	3.5	11.5	660	08...	1100	.23	19.0	680
31...	1020	9.4	9.5	580					
MAY									
05...	1530	3.6	22.0	650					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
SAN JUAN RIVER BASIN									
09403600 KANAB CREEK NEAR KANAB, UT (LAT 37°06'01", LONG 112°33'09")									
OCT , 1981					APR , 1982				
12...	1545	33	13.0	690	14...	1400	23	21.0	780
NOV					MAY				
18...	1200	11	10.0	690	13...	1550	8.2	25.0	510
DEC					JUN				
29...	1440	14	3.0	600	21...	1435	6.2	25.0	470
JAN , 1982					JUL				
29...	1020	15	3.0	600	29...	1635	6.3	23.0	470
FEB					AUG				
18...	1150	18	8.0	890	24...	1000	21	16.0	820
MAR									
25...	1345	18	12.0	960					
VIRGIN RIVER BASIN									
09404450 EAST FORK VIRGIN RIVER NEAR GLENDALE, UT (LAT 37°20'19", LONG 112°36'13")									
OCT , 1981					MAY , 1982				
06...	1345	16	13.0	530	03...	1310	28	13.5	580
12...	1220	20	9.5	520	13...	1315	20	13.0	520
NOV					JUN				
18...	0930	16	5.0	540	21...	1135	17	14.5	510
JAN , 1982					JUL				
28...	--	18	--	305	29...	1400	13	17.0	475
FEB					AUG				
18...	0915	20	3.0	560	31...	1125	13	14.0	500
MAR					31...	1150	13	14.0	500
25...	1145	24	6.0	560					
APR									
14...	1150	29	9.0	540					
09405420 NORTH FORK VIRGIN RIVER BELOW BULLOCH CANYON, NEAR GLENDALE, UT (LAT 37°25'06", LONG 112°47'59")									
OCT , 1981					MAY , 1982				
07...	0915	9.7	8.0	430	03...	1600	42	12.0	435
NOV					14...	1115	24	9.0	420
10...	1435	11	9.0	410	JUN				
DEC					17...	1420	20	13.0	450
15...	1410	12	5.0	485	JUL				
FEB , 1982					29...	1040	16	12.5	430
19...	0915	11	1.0	455	SEP				
APR					08...	0850	15	11.5	420
15...	1350	31	8.0	480					
09405450 NORTH FORK VIRGIN RIVER ABOVE ZION NARROWS, NEAR GLENDALE, UT (LAT 37°23'26", LONG 112°49'30")									
OCT , 1981					MAY , 1982				
07...	1115	8.6	10.0	465	03...	1630	34	14.5	455
08...	1400	7.3	14.5	435	14...	1305	23	13.0	465
NOV					JUN				
10...	1330	10	8.0	465	17...	1225	18	13.0	500
DEC					JUL				
15...	1315	9.8	4.0	540	29...	1215	12	18.0	425
FEB , 1982					AUG				
19...	1010	12	1.0	540	23...	1600	13	22.0	360
APR					SEP				
15...	1230	29	10.5	530	08...	0955	9.9	12.5	450
21...	1200	22	6.5	560					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
VIRGIN RIVER BASIN									
09405500 NORTH FORK VIRGIN RIVER NEAR SPRINGDALE, UT (LAT 37°12'35", LONG 112°58'40")									
OCT , 1981					APR , 1982				
07...	1450	42	16.5	770	01...	1120	93	7.5	700
NOV					13...	0950	228	6.5	440
10...	1105	47	8.0	750	MAY				
DEC					07...	1045	366	7.0	440
15...	0955	43	4.5	750	JUN				
JAN , 1982					17...	1105	69	15.0	630
26...	1015	49	4.0	790	JUL				
MAR					29...	1450	46	23.0	720
04...	0920	56	4.5	740	SEP				
16...	1030	100	6.0	700	08...	1420	48	19.0	700
09406000 VIRGIN RIVER AT VIRGIN, UT (LAT 37°11'55" LONG 113°12'25")									
OCT , 1981					APR , 1982				
08...	0855	91	13.0	950	13...	1145	397	12.5	540
17...	1630	123	15.5	850	MAY				
NOV					05...	1200	620	10.5	430
10...	0850	109	8.0	850	06...	1230	486	11.5	490
DEC					JUN				
15...	0840	122	3.5	810	17...	0835	109	18.0	730
JAN , 1982					JUL				
26...	1220	141	6.0	800	27...	1230	96	25.0	930
MAR					SEP				
04...	1130	153	7.5	800	01...	0900	82	17.0	840
16...	1305	247	9.5	790	08...	1600	92	24.5	--
APR									
01...	1120	244	9.0	770					
09406300 KANARRA CREEK AT KANARRAVILLE, UT (LAT 37°32'13", LONG 113°10'00")									
OCT , 1981					APR , 1982				
06...	1420	2.4	12.0	410	14...	1500	5.8	13.0	510
NOV					MAY				
12...	1025	2.5	5.0	430	11...	1300	7.2	7.0	475
DEC					21...	1415	7.2	13.5	495
14...	1340	2.4	4.0	435	JUN				
JAN , 1982					23...	1455	3.7	18.0	440
18...	1415	2.4	2.5	430	AUG				
FEB					03...	1405	2.5	17.0	410
22...	1410	2.7	7.5	435	23...	--	21	--	335
MAR					SEP				
25...	1415	3.2	7.0	465	15...	1220	2.6	12.5	410
09406700 SOUTH ASH CREEK BELOW MILL CREEK, NEAR PINTURA, UT (LAT 37°21'50", LONG 113°20'01")									
OCT , 1981					APR , 1982				
06...	1150	1.5	11.0	220	14...	1245	10	11.0	185
NOV					MAY				
10...	1350	1.1	7.5	235	11...	1000	12	5.0	175
DEC					21...	1055	9.1	8.5	180
14...	1105	1.4	2.0	245	JUN				
JAN , 1982					23...	1155	5.7	13.0	160
18...	1200	1.7	1.0	250	AUG				
FEB					03...	1135	2.5	14.5	175
22...	1150	2.3	5.0	245					
MAR									
25...	1130	4.0	5.0	240					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
VIRGIN RIVER BASIN									
09407200 ASH CREEK BELOW WEST FIELD DITCH, AT TOQUERVILLE, UT (LAT 37°15'57", LONG 113°16'15")									
OCT , 1981					MAY , 1982				
06...	1425	6.5	17.5	690	06...	1020	9.6	15.5	680
NOV					07...	1440	7.5	17.5	625
12...	1340	6.5	16.5	680	JUN				
DEC					29...	1240	3.7	17.0	700
16...	1505	5.1	16.5	730	AUG				
JAN , 1982					02...	1335	4.3	17.0	790
26...	1420	5.4	17.0	680	SEP				
MAR					02...	0900	4.0	16.5	700
04...	1500	5.7	16.5	690	09...	1400	4.4	16.5	710
APR									
16...	1335	10	16.5	660					
09408000 LEEDS CREEK NEAR LEEDS, UT (LAT 37°16'03", LONG 113°22'12")									
OCT , 1981					APR , 1982				
08...	1030	2.8	12.0	295	16...	0945	6.3	6.5	260
NOV					MAY				
12...	0830	2.6	7.0	315	21...	1255	7.0	14.0	260
DEC					JUN				
16...	0830	2.8	3.0	340	15...	0810	10	11.0	180
JAN , 1982					AUG				
27...	1100	2.8	3.5	330	02...	1015	5.3	16.0	230
MAR					SEP				
03...	0905	3.1	5.5	315	09...	1500	5.2	18.0	245
09408150 VIRGIN RIVER NEAR HURRICANE, UT (LAT 37°09'45", LONG 113°23'42")									
OCT , 1981					APR , 1982				
06...	1110	149	18.0	2120	13...	1400	473	16.0	950
20...	1000	124	12.5	1930	MAY				
NOV					06...	1445	528	15.5	760
12...	1155	124	14.0	1960	06...	1520	550	16.0	860
DEC					JUN				
16...	1215	153	9.0	1940	16...	1100	86	23.5	2620
JAN , 1982					JUL				
27...	1405	189	11.0	1600	27...	1000	82	24.0	2890
MAR					AUG				
04...	1300	191	12.0	1580	23...	1400	155	28.0	2710
17...	0950	295	9.0	1320	SEP				
APR					09...	1045	94	21.0	2820
01...	0805	290	11.0	1500					
09408400 SANTA CLARA RIVER NEAR PINE VALLEY, UT (LAT 37°23'00", LONG 113°28'57")									
OCT , 1981					APR , 1982				
05...	1120	2.7	10.5	105	14...	1105	25	5.5	63
NOV					MAY				
09...	1040	1.8	5.0	105	04...	1115	55	4.0	44
DEC					10...	1140	27	4.0	61
14...	1030	1.7	2.5	135	JUN				
JAN , 1982					15...	1300	12	11.0	70
25...	0950	1.8	.0	115	JUL				
MAR					26...	1005	7.3	14.0	81
08...	0935	1.8	2.0	115	SEP				
31...	0955	5.7	3.5	90	10...	1220	4.6	14.0	95
09408500 SANTA CLARA-PINTO DIVERSION NEAR PINTO, UT (LAT 37°28'04", LONG 113°28'21")									
OCT , 1981					MAY , 1982				
05...	--	.00	--	--	04...	0840	72	3.0	65
NOV					10...	1020	25	3.0	79
09...	--	.00	--	--	26...	0955	23	6.0	88
DEC					JUN				
14...	--	.00	--	--	15...	1415	1.4	15.0	180
MAR , 1982					JUL				
08...	--	.00	--	--	26...	--	.00	--	--
APR									
14...	0940	33	2.0	80					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
VIRGIN RIVER BASIN									
09409880 SANTA CLARA RIVER AT GUNLOCK, UT (LAT 37°16'55", LONG 113°46'00")									
OCT , 1981					MAR , 1982				
05...	1415	19	20.0	445	31...	1150	41	12.0	420
27...	0930	14	10.5	485	MAY				
NOV					04...	1550	34	17.0	320
09...	1255	22	14.0	445	10...	1315	25	15.0	345
DEC					JUN				
14...	1200	20	8.0	490	16...	1325	17	22.0	335
JAN , 1982					JUL				
25...	1215	6.0	7.0	590	26...	1200	8.8	25.0	415
MAR					SEP				
08...	1225	21	11.5	--	10...	1040	11	21.0	430
15...	1035	99	7.5	--					
24...	1100	46	9.5	410					
09410100 SANTA CLARA RIVER BELOW WINSOR DAM, NEAR SANTA CLARA, UT (LAT 37°11'18", LONG 113°46'01")									
OCT , 1981					APR , 1982				
05...	1605	.66	21.0	620	14...	1325	24	13.5	490
NOV					MAY				
09...	1415	11	13.5	520	04...	1700	20	15.5	445
DEC					10...	1530	24	13.0	485
14...	1355	.51	9.5	800	JUN				
JAN , 1982					16...	1450	23	19.0	445
25...	1340	.01	10.5	1500	JUL				
FEB					26...	1410	22	22.0	430
22...	1300	10	10.0	--	AUG				
MAR					23...	1500	11	24.5	420
08...	1240	14	9.0	495	SEP				
24...	1300	32	11.0	480	10...	0810	15	17.5	465
31...	1315	61	11.5	475					
09413200 VIRGIN RIVER NEAR BLOOMINGTON, UT (LAT 37°04'10", LONG 113°35'00")									
OCT , 1981					APR , 1982				
06...	0845	139	15.0	2760	14...	1505	461	19.5	1280
15...	1710	139	15.3	2630	MAY				
27...	1125	125	13.0	2540	05...	1145	610	15.0	870
NOV					07...	0900	427	12.5	1240
12...	1025	152	11.5	2310	JUN				
DEC					15...	1100	55	20.0	3110
14...	1550	173	10.5	2210	JUL				
JAN , 1982					27...	0825	95	21.5	3250
25...	1550	217	9.5	2010	SEP				
MAR					02...	1430	45	31.0	3540
08...	1510	143	15.5	2140	09...	0855	43	19.5	3450
17...	1200	320	10.0	1570					
31...	1500	337	17.5	1500					
BEAR RIVER BASIN									
10010400 EAST FORK BEAR RIVER NEAR EVANSTON, WY (LAT 40°52'25", LONG 110°47'00")									
OCT , 1981					JUN , 1982				
05...	1720	19	9.0	200	08...	1105	153	4.0	55
JAN , 1982					21...	1340	332	6.0	--
20...	0900	5.3	.0	235	29...	1615	375	11.0	70
MAR					JUL				
02...	1430	14	.5	250	06...	1750	191	11.5	50
MAY					AUG				
04...	1230	79	4.0	--	10...	0845	59	9.0	150
10011200 WEST FORK BEAR RIVER AT WHITNEY DAM, NEAR OAKLEY, UT (LAT 40°56'40", LONG 110°51'40")									
OCT , 1981					AUG , 1982				
06...	1240	1.5	9.0	280	09...	1625	5.2	10.0	300
JUL , 1982									
13...	1435	13	15.5	300					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
BEAR RIVER BASIN									
10011400 WEST FORK BEAR RIVER BELOW DEER CREEK, NEAR EVANSTON, WY (LAT 40°56'40", LONG 110°51'40")									
OCT , 1981					JUN , 1982				
06...	1425	13	.0	450	08...	0900	162	3.0	250
JAN , 1982					29...	1240	226	11.0	250
20...	1110	9.4	.0	470	JUL				
MAR					06...	1410	124	11.0	250
03...	0900	13	.5	450	AUG				
MAY					10...	1040	24	13.0	250
04...	1100	118	3.0	250					
10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE (LAT 40°57'55", LONG 110°51'10")									
OCT , 1981					MAY , 1982				
06...	1620	60	11.0	310	18...	1715	849	9.0	200
DEC					JUN				
01...	1530	54	.0	390	21...	1155	1390	8.5	--
JAN , 1982					29...	1130	1340	9.0	285
20...	1210	44	1.0	410	JUL				
MAR					06...	1600	576	12.5	290
03...	0910	35	1.5	440	AUG				
MAY					10...	1140	161	14.0	300
04...	1300	581	7.0	--					
10015700 SULPHUR CREEK ABOVE RESERVOIR, NEAR EVANSTON, WY (LAT 41°08'38", LONG 110°48'19")									
OCT , 1981					JUN , 1982				
05...	1500	.82	12.0	690	07...	1655	36	7.0	600
DEC					29...	1920	13	22.0	580
01...	1410	1.0	.0	--	AUG				
JAN , 1982					09...	1500	5.9	18.0	570
20...	--	.00	--	--					
MAY									
04...	1430	151	7.0	--					
10015900 SULPHUR CREEK BELOW RESERVOIR, NEAR EVANSTON, WY (LAT 41°09'21", LONG 110°50'05")									
OCT , 1981					JUN , 1982				
05...	--	.00	--	--	07...	1600	47	11.0	400
JAN , 1982					30...	1005	27	18.0	560
20...	--	.00	--	--	AUG				
MAY					09...	1325	.50	19.0	580
04...	0855	127	6.5	--	SEP				
18...	1305	1.1	13.0	280	24...	1205	14	14.0	440
10019500 CHAPMAN CANAL AT STATE LINE, NEAR EVANSTON, WY (LAT 41°24'24", LONG 111°02'26")									
OCT , 1981					MAY , 1982				
05...	1140	26	8.0	270	18...	0915	62	9.5	240
NOV					JUN				
17...	1105	52	4.5	250	30...	1155	65	14.0	230
JAN , 1982					JUL				
13...	--	.00	--	--	07...	0830	54	12.0	230
FEB					SEP				
18...	--	.00	--	--	14...	0950	5.6	5.0	540
MAR					24...	1605	1.1	17.0	300
10...	1000	4.7	.5	500					
APR									
14...	0930	10	4.0	310					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
BEAR RIVER BASIN									
10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT (LAT 41°30'20", LONG 111°00'50")									
OCT , 1981					JUN , 1982				
07...	1030	20	13.0	570	07...	1110	700	13.0	375
DEC					28...	1740	1170	19.0	320
01...	1035	17	2.0	600	AUG				
JAN , 1982					09...	1045	138	18.0	350
20...	1530	28	4.0	550	SEP				
MAR					23...	1625	10	16.5	340
03...	1450	28	4.0	550					
MAY									
04...	1535	927	7.0	350					
10020900 WOODRUFF CREEK BELOW RESERVOIR, NEAR WOODRUFF, UT (LAT 41°28'06", LONG 111°18'50")									
OCT , 1981					MAY , 1982				
05...	1020	14	12.0	330	19...	0915	272	8.0	310
DEC					JUN				
01...	--	.00	--	--	08...	1445	105	10.0	380
JAN , 1982					28...	1415	47	7.0	390
20...	--	.00	--	--	AUG				
MAR					09...	0900	34	16.5	380
03...	--	.00	--	--					
10026500 BEAR RIVER NEAR RANDOLPH, UT (LAT 41°48'02", LONG 111°04'20")									
OCT , 1981					JUN , 1982				
05...	0815	23	7.0	720	07...	0920	449	10.0	640
DEC					30...	1530	662	20.5	600
02...	0940	39	.0	680	AUG				
JAN , 1982					09...	0645	409	18.0	500
19...	1210	49	.0	710					
APR									
27...	1150	112	10.0	--					
10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY (LAT 41°56'20", LONG 110°59'05")									
OCT , 1981					JUN , 1982				
07...	1300	8.5	14.0	850	30...	1920	637	20.5	710
APR , 1982									
27...	1230	214	12.0	--					
10032000 SMITHS FORK NEAR BORDER, WY (LAT 42°17'16", LONG 110°52'14")									
OCT , 1981					MAY , 1982				
07...	1420	74	10.5	320	04...	1850	812	9.0	--
08...	1640	96	15.0	400	27...	1100	1430	7.0	280
NOV					JUL				
20...	0940	62	.0	380	07...	1125	613	8.0	350
JAN , 1982					AUG				
21...	1045	56	.0	360	11...	0830	230	9.0	350
MAR									
03...	1635	57	1.5	350					
10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY (LAT 42°07'36", LONG 110°58'21")									
OCT , 1981					JUN , 1982				
07...	1555	97	11.0	590	08...	1720	1250	7.0	540
DEC					JUL				
02...	1320	179	.5	650	07...	1435	1430	14.5	510
JAN , 1982					AUG				
21...	1000	171	.0	650	10...	1540	658	15.5	550
APR									
27...	1440	668	10.0	700					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
BEAR RIVER BASIN									
10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE (LAT 42°24'10", LONG 111°01'30")									
OCT , 1981					MAY , 1982				
20...	1005	12	3.0	1000	05...	0850	631	5.5	--
NOV					JUN				
17...	1700	12	5.0	980	09...	0810	203	5.0	540
JAN , 1982					JUL				
13...	1600	12	.0	1100	08...	1000	83	12.5	960
FEB					AUG				
18...	1420	15	1.5	850	18...	0750	34	15.0	420
APR									
14...	1610	50	12.0	640					
10058600 BLOOMINGTON CREEK AT BLOOMINGTON, ID (LAT 42°11'05", LONG 111°25'30")									
OCT , 1981					MAY , 1982				
20...	0830	17	4.0	400	05...	0730	64	5.0	--
NOV					20...	0735	83	5.0	320
17...	0830	16	4.5	375	JUN				
JAN , 1982					17...	1155	128	8.0	200
12...	1400	13	.5	420	JUL				
FEB					08...	1545	77	10.5	320
19...	1035	15	2.5	375	AUG				
APR					17...	1540	38	17.0	350
15...	1155	28	8.0	410					
10068500 BEAR RIVER AT PESCADERO, ID (LAT 42°24'06", LONG 111°21'22")									
OCT , 1981					JUN , 1982				
20...	1150	88	8.5	650	09...	1235	574	14.5	490
NOV					JUL				
18...	0900	88	3.5	700	08...	1420	287	21.0	650
JAN , 1982					AUG				
14...	0900	54	.0	720	17...	1210	1380	21.0	540
APR									
15...	0950	698	5.0	620					
10072800 EIGHTMILE CREEK NEAR SODA SPRINGS, ID (LAT 42°32'15", LONG 111°34'20")									
OCT , 1981					MAY , 1982				
20...	1510	2.1	7.0	370	05...	1100	95	7.0	--
NOV					JUN				
18...	1210	2.4	4.0	375	15...	1055	114	7.0	210
JAN , 1982					JUL				
14...	1310	1.4	1.0	350	12...	1405	43	13.0	320
MAR					AUG				
04...	1050	3.5	1.0	340	17...	1020	14	9.0	330
10076400 SODA CREEK AT FIVEMILE MEADOWS, NEAR SODA SPRINGS, ID (LAT 42°43'45", LONG 111°36'55")									
OCT , 1981					JUN , 1982				
20...	1400	2.7	10.5	850	09...	1900	17	11.0	750
NOV					JUL				
18...	1035	1.8	3.5	920	12...	1700	20	20.5	1100
MAR , 1982					AUG				
04...	0850	2.4	3.0	810	17...	0905	22	9.0	1100
APR									
21...	1340	24	10.0	--					
10084500 COTTONWOOD CREEK NEAR CLEVELAND, ID (LAT 42°19'57", LONG 111°46'27")									
OCT , 1981					MAY , 1982				
21...	1120	4.9	6.0	380	05...	1225	310	8.0	--
NOV					26...	1415	208	12.0	210
18...	1350	4.6	7.0	380	JUN				
JAN , 1982					17...	0930	69	12.0	210
14...	1620	11	5.0	350	JUL				
MAR					12...	1945	17	16.5	420
04...	1200	27	3.0	210	AUG				
APR					17...	0735	12	11.0	430
21...	1120	117	2.0	270					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
BEAR RIVER BASIN									
10090500 BEAR RIVER NEAR PRESTON, ID (LAT 42°10'05", LONG 111°50'59")									
OCT , 1981					FEB , 1982				
21...	1235	304	10.0	790	09...	1015	74	.5	800
NOV					APR				
20...	1150	72	1.0	820	21...	1010	239	6.0	750
JAN , 1982					AUG				
05...	0910	98	1.5	850	09...	1310	2700	13.0	550
10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE (LAT 42°00'47", LONG 111°55'14")									
OCT , 1981					SEP , 1982				
22...	1440	279	10.0	800	16...	1520	1850	15.5	950
APR , 1982									
28...	1130	784	9.0	--					
10093000 CUB RIVER NEAR PRESTON, ID (LAT 42°08'28", LONG 111°41'19")									
OCT , 1981					MAY , 1982				
22...	1310	24	6.0	310	05...	1550	327	8.0	300
NOV					12...	1300	174	7.0	310
20...	1245	19	4.5	340	20...	1115	420	6.0	290
JAN , 1982					25...	1155	581	7.0	230
05...	1415	19	.5	320	JUN				
FEB					02...	1200	437	7.0	250
09...	1250	14	.0	400	24...	0930	613	6.5	230
MAR					JUL				
22...	1030	27	2.0	300	13...	0935	191	8.0	260
APR					AUG				
22...	1150	56	7.0	--	23...	1340	68	10.0	280
10099000 HIGH CREEK NEAR RICHMOND, UT (LAT 41°58'40", LONG 111°44'40")									
OCT , 1981					MAY , 1982				
21...	1515	10	6.0	305	05...	1110	170	5.0	300
NOV					06...	1410	149	5.0	310
20...	1410	11	4.0	315	25...	0840	187	5.0	300
JAN , 1982					JUL				
06...	1400	15	.5	300	13...	1140	66	9.0	280
FEB					AUG				
10...	1345	10	.5	300	11...	1110	29	9.5	--
MAR					SEP				
22...	1320	18	2.0	270	16...	1220	14	8.0	580
APR									
22...	1300	30	7.0	--					
10104700 LITTLE BEAR RIVER BELOW DAVENPORT CREEK, NEAR AVON, UT (LAT 41°30'45", LONG 111°48'40")									
OCT , 1981					APR , 1982				
02...	1025	17	11.0	410	30...	1515	236	11.5	500
NOV					JUN				
02...	1010	18	5.5	400	01...	1130	178	7.0	250
DEC					JUL				
08...	1050	24	6.0	400	15...	1015	63	12.0	375
JAN , 1982					AUG				
18...	1310	25	5.0	400	02...	1000	50	13.0	--
MAR					SEP				
17...	1050	86	3.5	370	01...	0930	34	9.0	320
APR									
12...	1205	348	6.0	520					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
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BEAR RIVER BASIN

