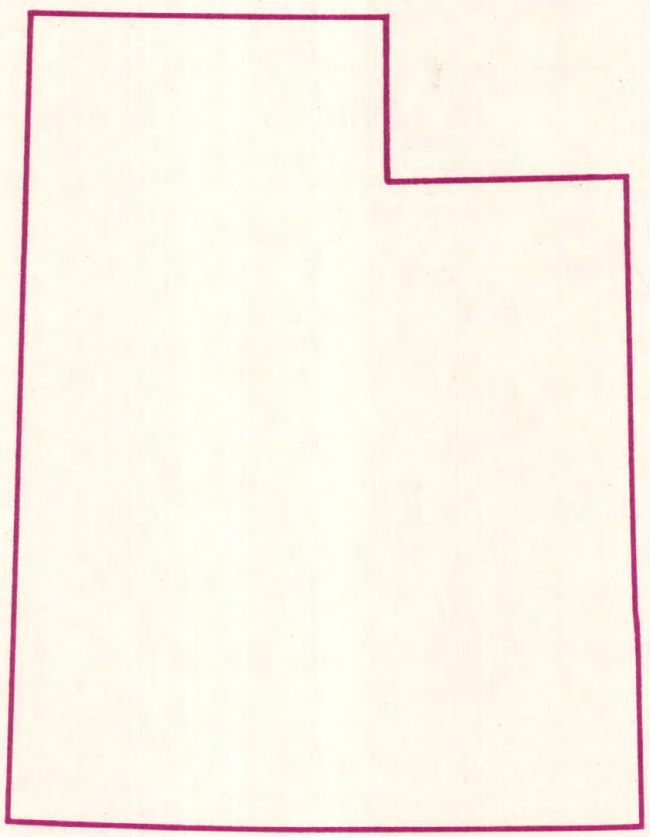
Water Resources Data
Utah
Water Year 1984



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT UT-84-1
Prepared in cooperation with the State of Utah
and with other agencies

CALENDAR FOR WATER YEAR 1984

1983

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1984

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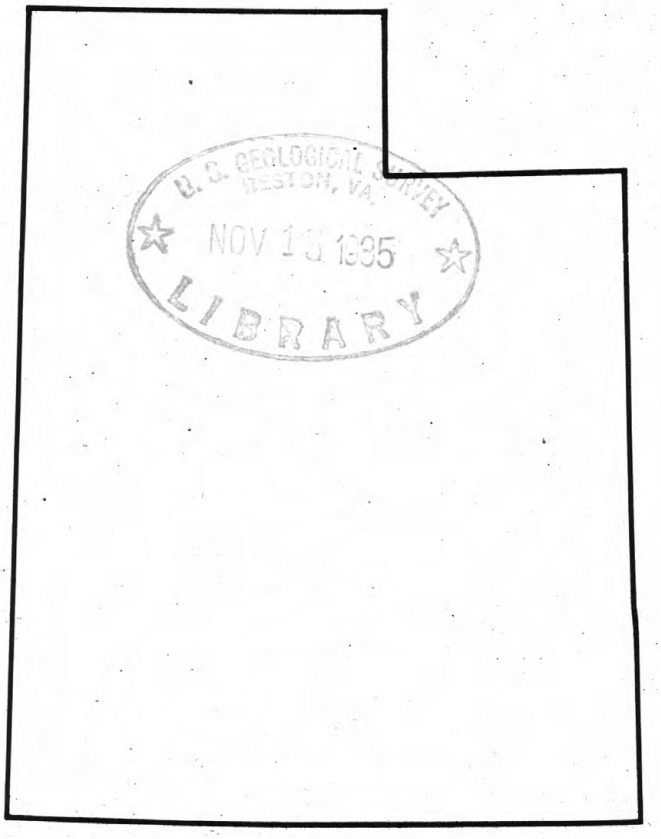
Water Resources Data
Utah
Water Year 1984

by M.D. ReMillard, G.C. Andersen, G.A. Birdwell, and E. Hookano, Jr.



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT UT-84-1
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. Arnow, District Chief, Utah.

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Water resources data for the 1984 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 221 gaging stations; stage and contents for 18 lakes and reservoirs; water quality for 48 hydrologic stations and 166 wells; miscellaneous temperature measurements and field determinations for 162 stations; and water levels for 36 observation wells. Additional water data were collected at various sites not involved in the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Utah.

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ILLUSTRATIONS

TABLES

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

WATER RESOURCES DATA FOR UTAH, 1984

INTRODUCTION

Water resources data for the 1984 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 221 gaging stations; stage and contents for 18 lakes and reservoirs; water quality for 40 hydrologic stations, and 166 wells; miscellaneous temperature measurements and field determinations for 162 stations; and water levels for 36 observation wells. Additional water data were collected at various sites not involved in the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Utah.

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

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

Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report UT-84-1." 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, W. H. Geer, Acting 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 16 gaging stations and by the Bureau of Land Management, U.S. Department of the Interior, for 6 gaging stations. Records for eight gaging stations in Idaho in the Bear River basin and three in Utah were collected by the Utah Power and Light Co. under Federal Energy Regulatory Commission License.

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

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

Nevada District.--Virgin River at Littlefield, AZ

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

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

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

Organizations that supplied data are acknowledged in station descriptions.

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

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

SUMMARY OF HYDROLOGIC CONDITIONS

By Russell W. Cruff

The 1984 water year, like the 1982 and 1983 water years, was exceptionally wet in much of Utah. Precipitation during the 1984 water year was greater than normal throughout the western part of the State with a large part of the excess occurring in November-December and in June-August. November-December, June-August water year 1984 precipitation and departures from normal, at selected sites (fig. 1) as reported by the National Oceanic and Atmospheric Administration are listed in the following table:

	Nov.-Dec. (Inches)		June-August (Inches)		Water year (Inches)	
	Total	Departure	Total	Departure	Total	Departure
Blanding	3.00	0.82	3.01	0.19	9.67	-2.03
Callao	1.27	.71	4.54	2.88	9.29	4.15
Cedar City	3.47	1.91	7.21	4.49	15.57	5.31
Green River	1.32	.47	4.71	3.20	8.93	2.70
Hanksville	1.14	.41	2.61	1.11	5.55	.31
Logan	8.94	5.78	5.15	2.21	28.86	11.50
Milford	2.00	.68	6.21	4.47	13.74	5.15
Nephi	6.90	4.42	4.74	2.40	19.11	5.61
Roosevelt	1.98	.88	1.80	-.04	6.06	-1.15
Salt Lake City	6.60	4.01	5.07	2.46	23.82	8.51
Zion Nat. Park	5.66	3.20	6.86	3.69	17.72	3.14

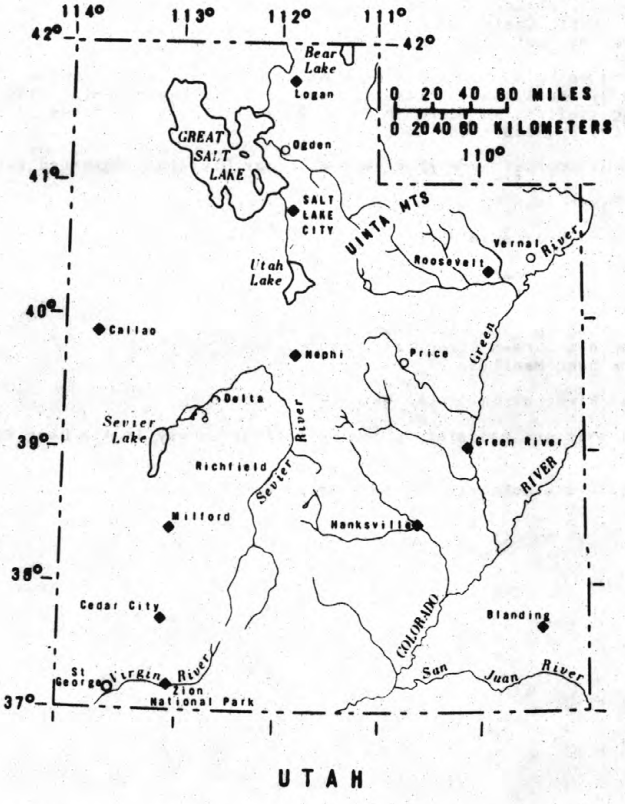

Figure 1.—Selected precipitation recording sites.

For the selected sites, the water-year total precipitation ranged from 2.03 inches less than normal to 11.50 inches greater than normal, whereas the November-December totals ranged from 0.41 to 5.78 inches greater than normal and the June-August totals ranged from 0.04 inch less than normal to 4.49 inches greater than normal. Precipitation at Callao, Cedar City, Logan, Milford, Nephi, Salt Lake City, and Zion National Park, which are all in western Utah, ranged from 3.14 to 11.50 inches greater than normal for the water year.

Surface Water

by Russell W. Cruff

Streamflow as measured at seven representative gaging stations averaged 185 percent of the median streamflow for the 1951-80 water years (compared to 207 percent a year ago); it ranged from 126 percent of the median for Whiterocks River near Whiterocks to 264 percent for Colorado River near Cisco. Discharge for the 1984 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.

In most instances, the 1984 water year did not produce as great a runoff as the 1983 water year, however, with the exception of the San Juan and Virgin River drainages in southern Utah, those 2 water years produced the greatest consecutive 2-runoff since the 1921-22 water years. For the Green and Colorado Rivers, runoff during the 1983-84 water years was the greatest of any 2 consecutive water years on record. The Green River at Green River has 85 years of record and the Colorado River near Cisco has 73 years of record. The following table is a summary of the mean runoff for a number of sites:

Station no.	Length of record (years)	Mean runoff 1983 water year		Mean runoff 1984 water year		Mean runoff for 1983 and 1984 water years	Mean runoff for maximum 2 consecutive water years prior to 1973	
		Cubic feet per second	Percent of average	Cubic feet per second	Percent of average	(Cubic feet per second)	Cubic feet per second	Water years
09180000	34	2,041	251	1,723	212	1,882	1,487	1957,58
09180500	73	12,700	166	14,930	195	13,815	11,224	1916,17
09184000	31	25.3	177	23.0	161	24.2	21.4	1957,58
09261000	39	7,615	170	7,784	174	7,700	5,652	1951,52
09266500	71	176	176	129	129	152	176	1921,22
09275500	40	76.9	155	73.4	148	75.2	65.0	1951,52
09277500	66	329	163	300	149	314	349	1921,22
09279000	47	253	146	233	135	243	229	1951,52
09289500	34	169	148	150	132	160	144	1967,68
09299500	77	209	169	139	112	174	154	1941,42
09302000	42	1,736	290	1,296	216	1,516	1,017	1951,52
09308500	32	17.1	301	11.0	193	14.0	11.0	1968,69
09310500	46	113	226	108	216	110	76.7	1951,52
09314500	38	479	393	390	320	434	217	1951,52
09315000	85	11,110	174	10,890	171	11,000	10,422	1906,07
09328500	48	470	296	483	304	476	344	1916,17
09337000	32	12.5	255	7.8	159	10.2	7.1	1981,82
10011500	42	312	161	308	159	310	239	1967,68
10090500	41	2,142	228	2,526	270	2,334	1,661	1971,72
10106000	47	194	203	230	240	212	150	1971,72
10126000	29	3,992	209	5,050	264	4,521	2,854	1971,72
10128500	80	334	150	324	146	329	347	1921,22
10130500	53	452	216	419	200	436	357	1951,52
10131000	57	181	268	159	236	170	105	1973,74
10136500	64	1,313	226	1,378	238	1,346	1,155	1921,22
10137500	63	193	168	222	193	208	175	1971,72
10170490	41	1,701	363	2,147	458	1,924	667	1952,53
10174500	62	251	198	137	108	194	260	1921,22
10189000	71	160	203	129	163	144	157	1922,23
10206000	39	113	404	172	614	142	48.8	1973,74
10224000	47	1,229	523	1,369	583	1,298	301	1916,17
10234500	70	119	225	98.9	187	109	84.0	1979,80
10237000	70	180	459	125	319	152	72.3	1979,80
10242000	48	86.0	255	42.5	126	64.2	52.2	1968,69

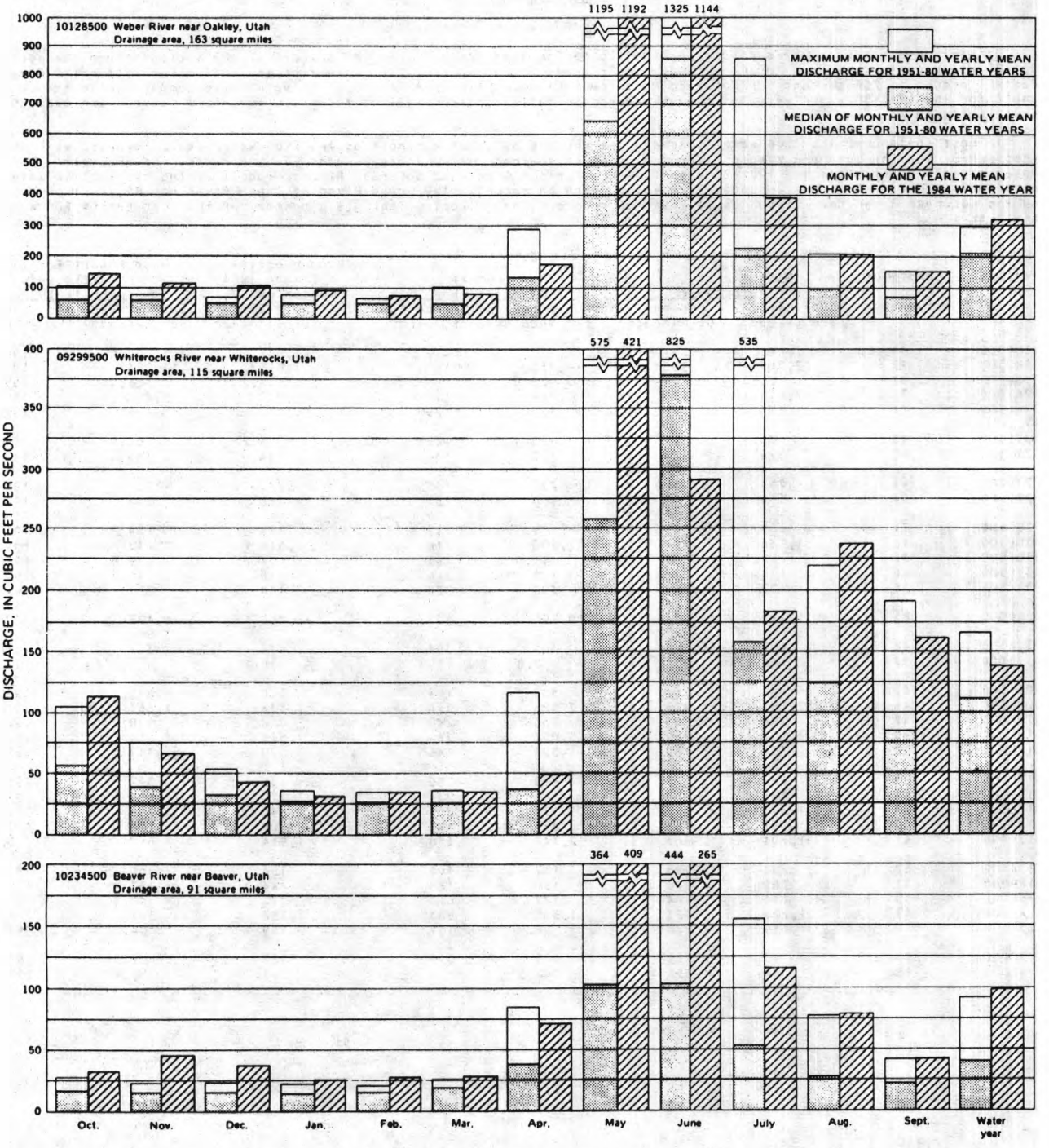

Figure 2.—Comparisons of discharge during the 1984 water year with median and maximum discharge for the 1951-80 water years at seven long-term representative gaging stations.