10104900 EAST FORK LITTLE BEAR RIVER ABOVE RESERVOIR, NEAR AVON, UT
(LAT 41°31'06", LONG 111°42'49")

OCT , 1981					JUN , 1982				
02... 1235	5.3	11.5	400	01... 0940	95	7.0	220		
NOV				JUL					
02... 1205	6.6	6.5	390	15... 1200	24	14.0	375		
DEC				AUG					
08... 1345	6.0	3.0	425	02... 1230	17	15.0	390		
JAN , 1982				SEP					
22... 1400	9.7	.0	400	01... 1040	11	10.0	300		
MAR				30... 1025	24	8.0	375		
04... 1540 32		5.0	310						
MAY									
05... 1715	454	8.0	210						

10106000 LITTLE BEAR RIVER NEAR PARADISE, UT (LAT 41°35'25", LONG 111°51'10")

OCT , 1981				MAY , 1982			
02... 0830	27	11.0	550	05... 1940	774	8.0	340
NOV				19... 1650	533	10.0	350
02... 0835	36	6.0	440	JUN			
30... 1730	38	3.0	590	01... 0730	290	7.0	275
DEC				JUL			
31... 0910	51	3.0	570	01... 1450	76	14.5	590
FEB , 1982				22... 1740	63	18.0	620
01... 1010	41	.0	600	AUG			
17... 1430	209	4.0	280	02... 0945	58	15.0	--
MAR				SEP			
01... 0900	102	4.0	200	01... 0805	53	8.0	680
30... 0930	118	1.0	220	30... 0810	134	10.0	--
APR							
12... 1300	472	6.0	195				
30... 0815	682	5.0	--				

10108400 LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UT
(LAT 41°44'35", LONG 111°45'40")

OCT , 1981				JUN , 1982			
02... 0750	31	8.0	250	01... 1620	36	7.5	450
NOV				JUL			
30... 1050	1.7	2.0	450	02... 1530	69	10.5	340
DEC				AUG			
31... 1050	6.7	2.0	410	02... 0635	58	10.0	--
FEB , 1982				SEP			
01... 1345	6.6	1.0	460	01... 1435	53	12.0	--
22... 1415	5.3	6.0	375	30... 1310	7.5	2.0	--
APR							
30... 1120	9.0	5.0	--				

10109000 LOGAN RIVER ABOVE STATE DAM. NEAR LOGAN, UT
(LAT 41°44'40", LONG 111°47'00")

OCT , 1981				APR , 1982			
02... 0940	88	8.5	250	26... 1215	434	8.0	--
NOV				MAY			
02... 1130	106	5.0	230	04... 1950	1110	8.0	250
30... 1205	90	3.0	490	27... 1145	1310	17.0	260
DEC				JUL			
31... 1310	85	2.0	400	02... 1750	742	11.0	340
FEB , 1982				09... 1405	629	11.0	375
01... 1440	68	1.0	480	23... 1400	395	11.0	400
02... 1310	81	1.0	460	AUG			
22... 1520	126	6.0	375	02... 0720	338	10.0	200
MAR				SEP			
31... 1130	154	4.0	380	01... 1520	209	19.0	180
APR				30... 1410	242	7.0	--
12... 1330	263	6.0	380				

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
BEAR RIVER BASIN									
10113500 BLACKSMITH FORK ABOVE UTAH POWER & LIGHT CO.'S DAM, NEAR HYRUM, UT (LAT 41°37'18", LONG 111°44'42")									
OCT , 1981					MAY , 1982				
02...	1210	62	10.0	300	04...	1510	1180	8.0	300
NOV					19...	1125	642	7.5	360
02...	0845	67	4.0	310	JUN				
30...	1450	58	2.5	600	01...	1230	353	7.5	360
DEC					JUL				
31...	1035	60	1.0	520	01...	1045	194	11.0	460
FEB , 1982					22...	1500	170	15.0	440
01...	1110	59	.0	520	29...	1315	169	15.0	--
MAR					SEP				
01...	1005	112	5.0	430	01...	1310	147	17.0	--
30...	1250	154	2.0	305	30...	1150	153	8.0	--
APR									
26...	1000	562	6.0	290					
30...	1045	738	10.0	---					
10126180 SULPHUR CREEK NEAR CORINNE, UT (LAT 41°34'25", LONG 112°13'07")									
OCT , 1981					APR , 1982				
19...	1210	82	10.5	2800	29...	0940	21	10.5	--
NOV					JUN				
13...	1130	78	9.0	3400	16...	1015	61	20.0	2300
JAN , 1982					JUL				
26...	1030	15	.0	3800	28...	1050	106	19.0	--
MAR					AUG				
23...	1200	82	3.5	2700	31...	1020	105	20.0	1200
10127050 SALT CREEK BELOW SALT SPRING, NEAR TREMONTON, UT (LAT 41°42'41", LONG 112°13'36")									
OCT , 1981					APR , 1982				
23...	1050	41	20.0	2200	29...	1235	22	20.0	3100
NOV					JUN				
30...	1110	64	6.0	2000	16...	1200	22	20.0	3000
JAN , 1982					AUG				
26...	1305	18	19.0	3200	31...	1310	31	24.5	--
MAR									
24...	1225	20	19.0	3180					
10127100 BLACK SLOUGH NEAR BRIGHAM CITY, UT (LAT 41°30'36", LONG 112°04'34")									
OCT , 1981					APR , 1982				
15...	1300	56	9.0	1900	29...	0810	78	8.0	2500
NOV					JUN				
13...	1000	48	10.0	1500	16...	0840	32	18.0	1200
JAN , 1982					JUL				
26...	0915	52	3.0	1900	28...	0815	31	21.0	2820
FEB					AUG				
16...	1415	68	2.0	1300	31...	0805	48	14.0	1940
MAR									
23...	1535	136	11.0	3000					
WEBER RIVER BASIN									
10128000 SMITH AND MOREHOUSE CREEK NEAR OAKLEY, UT (LAT 40°47'09", LONG 111°06'42")									
OCT , 1981					APR , 1982				
20...	1250	26	4.5	190	27...	1400	46	5.0	235
NOV					JUN				
27...	1330	18	1.5	--	04...	1255	264	6.0	75
DEC					15...	1545	292	5.0	60
28...	1200	15	.5	220	23...	1300	488	9.0	--
JAN , 1982					JUL				
26...	1215	13	.5	--	27...	1210	67	14.0	125
MAR					AUG				
09...	1425	15	4.0	210	30...	1345	18	13.5	230

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
WEBER RIVER BASIN									
10128500 WEBER RIVER NEAR OAKLEY, UT (LAT 40°44'14", LONG 111°14'50")									
OCT , 1981					APR , 1982				
27...	1430	90	7.0	260	27...	1040	296	4.0	235
28...	1600	80	6.0	260	JUN				
NOV					04...	1635	938	8.0	170
27...	1100	66	.5	--	14...	--	1240	--	--
JAN , 1982					JUL				
26...	1435	65	.5	255	27...	1410	292	14.0	200
MAR					AUG				
01...	1050	64	2.5	280	30...	1125	114	11.5	260
09...	1245	66	4.0	260					
31...	0945	68	.5	285					
10130500 WEBER RIVER NEAR COALVILLE, UT (LAT 40°53'43", LONG 111°24'04")									
OCT , 1981					MAY , 1982				
20...	1530	196	13.5	370	07...	1520	1230	9.0	--
28...	1210	130	8.5	385	JUN				
DEC					08...	1700	685	12.5	280
09...	1215	127	4.5	395	29...	1115	1220	12.5	240
FEB , 1982					JUL				
21...	1545	228	4.5	450	21...	1100	188	14.5	280
MAR					AUG				
24...	1150	257	5.0	410	18...	1110	153	14.0	350
APR					SEP				
30...	1240	483	8.0	370	22...	1205	177	13.5	310
10131000 CHALK CREEK AT COALVILLE, UT (LAT 40°55'14", LONG 111°24'03")									
OCT , 1981					MAY , 1982				
20...	1430	26	9.0	--	07...	1305	480	9.0	--
DEC					JUN				
09...	0945	13	2.5	640	08...	1440	254	11.0	500
FEB , 1982					JUL				
21...	1155	29	2.0	600	21...	1330	67	17.0	590
MAR					AUG				
24...	1315	28	6.0	640	18...	1250	34	17.0	680
APR					SEP				
30...	1420	371	8.0	480	22...	1330	55	14.0	560
10134500 EAST CANYON CREEK NEAR MORGAN, UT (LAT 40°55'21", LONG 111°36'23")									
OCT , 1981					MAY , 1982				
16...	1530	4.1	9.0	590	17...	1240	31	8.0	620
DEC					JUN				
09...	1550	3.9	7.0	580	08...	1200	162	11.5	480
JAN , 1982					JUL				
19...	1450	4.8	5.0	610	21...	1500	106	9.0	510
MAR					AUG				
18...	1200	168	7.0	600	18...	1505	185	13.5	550
APR					SEP				
30...	1600	25	8.5	650	22...	1545	25	8.5	570
10137500 SOUTH FORK OGDEN RIVER NEAR HUNTSVILLE, UT (LAT 41°16'07", LONG 111°40'24")									
OCT , 1981					APR , 1982				
15...	1000	24	5.5	395	08...	1035	174	3.5	300
DEC					MAY				
08...	1000	26	2.5	390	04...	1340	1010	8.0	185
JAN , 1982					JUN				
19...	1045	39	1.0	370	22...	1600	168	13.0	300
FEB					AUG				
16...	1320	104	4.0	260	09...	1145	96	13.0	315
MAR					SEP				
22...	1100	198	5.0	330	09...	1200	85	14.0	310

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
WEBER RIVER BASIN									
10139300 WHEELER CREEK NEAR HUNTSVILLE, UT (LAT 41°15'14", LONG 111°50'32")									
OCT , 1981					APR , 1982				
15...	1200	1.0	8.0	420	08...	1310	14	4.0	340
DEC					MAY				
08...	1155	.84	5.5	420	04...	1700	90	8.5	235
JAN , 1982					JUN				
19...	1305	1.2	.0	390	22...	1330	29	12.0	220
FEB					AUG				
17...	1020	27	2.0	200	09...	1415	2.2	15.5	355
MAR					SEP				
22...	1430	19	4.0	380	09...	1400	1.1	14.0	400
10141040 HOOPER SLOUGH NEAR HOOPER, UT (LAT 41°11'26", LONG 112°09'07")									
OCT , 1981					JUN , 1982				
16...	1120	17	9.5	1280	30...	1510	14	21.0	870
DEC					AUG				
07...	1411	6.2	8.0	1110	10...	1330	19	22.0	720
JAN , 1982					SEP				
20...	1030	9.9	.5	1520	22...	1300	20	18.0	750
APR									
09...	1025	9.1	6.5	1550					
10142000 FARMINGTON CREEK ABOVE DIVERSION, NEAR FARMINGTON, UT (LAT 41°00'05", LONG 111°52'21")									
DEC , 1981									
10...					1315	3.4	4.5	130	
JORDAN RIVER BASIN									
10146400 CURRANT CREEK NEAR MONA, UT (LAT 39°48'10", LONG 111°51'58")									
OCT , 1981					APR , 1982				
02...	1045	8.2	14.0	1120	05...	1155	38	5.0	2200
NOV					MAY				
17...	1030	19	6.5	2150	11...	1445	32	14.0	2000
DEC					JUN				
29...	1525	18	2.5	2200	03...	1520	14	18.0	1400
JAN , 1982					JUL				
20...	1420	28	2.0	2980	06...	1710	11	18.5	1200
FEB					AUG				
16...	1410	56	1.0	2700	03...	1600	11	20.0	1080
MAR					SEP				
22...	1610	39	11.0	3200	14...	1505	16	12.5	1650
10148200 TIE FORK NEAR SOLDIER SUMMIT, UT (LAT 39°57'00", LONG 111°12'58")									
OCT , 1981					MAY , 1982				
08...	1200	3.6	8.5	570	18...	2020	31	8.5	650
NOV					JUN				
03...	0835	2.8	1.5	590	25...	1600	15	12.5	650
DEC					AUG				
11...	0820	2.3	.5	710	19...	1700	6.0	19.0	610
MAR , 1982					SEP				
11...	1320	5.2	6.0	630	15...	1105	5.4	9.0	620
APR									
23...	1310	15	6.0	590					
10150500 SPANISH FORK AT CASTILLA, UT (LAT 40°02'59", LONG 111°32'50")									
OCT , 1981					MAY , 1982				
12...	1735	88	11.0	740	04...	1230	1490	7.0	500
NOV					21...	1135	1050	8.5	620
03...	1025	76	5.5	780	JUN				
DEC					22...	1150	532	14.0	520
11...	1110	71	4.5	940	JUL				
FEB , 1982					19...	1200	447	15.5	475
09...	1530	80	1.5	810	AUG				
MAR					20...	1500	448	21.0	435
11...	1015	200	6.0	720	SEP				
APR					08...	1840	242	18.5	--
23...	1700	550	12.0	600					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
JORDAN RIVER BASIN									
10152000 SPANISH FORK NEAR LAKE SHORE, UT (LAT 40°09'30", LONG 111°43'50")									
OCT , 1981					MAY , 1982				
13...	1440	104	10.5	800	05...	1425	1340	8.0	480
NOV					11...	1255	750	7.5	440
03...	1300	104	7.5	820	JUN				
DEC					09...	1235	165	11.0	650
11...	1405	98	6.0	940	SEP				
APR , 1982					09...	1210	1.4	20.0	780
08...	1425	244	6.0	800					
10153800 NORTH FORK PROVO RIVER NEAR KAMAS, UT (LAT 40°35'48", LONG 111°05'48")									
OCT , 1981					JUN , 1982				
28...	1315	11	9.0	<50	01...	1105	165	4.5	<50
NOV					JUL				
13...	0915	11	2.0	<50	14...	1320	69	13.5	<50
MAR , 1982					AUG				
17...	1100	8.7	.0	50	12...	1455	39	17.0	<50
APR					SEP				
27...	1615	62	5.0	--	21...	0940	19	9.0	<50
MAY									
25...	1515	210	9.5	<50					
10154200 PROVO RIVER NEAR WOODLAND, UT (LAT 40°33'28", LONG 111°10'05")									
OCT , 1981					MAY , 1982				
15...	1630	80	6.5	180	24...	1020	1320	5.0	79
NOV					JUN				
13...	1250	76	6.0	165	01...	0900	1000	4.5	100
DEC					15...	1225	1010	7.0	93
17...	1517	69	1.0	210	JUL				
JAN , 1982					14...	1640	438	14.0	100
19...	1313	72	1.0	195	AUG				
FEB					16...	1105	174	14.0	130
17...	1435	60	3.0	200	SEP				
MAR					21...	1205	147	11.5	140
17...	1430	73	.5	205					
APR									
27...	2015	403	6.0	--					
10155000 PROVO RIVER NEAR HAILSTONE, UT (LAT 40°36'03", LONG 111°21'35")									
OCT , 1981					MAY , 1982				
15...	1330	109	6.0	190	24...	1305	1510	8.5	100
NOV					JUN				
13...	1400	160	7.5	210	02...	1100	1020	6.0	120
DEC					AUG				
17...	1345	104	.5	225	16...	1250	150	19.0	62
APR , 1982					SEP				
27...	1325	475	8.0	--	22...	1220	159	14.5	160
10159500 PROVO RIVER BELOW DEER CREEK DAM, UT (LAT 40°24'12", LONG 111°31'44")									
OCT , 1981					MAR , 1982				
15...	1110	97	14.0	430	19...	1535	293	1.0	550
NOV					APR				
16...	1235	92	10.5	460	09...	1450	578	4.5	465
DEC					JUN				
17...	1110	209	3.0	465	02...	1410	1520	13.0	285
JAN , 1982					JUL				
19...	1035	136	2.0	430	15...	1700	443	11.0	325
FEB					AUG				
17...	1035	237	3.0	500	12...	1120	478	12.0	--

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1981

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
JORDAN RIVER BASIN									
10163000 PROVO RIVER AT PROVO, UT (LAT 40°14'16", LONG 111°41'55")									
OCT , 1981					APR , 1982				
14...	1450	155	14.0	405	09...	1055	551	5.0	460
NOV					MAY				
16...	1605	102	11.0	400	07...	1025	534	7.5	400
DEC					JUN				
04...	1330	95	7.0	420	09...	1515	1000	13.0	335
JAN , 1982					JUL				
07...	1425	108	2.0	465	27...	1100	25	17.0	400
FEB					AUG				
12...	1030	248	3.0	365	11...	1250	35	18.0	375
MAR					SEP				
19...	1040	342	4.0	465	09...	1400	46	22.0	310
10164500 AMERICAN FORK ABOVE UPPER POWERPLANT, NEAR AMERICAN FORK, UT (LAT 40°26'52", LONG 111°58'28")									
OCT , 1981					APR , 1982				
01...	--	18	9.0	--	08...	0825	20	2.0	485
14...	1145	21	6.0	445	26...	--	131	5.5	--
NOV					MAY				
03...	--	21	3.0	--	04...	1215	288	7.0	345
16...	1135	19	5.0	480	JUN				
DEC					08...	1045	223	7.0	315
04...	1215	16	3.0	480	JUL				
21...	--	17	3.0	--	15...	1250	164	11.0	285
JAN , 1982					21...	--	137	9.0	--
09...	1135	13	.0	530	AUG				
FEB					11...	1030	77	11.0	380
04...	--	13	.0	--	SEP				
12...	1435	16	2.0	520	02...	--	52	11.0	--
MAR					08...	1220	49	12.0	400
17...	--	25	5.0	--					
19...	0915	28	.0	500					
10170500 SURPLUS CANAL AT SALT LAKE CITY, UT (LAT 40°43'37", LONG 111°55'33")									
OCT , 1981					MAY , 1982				
08...	1130	432	12.0	1210	17...	1550	789	14.5	1210
NOV					28...	1330	1470	9.0	700
09...	1540	279	11.5	1720	JUN				
DEC					17...	1600	1120	14.0	920
23...	1255	323	3.0	1800	AUG				
JAN , 1982					05...	1330	264	18.0	170
19...	1450	389	3.5	1720	SEP				
MAR					16...	1300	353	15.0	1540
10...	1535	620	9.0	1460	27...	1030	2510	11.5	830
APR					28...	1230	2140	9.0	1020
08...	1245	689	5.0	1620					
10170750 SURPLUS CANAL AT NORTH TEMPLE STREET, AT SALT LAKE CITY, UT (LAT 40°46'14", LONG 111°58'28")									
OCT , 1981					MAY , 1982				
15...	1640	125	12.0	1760	24...	1500	1040	14.0	950
NOV					JUN				
19...	1630	162	9.0	1750	16...	1230	1160	15.0	880
JAN , 1982					JUL				
08...	1240	317	1.5	1770	20...	1250	329	20.0	1460
MAR					AUG				
10...	1530	660	8.5	1500	17...	1015	125	21.5	1800
APR					SEP				
28...	1535	892	14.0	1400	23...	1300	371	17.5	1600

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
RUSH VALLEY									
10172700 VERNON CREEK NEAR VERNON, UT (LAT 39°58'46", LONG 112°22'46")									
OCT , 1981					JUN , 1982				
01... 1920		3.1	12.0	480	02... 1000		5.7	8.0	440
NOV					JUL				
17... 1335		3.4	13.0	460	01... 1200		4.3	13.5	460
DEC					AUG				
23... 1600		3.0	2.0	435	02... 1630		4.0	15.0	470
MAR , 1982					11... 0930		3.8	11.5	--
22... 1250		4.8	8.0	510	SEP				
APR					02... 1430		3.6	16.5	425
21... 1615		5.9	11.0	460					
28... 1915		8.4	23.0	450					
TOOELE VALLEY									
10172800 SOUTH WILLOW CREEK NEAR GRANTSVILLE, UT (LAT 40°29'47", LONG 112°34'25")									
OCT , 1981					MAY , 1982				
13... 1430		2.7	6.0	340	06... 1005		25	4.5	240
NOV					23... 1155		21	8.0	290
18... 1435		2.7	4.0	320	JUL				
DEC					07... 1035		14	8.0	300
23... 1405		3.1	2.0	300	21... 1455		15	10.0	270
MAR , 1982					SEP				
23... 1135		4.4	4.0	380	07... 1155		7.6	9.0	220
APR									
22... 1140		9.7	7.0	300					
10172805 NORTH WILLOW CREEK NEAR GRANTSVILLE, UT (LAT 40°31'58", LONG 112°34'19")									
OCT , 1981					MAY , 1982				
13... 1240		2.4	7.0	300	06... 1210		27	6.0	230
NOV					23... 1400		26	9.5	210
18... 1200		2.5	5.0	290	JUL				
DEC					07... 1315		9.5	11.0	205
23... 1235		2.2	1.5	280	27... 1050		4.5	11.5	240
MAR , 1982					SEP				
23... 0950		5.6	4.0	350	27... 1105		7.9	8.0	220
APR									
22... 1350		11	7.0	300					
JORDAN RIVER BASIN									
10172870 TROUT CREEK NEAR CALLAO, UT (LAT 39°44'39", LONG 113°53'21")									
OCT , 1981					MAY , 1982				
07... 1900		1.9	9.0	90	19... 1600		18	8.0	80
NOV					JUN				
16... 1620		2.5	4.0	105	10... 1445		14	9.0	75
DEC					JUL				
15... 1525		2.0	4.5	80	14... 1715		5.2	14.0	75
FEB , 1982					AUG				
17... 1545		2.1	2.5	90	12... 1230		3.7	12.0	82
MAR					SEP				
01... 1405		2.5	4.5	450	09... 1615		2.2	14.0	84
APR									
22... 1745		4.5	5.5	90					
TRIBUTARIES BETWEEN GREAT SALT LAKE DESERT AND BEAR RIVER									
10172952 DUNN CREEK NEAR PARK VALLEY, UT (LAT 41°51'31", LONG 113°19'35")									
OCT , 1981					MAY , 1982				
01... 1035		1.4	7.5	250	06... 0950		22	6.0	--
NOV					JUN				
12... 1005		1.4	7.0	235	23... 1030		36	8.0	--
JAN , 1982					AUG				
22... 1000		1.5	.0	240	05... 0935		6.4	9.5	250
MAR					26... 1005		4.7	10.0	270
05... 1320		1.9	5.0	205					
APR									
08... 1135		2.3	3.0	230					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
SEVIER LAKE BASIN									
10173450 MAMMOTH CREEK ABOVE WEST HATCH DITCH, NEAR HATCH, UT (LAT 37°37'19", LONG 112°31'07")									
OCT , 1981					MAY , 1982				
05...	1325	21	13.0	210	13...	1545	140	12.0	175
NOV					JUN				
09...	1305	17	5.0	220	07...	1405	221	10.0	175
JAN , 1982					JUL				
12...	1000	14	.0	225	07...	1300	67	9.0	190
MAR					AUG				
23...	1300	6.6	5.5	230	04...	1350	36	13.5	205
APR					SEP				
08...	1340	9.6	9.0	235	08...	1345	30	13.0	215
10174500 SEVIER RIVER AT HATCH, UT (LAT 37°39'07", LONG 112°25'47")									
OCT , 1981					APR , 1982				
05...	1140	70	9.0	365	08...	1140	64	7.0	370
NOV					MAY				
09...	1125	70	6.0	350	13...	1335	307	13.5	285
DEC					JUN				
04...	1205	59	2.5	350	07...	1200	395	8.5	250
JAN , 1982					JUL				
08...	1330	56	.0	365	07...	1120	140	12.0	290
FEB					AUG				
08...	1240	61	.0	355	04...	1230	100	14.5	320
MAR					SEP				
23...	1100	56	5.0	370	08...	1215	84	13.5	345
10180000 SEVIER RIVER NEAR CIRCLEVILLE, UT (LAT 38°06'15", LONG 112°20'08")									
OCT , 1981					APR , 1982				
08...	1120	94	11.0	490	05...	1230	114	6.5	460
NOV					MAY				
19...	1155	135	3.5	445	13...	1055	256	14.0	355
DEC					JUN				
17...	1250	126	2.0	440	22...	1030	193	14.5	380
JAN , 1982					AUG				
26...	1315	140	4.0	425	04...	1010	112	13.5	475
FEB					SEP				
24...	1205	218	4.0	375	08...	1000	112	13.0	495
10183500 SEVIER RIVER NEAR KINGSTON, UT (LAT 38°12'22", LONG 112°12'25")									
OCT , 1981					APR , 1982				
01...	1135	46	12.0	510	27...	1140	60	14.0	480
28...	0935	123	9.0	485	MAY				
NOV					26...	1000	285	13.0	295
30...	1045	157	5.0	475	JUN				
JAN , 1982					29...	1130	40	15.5	540
12...	1100	137	.5	460	JUL				
FEB					30...	0920	39	14.5	550
24...	--	247	--	445	AUG				
APR					31...	1135	74	17.0	540
05...	1010	134	6.0	450					
10183900 EAST FORK SEVIER RIVER NEAR RUBYS INN, UT (LAT 37°34'33", LONG 112°15'54")									
OCT , 1981					MAY , 1982				
01...	1720	8.4	6.0	440	21...	--	40	--	470
NOV					JUN				
17...	1425	10	5.0	480	23...	1350	13	15.5	430
FEB , 1982					JUL				
18...	0830	16	.5	510	22...	1105	8.5	14.0	415
APR					AUG				
26...	1120	46	4.0	465	19...	1200	9.9	17.0	435

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
SEVIER LAKE BASIN									
10187300 OTTER CREEK NEAR KOOSHAREM, UT (LAT 38°36'40", LONG 111°48'40")									
OCT , 1981					MAY , 1982				
07...	1125	8.6	7.0	110	17...	1500	25	10.0	93
NOV					26...	1340	40	9.0	73
12...	1525	10	4.0	110	JUN				
DEC					21...	1505	18	11.0	87
09...	1030	8.4	3.0	110	JUL				
FEB , 1982					19...	1400	13	12.0	94
17...	1230	8.8	4.0	115	AUG				
APR					19...	0900	13	10.0	100
13...	1205	11	7.0	115					
10189000 EAST FORK SEVIER RIVER NEAR KINGSTON, UT (LAT 38°11'49", LONG 112°09'01")									
OCT , 1981					APR , 1982				
01...	1320	58	16.0	450	27...	1240	167	10.5	460
28...	1050	19	8.0	540	MAY				
NOV					26...	1100	90	14.0	450
30...	1115	17	.5	450	JUN				
JAN , 1982					29...	1155	201	16.0	430
12...	1215	15	.5	580	JUL				
FEB					30...	0950	175	17.0	420
23...	1030	22	9.5	610	AUG				
APR					31...	1305	44	19.5	445
05...	1150	27	8.0	500					
10194000 SEVIER RIVER ABOVE CLEAR CREEK, NEAR SEVIER, UT (LAT 38°34'20", LONG 112°15'27")									
OCT , 1981					MAR , 1982				
05...	1340	32	15.5	500	23...	1000	150	6.0	500
NOV					APR				
13...	1135	50	9.0	550	27...	1510	404	12.0	475
DEC					JUN				
08...	1255	38	2.0	530	14...	1100	346	13.0	360
JAN , 1982					JUL				
13...	1105	28	.5	500	13...	1150	512	17.5	440
FEB					AUG				
23...	1205	109	7.5	510	18...	1135	431	21.0	475
10194200 CLEAR CREEK ABOVE DIVERSIONS, NEAR SEVIER, UT (LAT 38°34'45", LONG 122°17'22")									
OCT , 1981					APR , 1982				
05...	1520	16	16.0	200	21...	1150	41	6.0	190
NOV					MAY				
13...	1220	15	8.0	210	18...	0815	85	7.0	135
DEC					JUN				
08...	1215	11	1.0	235	10...	1500	88	11.0	98
JAN , 1982					JUL				
13...	1130	7.1	.5	240	13...	1310	41	13.0	130
FEB					AUG				
23...	1300	19	5.5	240	18...	1250	18	20.0	190
MAR									
23...	1010	11	2.0	275					
10205000 SEVIER RIVER NEAR SIGURD, UT (LAT 38°52'13", LONG 111°57'14")									
OCT , 1981					APR , 1982				
05...	1805	56	14.5	1030	19...	1100	39	11.0	1120
NOV					JUN				
13...	0945	105	8.0	1010	21...	1700	139	20.5	1120
DEC					JUL				
08...	1520	116	7.0	940	28...	0920	2.7	16.5	1060
FEB , 1982					SEP				
17...	1230	279	4.5	820	10...	1430	20	20.5	1100
MAR									
23...	1215	188	8.0	670					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
SEVIER LAKE BASIN									
10205030 SALINA CREEK NEAR EMERY, UT (LAT 39°54'43", LONG 111°31'47")									
OCT , 1981					MAY , 1982				
06...	1045	8.2	6.0	425	19...	1455	80	6.0	430
22...	1140	7.9	3.5	410	JUN				
NOV					22...	1220	39	9.5	410
16...	1100	6.9	3.0	465	JUL				
DEC					14...	1110	21	10.5	400
16...	1015	4.0	.5	460	SEP				
FEB , 1982					10...	1025	13	9.0	410
16...	1330	7.6	--	455					
APR									
20...	0935	10	.5	540					
10206000 SALINA CREEK AT SALINA, UT (LAT 38°57'24", LONG 111°51'58")									
OCT , 1981					APR , 1982				
06...	1220	3.6	12.5	2280	19...	1640	29	11.0	790
NOV					MAY				
16...	1350	11	9.0	1140	13...	1510	76	11.0	620
DEC					JUN				
16...	1530	14	2.5	930	22...	1455	35	17.0	690
FEB , 1982					JUL				
18...	0935	24	1.5	1070	28...	1030	23	17.5	790
MAR					SEP				
23...	1630	15	9.0	1100	09...	1540	1.7	21.0	3690
10208500 OAK CREEK NEAR FAIRVIEW, UT (LAT 39°40'26", LONG 111°24'30")									
OCT , 1981					APR , 1982				
13...	1035	2.8	5.0	450	21...	1545	12	5.0	455
NOV					MAY				
02...	1400	3.4	5.0	430	18...	1725	96	7.0	415
DEC					JUN				
10...	1605	2.5	3.0	520	23...	1320	24	9.5	415
MAR , 1982					SEP				
11...	1415	3.6	4.0	425	08...	1020	2.8	12.0	450
10215700 OAK CREEK NEAR SPRING CITY, UT (LAT 39°26'52", LONG 111°25'29")									
OCT , 1981					MAY , 1982				
07...	1750	4.9	8.5	390	18...	1430	19	6.5	385
NOV					JUN				
02...	1535	5.2	3.5	405	22...	1940	80	7.0	310
DEC					AUG				
10...	1345	4.6	3.0	455	18...	1505	8.5	11.0	330
APR , 1982					SEP				
21...	1200	5.0	3.5	410	07...	0950	7.9	8.5	415
10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UT (LAT 39°15'33", LONG 111°34'45")									
OCT , 1981					MAY , 1982				
06...	1640	5.7	11.5	550	18...	1120	70	6.5	480
NOV					JUN				
17...	0945	5.0	9.0	610	22...	1500	146	10.5	415
DEC					AUG				
15...	1550	4.2	1.5	560	09...	1110	23	10.5	530
MAR , 1982					SEP				
12...	1120	5.4	5.0	670	07...	1815	13	15.0	485
APR									
21...	0925	8.2	--	630					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
SEVIER LAKE BASIN									
10217000 SEVIER RIVER BELOW SAN PITCH RIVER, NEAR GUNNISON, UT (LAT 39°09'19", LONG 111°52'37")									
OCT , 1981					MAY , 1982				
06...	1415	153	15.0	2240	13...	1250	283	12.0	1470
DEC					JUN				
16...	1320	259	5.5	1720	21...	1340	339	17.5	1770
FEB , 1982					JUL				
17...	1530	436	4.5	1340	27...	1310	146	21.0	2500
MAR					SEP				
23...	1600	433	9.5	1310	09...	1345	102	17.5	2790
APR									
19...	1400	228	11.5	1700					
10219000 SEVIER RIVER NEAR JUAB, UT (LAT 39°22'29", LONG 112°02'20")									
OCT , 1981					APR , 1982				
07...	1125	3.0	14.0	2180	20...	1515	343	8.5	2030
NOV					MAY				
17...	1600	2.5	11.5	2070	13...	0945	357	11.0	1990
DEC					JUN				
15...	1145	3.0	5.5	2020	21...	1100	615	15.5	2050
JAN , 1982					JUL				
26...	1245	1.9	7.0	2080	26...	1830	342	19.0	1870
FEB					SEP				
18...	1205	3.1	6.5	2110	09...	1100	61	21.5	2010
MAR									
24...	1005	271	6.5	2080					
10219200 CHICKEN CREEK NEAR LEVAN, UT (LAT 39°33'03", LONG 111°49'42")									
OCT , 1981					MAY , 1982				
07...	0915	2.5	9.5	710	11...	1210	52	7.5	600
NOV					JUN				
17...	1240	1.8	8.0	870	03...	1245	22	11.5	640
DEC					JUL				
15...	1310	1.7	5.5	830	08...	1420	9.1	15.5	700
MAR , 1982					AUG				
12...	1420	7.4	8.0	540	03...	1320	6.3	17.0	700
APR					SEP				
23...	1220	25	9.5	500	15...	1640	3.7	15.0	710
10224100 OAK CREEK ABOVE LIITLE CREEK, NEAR OAK CITY, UT (LAT 39°21'23", LONG 112°13'55")									
OCT , 1981					MAY , 1982				
07...	1420	.36	11.5	240	10...	1420	13	6.0	115
NOV					JUN				
18...	1330	1.4	5.5	200	16...	1200	2.6	12.5	155
DEC					JUL				
29...	1215	1.1	2.0	205	26...	1420	.77	19.0	215
MAR , 1982					AUG				
26...	1240	3.9	5.5	140	31...	0845	.51	12.5	245
APR									
22...	1130	10	7.5	115					
10224300 OAK CREEK BELOW BIG SPRING, NEAR OAK CITY, UT (LAT 39°21'11", LONG 112°17'07")									
OCT , 1981					APR , 1982				
09...	1055	2.0	7.5	455	22...	1345	24	11.0	250
NOV					MAY				
18...	1450	3.8	6.5	415	11...	1420	24	9.0	265
DEC					JUN				
29...	1825	2.6	7.0	455	16...	1310	7.7	14.5	315
FEB , 1982					JUL				
25...	0950	6.3	6.0	380	26...	1515	3.2	17.0	365
MAR					AUG				
26...	1415	13	8.5	320	31...	1035	2.1	13.0	415