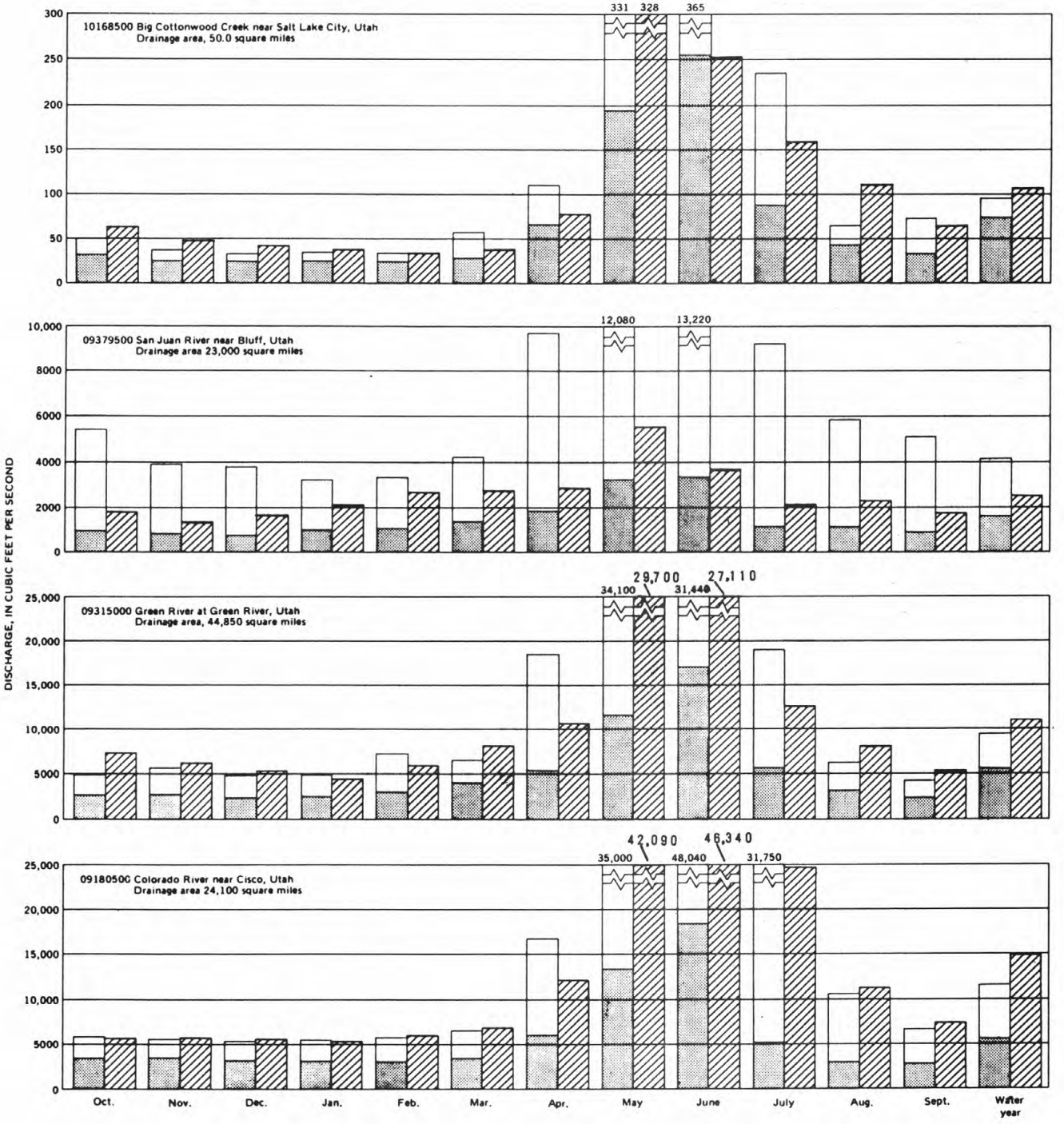

Figure 2.—Comparisons of discharge during the 1984 water year with median and maximum discharge for the 1951-80 water years at seven long-term representative gaging stations—Continued.

Amazingly, with the extreme flow volumes of the last 2 years, only 9 of the sites in the preceding table had record peak discharges during the 1983 water year and only 4 had record peaks during the 1984 water year; peak discharges for those 4 gages are shown in the following table:

Station No.	Cubic feet per second		
	1984 peak	Previous Peak	Water year
09261000	40,000	27,200	1957
09310500	1,450	1,310	1983
10126000	14,000	9,770	1983
10170490	4,510	3,350	1983

As of October 1, 1984, reservoir storage in 19 major irrigation reservoirs was 151 percent of the average, compared to 155 percent of the average the previous year. The elevation of Bear Lake was 5921.65 feet above sea level, with contents of 1,280,400 acre-feet, compared to 1,321,800 acre-feet a year ago.

Great Salt Lake rose 4.90 feet (which was a record documented rise for 1 year) to reach a seasonal peak stage of 4,209.25 feet above sea level on July 1-3, 1984. The peak stage was 4.50 feet higher than the previous years peak stage and was the highest since 1878. Elevation of the lake on September 30, 1984 was 4,207.85 feet. This was 3.50 feet higher than the level the previous year and 16.50 feet higher than the documented record low stage (4,191.35 feet) during October-November 1963.

The historical record for lake elevation begins in 1847, when the pioneeers reached the Salt Lake Valley. The elevation of the lake at that time was about 4,200 feet. The historical record high occurred during 1873 when the lake level was 4211.6 feet above sea level.

Water Quality

Summary of Conditions

By Kendall R. Thompson

The greater than average runoff during both the 1983 and 1984 water years resulted in increased sediment transport and increased turbidity in many streams in the State. In addition, the increased flow was sustained for longer periods in many streams resulting in significant channel erosion, which adversely affected stream habitats.

The rising Great Salt Lake inundated all the major waterfowl-management areas that surround the lake. The saline waters of the Great Salt Lake may mix with the freshwater areas that support the aquatic habitat essential to the waterfowl-management areas. Water with increased salinity in the waterfowl-management areas would not support the aquatic life necessary to support waterfowl. Intrusion of saline water into the Bear River Migratory Bird Refuge has been slowed because of the high flows of the Bear River (Peter Smith, U.S. Fish and Wildlife Service, oral commun., 1985). The saline waters of the Great Salt Lake may eventually mix with the fresher water of the bird refuge as the flows in the Bear River decreases and wave action caused by storms increases. Loss of wildlife habitat around Great Salt Lake due to rising water levels and increased salinity is shown in table A.

Table A.--Damage to wildlife habitats caused by the saline waters of the rising Great Salt Lake (Joel Huener, Utah State Dept. of Natural Resources, written commun., 1985).

Wildlife habitat	Total marsh (acres)	Damaged marsh (acres)
Farmington Bay Wildlife Management Area	10,652	10,652
Howard Slough	2,820	2,820
Harold Crane Wildlife Management Area	7,128	7,128
Public Shooting Grounds	13,063	400
Locomotive Springs	12,000	5,500
Timple Springs Wildlife Management Area	1,440	600
Odgen Bay Wildlife Management Area	16,680	14,200
Bear River Migratory Bird Refuge	65,000	55,250[1]

1 Approximate (Peter Smith, U.S. Fish and Wildlife Service, oral commun., 1985).

Summary of Water-Quality Studies

Reports of four water quality studies made by the U.S. Geological Survey in parts of Utah were open-filed or published during or shortly after the 1984 water year. Selected information in those reports are summarized in the following paragraphs.

A recently completed study in Salt Lake County, Utah, (Thompson, 1984a) identified numerous toxic substances found in the Jordan River, its major tributaries, and major storm conduits. The study determined that of the constituents measured, concentrations of mercury exceeded State standards most frequently. Concentrations of ammonia, cadmium, copper, cyanide, iron, lead, and zinc, also exceeded State standards in one or more samples collected from the river or its major tributaries (table B).

The diversity of toxic substances with concentrations large enough to cause them to be problems increased from the most upstream sampling site at the Jordan Narrows to the next two downstream sites at 9000 South and 5800 South Streets. Concentrations of several trace elements, pesticides, and polychlorinated biphenyls were detected in stream-bottom materials of the river or its major tributaries.

Major storm conduits that drain the urban areas and empty directly into the Jordan River had problem concentrations of toxic substances. Most problem concentrations were detected in samples collected during storm runoff. Cadmium, copper, lead, mercury, and zinc, which were detected in significant concentrations during storm runoff, may be washed from the urban areas and transported to the storm conduits and then rapidly to the Jordan River.

Table B.--Toxic substances in the Jordan River and three major tributaries that exceeded State standards.

Location: See Thompson (1984a, fig. 1).
Number of samples: --Indicates that no sample exceeded State standards.
First line--Number of samples that exceeded State standards.
Second line--Number of above samples collected during storm runoff.
Third line--Total number of samples.

Location	Ammonia, unionized	Cadmium, dissolved	Copper, dissolved	Cyanide, total	Iron, dissolved	Lead, dissolved	Mercury, total	Zinc, dissolved
			Number of samples					
			Jordan River					
Jordan Narrows	--	--	--	--	--	--	15	1
	--	--	--	--	--	--	2	0
	16	28	28	5	25	25	21	28
9000 South Street	--	7	1	--	--	2	14	1
	--	3	0	--	--	0	2	0
	16	33	33	4	30	30	17	25
5800 South Street	7	5	5	1	--	1	14	2
	0	2	1	0	--	0	3	1
	17	33	33	24	30	30	22	33
1700 South Street	6	--	4	--	--	--	27	3
	0	--	2	--	--	--	3	0
	16	43	43	5	40	40	31	43
500 North Street	--	--	2	--	--	1	18	4
	--	--	1	--	--	1	4	1
	16	36	36	5	33	33	21	36
			Tributaries					
Little Cottonwood Creek	1	4	5	--	1	--	8	1
	0	3	4	--	1	--	4	1
	2	21	21	1	21	21	9	21
Big Cottonwood Creek	1	2	2	--	--	--	5	1
	0	1	1	--	--	--	2	1
	1	17	17	1	17	17	9	17
Mill Creek	--	2	1	--	--	--	6	--
	--	2	1	--	--	--	4	--
	1	17	17	0	17	17	8	17

Iron is transported by the Jordan River in the greatest quantity of all the trace elements studied, with a mean load of 110 pounds per day. Notable loads of barium, boron, lead, and zinc also are transported by the river. Most of the arsenic, barium, mercury, selenium, and silver is transported in the dissolved phase, as is about one-third of the chromium, copper, lead, and zinc. Iron is transported almost totally in the suspended phase.

The State standards for several toxic substances were revised subsequent to the completion of the study. This established maximum permissible concentrations and 30 day averages for several trace metals based on water hardness. A comparison of several trace metal concentrations determined during this study and of the revised State standards showed that considerably fewer trace-metal concentrations exceeded the new State standards.

Another recently completed study (Stephens, 1984) examined the dissolved-oxygen regime of the Jordan River. Comparison of historical data for the Jordan River at 1700 South and 5800 South Streets shows that mean dissolved-oxygen concentrations generally decreased from 1974 to 1981 and have increased slightly at both sites since 1981. Mean dissolved-oxygen concentrations during April to September of 1981 and 1982 ranged from 8.1 milligrams per liter at the Jordan Narrows to 4.7 milligrams per liter at 500 North Street. About one-half of all measurements of dissolved oxygen at 1700 South and 500 North Streets were in noncompliance with the State intended-use standard.

Mean concentrations of oxygen-demanding substances as measured by chemical-oxygen demand and biochemical-oxygen demand (BOD_5) increased more than 200 percent as the Jordan River flowed through the Salt Lake Valley. About 40 percent of the samples collected upstream from 5800 South Street had BOD_5 concentrations that exceeded the State standard, but nearly 90 percent of the BOD_5 concentrations downstream from 1700 South Street exceeded the standard.

Concentrations of phytoplankton chlorophyll decreased from a mean of 36 micrograms per liter at the Jordan Narrows to 9 micrograms per liter at 500 North Street due to death of algal cells and dilution by inflowing streams (fig. 3). Production of oxygen by photosyntheses did not result in a net gain of oxygen in 24 hours in the river downstream from 5800 South Street.

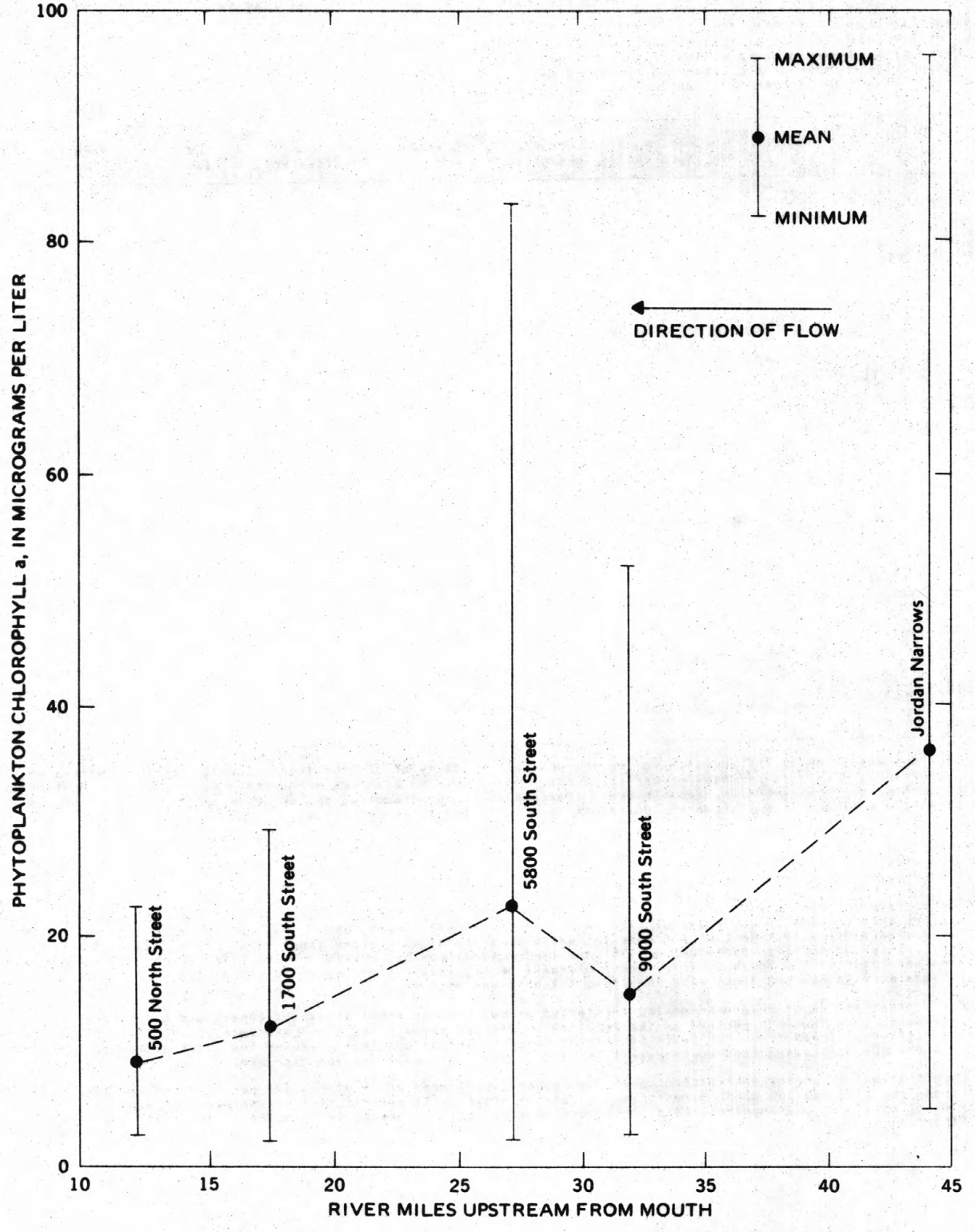

Figure 3.—Decrease in concentrations of phytoplankton chlorophyll a in the Jordan River during the summers of 1981 and 1982.

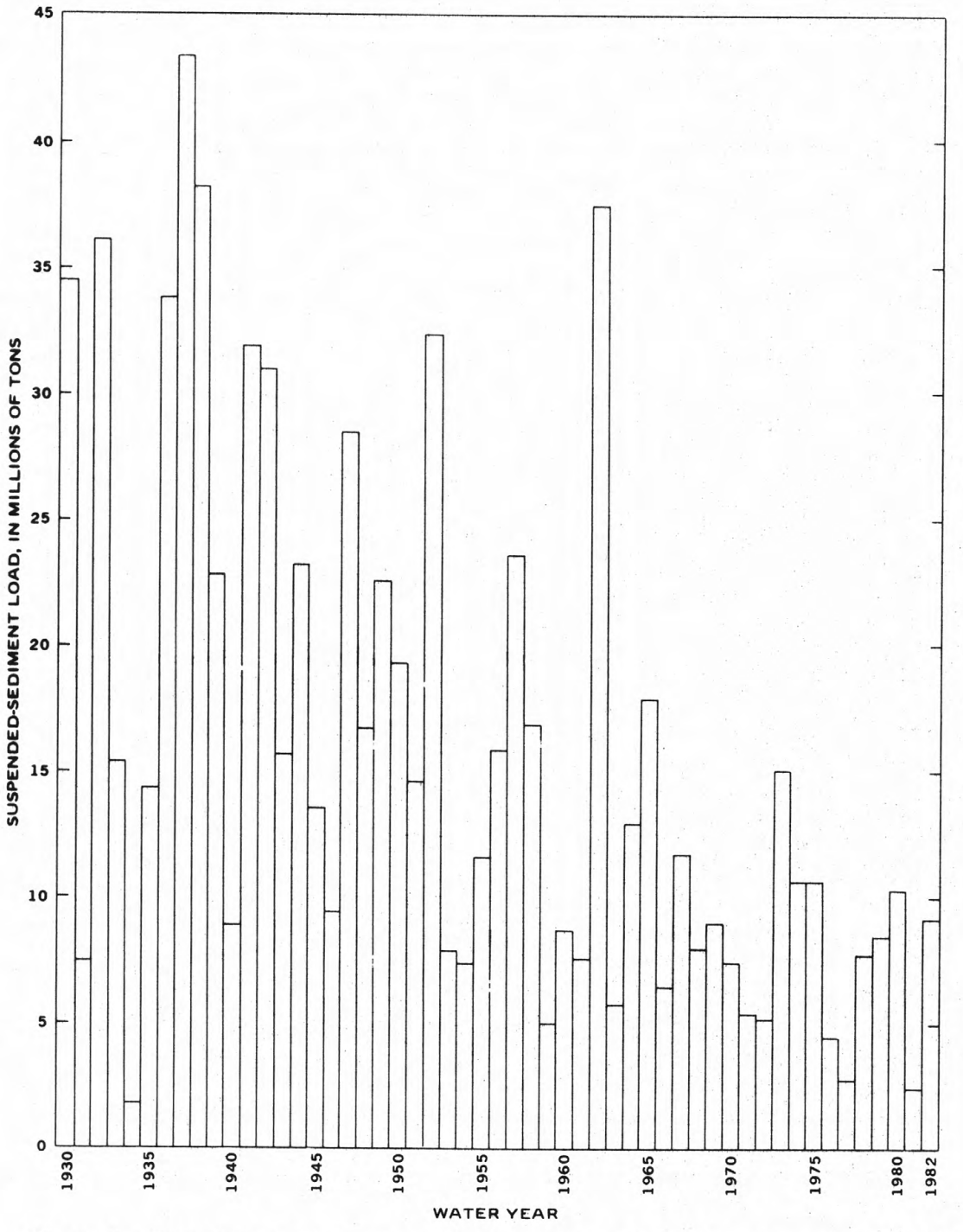

Figure 4.—Annual suspended-sediment load at station 09315000, water years 1930-82.

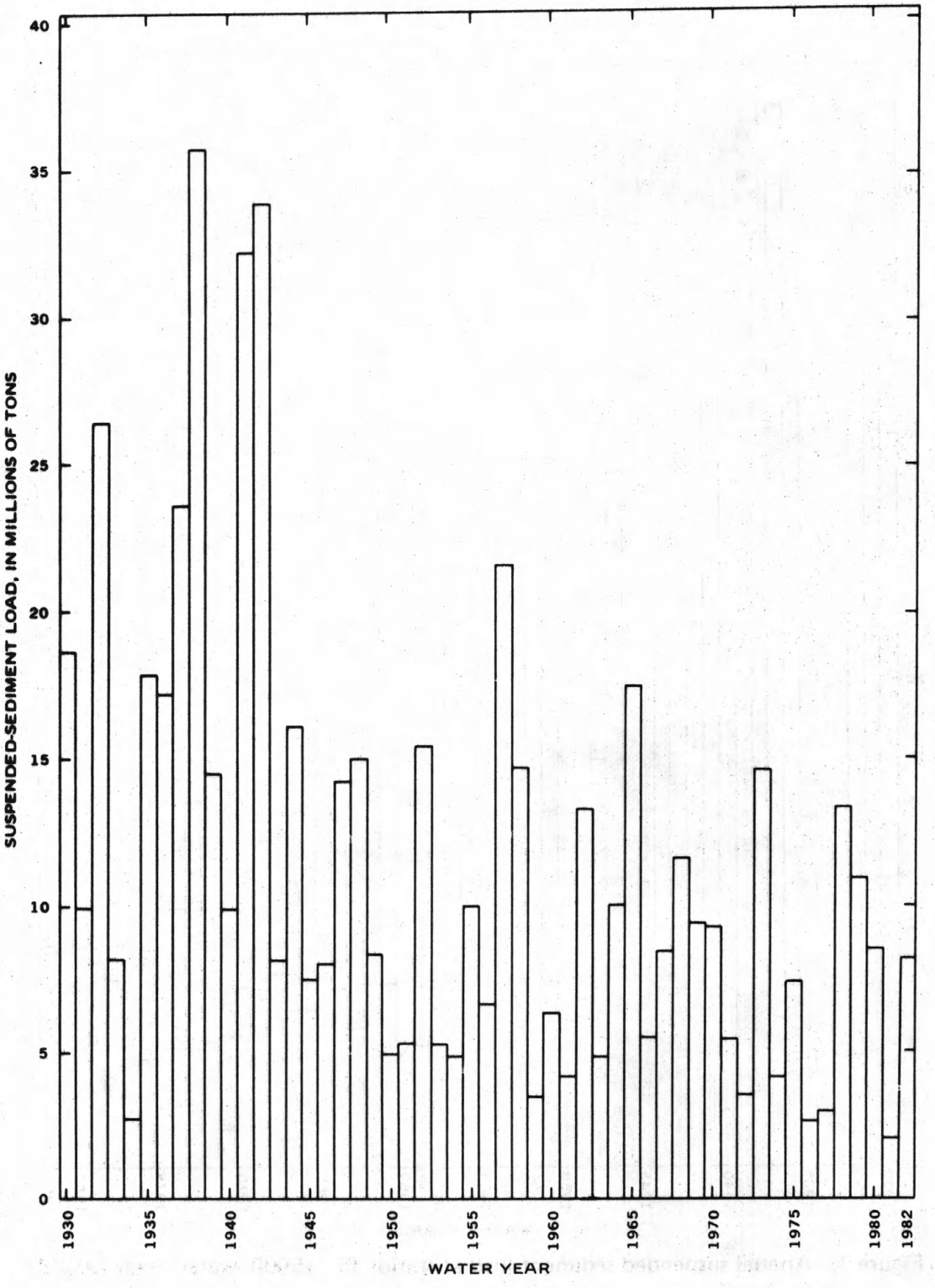

Figure 5.—Annual suspended-sediment load at station 09180500, water years 1930-82.

Concentrations of dissolved oxygen in the Jordan River during storm runoff averaged 6.9 milligrams per liter and were significantly smaller than the mean concentration of 8 milligrams per liter measured during nonstorm periods. Oxygen-demanding wastes discharged from wastewater-treatment plants constituted the greatest point-source load of biochemical oxygen demand to the Jordan River. The total annual oxygen-demanding load as measured by BOD_5 of 6 million pounds that was discharged to the Jordan River from point sources in 1981 consisted of 4.7 million pounds from wastewater-treatment plants, 1.4 million pounds from nonstorm streamflow, and 33,000 pounds from storm runoff. The annual suspended-sediment loads in the Green River at Green River, Utah from 1930-82 were recently studied (Thompson, 1984b). The annual suspended-sediment load varied considerably during this period (fig. 4). The minimum and maximum annual loads occurred within 3 years of each other--the minimum of 1,780,000 tons--during 1934 and the maximum of 43,400,000 tons during 1937. The mean annual suspended-sediment load for 53 years was 15,630,000 tons, with a standard deviation of 10,800,000 tons. The minimum daily suspended-sediment load of 54 tons was on September 27, 1956, and the maximum daily load of 2,230,000 tons was on July 11, 1936.

Flaming Gorge Dam (near the Utah-Wyoming State line) was completed in November 1962 (1963 water year) and impounds water contributed from about 43 percent of the Green River drainage basin upstream from the sampling station at Green River, Utah (station 09315000). Flaming Gorge Reservoir acts as a sediment trap, and it removes most of the suspended-sediment in the Green River from all sources upstream from the dam. Mean annual suspended-sediment loads were decreased by about 4,797,000 tons (35 percent) at the Green River sampling station after the completion of the dam. Annual suspended-sediment yield was decreased from 307 to 200 tons per square mile after completion of the dam.

The annual suspended-sediment loads in the Colorado River near Cisco from 1930-82 were recently studied (Thompson, 1985). The annual suspended-sediment loads in the Colorado River at the Cisco sampling station (station 09180500) also varied considerably (fig. 5). The minimum annual load of 2,038,000 tons occurred during the 1981 water year, and the maximum annual load of 35,700,000 tons occurred during the 1938 water year. The mean annual suspended-sediment load for 53 years of continuous record was 11,390,000 tons, with a standard deviation of 7,895,000 tons. The minimum daily suspended-sediment load of 14 tons was on August 22, 1960, and the maximum daily load of 2,790,000 tons was on October 14, 1941. It is interesting to note that the suspended-sediment load transported on October 14, 1941 (2,790,000 tons), exceeded the suspended-sediment load transported during the entire 1981 water year (2,038,000 tons).

Blue Mesa Reservoir (in western Colorado) was completed on November 27, 1965 and acts as a sediment trap, removing most of the suspended sediment in the Gunnison River in Colorado (the largest tributary to the Colorado River upstream from station 09180500) that originates upstream from the dam. The reservoir impounds water contributed from about 14 percent of the drainage upstream from station 09180500. Mean annual suspended-sediment loads were decreased by about 2,100,000 tons (22 percent) in the Colorado River at Cisco after the closure of Blue Mesa Dam. The mean annual suspended-sediment yield was decreased from 402 tons per square mile to 315 tons per square mile after the completion of the reservoir.

Ground Water

by Joseph S. Gates and Charles Avery

The estimated total withdrawal of water from wells in Utah during 1983 was about 607,000 acre-feet, which is about 183,000 acre-feet less than during 1982 and about 215,000 acre-feet less than the average annual withdrawal for 1973-82 (Avery and others, 1984, table 2). The decrease in withdrawal primarily was due to a decrease in withdrawals for irrigation and public supply. Total withdrawal for irrigation during 1983 was about 334,000 acre-feet (Avery and others, 1984, table 2), which is 170,000 acre-feet less than reported for 1982. Withdrawal for public supply was 130,000 acre-feet, which is 14,000 acre-feet less than during 1982. Withdrawal for industry was 80,000 acre-feet, which is slightly less than that reported for 1982. Withdrawal for domestic and stock use was 63,000 acre-feet, which is 5,000 acre-feet greater than during 1982. This increase, however, was mostly a result of using a new method of determining well discharge in northern Utah Valley (see figure 6 for locations of all basins mentioned in this report).

The quantity of water withdrawn from wells is related to local climatic conditions. Precipitation during 1983 was greater than average throughout Utah (National Oceanic and Atmospheric Administration, 1984). Of the 33 weather stations for which graphs of cumulative departure from average annual precipitation are included in the report by Avery and others (1984), 7 stations recorded about twice the average annual precipitation. The year 1983 was the second consecutive year in which precipitation generally was greater than average.

The greater than average precipitation resulted in abundant surface-water supplies, and this resulted in the decreased use of ground water for irrigation and public supply. The greater than average precipitation throughout Utah during 1983 also resulted in increased recharge to the ground-water reservoirs. The combination of these two effects resulted in rises of water levels throughout most of the State from spring of 1983 to spring of 1984. Rises were common near mountain-front recharge areas in most of the extensively-developed basins of western Utah. In some areas the rises were substantial. In Juab Valley and Pahvant Valley, rises in a few wells were more than 30 feet in a single year (Avery and others, 1984, figs. 19 and 26). Several areas--Curlew Valley, the East Shore, the Sevier Desert, Parowan Valley, and the Milford area, had areas of rise of more than 15 feet (Avery and others, 1984, figs. 2, 6, 22, 23, 31, and 33). Locally 30-40 percent or more of the long-term decline was eliminated during the past 2 years. Continued large withdrawal from wells for irrigation, however, resulted in a decline of water levels in most of the Beryl-Enterprise area of Escalante Valley.

The total number of wells drilled during 1983 (Avery and others, 1984, table 2), as indicated by well-drillers' reports filed with the Utah Division of Water Rights, was about 35 percent less than reported for 1982. The number of large-diameter wells, most of which were constructed for public supply, irrigation, and industrial use, was about 30 percent less than that reported for 1982.

Water-level declines in wells occurred in several areas in Utah between the late 1940's-early 1950's (when water levels throughout the State generally were at their highest levels since measurements began in the early 1930's) and 1984. Areas of decline in Utah are grouped into three general categories. The first includes local areas of decline in the densely populated basins west of the Wasatch Range in northern Utah, such as in the East Shore area (more than 50 feet of decline during 1953-84 in a small area southwest of Ogden, Utah, as shown in the example hydrograph in figure 7) and the Salt Lake Valley (more than 30 feet of decline during 1952-84 or as much as 19 feet for 1936-84 in the southeastern part of the valley, as shown in the example hydrograph in figure 8). These declines are mainly due to pumping for municipal and industrial use, and areas of significant decline generally include less than 20 percent of the basin. Declines throughout most of the basins along the Wasatch Range in north-central Utah (Cache Valley, lower Bear River area, East Shore area, Salt Lake Valley, Tooele Valley, Utah-Goshen Valleys, and Juab Valley), which generally receive more recharge than basins in the central and southwestern parts of the State, generally were small during 1950-84 period, and in some parts of Cache Valley, Utah Valley, and Juab Valley, water levels have risen as much as several feet (Avery and others, 1984, figs. 5, 18, and 20). A hydrograph of a well in Cache Valley, which had its highest recorded water level in 1984, is shown in figure 9.

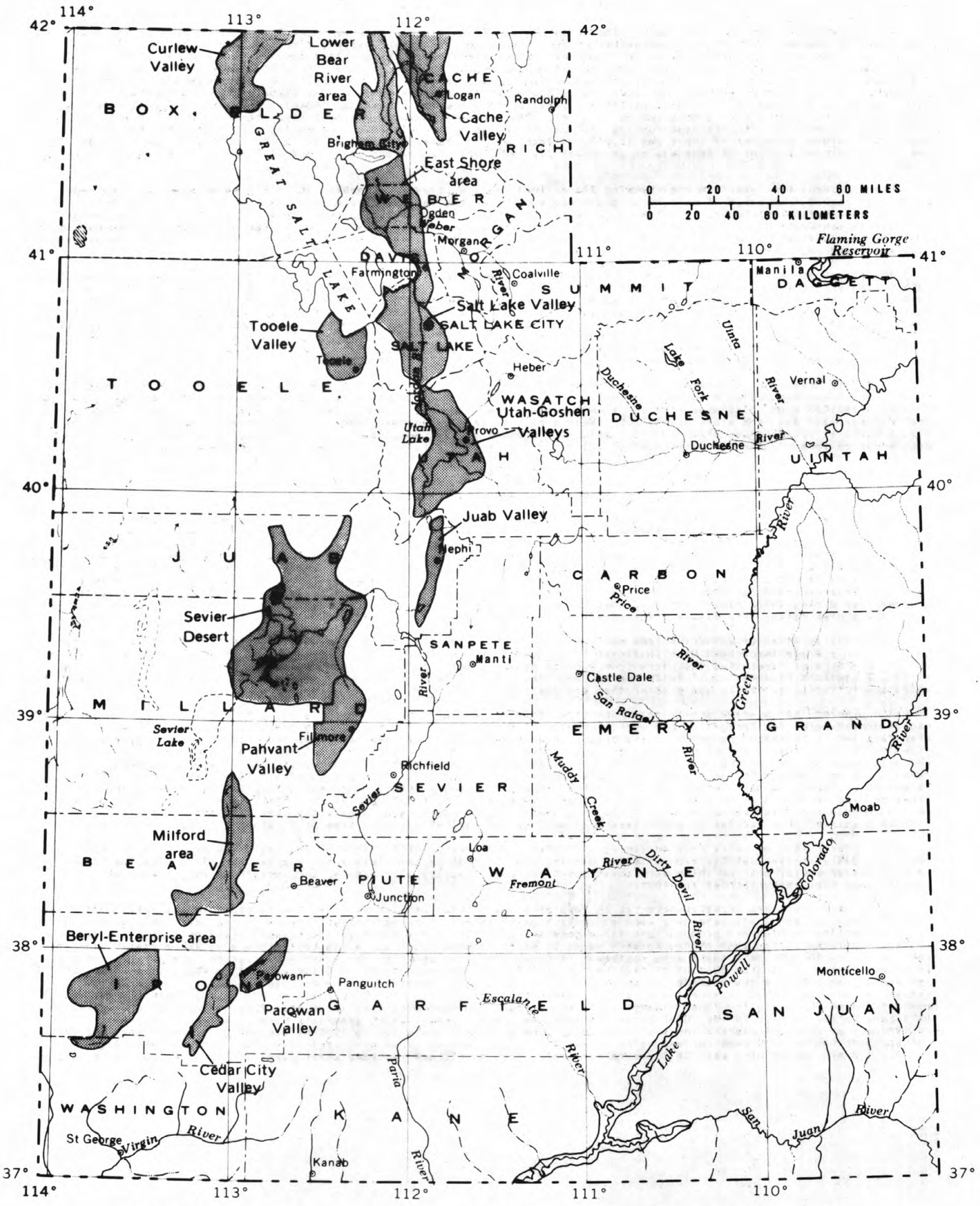

Figure 6.—Areas of ground-water development specifically referred to in this report.

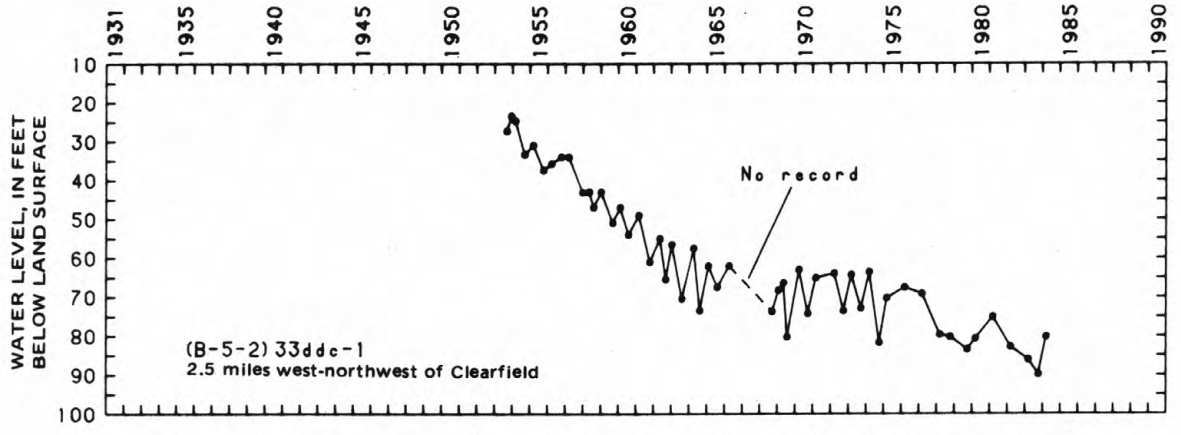

Figure 7.– Hydrograph of a well in the area of water-level decline in the East Shore area.