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
BEAVER RIVER BASIN									
10234500 BEAVER RIVER NEAR BEAVER, UT (LAT 38°16'49", LONG 112°34'01")									
OCT , 1981					APR , 1982				
26...	1105	21	4.5	130	23...	1410	41	7.0	115
NOV					MAY				
23...	1145	24	3.5	125	24...	1225	281	6.5	82
DEC					JUN				
28...	1205	19	.0	135	24...	1115	135	9.0	86
JAN , 1982					JUL				
25...	1135	19	2.0	135	26...	1050	78	13.0	105
FEB					AUG				
23...	1205	20	4.5	135	25...	1035	54	13.0	120
MAR					SEP				
24...	1045	19	2.0	140	27...	1115	57	9.5	105
10239000 BEAVER RIVER AT ROCKY FORD DAM, NEAR MINERSVILLE, UT (LAT 38°13'03", LONG 112°50'22")									
OCT , 1981					APR , 1982				
26...	1235	6.3	13.5	560	23...	1230	11	16.0	540
NOV					MAY				
23...	1345	7.4	12.0	570	24...	1445	147	15.5	570
DEC					JUN				
29...	1400	8.1	11.5	600	24...	1330	45	18.0	540
JAN , 1982					JUL				
25...	1345	9.1	13.0	590	26...	1250	93	20.0	550
FEB					AUG				
23...	1400	9.3	13.0	570	25...	1250	67	20.5	550
MAR									
24...	1255	12	14.5	600					
PAROWAN VALLEY									
10241470 CENTER CREEK ABOVE PAROWAN CREEK, NEAR PAROWAN, UT (LAT 37°47'35", LONG 112°48'55")									
OCT , 1981					APR , 1982				
07...	1115	4.7	9.0	310	13...	1220	6.1	11.0	350
NOV					MAY				
16...	1115	4.3	5.0	320	17...	1240	7.0	9.5	315
DEC					JUN				
15...	1150	4.4	4.0	320	21...	1055	9.7	12.0	230
JAN , 1982					AUG				
20...	1220	4.7	1.5	325	02...	1115	6.8	12.5	255
FEB					26...	1000	6.2	10.5	285
25...	1055	4.5	2.5	335					
MAR									
31...	1200	4.4	7.0	350					
10241600 SUMMIT CREEK NEAR SUMMIT, UT (LAT 37°47'13", LONG 112°54'56")									
OCT , 1981					MAR , 1982				
07...	1245	2.0	12.5	435	31...	1335	3.0	11.0	460
NOV					MAY				
16...	1305	2.0	7.0	440	17...	1355	16	10.0	315
DEC					JUN				
15...	1325	2.1	5.5	440	21...	1305	6.4	15.0	390
JAN , 1982					AUG				
20...	1410	1.8	2.5	445	02...	1235	2.2	18.5	370
FEB					26...	1125	2.4	15.5	390
25...	1220	1.6	5.5	460					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)
PAROWAN VALLEY									
10242000 COAL CREEK NEAR CEDAR CITY, UT (LAT 37°40'20", LONG 113°02'02")									
OCT , 1981					APR , 1982				
08...	1420	12	13.0	520	27...	0805	103	3.5	385
NOV					MAY				
12...	1230	13	8.0	540	03...	2030	524	7.5	270
DEC					11...	1510	127	7.5	380
16...	1435	9.8	3.5	580	18...	0810	190	5.0	300
JAN , 1982					JUN				
27...	1400	13	4.0	570	15...	1405	49	16.0	420
FEB					30...	1400	32	12.0	460
25...	1425	14	8.0	550	JUL				
MAR					14...	1140	20	16.0	485
22...	1430	26	6.0	560	AUG				
APR					19...	1420	15	22.5	495
06...	1430	17	7.0	630					
13...	0835	58	3.5	425					
RAFT RIVER BASIN									
13077700 GEORGE CREEK NEAR YOST, UT (LAT 41°55'07", LONG 113°28'51")									
OCT , 1981					MAY , 1982				
01...	1330	2.1	10.0	165	06...	1050	19	4.5	150
NOV					JUN				
12...	1310	2.2	7.5	170	23...	1250	51	9.0	90
JAN , 1982					AUG				
22...	1050	1.4	.5	200	05...	1200	5.4	13.0	100
MAR									
05...	1230	2.0	4.0	190					

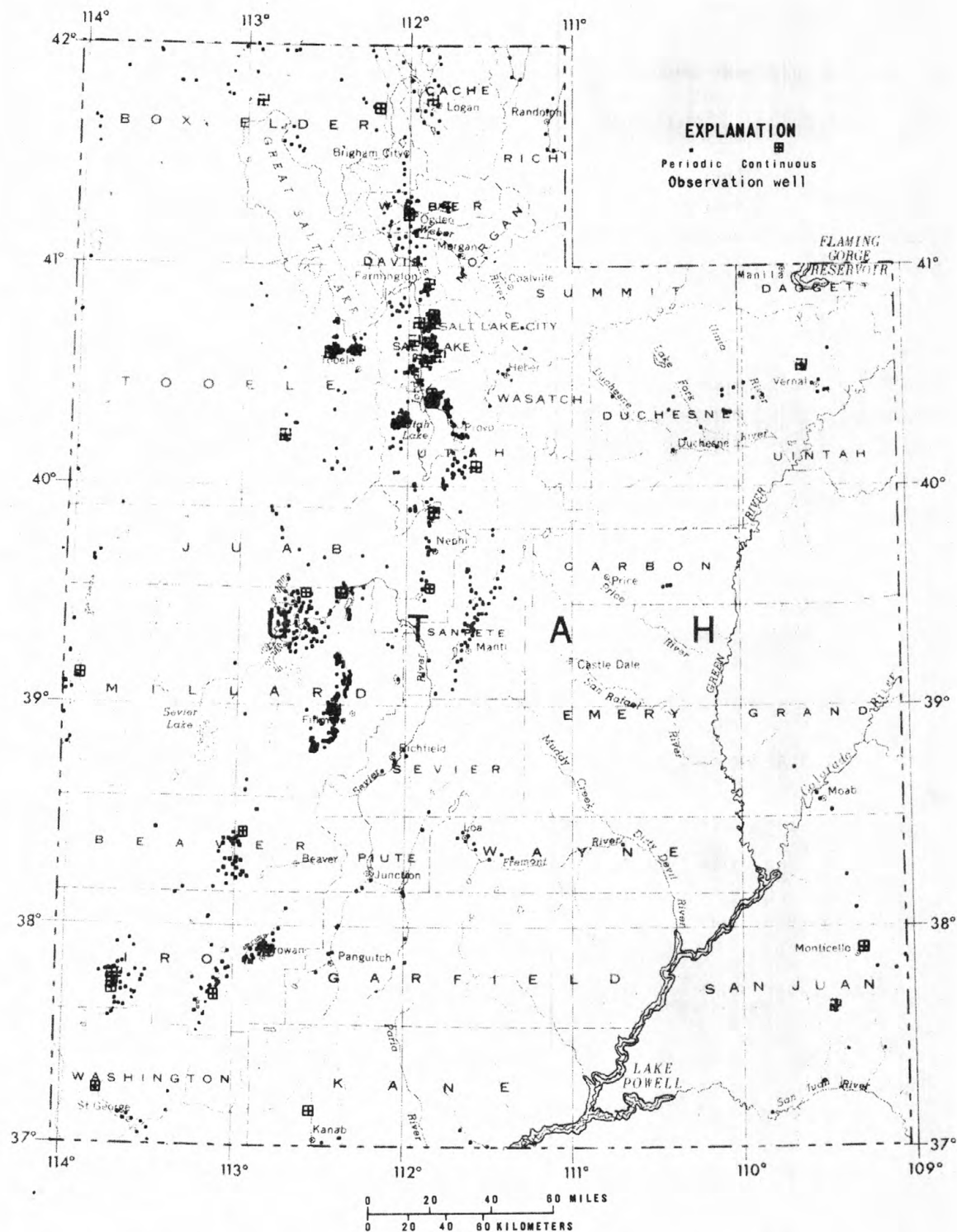


Figure 13.—Location of observation wells in Utah where data were obtained on ground-water levels.

GROUND-WATER LEVELS

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BEAVER COUNTY

382551112555101. LOCAL NUMBER, (C-27-10)25cbd-1.

LOCATION.--Lat 38°25'51", long 112°55'51", Hydrologic Unit 16030007.

Owner: Phillips Petroleum.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled well, diameter 6 in. (0.15 m), depth 400 ft (122 m).

DATUM.--Land-surface datum is 5,320 ft (1,622 m) above mean sea level. Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--April 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, 325.98 ft (99.4 m) below land-surface datum, July, 31, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	325.15	325.27	325.60	325.49	325.70	325.80	325.50	325.83	325.75	325.78	325.95	325.91
10	325.32	325.30	325.59	325.55	325.70	325.67	325.56	325.85	325.78	325.82	325.82	325.82
15	325.23	325.22	325.68	325.56	325.70	325.55	325.61	325.79	325.91	325.86	325.89	325.86
20	325.40	325.32	325.69	325.54	325.70	325.83	325.67	325.86	325.83	325.90	325.92	325.87
25	325.52	325.47	325.70	325.63	325.70	325.66	325.77	325.72	325.83	325.94	325.88	325.85
EOM	324.99	325.75	325.60	325.52	325.70	325.45	325.75	325.68	325.80	325.98	325.91	325.93

BOX ELDER COUNTY

414236112101201. LOCAL NUMBER, (B-11-3)10abb-4.

LOCATION.--Lat 41°42'36", long 112°10'12", Hydrologic Unit 16010204.

Owner: Rocky Mountain Packing Company.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in. (0.15 m), depth 705 ft (215 m), cased to 437 ft (133 m).

DATUM.--Land-surface datum is 4,318 ft (1,316 m) above mean sea level. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Record good.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 21.52 ft (6.56 m) below land-surface Sept. 29, 30, 1982; lowest, 24.43 ft (7.45 m) below land-surface datum, Mar. 5, 9, 10, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.54	23.61	23.81	23.82	24.19	24.43	24.03	23.49	22.78	22.44	22.23	21.93
10	23.52	23.68	23.83	24.09	24.29	24.43	23.94	23.25	22.78	22.44	22.18	21.84
15	23.44	23.63	23.86	24.08	24.32	24.22	23.75	23.25	22.67	22.35	22.12	21.78
20	23.55	23.71	23.86	24.00	24.35	24.24	23.78	23.15	22.64	22.34	22.12	21.76
25	23.52	23.65	23.92	24.13	24.38	24.26	23.65	23.08	22.59	22.34	22.02	21.76
EOM	23.56	23.70	23.82	24.20	24.40	24.10	23.55	22.92	22.46	22.31	21.93	21.52

414411112543701. LOCAL NUMBER, (B-12-9)30cda-1.

LOCATION.--Lat 41°44'11", long 112°54'37", Hydrologic Unit 16020309.

Owner: U.S. Geological Survey.

AQUIFER.--Basalt.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 in. (0.20 m), depth 162 ft (49.4 m), cased to 131 ft (39.9 m).

DATUM.--Land-surface datum is 4,239 ft (1,292 m) above mean sea level. Measuring point: Top of casing, 2.00 ft (0.61 m) above land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--August 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, 25.53 ft (7.78 m) below land-surface datum, Oct. 15, 20, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.51	25.46	25.41	25.36	25.35	25.29	25.20	25.15	25.11	25.23	25.25	25.33
10	25.51	25.46	25.41	25.43	25.33	25.27	25.21	25.10	25.12	25.24	25.29	25.33
15	25.53	25.44	25.40	25.43	25.33	25.22	25.18	25.10	25.12	25.25	25.31	25.35
20	25.53	25.44	25.38	25.42	25.33	25.24	25.18	25.10	25.13	25.27	25.33	25.40
25	25.43	25.42	25.39	25.37	25.35	25.22	25.14	25.10	25.20	25.27	25.33	25.41
EOM	25.49	25.43	25.36	25.35	25.33	25.19	25.15	25.10	25.20	25.27	25.33	25.45

GROUND-WATER LEVELS

CACHE COUNTY

41450111520001. LOCAL NUMBER, (A-12-1)29cab-1.

LOCATION.--Lat 41°45'01", long 111°52'00", Hydrologic Unit 16010203.

Owner: Edwin Gossner.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 2 in. (0.05 m), depth 43 ft (13.1 m), cased to 43 ft (13.1 m).

DATUM.--Land-surface datum is 4,442 ft (1,354 m) above mean sea level. Measuring point: Top of coupling, 0.30 ft (0.09 m) above land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--August 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 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.40	18.90	18.40	17.80	17.20	17.40	17.40	18.00	18.40	18.90	20.00	21.00
10	18.40	18.80	18.40	17.50	16.60	17.20	17.00	18.10	18.40	18.50	19.00	21.00
15	18.50	18.90	18.50	17.40	16.50	17.20	17.60	18.30	18.60	19.00	19.50	21.40
20	18.70	18.40	18.50	17.60	17.00	17.10	17.60	18.00	18.10	18.60	19.40	21.50
25	18.80	18.50	18.50	17.20	17.10	17.40	17.90	18.20	18.00	18.90	19.50	21.60
EOM	18.60	18.30	19.40	17.20	17.30	17.30	17.90	18.40	18.50	20.00	20.90	21.40

DAVIS COUNTY

40544711524301. LOCAL NUMBER, (A-2-1)18abd-12.

LOCATION.--Lat 40°54'47", long 111°52'43". Hydrologic Unit 16020102.

Owner: T. Q. Williams.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Jetted unused artesian well, diameter 2 in. (0.05 m), depth 90 ft (27.4 m), cased to 90 ft (27.4 m).

DATUM.--Land-surface datum is 4,285 ft (1,306 m) above mean sea level. Measuring point: Top of recorder shelter support, 2.40 ft (0.73 m) above land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--May 1938 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 31.60 ft (9.63 m) above land-surface datum, June 9, 1944; lowest, 2.70 ft (0.82 m) above land-surface datum, Aug. 5, 1961.

WATER-LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.20	13.50	16.80	14.00	16.20	15.80	14.50	14.60	15.20	15.70	17.00	15.50
10	13.80	13.50	17.00	15.00	16.20	15.80	12.00	15.00	15.10	16.40	17.30	15.30
15	13.40	13.80	17.20	15.50	16.00	15.50	11.50	15.20	15.30	15.70	17.70	17.80
20	13.50	14.50	17.20	16.50	15.40	15.50	13.00	15.00	15.40	16.00	17.80	16.60
25	13.50	15.40	14.00	16.00	15.50	15.50	14.80	15.30	15.30	16.50	17.50	15.90
EOM	13.60	16.50	14.80	16.30	15.60	15.00	14.80	15.20	15.50	17.00	15.80	16.60

IRON COUNTY

375241112471001. LOCAL NUMBER, (C-34-8)5bca-1.

LOCATION.--Lat 37°52'41", long 112°47'10", Hydrologic Unit 16030006.

Owner: Paragonah Canal Company.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in. (0.30 m), depth 420 ft (128 m).

DATUM.--Land-surface datum is 5,802 ft (1,768 m) above mean sea level. Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--September 1935 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 13.45 ft (4.10 m) below land-surface datum, June 26, 1949; lowest, 42.40 ft (12.9 m) below land-surface datum, Sept. 7, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	41.88	41.47	40.74	40.19	39.80	39.44	39.22	39.12	39.75	40.39	40.98	41.21
10	41.84	41.31	40.65	40.12	39.68	39.38	39.22	39.19	39.88	40.55	41.02	41.21
15	41.83	41.17	40.58	40.04	39.62	39.29	38.98	39.26	40.01	40.66	41.11	41.24
20	41.82	41.03	40.53	39.94	39.59	39.31	39.04	39.35	40.15	40.79	41.18	41.25
25	41.75	40.87	40.44	39.88	39.53	39.27	39.00	39.48	40.25	40.91	41.20	41.20
EOM	41.63	40.86	40.30	39.76	39.51	39.26	39.05	39.62	40.30	40.97	41.20	41.17

GROUND-WATER LEVELS

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IRON COUNTY--Continued

374524113421501. LOCAL NUMBER, (C-35-17)13bdc-1.

LOCATION.--Lat 37°45'24", long 113°42'15", Hydrologic Unit 16030006.

Owner: Austin D. Moyle.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 16 in. (0.41 m), depth 100 ft (30.5 m), perforated 26-35 ft (7.9-10.7 m), 60-70 ft (18.3-21.3 m), 90-100 ft (27.4-30.5 m).

DATUM.--Land-surface datum is 5,164.80 ft (1,574 m) above mean sea level. Measuring point: Top of tie, at land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--May 1937 to December 1942, August 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 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	71.29	70.71	70.28	69.91	64.70	64.51	64.53	64.47	73.05	74.80	77.62	76.81
10	71.13	70.62	70.21	69.90	64.59	64.64	64.73	64.23	73.49	75.53	77.72	75.86
15	71.07	70.54	70.14	69.85	64.68	64.20	64.38	64.48	73.79	76.16	78.03	75.04
20	70.97	70.47	70.09	69.74	64.91	64.66	64.69	64.56	73.54	76.70	78.34	74.51
25	70.86	70.37	70.04	69.77	64.65	64.60	64.44	64.38	72.80	77.18	78.73	74.28
EOM	70.82	70.35	69.96	64.74	64.74	64.61	64.48	71.70	72.72	77.56	79.03	73.95

374132113063601. LOCAL NUMBER, (C-36-11)8aab-1.

LOCATION.--Lat 37°41'32", long 113°06'36", Hydrologic Unit 16030006.

Owner: Aril Stratton.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in. (0.20 m), depth 220 ft (67.1 m).

DATUM.--Land-surface datum is 5,563 ft (1,696 m) above mean sea level. Measuring point: Top of casing, 3.50 ft (1.07 m) above land-surface datum.

REMARKS.--Record fair.

PERIOD OF RECORD.--September 1935 to December 1943, March 1945 to March 1973, April 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 45.67 ft (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 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	76.47	71.81	68.80	66.31	65.02	63.58	61.99	61.50	67.70	73.94	76.50	81.26
10	75.63	71.25	68.35	66.16	64.51	63.23	62.01	62.14	68.51	75.26	76.82	81.37
15	74.65	70.74	67.93	65.91	64.42	62.86	61.82	62.90	69.28	76.04	78.63	78.26
20	73.79	70.21	67.53	65.44	64.20	62.75	61.82	64.78	69.71	76.99	79.55	77.38
25	73.14	69.62	67.19	65.37	63.98	62.42	61.48	63.70	70.97	77.63	79.30	76.62
EOM	72.53	69.30	66.70	64.99	63.87	62.18	61.49	66.07	72.44	76.20	80.35	75.19

374053113415101. LOCAL NUMBER, (C-36-16)6cbc-1.

LOCATION.--Lat 37°40'53", long 113°41'51", Hydrologic Unit 16030006.