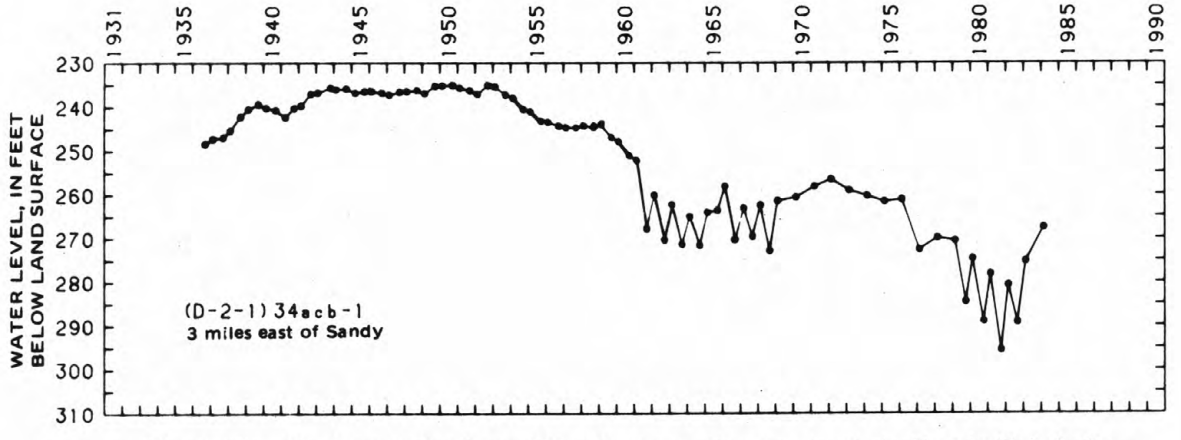

Figure 8.– Hydrograph of a well in the area of water-level decline in Salt Lake Valley.

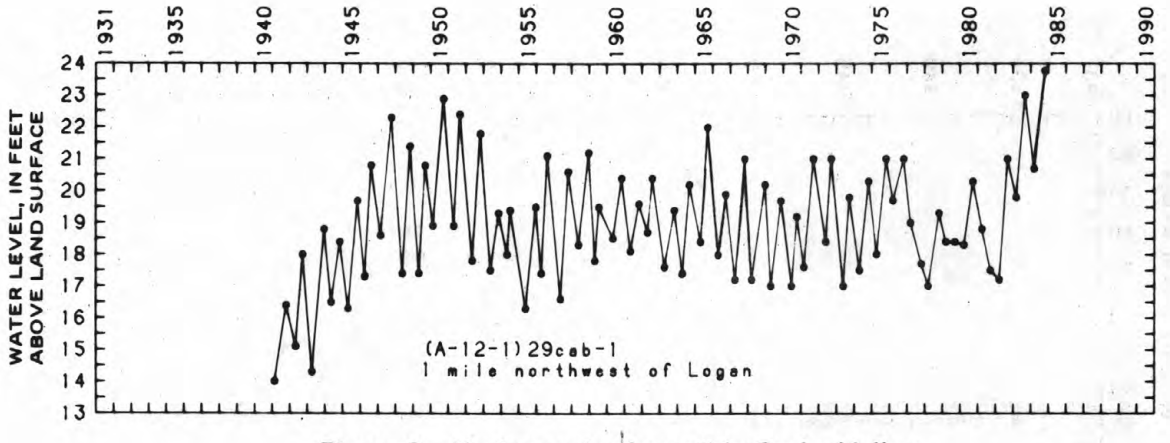

Figure 9.—Hydrograph of a well in Cache Valley.

The second category includes areas of decline in basins on the eastern side of the Great Basin in central and southwestern Utah (Sevier Desert, Pahvant Valley, the Milford area, Cedar City Valley, and Parowan Valley). In these areas, declines were significant (from 8 to about 50 feet) and relatively widespread between about 1950 and 1964-68. An example of these changes is the hydrograph of a well in Pahvant Valley (fig. 10). Declines were mostly due to pumping for irrigation, but probably partly resulted from less than-average precipitation (and recharge) during a period beginning about 1948-49 and ending about 1963-66. In the middle 1960's, it appeared that declines in these basins could be permanent and that they marked the early stages of ground-water mining.

Since the middle 1960's, precipitation overall has been greater than average, and especially during 1980-83. A set of maps prepared by Appel and others (1983, figs. 32, 33, 38, 42, 45, and 48) show water-level changes during 1963-83 in these basins. Water levels in significant areas rose during 1963-83--from about 3 feet in parts of the Sevier Desert to more than 10 feet locally in Pahvant Valley and the Milford area, and more than 20 feet locally in Cedar City Valley. It should be pointed out, however, that even though water-level rises were common during 1963-83, water levels in all these areas also declined locally and the decline was more than 30 feet in one part of Pahvant Valley. In Parowan Valley during 1963-83, water levels declined throughout most of the valley, more than 20 feet locally. The increased precipitation since the middle 1960's therefore, has commonly stabilized the declining levels and even reversed the trends locally. This has resulted from both increased recharge and decreased ground-water withdrawals because more surface water was available for irrigation. In the Sevier Desert, average withdrawal from wells during 1980-83 (14,000 acre-feet per year) was one-third of what it had been during 1976-79 (42,000 acre-feet per year). Other areas had smaller decreases in withdrawals. At present (1985), it's doubtful that these basins in central and southwestern Utah should be considered areas of ground-water mining.

The third category includes only one basin--the Beryl-Enterprise area in the southwestern corner of the State, which probably is the only area in Utah where ground-water mining is occurring. Water levels in most of the Beryl-Enterprise area have declined since pumping for irrigation began in the mid-1940's, with maximum declines of about 60 feet (fig. 11). Declines were steady and progressive between 1945 and 1984, with fluctuations in precipitation having little apparent effect.

Because of variations in recharge and withdrawals throughout the State, there is no basin in Utah which is "typical" in terms of water-level changes during the past 30 to 35 years. Basins in the second category probably cover more areas of water-level decline than the other two categories. In the second category, no basin is really representative of all of them--but perhaps the Milford area (fig. 12) is closest to "typical".

The Milford area was settled in 1859 and the first use of water for irrigation was from the Beaver River. The main use of ground water in the area is for supplemental irrigation (96 percent during 1983), and most of that is for alfalfa. Well yields typically range from about 400 to 1,800 gallons per minute, with the discharge of several wells more than 2,000 and one at 3,260 gallons per minute. Irrigation using ground water began about 1916 and pumpage from wells more than tripled between 1942 and 1953 (13,000 to 42,000 acre-feet per year). During 1972-81, annual withdrawals averaged about 61,000 acre-feet. No complete data are available on irrigated acreage with time. Between 1942 and 1953, however, land irrigated by wells increased from 3,500 to 9,430 acres (Waite and others, 1954). Total irrigated acreage probably increased about 30 to 40 percent from 1927 to 1953 and 5 to 10 percent from 1953 to 1970.

Ground water in the Milford area is confined at depth along the axis of the basin and unconfined at shallow depths and around the margins of the basin. Water levels before development were quite variable--some wells flowed, and water levels in a few at the basin margins were almost 400 feet below the land surface. In the early stages of development (early 1950's and before), water levels fluctuated seasonally one to three feet (levels in one well fluctuated as much as 10 feet in 1953), and since the mid-1950's fluctuations have been two to four times greater because of large-volume pumping from wells. These changes can be seen on the hydrograph of the key observation well at Milford, (C-29-10)6ddc-2, (fig. 13). Water levels have, of course, declined in response to the large increase in pumpage beginning about 1950, but the effects of increased precipitation since 1964 (which resulted in more surface water, more direct recharge, more indirect recharge from land irrigated by surface water, and decreased pumping) can be seen in the stabilizing of levels since 1966 on the hydrograph in figure 13.

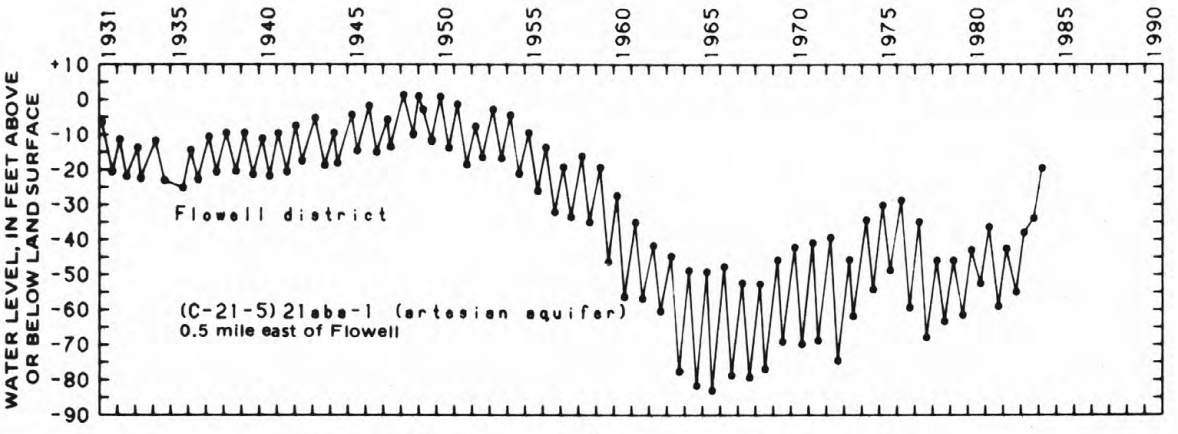

Figure 10.—Hydrograph of a well in Pahvant Valley.

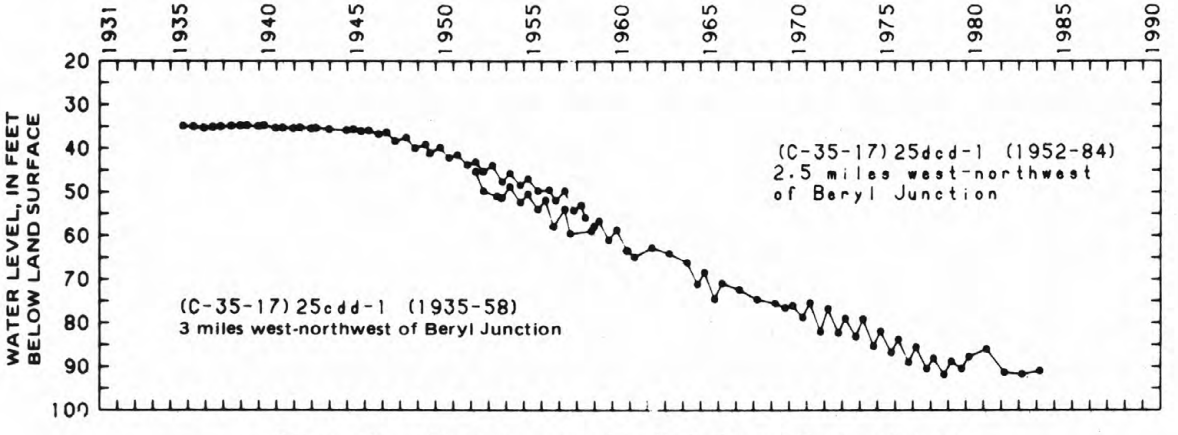

Figure 11.—Hydrograph of wells in Beryl-Enterprise area.

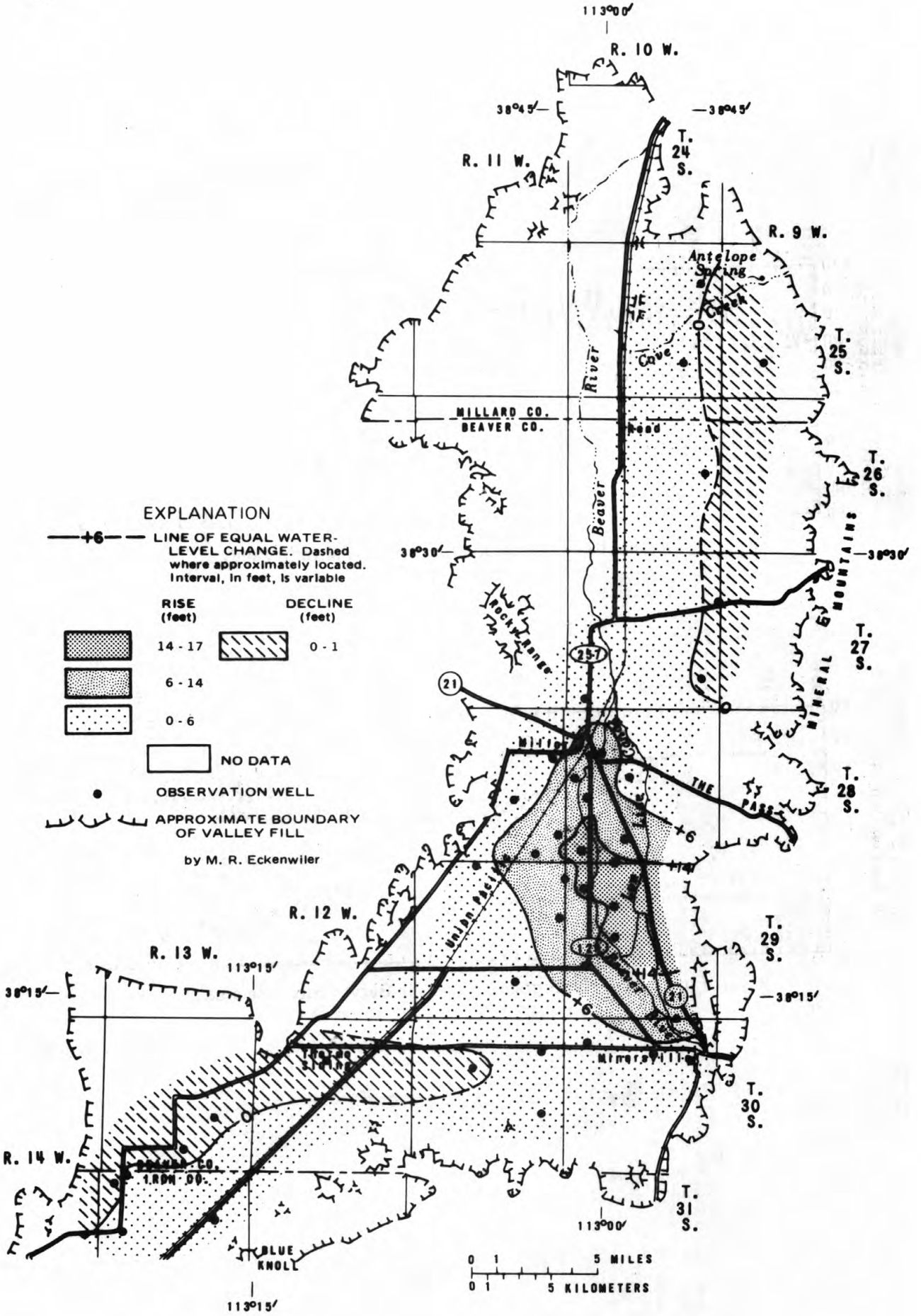

Figure 12.—Map of Milford area, showing change of ground-water levels, March 1983 to March 1984.

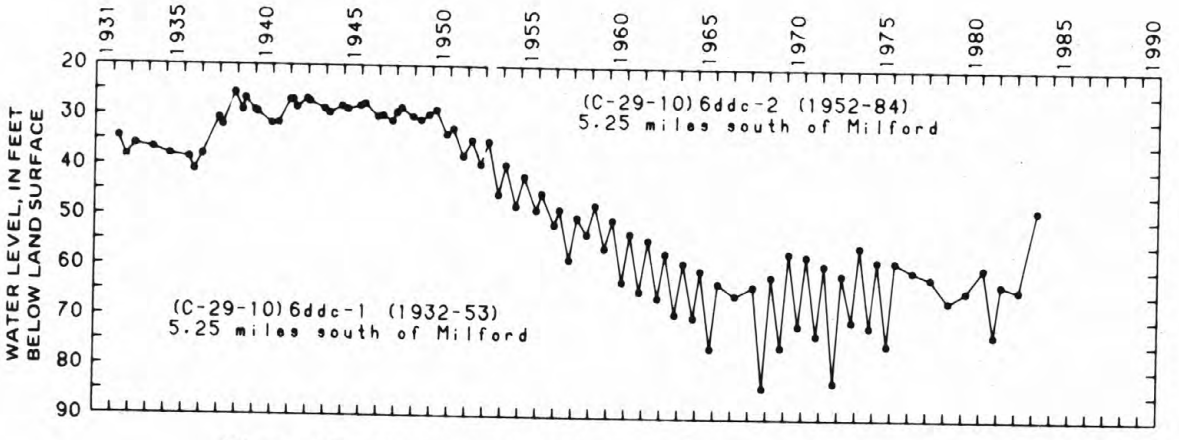

Figure 13.—Hydrograph of the key observation wells at Milford.

Effects of recharge to the system can be seen on the water-level change map of 1983-84 (fig. 121), when rises in water levels (as much as 17 feet) were concentrated along the Beaver River and nearby irrigated areas. Similar patterns of rise were noted in 1969-70, 1973-74, and 1980-81 following high flows in the Beaver River in 1969, 1973, and 1980.

Mower and Cordova (1974, p. 24-29) discussed water in storage in the Milford area. Their discussion indicated that the estimated total recoverable ground water in storage is about 15 to 20 million acre-feet, and they computed that an average water-level decline of 1 foot in 1972 would remove 84,000 acre-feet from storage. This computation was made assuming a storage coefficient of 0.20 throughout the whole area, even though along the axis of the valley, water at depth is confined. Many of the irrigation wells in the area have shallow perforations (less than 100 feet) and the water-level declines measured probably do occur at about the same magnitude at the water table. The total saturated thickness in the area probably averages at least 200 to 300 feet and the maximum thickness, as presently explored by wells, is about 500 to 1,000 feet, so the maximum decline of about 40 feet during the 1948-67 period was about 10 percent of the total saturated thickness.

The only secondary effect of water-level declines so far has been some minor land subsidence (Mower and Cordova, 1974, p. 37) and some surface fracturing. The fracturing probably is related to drying of a shallow clay zone due to declines in shallow water levels (Mower and Cordova, 1974, p. 7-8).

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DEFINITION OF TERMS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Bottom material: See Bed material.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

FTU is an abbreviation for "Formazin Turbidity Units."