Owner: Robert Holt.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16 in (0.41 m), depth 270 ft (82.3 m), perforated 81-85 ft (24.7-25.9 m), 95-100 ft (29.0-30.5 m), 114-120 ft (34.7-36.6 m), 144-147 ft (43.9-44.8 m), 156-162 ft (47.5-49.4 m), 182-184 ft (55.5-56.1 m), 188-193 ft (57.3-58.8 m), 198-202 ft (60.4-61.6 m), 218-222 ft (66.4-67.7 m), 227-232 ft (69.2-70.7 m), 249-252 ft (75.9-76.8 m), 257-259 ft (78.3-78.9 m), 263-267 ft (80.2-81.4 m).

DATUM.--Land-surface datum is 5,210.67 ft (1,588 m) above mean sea level. Measuring point: Bottom lip of access pipe, at land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--December 1951 to December 1953, April 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 73.35 ft (22.36 m) below land-surface datum, Apr. 4, 1952; lowest, 139.86 ft (42.63 m) below land-surface datum, Aug. 31, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	136.64	136.74	136.87	136.54	135.85	135.75	132.83	133.28	136.05	136.80	138.81	139.73
10	136.60	136.77	136.84	136.49	135.77	135.44	132.48	133.72	136.30	137.11	138.81	139.13
15	136.67	136.76	136.82	136.33	135.69	135.13	132.34	134.48	136.41	137.44	138.85	138.72
20	136.66	136.79	136.76	136.22	135.45	134.92	132.29	135.03	135.94	137.73	139.39	138.48
25	136.65	136.79	136.72	136.13	135.14	134.30	132.21	135.50	135.74	138.05	139.55	138.26
EOM	136.76	136.88	136.62	135.93	135.01	133.56	132.47	135.45	136.00	138.37	139.86	137.98

GROUND-WATER LEVELS

IRON COUNTY--Continued

374306113422501. LOCAL NUMBER, (C-36-17)1acc-1.

LOCATION.--Lat 37°43'06", long 113°42'25", Hydrologic Unit 16030006.

Owner: Sam Arentz.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 4 in. (0.10 m), depth 200 ft (61.0 m), cased to 200 ft (61.0 m).

DATUM.--Land-surface datum is 5,208.41 ft (1,588 m) above mean sea level. Measuring point: Top of casing, 1.50 ft (0.46 m) above land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--April 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, 147.67 ft (45.0 m) below land-surface datum, Sept. 5, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	146.22	146.80	146.99	146.78	146.09	144.30	142.69	143.20	144.46	144.85	146.87	147.67
10	146.35	146.87	147.00	146.76	146.18	143.82	142.81	143.22	144.76	145.32	146.86	147.44
15	146.48	146.94	147.00	146.65	145.80	143.38	142.79	143.55	144.90	145.87	146.91	147.20
20	146.57	146.93	146.98	146.50	145.30	143.03	142.82	144.10	144.93	146.46	147.11	146.95
25	146.76	146.97	146.92	146.47	144.90	142.66	142.69	144.64	144.65	146.67	147.36	146.67
EOM	146.83	147.00	146.88	146.23	144.66	142.71	142.90	144.45	144.51	146.88	147.52	146.58

373643113415301. LOCAL NUMBER, (C-36-17)36add-1.

LOCATION.--Lat 37°36'43", long 113°41'53", Hydrologic Unit 16030006.

Owner: Sherwood Bracken.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 14 in. (0.36 m), depth 202 ft (61.6 m).

DATUM.--Land-surface datum is 5,269.89 ft (1,606 m) above mean sea level. Measuring point: Top of casing, 0.50 ft (0.15 m) above land-surface datum.

REMARKS.--There are several nearby pumped wells. Record good.

PERIOD OF RECORD.--July 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 112.40 ft (34.3 m) below land-surface datum, Mar. 24, 1950; lowest, 183.94 ft (56.1 m) below land-surface datum, Sept. 10, 1977.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	163.02	160.27	157.56	154.29	151.90	149.92	148.72	149.92	155.37	161.88	168.56	168.50
10	162.33	159.81	157.00	153.96	151.16	149.57	148.84	150.49	156.18	166.91	170.67	167.50
15	162.07	159.36	156.46	153.54	150.95	149.13	148.54	150.32	155.88	168.46	169.63	166.83
20	161.63	158.90	155.85	152.66	150.69	149.33	148.73	152.17	155.95	169.55	172.34	166.34
25	161.22	158.30	155.48	152.59	150.27	149.02	148.42	152.76	159.12	168.22	171.55	165.96
EOM	160.98	158.14	154.78	152.00	150.22	148.82	149.18	153.61	162.22	168.22	169.43	165.60

JUAB COUNTY

393143111523301. LOCAL NUMBER, (C-15-1)12aba-1.

LOCATION.--Lat 39°31'43", long 111°52'33", Hydrologic Unit 16030005.

Owner: R. C. Mangelson.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled stock artesian well, diameter 6 in. (0.15 m), depth 117 ft (36 m), cased to 117 ft (36 m).

DATUM.--Land-surface datum is 5,196.90 ft (1,584 m) above mean sea level. Measuring point: Top of casing, 1.50 ft (0.46 m) above land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--August 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 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	55.72	55.83	55.98	56.06	56.15	56.13	56.08	56.05	56.45	57.96	58.70	58.37
10	55.72	55.88	56.00	56.13	56.14	56.13	56.07	55.95	57.04	58.12	58.80	58.28
15	55.66	55.91	56.02	56.13	56.13	56.06	56.10	55.88	57.37	58.28	58.89	58.22
20	55.74	55.92	56.03	56.08	56.12	56.14	56.10	55.81	57.17	58.51	58.96	58.15
25	55.76	55.94	56.08	56.18	56.11	56.10	56.05	55.72	57.38	58.53	58.79	58.09
EOM	55.86	55.96	56.06	56.16	56.11	56.09	56.04	56.30	57.66	58.54	58.44	57.97

GROUND-WATER LEVELS

471

JUAB COUNTY--Continued

395242111502701. LOCAL NUMBER, (D-11-1)8aad-1.

LOCATION.--Lat 39°52'42", long 111°50'27", Hydrologic Unit 16020201.

Owner: Orvil Andrews and others.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Jetted irrigation and stock artesian well, diameter 6 in. (0.15 m), depth 100 ft (30.5 m), cased to 100 ft (30.5 m).

DATUM.--Land-surface datum is 4,929.30 ft (1,502 m) above mean sea level. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--January 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 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.16	11.48	9.65	8.26	7.40	6.43	5.27	4.31	7.02	10.74	8.22	12.75
10	13.78	11.15	9.40	8.20	7.26	6.19	5.15	4.00	7.36	11.38	9.43	12.60
15	13.24	10.77	9.15	8.11	7.14	5.86	4.95	3.81	7.65	11.95	11.53	10.16
20	12.80	10.50	8.90	7.73	6.97	5.92	4.96	4.30	7.58	11.78	12.87	9.04
25	12.33	10.15	8.65	7.78	6.74	5.63	4.65	5.70	7.68	10.08	13.89	8.21
EOM	12.00	9.90	8.40	7.55	6.65	5.42	4.47	6.44	9.07	8.32	12.76	7.55

KANE COUNTY

370901112335001. LOCAL NUMBER, (C-42-6)19baa-1.

LOCATION.--Lat 37°09'01", long 112°33'50", Hydrologic Unit 15010003.

Owner: Kanab City.

AQUIFER.--Navajo Sandstone.

WELL CHARACTERISTICS.--Drilled well, diameter 18 in. (0.46 m), depth 700 ft (213 m).

DATUM.--Land-surface datum is 5,620 ft (1,713 m) above mean sea level. Measuring point: Top of casing, 1.60 ft (0.49 m) above land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--February 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 164.11 ft (50.0 m) below land-surface datum, Sept. 30, 1982; lowest, 167.40 ft (51.0 m) below land-surface datum, Apr. 8, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	165.08	165.02	165.09	164.65	164.70	164.51	164.53	164.47	164.44	164.27	164.38	164.31
10	164.99	165.15	164.98	164.93	164.59	164.64	164.73	164.23	164.62	164.36	164.29	164.27
15	165.04	165.01	164.83	164.79	164.68	164.20	164.38	164.48	164.54	164.24	164.33	164.23
20	165.23	164.99	164.73	164.48	164.91	164.66	164.69	164.68	164.47	164.32	164.43	164.19
25	164.89	164.54	164.74	164.97	164.65	164.60	164.44	164.50	164.41	164.36	164.30	164.15
EOM	165.39	164.94	164.65	164.74	164.74	164.61	164.48	164.54	164.19	164.31	164.31	164.11

MILLARD COUNTY

393046112231301. LOCAL NUMBER, (C-15-5)15dad-1.

LOCATION.--Lat 39°30'46", long 112°23'13", Hydrologic Unit 16030005.

Owner: Anaconda Copper Co.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in. (0.30 m), depth 1,190 ft (363 m), cased to 1,115 ft (340 m), perforated 860-1,050 ft (262-320 m).

DATUM.--Land-surface datum is 4,780 ft (1,457 m) above mean sea level. Measuring point: Top of 12-in. (0.3- m) casing, 2.00 ft (0.61 m) above land-surface datum.

REMARKS.--Record fair.

PERIOD OF RECORD.--January 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 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	110.01	110.14	109.69	108.61	108.53	108.19	107.92	107.63	107.57	107.56	107.39	107.47
10	109.99	110.11	109.63	108.59	108.42	108.13	107.84	107.58	107.60	107.62	107.40	107.38
15	110.22	109.98	109.34	108.70	108.22	108.06	107.66	107.71	107.62	107.50	107.42	107.47
20	110.11	109.93	109.30	108.33	108.34	108.00	107.95	107.50	107.59	107.68	107.44	107.39
25	109.92	109.76	109.27	108.61	108.29	107.93	107.63	107.52	107.59	107.55	107.46	107.47
EOM	110.30	109.75	108.83	108.53	108.26	107.84	107.74	107.55	107.60	107.37	107.53	107.25

GROUND-WATER LEVELS

MILLARD COUNTY--Continued

393020112362201. LOCAL NUMBER, (C-15-7)23bac-1.

LOCATION.--Lat 39°30'20", long 112°36'22", Hydrologic Unit 16030007.

Owner: U.S. Geological Survey.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in. (0.15 m), depth 182 ft (55.5 m).

DATUM.--Land-surface datum is 4,630 ft (1,411 m) above mean sea level. Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--August 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.13 ft (3.39 m) below land-surface datum, Apr. 25, 26, 1982; lowest, 15.91 ft (4.85 m) below land-surface datum, Oct. 16, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.25	12.16	12.06	11.80	11.48	11.27	11.25	11.20	11.41	11.70	11.91	11.85
10	12.22	12.17	12.02	11.74	11.43	11.30	11.22	11.20	11.49	11.77	11.89	11.80
15	12.23	12.13	11.95	11.69	11.38	11.24	11.17	11.28	11.52	11.78	11.89	11.76
20	12.25	12.13	11.96	11.64	11.32	11.36	11.22	11.35	11.57	11.84	11.91	11.78
25	12.21	12.07	11.90	11.59	11.27	11.33	11.13	11.37	11.61	11.89	11.88	11.72
EOM	12.25	12.09	11.85	11.53	11.26	11.28	11.17	11.39	11.64	11.93	11.85	11.50

390758113565501. LOCAL NUMBER, (C-19-19)26aba-1.

LOCATION.--Lat 39°07'58", long 113°56'55", Hydrologic Unit 16020301.

Owner: Eskdale town.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in. (0.41 m), depth unknown.

DATUM.--Land-surface datum is 4,948 ft (1,508 m) above mean sea level. Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--April 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, 20.81 ft (6.34 m) below land-surface datum, Sept. 21-24, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.72	20.46	20.09	19.77	19.53	19.33	19.00	18.98	19.35	19.65	19.99	20.55
10	20.76	20.39	20.04	19.74	19.50	19.30	19.08	19.00	19.40	19.70	20.15	20.69
15	20.80	20.32	19.98	19.70	19.45	19.25	19.12	19.10	19.45	19.54	20.26	20.77
20	20.73	20.25	19.94	19.63	19.43	19.23	19.14	19.24	19.50	19.27	20.06	20.80
25	20.63	20.20	19.89	19.60	19.39	19.19	19.13	19.37	19.55	19.39	20.31	20.80
EOM	20.54	20.15	19.82	19.56	19.37	19.15	19.15	19.47	19.60	19.69	20.15	20.74

385844112245801. LOCAL NUMBER, (C-21-5)21aba-1.

LOCATION.--Lat 38°58'44", long 112°24'58", Hydrologic Unit 16030005.

Owner: Delbert Crapo.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in. (0.15 m), depth 246 ft (75.0 m), cased to 220 ft (67.1 m).

DATUM.--Land-surface datum is 4,744.44 ft (1,446 m) above mean sea level. Measuring point: Top of casing, 0.50 ft (0.15 m) above land-surface datum.

REMARKS.--Record fair.

PERIOD OF RECORD.--May 1929 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.96 ft (0.60 m) above land-surface datum, Feb. 24, 1949; lowest, 83.02 ft (25.3 m) below land-surface datum, July 20, 1965.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	54.80	51.34	48.70	45.88	44.05	42.31	41.00	51.93	57.31	62.54	60.79	57.13
10	54.00	50.86	48.29	45.66	43.60	41.89	41.12	49.47	57.70	62.91	60.67	55.60
15	53.40	50.41	47.77	45.36	43.32	41.47	41.83	52.00	55.89	63.00	61.75	54.40
20	52.90	49.98	47.27	44.89	43.13	41.39	44.19	53.60	56.85	62.50	63.00	53.72
25	52.36	49.52	46.86	44.70	42.74	41.05	45.16	55.20	59.20	62.90	63.50	53.20
EOM	51.93	49.20	46.29	44.27	42.64	40.94	49.24	54.00	61.70	60.37	59.27	52.20

GROUND-WATER LEVELS

473

SALT LAKE COUNTY

404403111562001. LOCAL NUMBER, (C-1-1)15bdd-11.

LOCATION.--Lat 40°44'03", long 111°56'20", Hydrologic Unit 16020204.

Owner: Souvall Brothers.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Jetted artesian well, diameter 2 in. (0.05 m), depth 455 ft (139 m).

DATUM.--Land-surface datum is 4,230 ft (1,289 m) above mean sea level. Measuring point: Bottom of recorder shelter, 0.50 ft (0.15 m) above land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--December 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 24.00 ft (7.32 m) above land-surface datum, May 25, 1973; lowest, 8.00 ft (2.44 m) above land-surface datum, Sept. 20, 1964, July 20, 25, 1970, Aug. 10, 15, 1970.

WATER LEVEL, IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.30	14.30	14.70	15.00	14.90	15.10	15.30	15.70	15.10	13.10	13.50	13.00
10	12.80	14.40	14.90	14.80	14.90	15.00	15.60	15.30	14.50	13.20	13.60	9.80
15	13.30	14.30	14.70	15.00	15.00	15.00	15.70	15.50	14.40	13.10	13.40	9.90
20	13.70	14.40	14.70	14.90	15.10	15.10	15.70	15.40	13.90	13.20	13.70	10.50
25	13.80	14.50	14.90	15.00	15.10	15.50	15.80	15.20	13.30	13.30	13.90	10.70
EOM	13.90	14.60	14.70	14.90	15.00	15.40	15.70	15.10	13.30	13.00	13.90	11.40

403916111575901. LOCAL NUMBER, (C-2-1)9ccc-1.

LOCATION.--Lat 40°39'16", long 111°57'59", Hydrologic Unit 16020204.

Owner: Salt Lake County Conservancy District.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled artesian unused public supply well, diameter 16 in. (0.41 m), depth 795 ft (242 m), perforated 187-372 ft (57-113 m).

DATUM.--Land-surface datum is 4,461 ft (1,360 m) above mean sea level. Measuring point: Top of casing, 2.10 ft (0.64 m) above land-surface datum.

REMARKS.--Record poor.

PERIOD OF RECORD.--April 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, 86.80 ft (26.5 m) below land-surface datum, July 25, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	81.33	81.33	82.38	83.38	83.56	79.05	81.13	84.46	85.83	86.22	86.55	85.67
10	81.11	81.50	82.55	83.63	83.68	78.05	81.66	84.73	86.02	86.28	86.45	85.66
15	81.00	81.59	82.60	83.84	83.89	77.66	82.03	85.04	85.68	86.45	86.44	85.73
20	80.99	81.78	82.77	83.59	82.70	78.47	82.87	85.36	85.53	86.69	86.41	85.79
25	81.06	81.85	83.14	83.54	81.04	79.34	83.45	85.52	85.74	86.80	86.40	85.70
EOM	81.30	82.22	83.45	83.41	80.24	80.54	84.02	85.66	85.99	86.50	85.88	85.60

404531111510101. LOCAL NUMBER, (D-1-1)4cbc-1.

LOCATION.--Lat 40°45'31", long 111°51'01", Hydrologic Unit 16020204.

Owner: University of Utah.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 20 in. (0.51 m), depth 500 ft (152 m), cased to 138 ft (42 m).

DATUM.--Land-surface datum is 4,606.34 ft (1,404 m) above mean sea level. Measuring point: Top of casing, 1 ft (0.30 m) above land-surface datum.

REMARKS.--Record good.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 99.14 ft (30.22 m) below land-surface datum, Sept. 26, 27, 1982; lowest, 168.73 ft (51.43 m) below land-surface datum, Oct. 11, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	159.74	153.01	147.92	141.84	137.90	134.94	132.15	136.62	142.65	150.59	161.48	162.87
10	158.65	152.75	146.76	141.13	137.12	134.39	131.87	137.60	144.92	149.94	162.73	162.45
15	156.46	152.48	145.67	140.46	136.63	133.85	132.89	138.78	146.04	153.23	160.05	159.75
20	154.54	151.93	144.64	139.55	136.19	133.62	133.58	138.40	148.77	154.47	162.77	158.47
25	154.54	151.15	143.79	139.04	135.62	133.03	135.06	140.42	149.62	155.84	163.45	158.97
EOM	154.13	149.43	142.57	138.33	135.37	132.53	136.89	141.13	151.01	156.45	162.01	157.17

GROUND-WATER LEVELS

SALT LAKE COUNTY--Continued

404356111503901. LOCAL NUMBER, (D-1-1)16caa-1.

LOCATION.--Lat 40°43'56", long 111°50'39", Hydrologic Unit 16020204.

Owner: Salt Lake City Corporation.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 20 in. (0.51 m), depth 502 ft (153 m), cased to 502 ft (153 m), perforated 90-486 ft (27-148 m).

DATUM.--Land-surface datum is 4,489.69 ft (1,368 m) above mean sea level. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--September 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 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	58.04	57.92	57.95	57.99	57.96	57.65	56.97	55.91	54.96	54.66	54.59	54.82
10	58.01	57.93	57.95	57.88	57.85	57.57	56.78	55.69	54.88	54.60	54.61	54.82
15	58.01	57.94	57.95	57.92	57.92	57.46	56.74	55.50	54.82	54.56	54.66	54.78
20	58.00	57.95	57.96	57.96	57.91	57.40	56.57	55.41	54.75	54.56	54.72	54.76
25	57.98	57.95	57.95	57.97	57.81	57.33	56.39	55.22	54.72	54.56	54.74	54.75
EOM	57.95	57.95	57.98	57.95	57.75	57.13	56.16	55.06	54.68	54.55	54.78	54.57

403746111522001. LOCAL NUMBER, (D-2-1)19dad-1.

LOCATION.--Lat 40°37'46", long 111°52'20", Hydrologic Unit 16020204.

Owner: Utah Department of Transportation.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in. (0.15 m), depth 35 ft (10.7 m), cased to 35 ft (10.7 m).

DATUM.--Land-surface datum is 4,400 ft (1,340 m) above mean sea level. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Record good. Well dry from December to June 1982.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 26.46 ft (8.06 m) below land-surface datum, Aug. 16, 1980; lowest, 36.42 ft (11.10 m) below land-surface datum, July 11, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	33.13	35.22								---	34.06	32.77
10	33.50	35.52								---	33.56	32.39
15	33.93	35.82								35.80	33.29	32.48
20	34.28	36.13								35.36	33.25	32.78
25	34.59	---								34.93	32.79	33.07
EOM	35.00	---								34.49	32.74	32.23

403452111484301. LOCAL NUMBER, (D-3-1)2ccc-1.

LOCATION.--Lat 40°34'52", long 111°48'43", Hydrologic Unit 16020204.

Owner: Metropolitan Water District.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 24 in. (0.61 m), depth 1,007 ft (307 m), perforated 525-990 ft (160-302 m).

DATUM.--Land-surface datum is 5,000 ft (1,524 m) above mean sea level. Measuring point: Top of flange, at land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--March 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 515.66 ft (157 m) below land-surface datum, Nov. 25, 1958; lowest, 564.51 ft (172 m) below land-surface datum, Oct. 1, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	564.42	560.49	557.58	555.18	554.00	553.19	554.25	556.32	556.92	561.56	562.12	562.24
10	563.52	560.07	557.06	555.16	553.56	553.19	554.68	556.42	557.45	561.60	562.12	561.43
15	563.33	559.45	556.57	554.94	553.37	552.84	554.49	556.71	558.07	562.00	562.12	560.28
20	562.41	559.02	556.13	554.29	553.48	553.35	555.06	556.98	558.83	562.11	562.12	559.27
25	561.59	558.32	555.97	554.35	553.25	553.48	555.15	556.86	559.56	562.11	562.12	558.38
EOM	561.40	558.09	555.43	554.08	553.31	553.88	555.80	556.82	560.46	562.12	562.16	557.35

GROUND-WATER LEVELS

475

SALT LAKE COUNTY--Continued

403330111531601. LOCAL NUMBER, (D-3-1)18cba-1.

LOCATION.--Lat 40°33'30", long 111°53'16", Hydrologic Unit 16020204.

Owner: Sandy City Corporation.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 16 in. (0.41 m) to 350 ft (107 m), 12 in. (0.30 m) from 350-741 ft (107-226 m), 10 in. (0.25 m) from 741-1,150 ft (226-351 m), perforated 400-1,150 ft (122-351 m).

DATUM.--Land-surface datum is 4,414 ft (1,345 m) above mean sea level. Measuring point: Top of casing, 1.15 ft (0.35 m) above land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--July 1964 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 23.67 ft (7.21 m) below land-surface datum, July 5, 1967; lowest, 83.20 ft (25.4 m) below land-surface datum, Aug. 6, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	79.64	76.09	75.67	75.30	74.91	74.96	75.51	77.07	78.04	80.76	81.99	81.92
10	78.52	76.10	75.65	75.39	74.83	75.13	75.71	77.40	79.01	79.87	82.34	80.98
15	78.16	76.11	75.50	74.98	74.78	75.12	75.62	77.57	79.16	81.25	82.32	78.72
20	77.64	76.11	75.39	74.91	74.91	75.25	76.13	77.88	79.98	82.14	82.49	78.36
25	77.23	75.73	75.41	74.95	74.93	75.34	76.43	78.49	80.15	82.24	82.61	78.41
EOM	76.08	75.63	75.28	74.88	75.03	75.43	76.73	78.08	80.82	81.07	81.35	76.88

SAN JUAN COUNTY

385802109191301. LOCAL NUMBER, (D-33-24)30dab-1.

LOCATION.--Lat 38°58'02", long 109°19'13", Hydrologic Unit 14080203.

Owner: A. E. C.

AQUIFER.--Sandstone.

WELL CHARACTERISTICS.--Drilled unused well, diameter 10 in. (0.25 m), depth 319 ft (97.2 m).

DATUM.--Land-surface datum is 6,916 ft (2,108 m) above mean sea level. Measuring Point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--July 1955 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 163.20 ft (49.7 m) below land-surface datum, May 20, 1975; lowest, 202.89 ft (61.8 m) below land-surface datum, July 25, 1958.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	167.72	167.74	167.57	166.83	166.61	166.33	166.09	165.96	166.11	167.00	168.08	168.35
10	167.66	167.85	167.50	167.16	166.57	166.45	166.18	165.77	166.52	167.29	168.13	168.08
15	167.61	167.69	167.25	166.96	166.62	166.05	165.90	165.92	166.55	167.33	168.21	168.15
20	167.83	167.64	167.19	166.78	166.82	166.24	166.14	165.95	166.81	167.55	168.40	168.19
25	167.50	167.16	167.07	167.07	166.62	166.26	166.00	165.97	166.97	167.79	168.29	168.19
EOM	167.91	167.30	166.91	166.71	166.67	166.20	166.00	166.20	167.02	167.99	168.30	167.83

373830109283201. LOCAL NUMBER, (D-36-22)22daa-1.

LOCATION.--Lat 37°38'30", long 109°28'32", Hydrologic Unit 14080201.

Owner: Joseph L. Nielson.

AQUIFER.--

WELL CHARACTERISTICS.--Drilled stock artesian well, diameter 7 in. (0.18 m), depth 140 ft (42.7 m).

DATUM.--Land-surface datum is 6,200 ft (1,890 m) above mean sea level. Measuring point: Top of recorder platform, 3.00 ft (0.91 m) above land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--October 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 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	43.67	44.19	44.75	44.84	45.54	45.96	46.55	47.07	46.58	45.86	45.79	45.79
10	43.66	44.42	44.80	45.37	45.58	46.27	46.87	46.93	46.68	45.98	45.65	45.42
15	43.73	44.32	44.67	45.24	45.81	45.89	46.57	47.12	46.46	45.72	45.73	45.60
20	44.05	44.42	44.73	45.21	46.16	46.35	47.02	47.14	46.36	45.79	45.84	45.65
25	43.74	43.94	44.73	45.68	46.07	46.47	46.96	46.94	46.24	45.77	45.71	45.67
EOM	44.29	44.28	44.75	45.44	46.24	46.60	47.06	46.92	46.02	45.76	45.75	45.36

GROUND-WATER LEVELS

TOOELE COUNTY

403628112174701. LOCAL NUMBER, (C-2-4)33aac-1.

LOCATION.--Lat 40°36'28", long 112°17'47", Hydrologic Unit 16020304.

Owner: J. E. England.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Jetted unused observation artesian well, diameter 4 in. (0.10 m), depth 182 ft (55.5 m).

DATUM.--Land-surface datum is 4,393.88 ft (1,339 m) above mean sea level. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--October 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 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.56	15.65	14.80	14.23	14.00	12.68	12.44	14.13	15.85	17.40	17.75	18.26
10	17.08	15.43	14.66	14.27	13.75	12.65	12.45	14.73	15.98	17.10	18.15	18.23
15	16.70	15.25	14.54	14.20	13.50	12.54	12.39	15.21	16.47	17.00	18.04	17.54
20	16.43	15.09	14.43	14.07	13.25	12.63	12.80	14.53	16.51	17.15	18.32	17.17
25	16.05	14.97	14.30	14.03	13.00	12.44	13.05	15.78	16.70	17.67	18.32	16.87
EOM	15.88	14.91	14.23	14.00	12.88	12.44	13.18	15.72	17.29	17.69	18.08	16.53

403539112282901. LOCAL NUMBER, (C-2-6)36dcc-1.

LOCATION.--Lat 40°35'39", long 112°28'29", Hydrologic Unit 16020304.

Owner: E. C. Walk.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in. (0.15 m), depth 176 ft (53.6 m), cased to 166 ft (50.6 m).

DATUM.--Land-surface datum is 4,373.70 ft (1,333 m) above mean sea level. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--June 1940 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 72.82 ft (22.2 m) below land-surface datum, June 11, 1952; lowest, 98.81 ft (30.1 m) below land-surface datum, Oct. 7, 1961.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	96.18	94.99	93.66	92.81	92.27	92.10	91.64	90.86	88.24	88.68	89.44	91.52
10	95.91	94.77	93.53	92.76	92.20	92.03	91.51	90.39	88.25	88.50	90.01	91.48
15	95.71	94.45	93.36	92.70	92.20	91.94	91.62	90.00	88.38	88.62	90.62	90.97
20	95.51	94.15	93.21	92.51	92.20	92.07	91.60	89.56	88.60	88.67	90.93	90.70
25	95.32	93.89	93.17	92.43	92.16	91.91	91.41	89.19	88.71	88.72	91.25	90.46
EOM	95.18	93.81	92.95	92.27	92.17	91.79	91.20	88.62	88.86	88.68	91.22	90.25

401312112442301. LOCAL NUMBER, (C-7-8)10cbd-1.

LOCATION.--Lat 40°13'12", long 112°44'23", Hydrologic Unit 16020305.

Owner: Dugway Proving Ground.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in. (0.20 m), depth 175 ft (53.3 m), cased to 175 ft (53.3 m), perforated 115-175 ft (35.1-53.3 m).

DATUM.--Land-surface datum is 4,850 ft (1,478 m) above mean sea level. Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--November 1946 to March 1947, January 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 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	82.92	82.53	82.16	81.99	81.79	81.41	81.09	81.08	80.98	81.51	82.14	82.44
10	82.85	82.48	82.10	82.03	81.61	81.30	81.10	81.01	81.08	81.54	82.09	82.43
15	82.78	82.41	82.03	81.84	81.56	81.16	81.06	81.03	81.24	81.61	82.14	82.39
20	82.72	82.35	81.95	81.67	81.53	81.33	81.13	81.02	81.25	81.73	82.31	82.41
25	82.67	82.28	81.98	81.72	81.43	81.15	81.01	80.92	81.37	81.87	82.31	82.39
EOM	82.60	82.22	81.99	81.62	81.43	81.14	81.06	80.88	81.40	81.95	82.40	82.31

GROUND-WATER LEVELS

477

UINTAH COUNTY

403158109372201. LOCAL NUMBER, (D-3-20)25abc-2.

LOCATION.--Lat 40°31'58", long 109°37'22", Hydrologic Unit 14060002.

Owner: H. T. Peltier.

AQUIFER.--Glacial outwash.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 12 in. (0.30 m), depth 43 ft (13.1 m), cased to 32 ft (9.75 m).

DATUM.--Land-surface datum is 5,992 ft (1,826 m) above mean sea level. Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--May 1965 to August 1966, March 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 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.96	5.72	6.00	6.25	6.50	5.18	5.74	6.21	5.54	3.42	4.64	5.57
10	6.02	5.80	6.04	6.30	6.55	5.35	5.80	6.11	4.56	4.02	4.84	5.50
15	5.58	5.85	6.08	6.33	6.60	5.05	5.88	6.12	1.92	4.36	4.79	4.77
20	5.16	5.88	6.12	6.38	6.20	5.19	5.98	5.96	2.53	4.63	5.17	5.12
25	5.60	5.93	6.16	6.43	5.80	5.53	6.06	5.95	4.14	4.52	5.03	5.43
EOM	5.55	5.97	6.20	6.47	5.35	5.61	6.14	5.59	1.88	4.15	5.32	4.52

UTAH COUNTY

401818112014501. LOCAL NUMBER, (C-6-2)14aba-1.

LOCATION.--Lat 40°18'18", long 112°01'45", Hydrologic Unit 16020201.

Owner: Coop Security Corp.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused irrigation artesian well, diameter 16 in. (0.41 m), depth 1,258 ft (383 m), cased to 1,254 ft (382 m).

DATUM.--Land-surface datum is 4,865.70 ft (1,483 m) above mean sea level. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--December 1954 to April 1955, March 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 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	119.79	119.14	118.81	118.32	118.26	118.09	118.00	118.24	120.48	120.12	121.12	122.27
10	119.59	119.10	118.71	118.46	118.21	118.10	118.02	119.28	119.89	119.67	121.39	121.49
15	119.48	118.99	118.63	118.36	118.20	117.98	117.92	120.17	120.22	119.27	121.25	120.85
20	119.43	118.96	118.54	118.27	118.18	118.05	118.03	120.75	120.83	119.21	120.77	120.32
25	119.29	118.84	118.53	118.37	118.16	118.02	117.92	121.17	121.22	120.10	120.92	119.85
EOM	119.28	118.86	118.35	118.30	118.16	117.99	117.96	121.24	120.75	120.86	121.74	119.33

402333111513401. LOCAL NUMBER, (D-5-1)8dcc-1.

LOCATION.--Lat 40°23'33", long 111°51'34", Hydrologic Unit 16020201.

Owner: Lehi Irrigation Co.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused irrigation artesian well, diameter 14 in. (0.36 m), depth 240 ft (73.1 m), cased to 240 ft (73.1 m), perforated at 85, 105, 165, and 200 ft (25.9, 32.0, 50.3, and 61.0 m).

DATUM.--Land-surface datum is 4,555.03 ft (1,388 m) above mean sea level. Measuring point: Top of recorder platform, 3.50 ft (1.07 m) above land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--September 1935 to December 1936, April 1947, March 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 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.92	10.80	9.50	9.19	9.02	8.70	8.10	10.00	11.82	13.35	11.57	13.51
10	12.60	10.71	9.45	9.38	9.14	8.63	7.99	9.50	12.40	10.55	12.70	11.60
15	12.10	10.49	9.38	9.47	8.94	8.35	8.79	10.25	13.40	11.53	13.11	10.20
20	11.77	10.34	9.12	9.11	9.12	8.45	8.78	10.24	14.92	13.11	13.18	9.30
25	11.24	9.61	9.44	9.35	8.90	8.41	9.68	10.92	14.19	13.01	13.06	8.40
EOM	11.10	9.61	9.22	9.14	8.79	8.05	10.83	11.77	15.17	10.46	12.79	7.50

GROUND-WATER LEVELS

UTAH COUNTY--Continued

402236111511501. LOCAL NUMBER, (D-5-1)20aba-1.

LOCATION.--Lat 40°22'36", long 111°51'15", Hydrologic Unit 16020201.

Owner: Jacob G. Cox.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Jetted irrigation artesian well, diameter 3 in. (0.08 m), depth 292 ft (89.0 m), cased to 292 ft (89.0 m).

DATUM.--Land-surface datum is 4,522.10 ft (1,378 m) above mean sea level. Measuring point: Top of 3-in. (0.08-m) elbow, 1.00 ft (0.30 m) above land-surface datum.

REMARKS.--Well is used in summer months for irrigation. Record fair.

PERIOD OF RECORD.--September 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 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	41.00	42.00	44.00	46.00	44.00	45.00	43.00	39.50	---	---	40.50
10	---	41.00	42.00	44.00	45.00	45.50	45.00	42.50	39.20	---	---	42.00
15	37.40	41.50	42.00	44.50	44.00	45.50	45.00	42.00	39.80	---	---	44.00
20	38.50	41.50	42.00	44.50	44.00	45.00	45.50	43.00	---	38.00	---	45.00
25	39.50	41.50	43.00	44.50	44.00	45.00	44.50	---	---	40.00	---	46.00
EOM	40.50	42.00	43.00	45.00	43.70	45.00	---	---	---	---	40.00	47.00

402234111511501. LOCAL NUMBER, (D-5-1)20aba-2.

LOCATION.--Lat 40°22'34", long 111°51'15", Hydrologic Unit 16020201.

Owner: Jacob G. Cox.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Jetted unused artesian well, diameter 2 to 2 1/2 in. (0.06 to 0.05 m), depth 154 ft (46.9 m), cased to 152 ft (46.3 m).

DATUM.--Land-surface datum is 4,522 ft (1,378 m) above mean sea level. Measuring point: Top of 3/4-in. (0.02-m) ell, 1.50 ft (0.46 m) above land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--September 1935 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 37.90 ft (11.6 m) above land-surface datum, Feb. 10, 1970; lowest, 4.70 ft (1.43 m) above land-surface datum, July 20, 25, Aug. 5, 1961.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.50	27.00	27.50	28.20	28.70	29.20	29.50	26.00	22.90	20.40	20.90	22.90
10	24.20	26.50	27.80	28.20	28.80	29.30	29.70	25.20	21.50	22.90	21.10	25.10
15	24.80	27.10	28.30	28.20	28.90	29.40	29.50	23.70	20.10	21.40	21.30	28.10
20	26.20	27.30	28.30	28.40	29.00	29.40	27.60	22.90	18.00	20.90	21.20	29.60
25	26.40	27.80	28.30	28.60	29.10	29.40	25.80	22.20	17.10	20.50	20.00	29.60
EOM	26.50	27.30	28.20	28.60	29.20	29.50	23.90	21.50	18.70	20.70	23.60	30.50

400510111352201. LOCAL NUMBER, (D-8-3)34bab-1.

LOCATION.--Lat 40°05'10", long 111°35'22", Hydrologic Unit 16020201.

Owner: Olson Brothers.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused irrigation well, diameter 16 in. (0.41 m), depth 470 ft (143 m), cased to 470 ft (143 m).

DATUM.--Land-surface datum is 4,800 ft (1,463 m) above mean sea level. Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.

REMARKS.--Record fair.

PERIOD OF RECORD.--November 1961 to April 1962, March 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 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	147.70	146.33	146.15	146.05	146.51	146.53	146.56	146.09	144.62	144.45	143.79	143.21
10	147.03	146.37	146.19	146.22	146.37	146.52	146.63	145.70	144.62	144.24	143.60	142.63
15	146.93	146.26	146.11	146.24	146.42	146.28	146.43	145.64	144.77	144.07	143.71	142.12
20	146.72	146.23	146.01	146.13	146.63	146.73	146.63	145.60	144.81	144.27	143.83	141.76
25	146.46	146.02	146.15	146.38	146.54	146.55	146.31	145.20	144.64	144.27	143.44	141.34
EOM	146.82	146.23	146.09	146.39	146.62	146.57	146.24	144.94	144.52	143.88	143.28	140.89

GROUND-WATER LEVELS

479

WASHINGTON COUNTY--Continued

371415113471501. LOCAL NUMBER, (C-41-17)7ada-1.

LOCATION.--Lat 37°14'15", long 113°47'15", Hydrologic Unit 15010008.

Owner: St. George City.

AQUIFER.--Navajo Sandstone.

WELL CHARACTERISTICS.--Diameter 12 in. (0.30 m), depth 375 ft (114 m), cased to 203 ft (61.9 m).

DATUM.--Land-surface datum is 3,600 ft (1,097 m) above mean sea level. Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--March 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, 229.53 ft (70.0 m) below land-surface Sept. 28, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	222.71	221.81	222.08	222.86	222.90	223.70	224.44	225.76	226.73	227.57	228.32	229.28
10	222.42	221.63	222.27	222.78	222.78	223.90	224.63	225.91	226.89	227.71	228.49	229.25
15	222.60	221.54	222.43	222.84	222.86	223.88	224.56	226.00	227.01	227.85	228.68	229.09
20	222.31	221.37	222.58	222.87	222.93	224.10	225.00	226.25	227.15	227.99	228.84	229.26
25	222.11	221.24	222.73	222.96	223.22	224.15	225.12	226.30	227.29	---	228.96	229.39
EOM	222.19	221.90	222.87	222.74	223.47	224.27	225.51	226.48	227.40	228.27	229.12	229.49

WEBER COUNTY

411544111461001. LOCAL NUMBER, (A-6-2)18bad-1.

LOCATION.--Lat 41°15'44", long 111°46'10", Hydrologic Unit 16020102.