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The classification is as follows:

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

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

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

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

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

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

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

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

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

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

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

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

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

Milligrams of carbon per area or volume per unit time [mg C/(m2 x time) for periphyton and macrophytes and mg C/(m^3 x time)] for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

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

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

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

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

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

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

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

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

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

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

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

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

Substrate is the physical surface upon which an organism lived.

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

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

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

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

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

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

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

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

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

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

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

Water Year in Geological Survey reports, is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1983 is called the "1983 water year."

DOWNSTREAM ORDER AND STATION NUMBER

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

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

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

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

The well and miscellaneous site number system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, and the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits are a sequential number for wells within a 1-second grid. In the event that the latitude-longitude coordinates for a well and miscellaneous site are the same, assign sequential numbers "01," "02," etc. as one would for wells. See figure 14.

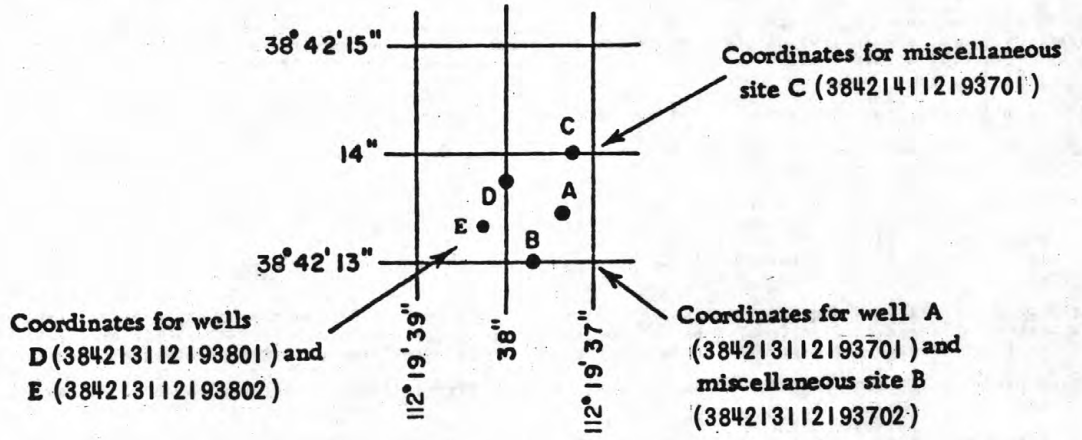

Figure 14.—System for numbering wells and miscellaneous sites (latitude and longitude).

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

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

SPECIAL NETWORKS AND PROGRAMS

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

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

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.

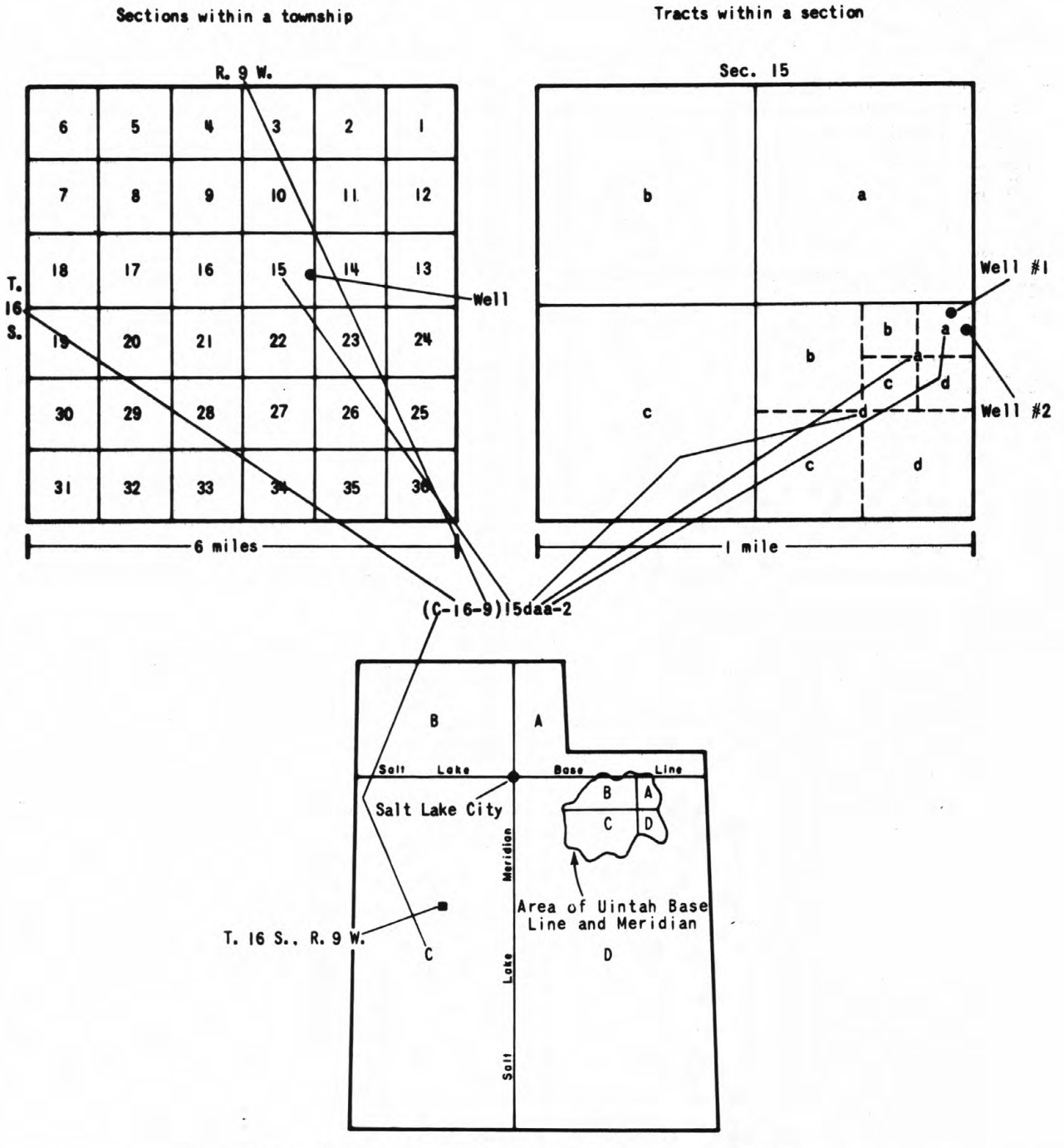

Figure 15.—System for numbering wells (township and range).

EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS

Collection and Computation of Data

The base data collected at gaging stations (fig. 16) 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 18.

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

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

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

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

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

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

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

Accuracy of Field Data and Computed Results

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

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

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

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

Other Data Available

Information of a more detailed nature than that published for most of the gaging stations such as discharge 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 1984 water year by the following agencies: Records at 13 sites were collected by the U.S. Forest Service, at 4 sites by the Weber River Distribution System; and at 2 sites each by the Ogden Bay Water Fowl Management Area and the Salt Lake County Water Conservancy District; and at 1 site each by the following: Ogden River Water Users, Clear Lake Waterfowl Management Area, Metropolitan Water District of Salt Lake City, Utah Department of Natural Resources, U.S. Army Corps of Engineers, and U.S. Bureau of Reclamation. The Office of Water Data Coordination, Water Resources Division, U.S. Geological Survey, Reston, Virginia 22092, maintains an index of these sites. Information on records of specific sites can be obtained form that office upon request.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Surface-water samples for analyses usually are collected at or near gaging stations (fig. 17). The quality-of-water records are given immediately following the discharge records at these stations.

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

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

Water Analysis

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

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

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

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

Specific conductance and temperature only were measured at 162 stations in Utah, usually at 1-month intervals (fig. 18). In the tables on pages 401 to 433 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. 19). 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 14 and 15.)

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

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

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

Access to WATSTORE Data

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

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

General inquiries about WATSTORE may be directed to:

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

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

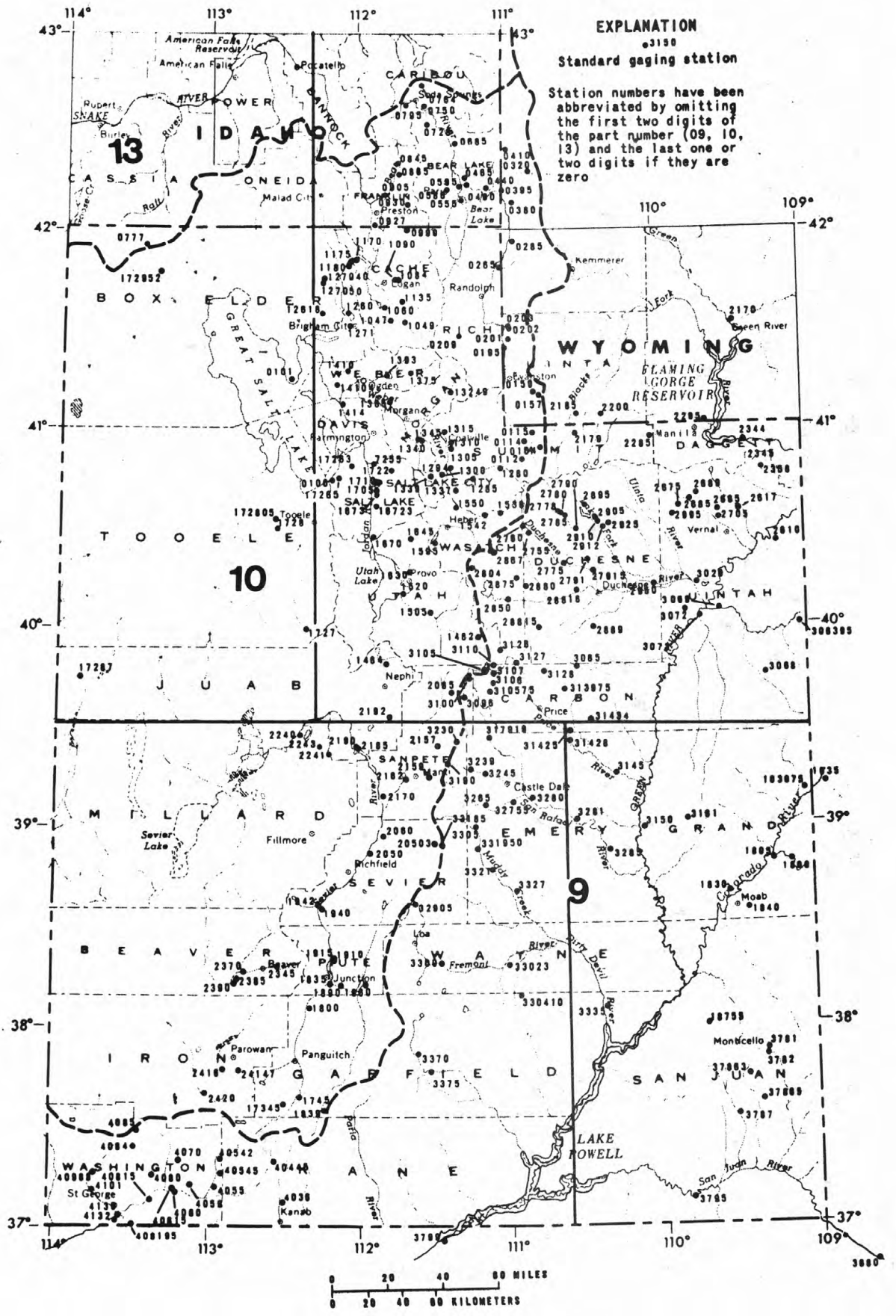

Figure 16.—Map showing location of gaging stations in Utah.

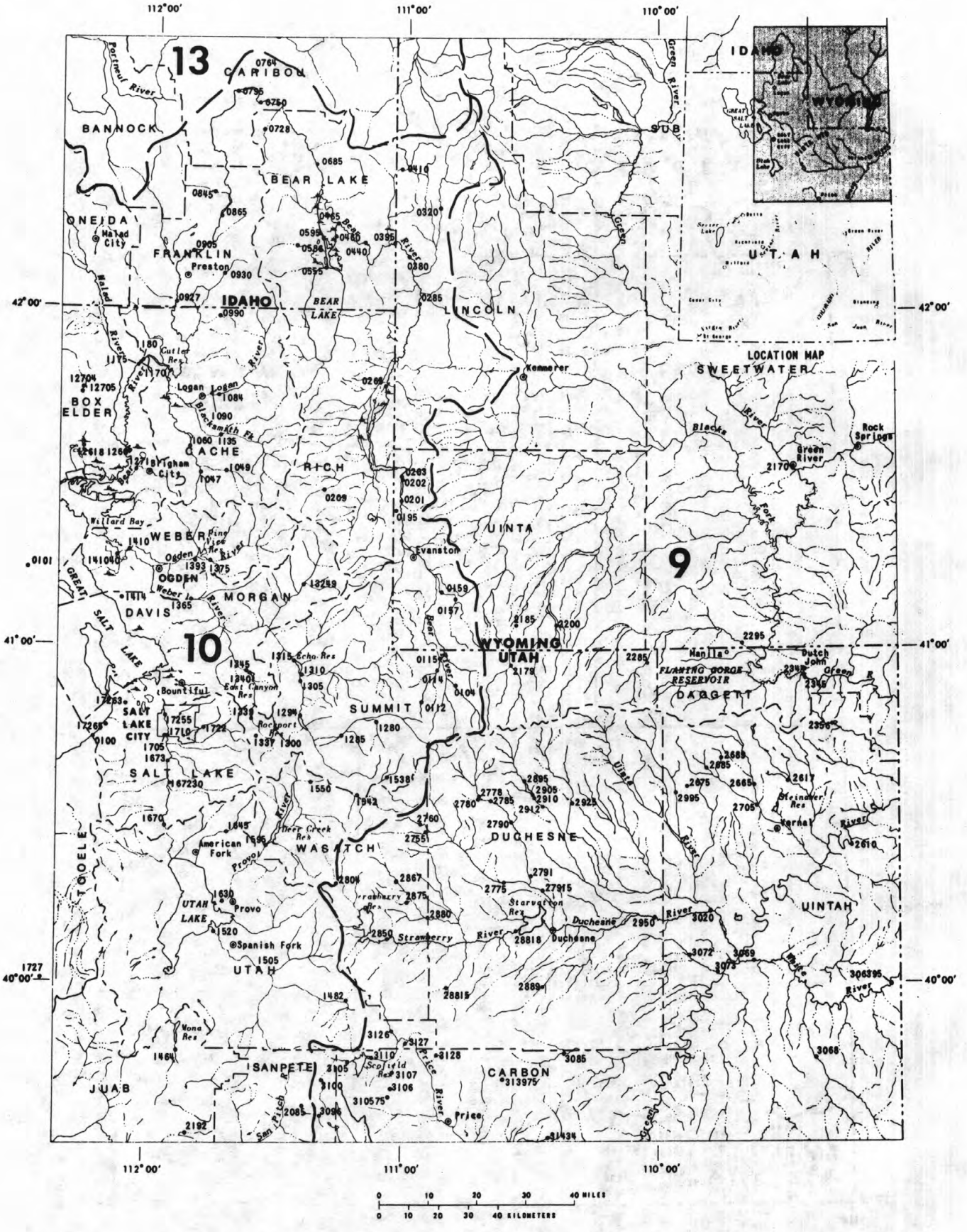

Figure 16.—Map showing location of gaging stations in Utah—Continued.

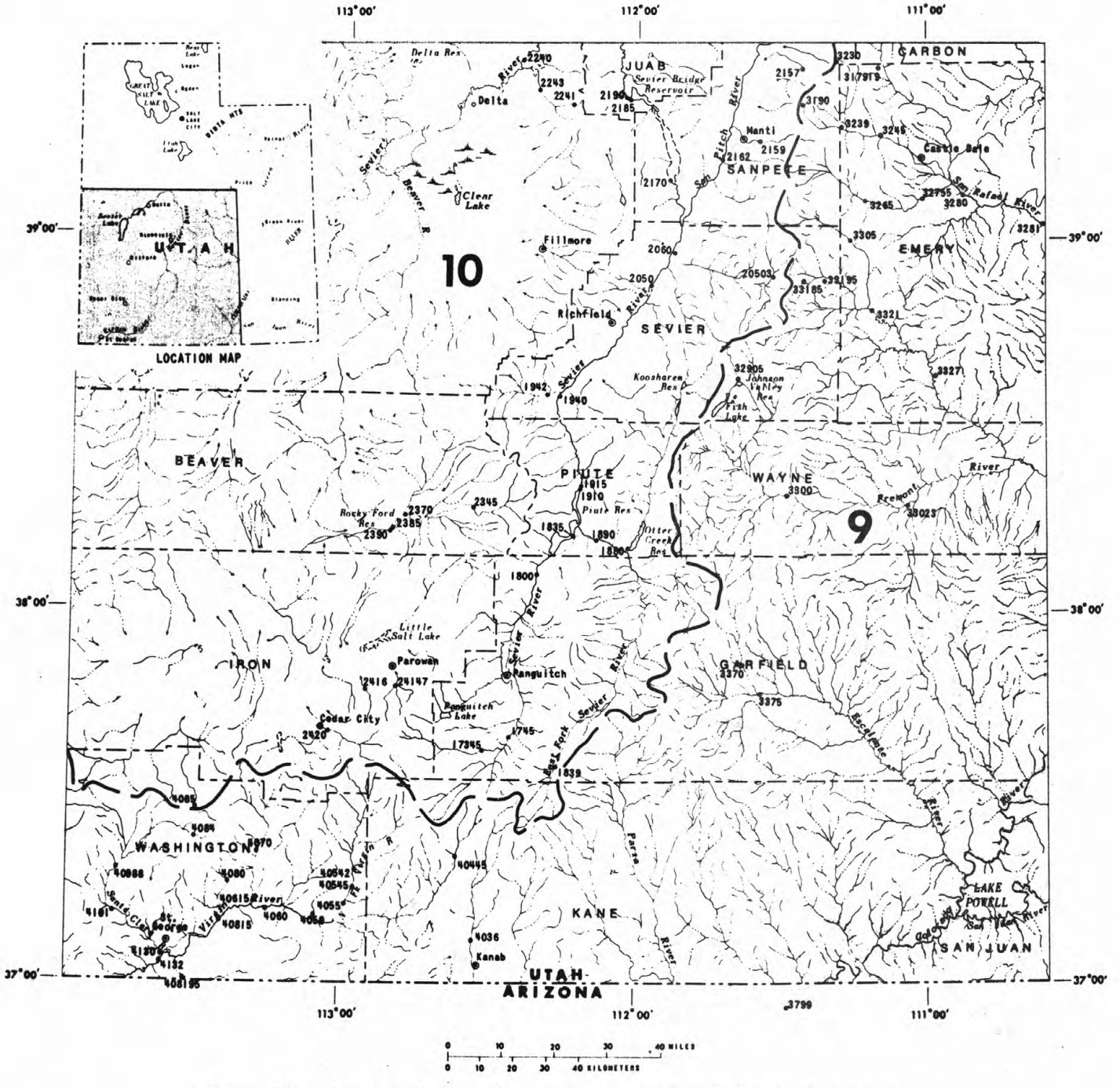

Figure 16.—Map showing location of gaging stations in Utah—Continued.

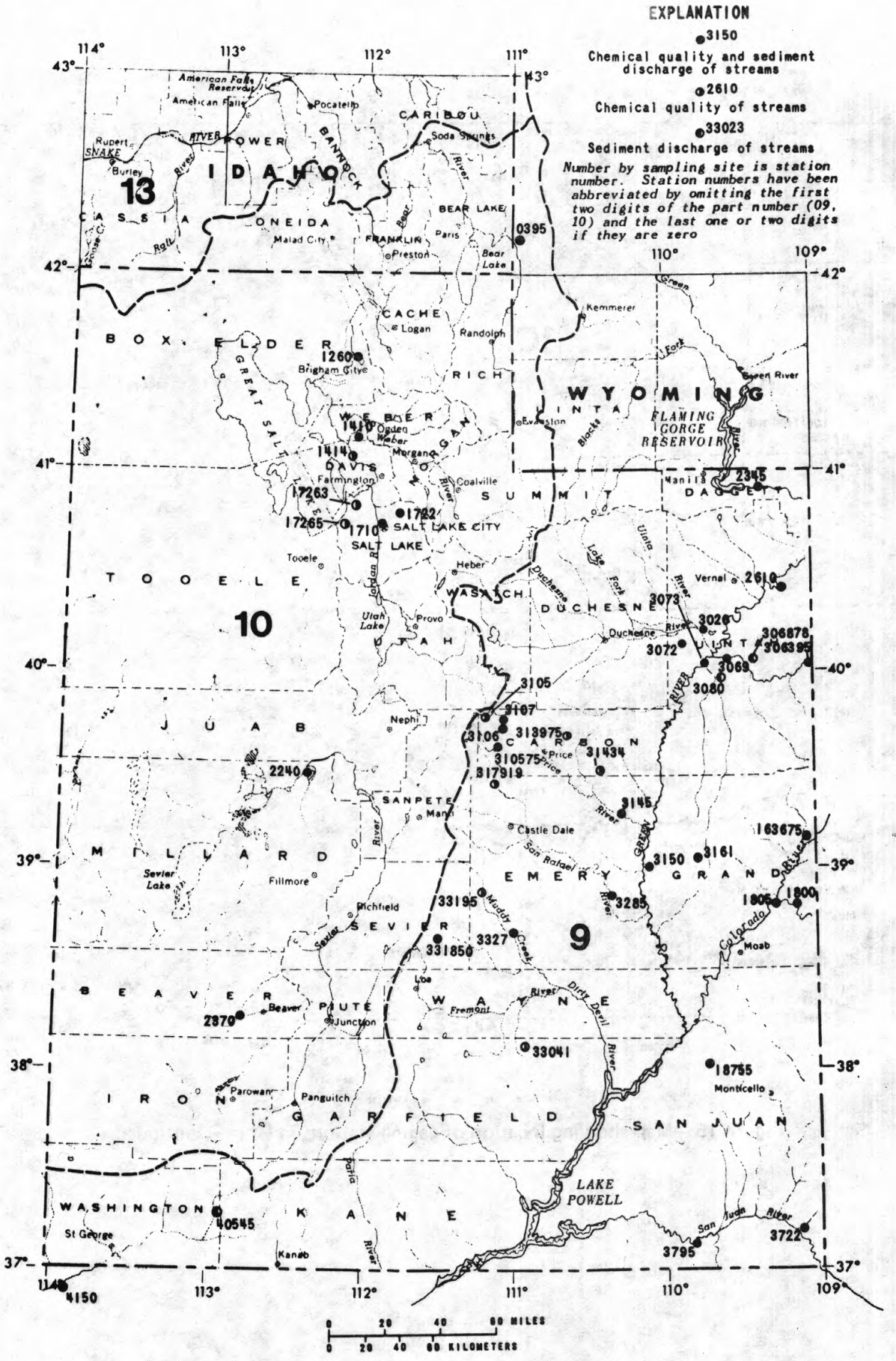

Figure 17.—Map showing location of surface-water-quality stations in Utah.

COLORADO RIVER MAIN STEM

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE

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

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

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

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

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

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

AVERAGE DISCHARGE.--33 years, 6,133 ft^3/s, 4,443,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 69,800 ft^3/s May 27, 1984, gage height, 16.12 ft (from highwater mark); minimum daily, 960 ft^3/s Sept. 7, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 69,800 ft^3/s May 27, gage height, 16.12 ft (from highwater mark); minimum daily, 3,370 ft^3/s Jan. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4790	5440	5270	5030	5200	5470	7470	8800	53100	39300	12900	8030
2	5100	4280	5330	5400	5000	5520	7360	9130	54600	39300	12400	8270
3	5000	4110	5440	5310	5100	5720	7200	10700	52400	37400	12000	8660
4	4850	4150	5710	4960	4900	5800	6990	10800	46700	36800	11500	8920
5	4790	4150	5700	4840	5100	5660	6900	11600	43900	35400	10000	8500
6	4790	4160	5470	5400	5300	5270	7270	13400	43700	33100	10900	7990
7	4800	4170	5250	5680	5600	5410	7610	13600	48300	30100	10600	7110
8	4800	4750	4970	5640	6000	5720	7930	13000	56300	26900	10400	6780
9	4800	5600	5160	5690	6710	5810	8500	13400	49700	25600	9740	6780
10	4820	5210	5590	5760	5910	5920	9080	15900	42200	25800	8820	6460
11	4820	5520	5550	5880	5490	6130	7950	20300	37200	28100	8560	6550
12	4840	5700	5450	5650	5540	6280	7810	25700	35900	26100	8430	6330
13	4730	5740	5160	5350	5590	6130	7470	31900	36800	23200	7930	6250
14	5320	5770	5000	5340	5680	6170	7090	38500	37700	22000	8140	6200
15	5600	5720	5120	5950	6040	6490	7010	44400	41000	24500	7890	6010
16	5720	5620	5190	5640	5820	6790	7420	51600	44300	22900	7960	6140
17	5570	5620	5360	5160	5630	6860	8460	53400	45900	20600	8070	7070
18	5560	5600	5270	4930	5660	6590	10400	52000	43400	18600	7640	6790
19	5520	5790	5360	4000	5600	6410	12800	50600	40100	16400	8100	6550
20	5510	5660	5450	3480	5420	6300	13100	45000	40600	15300	9520	6330
21	5550	5630	5370	3370	5350	6250	11300	47400	41200	14600	9830	6260
22	5570	5710	5020	3790	5320	6640	9520	51200	41200	14200	10200	6310
23	5470	5620	4840	3800	5390	6870	8630	53600	40700	14200	9740	6290
24	5380	5340	4860	4400	5380	6760	9390	58400	40400	13600	9590	6190
25	5290	5260	4830	5100	5360	6210	12200	64200	39600	14300	10300	6110
26	5260	5270	5110	4800	5390	6560	13700	68200	39800	13600	10900	6000
27	5260	5380	5630	4700	5380	6910	11800	68300	39200	13600	10600	6120
28	5110	5420	5860	4600	5330	6770	10200	64600	40000	13200	9820	6090
29	5170	5320	5340	4700	5340	6720	9090	59300	39500	13100	9480	5960
30	5150	5350	4760	4900	---	6880	8870	54500	38200	13500	9430	5960
31	5230	---	4700	5200	---	7300	---	53200	---	12900	8540	---
TOTAL	160170	157060	163120	154450	159530	194320	270520	1176630	1293600	698200	299930	203010
MEAN	5167	5235	5262	4982	5501	6268	9017	37960	43120	22520	9675	6767
MAX	5720	5790	5860	5950	6710	7300	13700	68300	56300	39300	12900	8920
MIN	4730	4110	4700	3370	4900	5270	6900	8800	35900	12900	7640	5960
AC-FT	317700	311500	323500	306400	316400	385400	536600	2334000	2566000	1385000	594900	402700

CAL YR 1983 TOTAL 4053390 MEAN 11100 MAX 60200 MIN 3220 AC-FT 8040000
WTR YR 1984 TOTAL 4930540 MEAN 13470 MAX 68300 MIN 3370 AC-FT 9780000

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Colorado, 1984."

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

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

DRAINAGE AREA.--170 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1983 to current year.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 425 ft^3/s July 27, 1984, gage height, 7.63 ft; minimum daily, 0.60 ft^3/s Jan. 19, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 425 ft^3/s July 27, gage height, 7.63 ft; minimum daily, 0.60 ft^3/s Jan. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	4.5	5.0	3.2	2.4	7.8	10	8.1	4.3	4.4	5.3	4.3
2	78	4.5	5.2	2.8	2.6	8.8	13	8.2	4.5	3.8	5.0	4.1
3	8.1	4.5	5.0	2.7	2.7	6.2	7.1	8.2	4.9	3.8	4.9	4.3
4	4.7	4.5	5.0	2.5	2.9	4.9	7.8	8.2	5.1	3.8	5.0	4.3
5	4.5	4.5	4.8	2.8	3.1	6.3	7.3	8.4	6.8	3.8	4.8	4.4
6	4.5	4.5	4.7	3.0	2.9	8.1	6.6	8.4	8.1	3.8	5.2	4.7
7	4.5	4.7	4.5	3.1	2.7	10	6.7	8.7	13	3.7	5.0	4.8
8	4.5	7.6	4.7	3.0	3.2	8.1	6.5	8.8	6.8	3.7	4.6	4.8
9	4.3	7.8	4.4	2.9	3.6	7.0	6.1	6.7	6.8	3.7	4.3	4.8
10	4.3	3.6	4.5	2.7	4.1	6.3	6.1	6.4	6.8	4.0	2.7	4.6
11	4.3	3.6	4.2	3.4	4.5	7.0	6.7	6.3	6.5	4.2	2.4	3.9
12	4.3	3.6	4.4	2.8	3.6	6.5	6.6	6.0	6.8	4.2	2.5	49
13	4.5	3.6	4.4	2.8	3.0	6.5	6.4	5.3	7.0	4.5	2.5	4.1
14	4.5	3.6	4.3	3.5	4.0	6.5	6.3	4.7	7.0	5.0	2.4	2.9
15	4.5	3.6	4.4	2.6	5.0	6.7	6.2	4.9	7.0	11	2.6	2.7
16	4.5	3.6	4.2	1.4	4.0	6.4	6.4	5.1	7.3	6.2	3.2	2.8
17	4.5	3.6	4.3	1.0	4.5	6.9	6.4	3.5	7.3	5.7	3.0	5.0
18	4.5	4.5	4.1	.80	4.0	9.0	7.2	4.3	7.0	5.4	5.0	4.7
19	4.5	4.7	4.2	.60	4.8	6.6	8.1	4.7	6.5	5.1	100	4.5
20	4.5	4.7	4.3	.70	5.2	6.1	10	4.7	5.9	5.2	78	5.4
21	4.6	4.7	4.0	1.0	5.0	6.6	8.4	4.5	5.6	5.0	31	5.8
22	4.5	4.9	4.0	1.8	6.4	7.4	7.9	4.5	4.0	5.3	6.4	6.0
23	4.5	4.9	4.0	2.4	5.2	6.4	7.9	4.2	3.5	17	5.2	6.0
24	4.5	4.9	4.2	2.1	5.8	6.4	8.1	4.3	3.5	9.5	5.1	7.0
25	4.4	4.9	4.3	2.3	7.2	6.0	8.6	4.3	3.8	8.3	5.0	7.3
26	4.5	4.9	4.4	2.7	5.8	6.6	9.1	4.2	4.0	9.3	32	7.6
27	4.5	4.9	4.6	2.2	6.4	6.6	9.2	4.5	3.6	68	6.6	8.2
28	4.5	4.7	4.4	2.4	6.8	6.2	8.4	4.3	3.6	6.6	4.8	7.2
29	4.5	4.9	4.1	2.4	6.4	6.6	8.5	4.2	3.8	7.6	4.1	7.6
30	4.5	4.5	3.1	2.3	---	9.8	8.4	4.2	4.0	7.4	6.6	7.6
31	4.5	---	2.9	2.2	---	11	---	4.2	---	6.1	4.6	---
TOTAL	217.0	138.0	134.6	72.10	127.8	221.3	232.0	177.0	174.8	245.1	359.8	200.4
MEAN	7.00	4.60	4.34	2.33	4.41	7.14	7.73	5.71	5.83	7.91	11.6	6.68
MAX	78	7.8	5.2	3.5	7.2	11	13	8.8	13	68	100	49
MIN	4.3	3.6	2.9	.60	2.4	4.9	6.1	3.5	3.5	3.7	2.4	2.7
ACFT	430	274	267	143	253	439	460	351	347	486	714	397

WTR YR 1984 TOTAL 2299.90 MEAN 6.28 MAX 100 MIN .60 ACFT 4560

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1983 to current year.
SEDIMENT DATA: April 1983 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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												
25...	1300	4.4	1230	8.4	12.0	15.5	380	7.6	45	65	140	44
NOV												
30...	1100	5.6	1570	8.5	2.0	0.0	500	10	66	82	190	45
DEC												
28...	1230	4.4	1260	8.4	-3.0	0.0	420	8.4	56	68	160	45
MAR												
13...	1620	7.0	1370	8,5	15.5	14.0	440	8.8	63	69	180	47
APR												
12...	1245	6.6	1400	8.6	12.0	11.0	460	9.2	57	77	180	46
MAY												
09...	1330	6.9	1410	8.6	23.0	19.5	430	8.6	51	74	170	46
JUN												
19...	1330	6.6	1200	8.6	26.5	26.5	380	7.6	41	67	150	46
JUL												
16...	1230	5.6	1200	8.6	30.0	28.0	370	7.4	50	60	130	43
AUG												
14...	1300	2.2	1300	8.6	33.0	26.0	380	7.6	36	70	160	48
SEP												
07...	1350	4.9	1240	8.6	25.5	20.0	370	7.5	44	64	140	45

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												
25...	3.2	2.2	340	300	13	0.2	19	789	1.1	9.4	<0.1	<0.01
NOV												
30...	3.8	2.3	490	400	15	0.2	20	1070	1.5	16.2	<0.1	0.01
DEC												
28...	3.5	1.9	430	330	13	0.2	17	905	1.2	10.8	<0.1	<0.01
MAR												
13...	3.8	2.1	430	400	14	0.2	17	1000	1.4	18.9	<0.1	0.02
APR												
12...	3.7	1.7	400	420	13	0.2	18	1010	1.4	17.9	<0.1	0.02
MAY												
09...	3.6	1.7	360	400	13	0.2	19	944	1.3	17.6	<0.1	0.02
JUN												
19...	3.4	1.9	320	300	12	0.2	16	781	1.1	13.9	<0.1	<0.01
JUL												
16...	3.0	2.4	350	270	10	0.2	19	752	1.0	11.4	<0.1	0.01
AUG												
14...	3.6	2.5	360	340	12	0.2	19	854	1.2	5.1	<0.1	<0.01
SEP												
07...	3.2	2.6	370	270	10	0.2	20	770	1.0	10.1	<0.1	0.01

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT 25...	1300	40
NOV 30...	1100	40
DEC 28...	1230	40
MAR 13...	1620	50
APR 12...	1245	40
MAY 09...	1330	40
JUN 19...	1330	40
JUL 16...	1230	40
AUG 14...	1300	80
SEP 07...	1350	40

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .125 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .250 MM
OCT 25...	1300	4.4	15.5	83	0.99	--	--	--	--	--	--
NOV 30...	1100	5.6	0.0	119	1.8	--	--	--	--	--	--
DEC 28...	1230	4.4	0.0	86	1.0	--	--	--	--	--	--
MAR 13...	1620	7.0	14.0	621	12	35	52	75	98	99	100
APR 12...	1245	6.6	11.0	201	3.6	--	--	--	--	--	--
MAY 09...	1330	6.9	19.5	127	2.4	--	--	--	--	--	--
JUN 19...	1330	6.6	26.5	60	1.1	--	--	--	--	--	--
JUL 16...	1230	5.6	28.0	322	4.9	--	--	--	--	--	--
AUG 14...	1300	2.2	26.0	66	0.39	--	--	--	--	--	--
SEP 07...	1350	4.9	20.0	166	2.2	--	--	--	--	--	--

09180000 DOLORES RIVER NEAR CISCO, UT

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

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

WATER-DISCHARGE RECORDS

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

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

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

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

AVERAGE DISCHARGE.--34 years, 813 ft^3/s, 589,000 acre-ft/yr.