Owner: U.S. Bureau of Reclamation.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 in. (0.20 m), depth 155 ft (47.2 m), perforated 105-115 ft (32.0-35.1 m), 125-145 ft (38.1-44.2 m).

DATUM.--Land-surface datum is 4,924 ft (1,501 m) above mean sea level. Measuring point: Top of casing, 2.00 ft (0.61 m) above land-surface datum.

REMARKS.--Record good.

PERIOD OF RECORD.--January 1956 to March 1966, October 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.01 ft (2.44 m) below land-surface datum, June 20, 1982; lowest, 34.96 ft (10.6 m) below land-surface datum, Nov. 30, 1956.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.89	22.72	22.62	20.91	19.83	16.27	15.97	16.62	13.95	11.88	12.62	14.89
10	23.65	22.71	22.54	20.89	19.83	16.36	16.83	15.11	13.65	9.94	11.92	13.69
15	22.78	22.64	21.80	20.82	19.45	15.37	16.57	14.38	10.36	9.87	13.93	13.38
20	22.49	22.25	21.75	20.51	19.26	14.90	16.98	14.01	8.01	10.00	15.68	13.44
25	22.49	21.93	21.54	20.25	18.06	15.96	18.27	13.77	12.71	10.57	15.66	13.56
EOM	22.92	21.86	21.15	20.13	17.32	15.61	19.04	12.72	13.10	9.74	13.57	15.89

411348112013601. LOCAL NUMBER, (B-6-2)26ada-1.

LOCATION.--Lat 41°13'48", long 112°01'36", Hydrologic Unit 16020102.

Owner: Amalgamated Sugar Company.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 16 in. (0.40 m), depth 595 ft (181 m), cased to 400 ft (122 m).

DATUM.--Land-surface datum is 4,275 ft (1,303 m) above mean sea level. Measuring point: Top of casing, 0.10 ft (0.03 m) below land-surface datum.

REMARKS.--Record good. Recorder installed Oct. 1981. Replaces (B-6-1)30cca-1.

PERIOD OF RECORD.--August 1935 to December 1950, January 1953 to October 1961, February 1963 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 20.50 ft (6.25 m) above land-surface datum, Mar. 11, 1937; lowest, 11.38 ft (3.47 m) below land-surface datum, Sept. 10, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.92	9.10	7.80	6.58	6.10	6.13	5.85	5.48	5.89	6.63	7.38	7.76
10	10.74	8.85	7.56	6.42	5.95	6.19	---	5.45	6.03	6.75	7.50	7.58
15	10.26	8.56	7.35	6.26	5.95	6.15	5.77	5.57	5.97	6.88	7.62	7.24
20	9.90	8.43	7.17	6.08	6.01	5.98	5.76	5.67	6.07	7.00	7.75	7.00
25	9.57	8.15	7.02	6.15	6.03	5.98	5.68	5.81	6.22	7.12	7.87	6.76
EOM	9.30	8.10	6.74	6.20	6.05	5.91	5.58	5.87	6.47	7.28	7.84	6.52

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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)
BEAVER COUNTY											
383101112365301	(C-26- 7)26CAC- 1		--	82-06-03	670	--	15.0	--	--	--	--
382924112592901	(C-28-10) 5ADD- 1	100VLFL	--	82-06-03	780	--	16.5	--	--	--	--
382336112592601	(C-28-10) 8ADD- 2		--	82-06-03	1180	7.8	15.5	410	--	110	33
382204113001302	(C-28-10) 17CDC- 2	100VLFL	--	82-06-03	850	7.8	25.0	220	--	51	23
382020113015701	(C-28-11)25DCD- 1	100VLFL	--	82-08-25	1580	--	17.0	--	--	--	--
381625112412901	(C-29- 7)19BCD- 1	100VLFL	--	82-09-02	520	8.2	14.5	200	--	60	12
381516112422201	(C-29- 8)25CAC- 1	100VLFL	--	82-06-03	340	7.9	20.0	98	--	31	5.0
381435112471401	(C-29- 8)31ADD- 1	100VLFL	--	82-09-02	780	--	13.0	--	--	--	--
381835113000001	(C-29-10) 5CDD- 5	100VLFL	--	82-08-25	990	--	14.0	--	--	--	--
381714113003401	(C-29-10)18DAA- 1	100VLFL	--	82-06-03	540	7.5	15.0	200	--	60	12
381901113014101	(C-29-11) 1ADD- 2	100VLFL	--	82-06-03	1130	7.5	16.5	470	--	140	28
381700113033401	(C-29-11)14CDB- 1	100VLFL	--	82-06-03	460	--	18.0	--	--	--	--
BOX ELDER COUNTY											
412214112023301	(B- 7- 2) 2CBA- 5	100VLFL	--	82-08-03	390	--	13.5	--	--	--	--
412405112022501	(B- 8- 2)26BCD- 1	100VLFL	--	82-08-03	450	--	13.0	--	--	--	--
413057112023901	(B- 9- 2)15DAA- 1	100VLFL	--	82-08-03	580	--	17.0	--	--	--	--
413306113543801	(B-10-18)33AAB- 1	100VLFL	--	82-08-11	1380	--	11.0	--	--	--	--
413806113543401	(B-11-18)33ADB- 1		--	82-08-11	940	7.3	10.0	350	--	95	28
414454112173101	(B-12- 4)27DBD- 1		--	82-07-19	1700	7.2	19.0	--	--	--	--
414406112173601	(B-12- 4)34BBD- 1	100VLFL	--	82-07-19	1900	7.1	20.0	--	--	--	--
414339112173401	(B-12- 4)34CCA- 1	100VLFL	--	82-07-19	1850	7.2	18.0	--	--	--	--
414802113073701	(B-12-11) 5BAC- 1		--	82-08-12	3070	--	15.0	--	--	--	--
414813113075401	(B-12-11) 5BBB- 1	100VLFL	--	82-08-11	1700	--	14.5	--	--	--	--
414710113071601	(B-12-11) 8ABB- 1		--	82-06-10	2510	6.9	13.5	980	--	280	67
414720113075201	(B-12-11) 8BBB- 1	100VLFL	--	82-06-10	3230	--	15.0	--	--	--	--
414900112271701	(B-13- 5)31DAA- 1		--	82-07-14	1320	7.7	20.5	370	--	79	41
415320112290901	(B-13- 6) 1DBB- 1		--	82-06-09	760	7.5	19.5	270	--	75	20
415833112145001	(B-14- 4) 1DAD- 1		--	82-07-19	850	7.1	13.0	310	--	76	29
415754112551301	(B-14- 9) 7BBB- 1		--	82-07-16	780	7.8	19.0	270	--	75	20
415939112562201	(B-15-10)36BBB- 1	100VLFL	--	82-07-16	440	7.7	16.0	180	--	54	12
CACHE COUNTY											
414216111511001	(A-11- 1) 8DDA- 3	100VLFL	--	82-07-19	500	7.3	11.0	--	--	--	--
415020111520401	(A-13- 1)29BCD- 1	100VLFL	--	82-07-19	430	7.4	13.0	--	--	--	--
DAVIS COUNTY											
405535111525101	(A- 2- 1) 7ABA- 4	100VLFL	--	82-08-05	270	7.3	16.0	84	--	20	8.3
405451111540801	(B- 2- 1)24BAD- 3	100VLFL	--	82-08-05	430	--	16.0	--	--	--	--
405959111564101	(B- 3- 1)15BAC- 1	100VLFL	--	82-08-05	380	--	23.0	--	--	--	--
410340112030001	(B- 4- 2)27ABA- 1		--	82-08-05	700	--	13.5	--	--	--	--
410354112135201	(B- 4- 3)19CAA- 3		--	82-08-05	1260	--	23.0	--	--	--	--
410830111584001	(B- 5- 1)29BDC- 1		--	82-08-05	600	7.5	11.5	260	--	73	18
410835111591501	(B- 5- 1)30ADA- 1		--	82-08-05	540	--	11.5	--	--	--	--
GARFIELD COUNTY											
375924112234001	(C-32- 5)35BAB- 1		--	82-07-08	270	--	13.0	--	--	--	--
GRAND COUNTY											
383539109340901	(D-25-21)26DCC- 1	112ALVM	--	82-09-07	590	--	23.0	--	--	--	--
IRON COUNTY											
375257112483501	(C-33- 8)31CCC- 2		--	82-06-03	540	8.2	13.5	230	--	49	26
375320112510001	(C-33- 9)35ACD- 2	100VLFL	--	82-06-03	450	--	13.0	--	--	--	--
375151112525002	(C-34- 9) 9BBD- 2		--	82-06-03	870	--	12.5	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
 110ALVM - QUATERNARY ALLUVIUM, QUATERNARY AGE.
 111ALVM - HOLOCENE ALLUVIUM, HOLOCENE AGE.
 112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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 (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												
--	--	--	--	--	--	--	--	--	--	--	--	--
68	3.6	--	240	130	0.6	37	710	0.97	0.04	3	1	170
81	2.4	--	150	77	1.0	31	498	0.36	0.04	3	1	160
--	--	--	--	--	--	--	--	--	--	--	--	--
20	4.5	--	29	18	0.7	35	289	3.1	0.04	13	1	60
20	8.2	--	41	6.0	0.8	75	247	0.10	0.04	10	62	50
--	--	--	--	--	--	--	--	--	--	--	--	--
19	3.7	--	52	45	0.4	36	312	1.5	0.06	3	1	40
38	6.0	--	95	150	0.4	41	650	3.1	0.04	3	1	70
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BOX ELDER COUNTY												
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81	7.0	--	86	78	0.3	43	603	0.82	0.04	3	1	230
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110	10	--	110	640	0.2	23	1380	4.0	1	40	10	100
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130	9.3	--	38	240	1.3	81	788	0	0.03	80	30	140
33	11	--	18	150	0.3	60	460	3.6	1	13	1	60
59	3.0	--	32	140	0.2	17	476	1.7	0.02	19	9	60
42	12	--	24	160	0.3	63	484	0.71	0.03	6	2	50
19	8.8	--	19	58	0.2	62	321	0.76	0.02	4	1	40
CACHE COUNTY												
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DAVIS COUNTY												
31	1.6	--	18	15	0.1	21	183	1.3	0.05	18	5	30
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20	2.1	--	32	22	0.6	12	324	0.82	0.38	7	4	40
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GARFIELD COUNTY												
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GRAND COUNTY												
--	--	--	--	--	--	--	--	--	--	--	--	--
IRON COUNTY												
25	3.0	--	35	32	0.2	28	325	1.3	0.05	3	1	70
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GEOLOGICAL UNIT (AQUIFER)--CONTINUED

112PLCN - PLEISTOCENE SERIES, PLEISTOCENE AGE.

112PVNT - PAVANT FLOW, PLEISTOCENE AGE.

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.

220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG/L)
IRON COUNTY											
375033112561101	(C-34-10)13CBD- 2	100VLFL	--	82-06-03	500	8.1	12.0	230	--	46	28
374834113384301	(C-34-16)28DCC- 2	100VLFL	--	82-05-25	1030	7.4	13.0	400	--	120	24
374623113381301	(C-35-16) 9ADD- 1		--	82-05-25	870	7.4	13.0	360	--	109	21
374412113384503	(C-35-16)21DCC- 3	100VLFL	--	82-05-25	470	7.7	14.0	210	--	66	12
374227113394101	(C-35-16)32DCD- 2	100VLFL	--	82-05-25	1240	7.3	15.5	550	--	167	32
374105113084901	(C-36-12)12DBA- 1	100VLFL	--	82-06-28	560	8.1	16.0	270	--	52	34
373915113125601	(C-36-12)21CBB- 1	100VLFL	--	82-06-30	350	8.0	14.0	150	--	41	12
374040113343102	(C-36-15) 7CDD- 2		--	82-05-25	1570	7.7	22.0	290	--	88	17
374014113391101	(C-36-16) 9BDC- 2		--	82-06-02	410	7.0	15.0	190	--	60	10
373710113381201	(C-36-16)27CDC- 1	100VLFL	--	82-06-05	600	--	17.0	--	--	--	--
373656113415201	(C-36-17)36AAD- 1	100VLFL	--	82-08-20	500	8.2	11.0	210	--	63	12
373234113111601	(C-37-12)34ABB- 1	100VLFL	--	82-07-30	910	7.7	11.0	460	--	120	40
JUAB COUNTY											
395319113431201	(C-11-17)11AAA- 1		--	82-08-12	460	--	16.0	--	--	--	--
394545111531001	(C-12- 1)24BAA- 1	100VLFL	--	82-07-06	1220	7.6	12.0	360	--	87	34
394215111530501	(C-13- 1) 1CDD- 1		--	82-07-09	1040	7.5	11.0	320	--	72	34
394518111515801	(D-12- 1)19DBB- 1	100VLFL	--	82-07-08	1230	7.5	12.5	--	--	--	--
394225111495701	(D-13- 1) 4CCA- 1	100VLFL	--	82-08-04	1530	7.3	11.0	480	--	130	38
394137111515001	(D-13- 1) 7DBC- 1		--	82-07-09	1460	--	11.0	--	--	--	--
394132111512001	(D-13- 1) 7DDA- 1	100VLFL	--	82-07-09	1710	7.3	11.0	470	--	120	41
393301111512501	(D-14- 1)31DAB- 1		--	82-07-08	1230	--	11.5	--	--	--	--
KANE COUNTY											
371034112230401	(C-42- 5)11BDB- 1		--	82-07-30	930	7.7	13.5	460	--	110	45
370843112340602	(C-42- 6)19BDC- 2	220NVJO	--	82-07-30	230	--	15.0	--	--	--	--
370222112220901	(C-43- 5)25CDA- 1		--	82-05-14	1680	7.7	14.0	750	--	117	110
MILLARD COUNTY											
393154112192901	(C-15- 4) 8CBA- 1	100VLFL	--	82-08-11	3300	7.6	14.5	1200	--	250	130
392854112154601	(C-15- 4)26DCC- 1		--	82-08-11	960	7.8	15.5	410	--	110	33
392135113585501	(C-17-19) 4ADD- 1	100VLFL	--	82-08-12	430	--	18.0	--	--	--	--
391341112241402	(C-18- 5)27BAB- 2	100VLFL	--	82-08-19	1120	--	19.0	--	--	--	--
391234112233701	(C-18- 5)34ADB- 3		--	82-07-01	1800	--	16.5	--	--	--	--
391246112241601	(C-18- 5)34BBA- 2	100VLFL	--	82-07-01	1390	--	17.0	--	--	--	--
391224112220201	(C-18- 5)36BCD- 1		--	82-07-01	690	--	16.5	--	--	--	--
391212112221301	(C-18- 5)36CBC- 1		--	82-07-01	590	--	17.5	--	--	--	--
391710112334701	(C-18- 6) 6ABA- 2	100VLFL	--	82-08-12	410	8.3	26.0	33	--	7.6	3.5
391326113595801	(C-18-19)20DAD- 1	100VLFL	--	82-07-13	300	--	15.0	--	--	--	--
390930112195801	(C-19- 4)17CCB- 1		--	82-08-19	520	--	16.5	--	--	--	--
390759112194801	(C-19- 4)29BCD- 1	100VLFL	--	82-06-28	740	--	15.5	--	--	--	--
390757112202001	(C-19- 4)30DAB- 1		--	82-08-19	980	--	14.5	--	--	--	--
390700112203101	(C-19- 4)31DBB- 1	100VLFL	--	82-08-19	1500	--	15.0	--	--	--	--
390647112194601	(C-19- 4)32CCA- 1	100VLFL	--	82-06-28	1580	--	15.5	--	--	--	--
391138112222801	(C-19- 5) 2ADB- 1		--	82-06-28	880	--	21.5	--	--	--	--
391153112232601	(C-19- 5) 3AAA- 1	100VLFL	--	82-06-28	1520	--	18.0	--	--	--	--
391117112243601	(C-19- 5) 4DAD- 1	111ALVM	--	82-08-19	980	--	18.0	--	--	--	--
391020112215601	(C-19- 5)12CDB- 1		--	82-06-28	480	--	19.0	--	--	--	--
390828112223901	(C-19- 5)23DCD- 1	100VLFL	--	82-06-28	560	--	18.5	--	--	--	--
390617113571601	(C-19-19)35CDD- 1	100VLFL	--	82-09-08	480	--	13.0	--	--	--	--
390628112201401	(C-20- 4) 6ACA- 1	100VLFL	--	82-06-29	2090	--	14.0	--	--	--	--
390304112232101	(C-20- 5)25BBB- 1		--	82-06-29	2160	--	16.5	--	--	--	--
390255112243301	(C-20- 5)28AAD- 1	100VLFL	--	82-08-17	1820	--	19.0	--	--	--	--
390416113573801	(C-20-19)14BEC- 1		--	82-08-12	430	7.7	13.0	160	--	38	17
390100112263001	(C-21- 5) 5BAC- 1		--	82-08-17	910	--	15.5	--	--	--	--
385939112272301	(C-21- 5) 7CDD- 3	112PVNT	--	82-06-29	1390	7.2	13.5	490	--	110	53

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
 110ALVM - QUATERNARY ALLUVIUM, QUATERNARY AGE.
 111ALVM - HOLOCENE ALLUVIUM, HOLOCENE AGE.
 112ALVM - OLDER ALLUVIUM, FLEISTOCENE AGE.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	ALKA- LINITY (CACO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED BORON (B) (UG/L)
IRON COUNTY												
16	5.0	--	27	16	0.3	42	318	1.9	0.09	4	1	50
34	8.1	--	96	190	0.5	64	626	1.9	0.04	120	59	100
22	6.1	--	51	120	0.2	50	514	3.0	0.05	13	3	80
17	4.5	--	24	43	0.3	50	325	1.8	0.06	9	3	30
30	7.6	--	80	180	0.3	46	747	4.0	0.23	58	31	40
8.8	2.4	--	120	10	1.1	7.3	351	0.68	1	9	3	30
11	2.3	--	38	9.3	0.4	44	234	0.35	1	13	1	40
220	9.1	--	570	74	4.3	53	1100	1.6	0.05	12	3	650
15	4.4	--	13	27	0.3	39	273	1.1	1	22	4	30
--	--	--	--	--	--	--	--	--	--	--	--	--
23	5.2	--	21	25	0.3	39	329	6.4	0.09	3	2	40
17	2.1	--	150	10	0.2	18	468	2.2	0.03	4	1	70
JUAB COUNTY												
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100	4.6	--	87	190	0.2	28	664	5.6	0.08	3	1	50
85	3.1	--	72	160	0.2	23	591	1.4	0.04	56	20	40
--	--	--	--	--	--	--	--	--	--	--	--	--
130	4.0	--	110	220	0.2	24	862	6.7	0.07	3	1	110
--	--	--	--	--	--	--	--	--	--	--	--	--
170	3.2	--	120	250	0.2	27	914	4.2	0.04	3	1	100
--	--	--	--	--	--	--	--	--	--	--	--	--
KANE COUNTY												
33	3.5	--	290	10	0.2	12	648	3.2	0.04	260	51	90
--	--	--	--	--	--	--	--	--	--	--	--	--
99	8.3	--	490	95	0.5	16	1120	3.9	0.03	17	180	240
MILLARD COUNTY												
320	8.2	--	520	760	0.2	28	2130	1.2	1	190	570	410
36	1.6	--	150	110	0.1	14	586	14	1	3	2	50
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85	1.4	--	19	29	0.7	33	279	0.13	1	120	6	130
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23	1.4	--	19	23	0.4	21	238	0.20	1	3	1	50
--	--	--	--	--	--	--	--	--	--	--	--	--
120	4.1	--	170	150	0.2	26	838	4.4	0.10	4	1	290

GEOLOGICAL UNIT (AQUIFER)--CONTINUED

112PLCN - PLEISTOCENE SERIES, PLEISTOCENE AGE.

112PVNT - PAVANT FLOW, PLEISTOCENE AGE.

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.

220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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											
390002112261401	(C-21- 5) 8DBB- 2	100VLFL	--	82-08-17	670	--	18.0	--	--	--	--
385911112263101	(C-21- 5) 17CAB- 1		--	82-06-29	630	--	16.5	--	--	--	--
385835112274101	(C-21- 5) 20AAD- 2		--	82-06-29	630	--	16.0	--	--	--	--
385839112263101	(C-21- 5) 20BBA- 1		--	82-08-17	750	--	16.0	--	--	--	--
385725112261501	(C-21- 5) 29BDD- 2		--	82-08-17	860	--	19.0	--	--	--	--
385714112264701	(C-21- 5) 29CBC- 1	100VLFL	--	82-06-29	2830	--	20.0	--	--	--	--
385715112271201	(C-21- 5) 30DBC- 3	100VLFL	--	82-06-29	2110	7.2	19.5	770	--	190	71
385650114010601	(C-21-19) 31ACD- 1	100VLFL	--	82-09-07	750	--	11.5	--	--	--	--
385605112240301	(C-22- 5) 3BAA- 1		--	82-08-18	1330	--	15.0	--	--	--	--
385511112243701	(C-22- 5) 10BBB- 1	100VLFL	--	82-06-30	1440	7.2	17.0	440	--	120	34
385336112260801	(C-22- 5) 17DCD- 1	100VLFL	--	82-08-18	660	--	17.0	--	--	--	--
385317112241801	(C-22- 5) 22BAC- 1		--	82-08-18	1210	--	15.0	--	--	--	--
385230112244601	(C-22- 5) 28AAD- 1	100VLFL	--	82-08-18	1000	--	15.5	--	--	--	--
385135112250301	(C-22- 5) 33ABD- 1	100VLFL	--	82-06-30	650	--	14.0	--	--	--	--
385132112251901	(C-22- 5) 33BAD- 1		--	82-06-30	1640	--	14.5	--	--	--	--
385615114013801	(C-22-19) 6BAC- 1	100VLFL	--	82-08-12	580	7.3	11.0	270	--	74	20
385002112252301	(C-23- 5) 4CCD- 1		--	82-06-30	720	--	14.5	--	--	--	--
385026112261001	(C-23- 5) 5ACD- 1	100VLFL	--	82-08-18	740	7.6	14.0	310	--	81	27
385028112260201	(C-23- 5) 5ADC- 1		--	82-06-30	780	--	14.5	--	--	--	--
385015112333601	(C-23- 6) 5CBC- 1	112PVNT	--	82-08-18	9320	--	14.0	--	--	--	--
384910112321401	(C-23- 6) 9CCD- 1	100VLFL	--	82-07-01	7480	6.7	14.5	2000	--	520	170
384850112310701	(C-23- 6) 15BCA- 1		--	82-06-30	6600	6.9	17.0	1600	--	430	120
384857112315701	(C-23- 6) 16BAD- 1	100VLFL	--	82-07-01	6780	6.7	15.0	1800	--	480	150
384829112315901	(C-23- 6) 16CDA- 1	112PVNT	--	82-07-01	5600	--	16.5	--	--	--	--
384830112323501	(C-23- 6) 17DAD- 1		--	82-08-18	5700	--	14.5	--	--	--	--
384751112312201	(C-23- 6) 21ADD- 1	100VLFL	--	82-07-01	1470	7.4	14.5	450	--	81	60
384748112315801	(C-23- 6) 21BDD- 1	100VLFL	--	82-07-01	9070	6.7	14.0	3400	--	720	380
384818114002801	(C-23-19) 20BAC- 1		--	82-07-12	1180	--	14.0	--	--	--	--
PIUTE COUNTY											
381440111584001	(C-29- 2) 35BAD- 1	122BRHD	--	82-07-08	440	--	17.0	200	--	57	15
381003112010301	(C-30- 2) 28BDC- 1		--	82-07-08	400	--	18.5	180	--	49	15
SALT LAKE COUNTY											
405047112014301	(B- 1- 2) 2DAC- 2	100VLFL	--	82-09-17	880	8.2	26.5	45	--	12	3.7
404659112005601	(B- 1- 2) 36BAA- 1	100VLFL	--	82-09-15	6340	7.6	26.0	770	--	200	65
404306112031201	(C- 1- 2) 22BDD- 4	100VLFL	--	82-09-15	1840	7.6	12.5	260	--	51	31
403952111541101	(C- 2- 1) 12BAC- 1	100VLFL	--	82-02-11	210	--	13.5	--	--	--	--
		100VLFL	--	82-09-15	250	7.9	13.0	110	--	27	9.2
403408111543201	(C- 3- 1) 12CCB- 1	100VLFL	--	82-02-11	950	--	19.0	--	--	--	--
		100VLFL	--	82-09-17	940	7.4	20.0	280	--	61	31
402721111550801	(C- 4- 1) 23DBB- 1	100VLFL	--	82-09-17	1160	--	20.0	--	--	--	--
404506111523301	(D- 1- 1) 7ABD- 6	100VLFL	--	82-02-19	1100	--	125.0	--	--	--	--
		100VLFL	--	82-09-15	1120	7.1	13.5	500	--	120	48
SAN JUAN COUNTY											
371657109331901	(D-40-21) 25ACD- 1	220NVJO	--	82-07-23	420	8.8	16.5	11	--	3.2	0.7
371716109325501	(D-40-22) 30BBB- 1	220JRSC	--	82-05-01	650	9.0	21.0	5	--	1.5	0.4
SANPETE COUNTY											
391230111515001	(C-18- 1) 25DDC- 1		--	82-07-08	1690	7.7	13.0	330	--	45	52
392740111345302	(D-16- 3) 4AAA- 2		--	82-09-14	1140	7.2	10.5	400	--	86	45
391634111380701	(D-18- 2) 1DAA- 2	100VLFL	--	82-08-23	940	7.4	11.5	440	--	72	62
SEVIER COUNTY											
385910111512101	(C-21- 1) 13ABD- 1		--	82-07-08	760	--	17.0	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
 110ALVM - QUATERNARY ALLUVIUM, QUATERNARY AGE.
 111ALVM - HOLOCENE ALLUVIUM, HOLOCENE AGE.
 112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED ALKA- LINIT (CAO3) (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 (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED BORON (B) (UG/L)
MILLARD COUNTY												
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160	12	--	420	310	0.4	19	1330	0.85	0.04	10	10	600
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150	14	--	250	230	0.8	14	961	1.3	0.04	7	34	820
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13	1.3	--	13	11	0.1	17	259	2.7	1	3	1	40
43	2.8	--	64	57	0.1	21	408	3.3	0.03	4	2	140
--	--	--	--	--	--	--	--	--	--	--	--	--
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810	73	--	1100	1900	1.0	41	4810	1.7	0.09	60	20	3500
840	100	--	870	1600	2.2	58	4250	1.4	0.07	30	20	4000
780	86	--	970	1700	1.1	43	4420	2.0	0.06	30	20	3400
--	--	--	--	--	--	--	--	--	--	--	--	--
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140	5.7	--	250	230	0.4	27	939	7.0	0.05	8	1	380
790	43	--	1500	2600	0.3	40	6310	23	0.07	100	40	2200
--	--	--	--	--	--	--	--	--	--	--	--	--
PIUTE COUNTY												
14	5.9	--	21	24	0.2	45	298	0.75	0.09	8	2	30
19	5.1	--	21	12	0.3	32	272	0.40	0.07	8	2	60
SALT LAKE COUNTY												
170	4.0	--	0	140	1.8	31	513	0	--	43	24	--
1100	19	--	48	2100	1.1	48	3660	0	--	620	160	--
290	25	--	210	310	0.5	57	1140	3.1	--	3	1	--
--	--	--	--	--	--	--	--	--	--	--	--	--
8.5	1.6	--	23	5.4	0.2	12	140	0.77	--	3	1	--
--	--	--	--	--	--	--	--	--	--	--	--	--
80	8.6	--	110	120	0.2	35	556	0.22	--	3	1	--
--	--	--	--	--	--	--	--	--	--	--	--	--
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39	2.7	--	160	98	0.2	19	656	4.9	--	17	5	--
SAN JUAN COUNTY												
96	1.3	--	49	2.6	--	11	269	--	--	--	--	--
180	1.1	--	57	12	0.5	11	456	0	--	--	--	--
SANPETE COUNTY												
190	3.1	--	5.0	420	0.5	6.0	829	0.10	0.06	1800	370	60
99	8.5	--	140	88	0.2	54	725	1.1	0.06	31	17	160
35	2.1	--	110	21	0.3	17	521	0.60	1	3	1	120
SEVIER COUNTY												
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GEOLOGICAL UNIT (AQUIFER)--CONTINUED

112PLCN - PLEISTOCENE SERIES, PLEISTOCENE AGE.

112PVNT - PAVANT FLOW, PLEISTOCENE AGE.

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.

220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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)
SEVIER COUNTY											
384800112002001	(C-23- 2)15DCB- 4	100VLFL	--	82-07-09	610	--	10.0	--	--	--	--
384702112031001	(C-23- 2)19DAB- 1	100VLFL	--	82-07-09	500	--	13.5	--	--	--	--
383140111522001	(C-26- 1)23DDB- 1	100VLFL	--	82-07-08	180	--	12.0	--	--	--	--
TOOELE COUNTY											
405951113584301	(B- 3-19) 1CCC- 1		--	82-08-11	360	7.9	16.0	96	--	22	10
403608112174301	(C- 2- 4)33ADD- 1	100VLFL	--	82-07-08	710	7.5	13.5	300	--	77	27
403802112301201	(C- 2- 6)23CBB- 1	100VLFL	--	82-07-27	1350	--	20.0	--	--	--	--
403914112400301	(C- 2- 7) 7DDA- 1		--	82-09-03	4610	8.2	18.0	370	--	78	42
403447112184401	(C- 3- 4) 8AAA- 1	100VLFL	--	82-07-27	2530	--	17.0	--	--	--	--
403532112253601	(C- 3- 5) 4BBB- 2	100VLFL	--	82-07-27	1570	--	16.5	--	--	--	--
403451112271801	(C- 3- 5) 7DCC- 1		--	82-08-02	500	8.1	14.0	220	--	60	16
403138112444501	(C- 3- 8)28DAB- 1		--	82-06-17	1800	--	14.5	--	--	--	--
403126112444501	(C- 3- 8)28DDB- 1		--	82-09-01	540	8.0	14.0	170	--	45	13
402514112254301	(C- 4- 5)32DCD- 1	100VLFL	--	82-06-16	1100	--	13.5	--	--	--	--
402525112251502	(C- 4- 5)33CCB- 2		--	82-06-16	1010	--	12.0	--	--	--	--
403006112442201	(C- 4- 8) 3BCA- 1	100VLFL	--	82-06-17	510	--	15.0	--	--	--	--
400636112260601	(C- 8- 5)20BCA- 1	100VLFL	--	82-07-13	930	--	11.5	--	--	--	--
400441112265001	(C- 8- 5)31ACC- 1	100VLFL	--	82-06-16	1430	--	11.5	--	--	--	--
400418112271701	(C- 8- 5)31CCD- 5		--	82-07-13	830	--	11.5	--	--	--	--
400407112263601	(C- 9- 5) 6AAB- 2	100VLFL	--	82-06-16	790	--	12.5	--	--	--	--
UINTAH COUNTY											
403116109360601	(D- 3-21)30DCD- 1	220NVJO	--	82-08-26	580	8.7	25.0	18	--	4.4	1.7
UTAH COUNTY											
401730111594501	(C- 6- 1)18CDD- 1		--	82-06-15	720	7.7	30.0	280	--	69	26
401730111594502	(C- 6- 1)18CDD- 2		--	82-06-15	720	--	29.5	--	--	--	--
401607112023401	(C- 6- 2)26CBB- 1	100VLFL	--	82-06-15	500	--	11.5	--	--	--	--
401610112053101	(C- 6- 2)29BDD- 1	100VLFL	--	82-06-15	440	7.6	10.0	210	--	54	18
400315111572001	(C- 9- 1) 4CCC- 1	100VLFL	--	82-07-07	1230	--	14.0	--	--	--	--
395956111572101	(C- 9- 1)28CCB- 1		--	82-07-07	1120	--	18.5	--	--	--	--
395825111571801	(C-10- 1) 4CBB- 1	100VLFL	--	82-07-07	1900	--	19.5	--	--	--	--
402309111510901	(D- 5- 1)17ADC-12	100VLFL	--	82-09-16	230	--	13.5	--	--	--	--
402259111525201	(D- 5- 1)18CAB- 2		--	82-09-16	340	--	--	--	--	--	--
402145111531101	(D- 5- 1)19CCC- 1	111ALVM	--	81-10-20	250	--	13.0	--	--	--	--
402207111474001	(D- 5- 1)23DAB- 3	111ALVM	--	82-09-16	250	--	--	--	--	--	--
		100VLFL	--	81-10-22	440	--	11.5	--	--	--	--
		100VLFL	--	82-09-16	460	--	12.0	--	--	--	--
402103111461600	(D- 5- 2)30CCB- 2		--	82-09-20	800	--	14.0	--	--	--	--
401621111432501	(D- 6- 2)28BAD- 1	111ALVM	--	81-10-23	570	--	13.0	--	--	--	--
401021111362701	(D- 7- 3)33BAA- 6	100VLFL	--	82-09-20	580	--	13.0	--	--	--	--
400941111352701	(D- 7- 3)34CDB- 1	112PLCN	--	82-09-20	600	--	12.5	--	--	--	--
400902111433701	(D- 8- 2) 4CBA- 2	111ALVM	--	82-09-20	440	--	15.5	--	--	--	--
400751111392201	(D- 8- 2)12DDC- 2	100VLFL	--	82-09-20	520	--	16.0	--	--	--	--
400718111431301	(D- 8- 2)16CAA- 1	100VLFL	--	82-09-20	400	--	16.5	--	--	--	--
400311111432001	(D- 9- 2) 9BAC- 1	100VLFL	--	82-09-20	650	--	14.5	--	--	--	--
400322111402201	(D- 9- 2)11AAA- 1	100VLFL	--	82-09-20	550	--	--	--	--	--	--
WASHINGTON COUNTY											
373551113391101	(C-37-16) 4BDC- 1		--	82-06-23	340	--	20.5	--	--	--	--
373456113423501	(C-37-17)12BDC- 2		--	82-06-02	570	8.0	13.0	240	--	76	13
WAYNE COUNTY											
382717111365601	(D-27- 3)19AAA- 1		--	82-07-08	1640	7.8	10.0	890	--	270	52

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
 110ALVM - QUATERNARY ALLUVIUM, QUATERNARY AGE.
 111ALVM - HOLOCENE ALLUVIUM, HOLOCENE AGE.
 112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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) TUENTS) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED BORON (B) (UG/L)
SEVIER COUNTY												
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TOOELE COUNTY												
31	3.6	--	12	49	0.1	13	195	0.26	1	3	2	30
48	1.7	--	120	52	0.1	13	464	2.7	0.02	6	1	40
--	--	--	--	--	--	--	--	--	--	--	--	--
840	28	--	110	1400	0.2	25	2630	1.4	0.04	50	0	320
--	--	--	--	--	--	--	--	--	--	--	--	--
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22	2.2	--	16	59	0.1	19	304	0.81	0.08	3	2	30
--	--	--	--	--	--	--	--	--	--	--	--	--
47	1.4	--	20	92	0.2	19	311	0.87	0.06	8	1	60
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UINTAH COUNTY												
130	3.3	--	61	3.0	0.6	7.2	355	0	0.03	250	4	180
UTAH COUNTY												
39	3.6	--	65	65	0.5	21	412	0.62	1	7	1	80
--	--	--	--	--	--	--	--	--	--	--	--	--
9.6	0.9	--	19	15	0.1	11	243	0.87	1	4	1	20
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WASHINGTON COUNTY												
27	5.4	--	23	26	0.3	46	376	6.6	0.02	6	1	80
WAYNE COUNTY												
27	4.1	--	750	12	1	30	1260	2.1	0.09	9	1	70

GEOLOGICAL UNIT (AQUIFER)--CONTINUED

112PLCN - PLEISTOCENE SERIES, PLEISTOCENE AGE.

112PVNT - PAVANT FLOW, PLEISTOCENE AGE.

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.

220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

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)
WAYNE COUNTY											
381902111321101	(D-29- 3)	1CAB- 1	110ALVM	-- 82-07-08	210	8.3	13.0	83	--	22	6.7
WEBER COUNTY											
411153112064602	(B- 5- 2)	6BDD- 3	100VLFL	-- 82-08-04	310	--	17.5	--	--	--	--
411153112064601	(B- 5- 2)	6BDD- 4	100VLFL	-- 82-08-04	410	--	16.0	--	--	--	--
412011112041401	(B- 7- 2)	16DCD- 2	100VLFL	-- 82-08-04	300	--	26.0	--	--	--	--
411824112060101	(B- 7- 2)	32BBB- 1		-- 82-08-04	2310	7.6	18.0	390	--	82	46
411821112034601	(B- 7- 2)	34BBB- 2	100VLFL	-- 82-08-04	1680	--	18.0	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
 110ALVM - QUATERNARY ALLUVIUM, QUATERNARY AGE.
 111ALVM - HOLOCENE ALLUVIUM, HOLOCENE AGE.
 112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.

QUALITY OF GROUND WATER

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED ALKALINITY (CACO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLORIDE (CL) (MG/L)	DIS- SOLVED FLUORIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF 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)
WAYNE COUNTY												
8.8	3.0	--	34	5.5	0.2	44	167	0.38	0.10	57	3	40
WEBER COUNTY												
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
330	21	--	0	700	0.3	28	--	0	0.20	300	320	330
--	--	--	--	--	--	--	--	--	--	--	--	--

GEOLOGICAL UNIT (AQUIFER)--CONTINUED

112PLCN - PLEISTOCENE SERIES, PLEISTOCENE AGE.

112PVNT - PAVANT FLOW, PLEISTOCENE AGE.

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.

220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.

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Weber River basin, gaging-station records in	322
Wheeler Creek near Huntsville.	339, 456
White River (tributary to Price River) below Tabbyune Creek, near Soldier Summit	164, 440
White River (tributary to Green River) at mouth, near Ouray.	133
near Colorado-Utah State line	115
Whiterocks River near Whiterocks	109, 439
Willow Creek (tributary to Price River) near Castle Gate	166, 441
Willow Creek (tributary to Green River) above diversions, near Ouray	150
near Ouray.	152
Wolf Creek above Rhodes Canyon, near Hanna	85, 435
Woodruff Creek below reservoir near Woodruff	279, 450
Woodruff Narrows Reservoir near Woodruff	277
Yellowstone River near Altonah	105, 438

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
<i>Length</i>		
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)
<i>Area</i>		
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)
<i>Volume</i>		
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)
<i>Flow</i>		
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)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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