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 19	1300	12,900	12.84
Apr. 25	1430	8,270	11.70
May 15	1800	*14,700	13.21
Aug. 20	unknown	4,270	10.30
Sep. 04	unknown	3,350	9.90

Minimum daily, 183 ft^3/s Jan. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	428	240	268	222	224	340	495	3210	7100	2200	740	584
2	535	220	270	222	228	371	511	3540	7200	2220	710	561
3	461	205	287	222	229	390	496	4040	6900	2080	663	553
4	486	206	313	224	231	450	462	4260	5900	1900	595	840
5	638	207	295	225	236	383	445	5260	5200	1730	604	710
6	572	208	289	227	236	365	485	6770	4900	1600	798	630
7	528	209	257	225	233	346	607	7360	5300	1640	911	510
8	477	225	228	224	237	346	834	7080	5600	1580	865	460
9	400	238	264	222	242	340	1290	7400	5300	1450	740	450
10	364	239	267	223	240	352	1600	8910	3700	1410	677	410
11	324	236	272	224	248	403	2200	11100	2900	1470	651	400
12	301	255	261	221	244	416	2900	12700	2700	1420	643	380
13	287	258	258	217	250	464	2440	12900	2600	1360	749	350
14	291	259	258	220	268	443	2550	12300	2600	1290	758	340
15	289	257	248	218	264	450	3160	13300	2800	1320	722	340
16	286	255	268	208	268	507	4620	13100	3100	1300	700	370
17	277	251	263	204	272	609	6640	12700	3400	1170	740	490
18	275	254	248	192	270	668	8720	10900	3200	1120	710	440
19	267	263	273	185	272	713	10600	9940	2700	1040	790	410
20	258	262	268	183	270	704	9260	9370	2400	980	1040	390
21	253	262	263	184	276	704	7150	9420	2600	960	890	390
22	245	260	228	196	290	660	5290	9420	2600	900	840	380
23	242	258	230	202	286	665	5110	9480	2700	950	810	370
24	235	250	231	212	318	679	5730	9830	2500	900	820	370
25	235	255	231	230	334	639	7020	9560	2400	900	800	340
26	233	258	232	238	340	620	5870	9550	2400	890	780	340
27	233	260	234	236	334	600	5500	9330	2350	920	760	330
28	225	253	230	234	323	600	4510	9190	2500	810	720	330
29	228	235	228	230	300	529	3630	8800	2370	760	700	323
30	230	245	229	226	---	503	2960	7400	2360	790	700	307
31	231	---	226	220	---	498	---	7000	---	770	680	---
TOTAL	10334	7283	7917	6716	7763	15757	113085	275120	110280	39830	23306	13098
MEAN	333	243	255	217	268	508	3770	8875	3676	1285	752	437
MAX	638	263	313	238	340	713	10600	13300	7200	2220	1040	840
MIN	225	205	226	183	224	340	445	3210	2350	760	595	307
ACFT	20500	14450	15700	13320	15400	31250	224300	545700	218700	79000	46230	25980

CAL YR 1983	TOTAL	737676	MEAN	2021	MAX	14000	MIN	205	ACFT	1463000
WTR YR 1984	TOTAL	630489	MEAN	1723	MAX	13300	MIN	183	ACFT	1251000

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 1932 to current year.
WATER TEMPERATURES: March 1951 to September 1959, October 1964 to September 1981, March 1982 to current year.
SUSPENDED-SEDIMENT DISCHARGE: March 1951 to December 1953, October 1957 to September 1964, October 1978 to September 1979, quarterly, October 1979 to September 1980, periodically.

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

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

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 5,360 micromhos Nov. 27; minimum, 280 micromhos May 29, 30.
WATER TEMPERATURES: Maximum, 26.0°C several days during August; minimum, 0.0°C many days during January and February.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT										
18...	1100	258	4030	8.2	18.0	12.5	--	9.1	660	--
NOV										
28...	1120	262	4040	8.3	0.0	1.0	15	12.0	655	K6
DEC										
20...	1215	256	3840	8.3	0.0	1.5	--	12.0	659	--
FEB										
24...	1230	321	2670	8.3	3.5	1.5	38	11.7	656	--
MAR										
22...	1040	628	1640	8.2	7.5	8.5	--	9.7	657	--
APR										
27...	1030	6130	440	8.1	9.0	6.0	640	10.5	654	20
MAY										
24...	1100	9520	290	8.0	30.5	14.0	170	8.6	659	<1
JUN										
27...	1000	2320	440	8.2	30.0	18.0	--	8.0	660	--
AUG										
02...	1100	756	1660	8.2	34.0	23.5	200	6.8	659	--
31...	1030	710	1300	8.3	25.5	21.0	--	7.3	659	--
SEP										
28...	1100	343	3010	8.4	19.5	15.0	290	8.4	656	K26

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)
OCT										
18...	--	440	8.8	100	46	600	73	13	29	160
NOV										
28...	K16	620	12	130	71	630	68	11	31	200
DEC										
20...	--	530	11	120	57	580	69	11	24	180
FEB										
24...	--	480	9.6	110	50	400	64	8.2	14	180
MAR										
22...	--	390	7.8	96	36	170	48	3.9	9.4	160
APR										
27...	<1	180	3.6	48	14	26	24	0.9	2.9	100
MAY										
24...	<1	120	2.4	35	7.6	12	18	0.5	2.0	79
JUN										
27...	--	150	3.1	43	11	34	32	1.2	2.7	81
AUG										
02...	--	440	8.7	120	33	200	49	4.3	8.9	120
31...	--	320	6.4	88	25	130	46	3.3	7.2	120
SEP										
28...	46	490	9.7	120	45	420	64	8.6	20	150

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

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
OCT										
18...	300	1000	0.4	7.6	--	2180	3.0	1520	0.47	--
NOV										
28...	440	1100	0.4	8.9	2450	2530	3.3	1730	0.33	0.71
DEC										
20...	350	890	0.3	8.7	--	2140	2.9	1480	0.32	--
FEB										
24...	330	580	0.3	8.8	1630	1610	2.2	1410	0.28	0.73
MAR										
22...	300	220	0.3	7.2	--	935	1.3	1590	0.29	--
APR										
27...	110	20	0.2	7.4	279	292	0.38	4620	<0.1	0.07
MAY										
24...	49	10	0.1	7.1	193	170	0.26	4960	0.14	0.07
JUN										
27...	69	43	0.2	7.3	--	259	0.35	1620	<0.1	--
AUG										
02...	340	270	0.4	8.9	1060	1050	1.4	2160	0.5	0.05
31...	240	170	0.2	7.9	--	737	1.0	1410	0.37	--
SEP										
28...	360	690	0.4	8.0	1840	1760	2.5	1700	0.49	0.04

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
OCT										
18...	--	--	--	--	--	--	--	--	0.04	0.12
NOV										
28...	0.91	1.6	1.60	1.6	7.1	0.02	0.06	<0.01	0.02	0.06
DEC										
20...	--	--	--	--	--	--	--	--	<0.01	0.03
FEB										
24...	0.94	0.8	0.8	0.8	3.5	0.04	0.12	<0.01	0.03	0.09
MAR										
22...	--	--	--	--	--	--	--	--	0.04	0.12
APR										
27...	0.09	4.0	4.00	4.0	18	1.40	4.3	0.04	0.01	0.03
MAY										
24...	0.09	0.6	0.6	0.6	2.7	0.35	--	0.15	<0.01	0.03
JUN										
27...	--	--	--	--	--	--	--	--	0.07	0.21
AUG										
02...	0.06	12	12.0	12	53	0.35	--	0.02	0.02	0.06
31...	--	--	--	--	--	--	--	--	0.01	0.03
SEP										
28...	0.05	1.1	1.10	1.1	4.9	0.23	--	0.01	<0.01	0.03

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV 28...	1120	<10	1	<100	<10	<1	<1	1.00	1	40	1
FEB 24...	1230	<10	<1	100	<10	<1	<1	3.00	3	50	6
APR 27...	1030	30	<1	65	<0.50	<1	<1	<3.00	4	30	<1
AUG 02...	1100	20	<1	170	<1.00	<1	4	<3.00	2	6.00	3
SEP 28...	1100	<10	<1	<100	<10	<1	1	1.00	1	40	<1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV 28...	50	80	0.1	4	4	1	<1	1900	11	10
FEB 24...	40	50	<0.1	3	<1	1	<1	1300	8.3	40
APR 27...	20	3	<0.1	<10	3	1	<1	440	<6.0	20
AUG 02...	40	4	0.1	10	3	3	<1	1400	<6.0	30
SEP 28...	40	10	<0.1	6	1	2	<1	1500	11	90

DATE	TIME	BORON, DISSOLVED (UG/L AS B)
OCT 18...	1100	120
DEC 20...	1215	120
MAR 22...	1040	60
JUN 27...	1000	30
AUG 31...	1030	70

DATE	TIME	OIL AND GREASE, TOTAL RECOV. GRAVIMETRIC (MG/L)
MAY 24...	1100	<1

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3680	4730	---	---	---	2780	2190	630	---	530	1630	1190
2	---	4740	---	---	---	2860	---	---	---	530	1700	1300
3	2150	---	4620	---	2870	---	2200	560	---	540	---	1510
4	1860	4820	4320	2540	3050	2730	2210	550	---	560	1690	1660
5	2810	4780	3660	---	2940	2550	2480	470	---	650	1740	2250
6	1780	4730	---	---	2970	2210	2510	455	---	710	1930	1470
7	1720	4350	3880	---	3060	---	2520	420	---	820	1510	1720
8	1690	---	3790	---	3060	2330	2010	405	---	860	1390	2390
9	1790	4360	3700	---	---	2370	1710	---	---	950	1190	2490
10	2020	4230	3710	---	3150	2380	---	355	---	---	1200	2670
11	2360	3950	---	---	3320	2180	1070	350	---	1120	1270	3020
12	2730	3940	4000	---	3230	---	850	360	---	1070	1350	1940
13	3140	3530	3960	---	---	---	800	345	---	1130	---	---
14	---	3740	---	---	---	2350	670	350	---	1220	1480	1650
15	3250	---	3950	---	---	2170	630	---	---	1320	1260	---
16	3470	3560	3950	---	---	2190	590	345	---	1320	1180	2180
17	3890	3870	3890	---	---	2190	530	355	---	---	2360	2570
18	4010	---	4000	---	---	1870	500	355	---	1150	1900	2170
19	3910	3700	3760	---	---	1760	430	355	---	1350	---	1340
20	4090	3780	3840	---	---	---	---	350	---	1510	---	1420
21	---	4010	4110	---	---	1720	430	330	---	1580	980	---
22	---	---	---	---	---	1530	440	---	---	1690	1080	2470
23	4250	---	---	3790	2890	---	470	315	---	---	1820	2330
24	4250	4120	---	4110	2790	1750	450	305	---	1870	---	2020
25	---	---	---	---	2530	1780	380	310	---	1250	930	2520
26	4390	4510	---	3790	2530	---	420	---	---	1120	930	3150
27	4470	5360	---	3360	---	1960	430	290	440	1230	---	2760
28	4560	5050	2510	3430	---	1930	460	290	---	1190	1220	3060
29	4530	---	---	2600	2740	1860	510	280	---	1210	1170	3100
30	4570	---	---	---	---	---	580	280	---	1240	1190	3140
31	4640	---	---	---	---	2230	---	285	---	1480	1230	---
MEAN	3310	---	---	---	---	---	1050	370	---	1110	1410	2200

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0	14.0	---	---	---	5.0	11.0	8.0	---	21.0	25.0	24.0
2	---	14.0	---	---	---	5.0	---	---	---	21.0	26.0	24.0
3	19.0	---	6.0	---	.0	---	10.0	10.0	---	22.0	---	24.0
4	18.0	14.0	6.0	.0	.0	5.0	10.0	10.0	---	23.0	26.0	24.0
5	18.0	14.0	6.0	---	.0	5.0	11.0	10.0	---	23.0	26.0	24.0
6	17.0	14.0	---	---	.0	6.0	11.0	10.0	---	23.0	26.0	24.0
7	17.0	14.0	5.0	---	.0	---	11.0	10.0	---	23.0	26.0	23.0
8	17.0	---	4.0	---	.0	6.0	14.0	11.0	---	23.0	26.0	24.0
9	17.0	9.0	4.0	---	---	7.0	14.0	---	---	23.0	26.0	23.0
10	16.0	9.0	3.0	---	.0	8.0	---	11.0	---	---	26.0	23.0
11	16.0	9.0	---	---	.0	8.0	14.0	11.0	---	23.0	26.0	23.0
12	16.0	9.0	3.0	---	.0	---	14.0	12.0	---	24.0	26.0	23.0
13	16.0	9.0	3.0	---	---	---	14.0	12.0	---	24.0	---	---
14	---	8.0	---	---	---	8.0	14.0	12.0	---	24.0	26.0	23.0
15	16.0	---	3.0	---	---	10.0	12.0	---	---	24.0	26.0	---
16	14.0	8.0	3.0	---	---	10.0	12.0	12.0	---	24.0	26.0	23.0
17	14.0	8.0	3.0	---	---	10.0	12.0	14.0	---	---	25.0	23.0
18	14.0	---	3.0	---	---	10.0	14.0	14.0	---	24.0	25.0	23.0
19	14.0	8.0	3.0	---	---	10.0	12.0	14.0	---	24.0	---	23.0
20	14.0	8.0	1.5	---	---	---	---	14.0	---	24.0	---	23.0
21	---	8.0	3.0	---	---	10.0	12.0	14.0	---	24.0	25.0	---
22	---	---	---	---	---	11.0	12.0	---	---	24.0	25.0	23.0
23	14.0	---	---	.0	4.0	---	12.0	15.0	---	---	23.0	23.0
24	12.0	7.0	---	.0	4.0	11.0	10.0	15.0	---	25.0	---	23.0
25	---	---	---	---	4.0	11.0	10.0	15.0	---	25.0	22.0	20.0
26	12.0	6.0	---	.0	5.0	---	8.0	---	---	25.0	22.0	22.0
27	12.0	6.0	---	.0	---	11.0	8.0	15.0	18.0	25.0	---	22.0
28	12.0	6.0	2.0	.0	---	11.0	8.0	16.0	---	25.0	24.0	22.0
29	12.0	---	---	.0	5.0	11.0	8.0	16.0	---	24.0	24.0	22.0
30	12.0	---	---	---	---	---	8.0	16.0	---	24.0	24.0	22.0
31	14.0	---	---	---	---	11.0	---	16.0	---	25.0	24.0	---
MEAN	15.0	---	---	---	---	---	11.5	13.0	---	23.5	25.0	23.0

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE SUS-PENDED (T/DAY)
OCT						
18...	1100	258	12.5	--	68	47
NOV						
28...	1120	262	1.0	92	67	47
DEC						
20...	1215	256	1.5	--	13	9.0
FEB						
24...	1230	321	1.5	--	72	62
MAR						
22...	1040	628	8.5	--	1010	1710
APR						
27...	1030	6130	6.0	--	2080	34400
MAY						
24...	1100	9520	14.0	56	2300	59100
JUN						
27...	1000	2320	18.0	--	329	2060
AUG						
02...	1100	756	23.5	98	627	1280
31...	1030	710	21.0	--	974	1870
SEP						
28...	1100	343	15.0	97	342	317

09180500 COLORADO RIVER NEAR CISCO, UT

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

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

WATER-DISCHARGE RECORDS

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

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

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

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

AVERAGE DISCHARGE.--73 years (1911-84), 7,664 ft^3/s, 5,553,000 acre-ft/yr.

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

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 17	1615	59,300	18.48
May 27	1915	*70,300	20.70
June 09	0400	61,200	18.52

Minimum daily, 3,700 ft^3/s Jan. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5820	5620	5710	5620	5600	5990	8350	12800	57100	39700	14100	8650
2	7340	4640	5800	5860	5450	6180	8210	13200	58800	40300	14200	8800
3	6490	4060	6030	5800	5350	6370	8080	14800	58400	38900	13600	9630
4	5710	4150	6130	5450	5450	6470	7830	15400	53700	38000	13100	10100
5	5910	4130	6100	5400	5550	6300	7700	16700	49700	37000	12200	9460
6	5810	4200	5870	5850	5800	5840	7930	18700	48400	35000	12000	8720
7	5580	4210	5530	6050	6050	5910	8500	19900	51700	32500	12600	7700
8	5660	5000	5250	6100	6550	6200	8960	19300	58000	29500	12200	7280
9	5230	5720	5520	6150	7500	6400	9780	19200	58200	27700	11700	7280
10	5180	5710	5970	6300	6400	6440	10900	21400	48800	27700	10700	7060
11	5100	5440	5890	6350	6050	6710	10300	25500	42900	29200	10000	7060
12	5000	5980	5800	6250	6100	6870	10600	31700	40600	28700	10100	6990
13	4860	6000	5530	5850	6100	6890	10000	37900	39800	25600	9700	6670
14	4980	6060	5400	5800	6200	6850	9660	42900	39800	24000	9500	6600
15	5580	5980	5350	6200	6600	7070	9870	48500	42100	25800	9780	6440
16	5680	5900	5450	6050	6400	7400	11100	54600	44600	25100	9700	6680
17	5710	5710	5750	5650	6150	7710	13400	58600	46800	22800	9900	8050
18	5610	5930	5490	5450	6150	7460	16200	57300	45700	21300	9790	7600
19	5530	6170	5600	4500	6100	7330	18800	55400	42800	19500	10200	7350
20	5500	6140	5700	3750	5950	7160	19700	50000	42400	17900	13000	6950
21	5580	6170	5600	3700	5850	7070	17200	51000	43100	17000	12700	6930
22	5610	6120	5250	4200	5800	7330	14400	54400	43300	16300	12600	6920
23	5520	5990	4980	4250	5850	7640	13500	56100	43400	16400	11500	6930
24	5360	5630	5020	5200	5830	7670	14100	59900	43300	15500	12400	6800
25	5340	5570	5080	5800	5800	7100	16600	62900	42200	15700	12100	6650
26	5250	5820	5280	5600	5860	7240	18300	67000	42100	15600	12000	6600
27	5270	6050	5900	5150	5880	7710	16900	69500	41300	15900	11600	6660
28	5070	5740	6360	5050	5820	7600	15000	68000	41400	14800	10700	6630
29	5200	5610	5900	5150	5780	7410	13300	64700	40400	15000	10000	6490
30	5250	5660	5500	5250	---	7540	12700	60200	39400	15000	10000	6410
31	5220	---	5100	5600	---	7940	---	57200	---	14800	9600	---
TOTAL	170950	165110	173840	169380	173970	215800	367870	1304700	1390200	758200	353270	222090
MEAN	5515	5504	5608	5464	5999	6961	12260	42090	46340	24460	11400	7403
MAX	7340	6170	6360	6350	7500	7940	19700	69500	58800	40300	14200	10100
MIN	4860	4060	4980	3700	5350	5840	7700	12800	39400	14800	9500	6410
ACFT	339100	327500	344800	336000	345100	428000	729700	2588000	2757000	1504000	700700	440500

CAL YR 1983 TOTAL 4650400 MEAN 12740 MAX 60500 MIN 3630 ACFT 9224000
WTR YR 1984 TOTAL 5465380 MEAN 14930 MAX 69500 MIN 3700 ACFT 10841000

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

WATER-QUALITY RECORDS

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

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

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

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

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,460 micromhos Nov. 5; minimum daily, 300 micromhos May 29, 30, June 1.
WATER TEMPERATURES: Maximum, 23.0°C many days during August and September; minimum, 0.0°C many days during winter period.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 11,100 mg/L Aug. 20; minimum daily mean, 30 mg/L Dec. 23.
SEDIMENT LOADS: Maximum daily, 811,000 tons June 8; minimum daily, 403 tons Dec. 23.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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										
21...	0915	5560	1270	8.2	5.0	11.0	--	8.4	661	--
NOV										
23...	1130	5970	1120	7.9	-0.5	4.0	55	11.1	654	K12
DEC										
19...	1045	5570	1110	8.1	7.0	2.0	--	11.8	650	--
FEB										
23...	1100	5770	1030	8.3	0.0	1.5	31	11.8	661	K12
MAR										
26...	1045	7340	910	8.2	3.5	8.0	160	9.9	649	K16
APR										
25...	1015	17500	440	8.1	4.5	9.5	--	10.2	645	--
MAY										
22...	1030	53100	305	8.0	27.5	12.5	170	9.0	658	<1
JUN										
26...	1000	40700	330	8.1	22.0	16.5	--	8.2	658	--
JUL										
25...	1030	16600	650	8.3	28.5	21.0	390	7.2	660	--
AUG										
28...	1245	10500	900	8.3	32.5	21.5	--	7.2	660	--
SEP										
26...	1045	6250	1180	8.3	13.5	15.0	43	8.5	658	K45

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)
OCT 21...	--	390	7.7	100	33	120	40	2.8	5.0	160
NOV 23...	K30	350	7.0	88	32	110	40	2.6	4.4	150
DEC 19...	--	320	6.3	80	28	100	40	2.5	3.9	150
FEB 23...	K38	280	5.6	70	26	110	45	2.9	4.7	140
MAR 26...	K31	270	5.4	66	25	88	41	2.4	3.8	140
APR 25...	--	180	3.5	46	15	31	27	1.0	2.9	110
MAY 22...	<1	130	2.6	36	9.2	16	21	0.6	2.0	85
JUN 26...	--	130	2.6	36	9.2	19	24	0.8	2.0	76
JUL 25...	--	230	4.6	62	18	47	31	1.4	2.7	110
AUG 28...	--	300	6.0	82	23	61	30	1.6	3.6	130
SEP 26...	110	390	7.7	100	33	110	38	2.5	4.6	160

DATE	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)
OCT 21...	270	140	0.4	11	--	777	1.1	11700	0.65	--
NOV 23...	260	110	0.4	12	723	710	0.98	11700	0.65	0.05
DEC 19...	230	120	0.3	10	--	661	0.9	9940	0.53	--
FEB 23...	210	120	0.3	11	649	639	0.88	10100	0.48	0.06
MAR 26...	200	86	0.3	11	592	566	0.81	11700	0.43	0.07
APR 25...	100	23	0.2	8.7	--	292	0.4	13800	0.25	--
MAY 22...	57	10	0.2	9.8	208	191	0.28	29800	0.26	0.06
JUN 26...	64	16	0.2	10	--	202	0.27	22200	0.18	--
JUL 25...	160	42	0.3	11	416	408	0.57	18600	0.5	0.03
AUG 28...	230	48	0.3	12	--	538	0.73	15300	0.67	--
SEP 26...	310	110	0.4	11	798	775	1.1	13500	0.67	0.04

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

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
OCT 21...	--	--	--	--	--	--	--	--	0.01	0.03
NOV 23...	0.06	0.9	0.9	0.9	4.0	0.07	0.21	<0.01	0.02	0.06
DEC 19...	--	--	--	--	--	--	--	--	<0.01	0.03
FEB 23...	0.08	0.4	0.4	0.4	1.8	0.07	0.21	0.01	0.02	0.06
MAR 26...	0.09	0.7	0.7	0.7	3.1	0.21	0.64	0.05	0.04	0.12
APR 25...	--	--	--	--	--	--	--	--	0.01	0.03
MAY 22...	0.08	0.8	0.8	0.8	3.5	0.40	--	0.06	<0.01	0.03
JUN 26...	--	--	--	--	--	--	--	--	0.07	0.21
JUL 25...	0.04	2.5	2.50	2.5	11	0.80	--	0.02	0.02	0.06
AUG 28...	--	--	--	--	--	--	--	--	0.03	0.09
SEP 26...	0.05	0.6	0.6	0.6	2.7	0.08	--	0.01	0.01	0.03

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV 23...	1130	<10	1	93.00	<0.50	<1	<1	<3.00	<1	7.00	1
FEB 23...	1100	10	<1	61.00	<0.50	<1	1	<3.00	2	9.00	<1
MAR 26...	1045	90	<1	66.00	0.60	<1	<1	<3.00	4	90	<1
JUL 25...	1030	20	<1	120	1.00	<1	<1	<3.00	2	20	<1
SEP 26...	1045	30	1	86.00	2.00	<1	2	<3.00	3	30	7

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV 23...	50	10	0.2	<10	<1	5	<1	960	<6.0	70
FEB 23...	30	15	<0.1	<10	<1	5	<1	710	<6.0	10
MAR 26...	30	9	<0.1	<10	3	4	<1	690	<6.0	30
JUL 25...	20	<1	<0.1	10	5	2	<1	630	<6.0	60
SEP 26...	50	4	<0.1	<10	1	6	<1	1100	<6.0	20

DATE	TIME	BORON, DISSOLVED (UG/L AS B)
OCT 21...	0915	80
DEC 19...	1045	70
APR 25...	1015	30
JUN 26...	1000	20
AUG 28...	1245	80

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1300	1220	1120	980	890	870	770	720	300	330	710	800
2	1260	1250	1110	1030	900	870	780	---	310	330	680	840
3	1250	1290	1170	1000	920	880	810	700	310	340	680	840
4	1200	1330	1060	980	930	890	800	690	320	340	700	820
5	1240	1460	1100	1000	890	890	770	640	325	335	700	760
6	1190	1420	1090	1080	900	900	790	620	390	340	750	790
7	1170	1370	1100	1000	910	850	770	600	465	360	770	870
8	1140	1270	1090	950	880	840	770	600	420	380	770	900
9	1160	1360	1090	950	---	840	750	600	430	410	750	960
10	1150	1340	1120	940	850	830	700	570	415	420	730	960
11	1210	1310	1120	910	850	830	810	550	415	410	780	1040
12	1200	1370	1070	880	860	850	740	520	410	385	830	1070
13	1220	1130	1090	870	860	860	760	480	400	415	840	---
14	1220	1130	1090	900	820	870	780	450	390	450	820	1030
15	1290	1130	1080	880	850	870	750	400	370	490	880	1070
16	1200	1130	1140	890	900	900	760	420	340	455	830	1230
17	1200	1140	1110	930	---	910	730	380	330	495	1050	1180
18	1210	1120	1090	930	920	900	660	370	335	490	990	1050
19	1200	1130	1080	930	920	870	630	350	345	510	1040	1110
20	1170	1180	1080	1040	870	870	600	360	345	550	1030	1050
21	1270	1170	1090	1030	910	870	610	345	330	570	980	---
22	1170	1130	1080	1020	900	830	640	305	330	590	930	1070
23	1170	1120	1100	1020	910	---	670	325	330	640	1010	1110
24	1190	1150	1110	980	920	840	690	345	325	650	860	1110
25	1170	1120	1090	980	920	840	470	325	320	650	850	1120
26	1180	1190	1110	960	890	850	600	---	325	670	860	1130
27	1190	1240	1040	940	890	870	590	330	335	670	---	1110
28	1210	1230	1060	930	870	850	640	305	325	690	820	1120
29	1230	1120	1050	880	---	830	680	300	325	660	830	1140
30	1220	---	980	880	---	790	---	300	---	720	850	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	1200	1230	1090	960	890	860	710	470	355	490	840	1010

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

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

COLORADO RIVER MAIN STEM

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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	550	8640	75	1140	52	802	85	1290	525	7940	250	4040
2	6470	168000	55	689	35	548	128	2030	545	8020	215	3590
3	6700	117000	55	603	60	977	82	1280	545	7870	270	4640
4	1900	29300	40	448	180	2980	83	1220	505	7430	300	5240
5	670	10700	40	446	130	2140	92	1340	500	7490	300	5100
6	435	6820	40	454	89	1410	151	2390	545	8530	210	3310
7	400	6030	40	455	58	866	212	3460	650	10600	190	3030
8	370	5650	380	5130	42	595	263	4330	750	13300	145	2430
9	220	3110	700	10800	50	745	309	5130	800	16200	145	2510
10	220	3080	1440	22200	54	870	355	6040	700	12100	200	3480
11	200	2750	775	11400	48	763	407	6980	595	9720	365	6610
12	195	2630	302	4880	57	893	388	6550	500	8230	525	9740
13	205	2690	179	2900	59	881	300	4740	500	8230	515	9580
14	700	9410	101	1650	88	1280	255	3990	575	9630	560	10400
15	1260	19000	97	1570	111	1600	340	5690	715	12700	625	11900
16	900	13800	104	1660	93	1370	300	4900	800	13800	795	15900
17	575	8860	74	1140	70	1090	175	2670	700	11600	840	17500
18	385	5830	85	1360	50	741	153	2250	450	7470	710	14300
19	295	4400	127	2120	40	605	125	1520	300	4940	560	11100
20	270	4010	259	4290	36	554	101	1020	245	3940	465	8990
21	190	2860	205	3420	37	559	101	1010	175	2760	365	6970
22	220	3330	102	1690	36	510	175	1980	130	2040	360	7120
23	220	3280	93	1500	30	403	330	3790	200	3160	445	9180
24	205	2970	88	1340	31	420	475	6670	220	3460	325	6730
25	165	2380	89	1340	34	466	625	9790	150	2350	305	5850
26	100	1420	103	1620	50	713	625	9450	150	2370	265	5180
27	80	1140	90	1470	78	1240	500	6950	145	2300	360	7490
28	55	753	57	883	95	1630	520	7090	175	2750	285	5850
29	85	1190	42	636	96	1530	520	7230	175	2730	230	4600
30	75	1060	44	672	67	995	525	7440	---	---	210	4280
31	70	987	---	---	52	716	505	7640	---	---	210	4500
TOTAL	---	453080	---	89906	---	30892	---	137860	---	213660	---	221140

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	340	7670	870	30100	1100	170000	830	89000	1190	45300	625	14600
2	350	7760	1100	39200	1310	208000	950	103000	1190	45600	450	10700
3	345	7530	1500	59900	1180	186000	750	78800	950	34900	1220	31700
4	250	5290	1690	70300	1170	170000	895	91800	710	25100	1540	42000
5	250	5200	1760	79400	1100	148000	810	80900	630	20800	1100	28100
6	260	5570	2210	112000	1280	167000	860	81300	740	24000	520	12200
7	425	9750	2730	147000	3540	494000	900	79000	3470	118000	350	7280
8	505	12200	2150	112000	5180	811000	1250	99600	2430	80000	370	7270
9	785	20700	1880	97500	3750	589000	1250	93500	1110	35100	260	5110
10	1590	46800	2600	150000	1740	229000	1260	94200	480	13900	230	4380
11	1870	52000	3910	269000	1550	180000	1110	87500	400	10800	290	5530
12	2250	64400	5330	456000	1480	162000	600	46500	420	11500	1700	32100
13	1420	38300	5480	561000	1240	133000	320	22100	750	19600	760	13700
14	1520	39600	5080	588000	1100	118000	1110	71900	590	15100	270	4810
15	1780	47400	4620	605000	1290	147000	1480	103000	2250	59400	430	7480
16	3150	94400	4550	671000	1480	178000	1260	85400	2140	56000	830	15000
17	4170	151000	3690	584000	1320	167000	710	43700	2450	65500	1600	34800
18	4500	197000	3120	483000	1050	130000	820	47200	2320	61300	1680	34500
19	4870	247000	2580	386000	950	110000	860	45300	3250	89500	920	18300
20	4700	250000	2300	311000	770	88100	860	41600	11100	390000	560	10500
21	3000	139000	2050	282000	860	100000	780	35800	8100	278000	365	6830
22	2050	79700	1810	266000	800	93500	800	35200	7000	238000	295	5510
23	1630	59400	2100	318000	900	105000	1400	62000	5400	168000	290	5430
24	1060	40400	2030	328000	950	111000	1580	66100	9830	329000	256	4700
25	1770	79300	1760	299000	750	85500	1550	65700	5100	167000	224	4020
26	3200	158000	1620	293000	448	50900	3630	153000	3700	120000	133	2370
27	2360	108000	1510	283000	840	93700	3690	158000	2200	68900	245	4410
28	1400	56700	1310	241000	1080	121000	2070	82700	1550	44800	224	4010
29	1180	42400	1100	192000	830	90500	2210	89500	910	24600	163	2860
30	790	27100	1270	206000	870	92600	2840	115000	810	21900	119	2060
31	---	---	1210	187000	---	---	1670	66700	750	19400	---	---
TOTAL	---	2099570	---	8706400	---	5528800	---	2415000	---	2701000	---	382260

TOTAL LOAD FOR YEAR: 22979568 TONS.

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM
OCT							
21...	0915	5560	11.0	244	3660	7	9
NOV							
23...	1300	5970	4.0	104	1680	--	--
DEC							
19...	1045	5570	2.0	47	707	--	--
FEB							
23...	1230	5770	1.5	155	2410	--	--
MAR							
26...	1330	7340	8.0	278	5510	30	39
APR							
25...	1330	17500	9.5	1750	82700	12	13
MAY							
22...	1330	53100	12.5	1560	224000	23	36
JUN							
26...	1300	40700	16.5	310	34100	27	41
JUL							
25...	1340	16600	21.0	1830	82000	33	46
AUG							
28...	1155	10500	21.0	1400	39700	36	48
SEP							
26...	1300	6250	15.0	82	1380	--	--

DATE	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .125 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .250 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .500 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN 1.00 MM
OCT						
21...	14	24	28	67	97	100
NOV						
23...	--	100	--	--	--	--
DEC						
19...	--	94	99	100	--	--
FEB						
23...	--	67	78	96	100	--
MAR						
26...	62	84	89	98	100	--
APR						
25...	24	58	86	97	100	--
MAY						
22...	59	84	93	98	100	--
JUN						
26...	71	98	100	--	--	--
JUL						
25...	72	92	98	100	--	--
AUG						
28...	67	94	100	--	--	--
SEP						
26...	--	97	98	100	--	--

09183000 COURTHOUSE WASH NEAR MOAB, UT

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

DRAINAGE AREA.--162 mi^2.

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

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

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

AVERAGE DISCHARGE.--24 years (1949-55, 1967-84), 1.88 ft^3/s, 1,360 acre-ft/yr.

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 02	0500	1,810	3.50
July 25	2100	2,000	3.66
Aug. 20	1430	*8,020	7.30

No flow at times.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.17	.16	.30	.24	1.1	.90	.50	.45	.11	.20	.21
2	110	.18	.14	.30	.24	1.2	1.1	.49	.29	.09	.18	.20
3	6.2	.17	.12	.27	.24	1.5	1.3	.47	.26	.07	.12	.19
4	.50	.18	.27	.28	.25	.90	.90	.44	.28	.08	.10	.18
5	.22	.18	1.5	.30	.26	.65	.65	.47	5.8	.09	.11	.17
6	.20	.18	1.1	.32	.32	2.4	.47	.36	3.9	.08	.09	.14
7	.19	.18	.90	.33	.30	1.9	.81	.33	42	.05	.09	.14
8	.18	8.0	.76	.36	.32	1.9	.78	.37	.76	.07	.08	.16
9	.17	.43	.65	.35	.36	2.1	4.0	.37	.21	.10	.08	.16
10	.16	.21	.76	.32	.36	1.9	1.3	.40	.18	.21	.07	.16
11	.15	.22	.76	.32	.45	3.4	.90	.34	.18	.08	.06	.16
12	.15	.24	.78	.25	.43	1.9	.76	.34	.17	.07	.04	.14
13	.16	.26	.78	.27	.44	1.1	.90	.34	.16	.10	.04	.16
14	.17	.24	.84	.24	.38	1.1	.54	.29	.16	.13	.06	.16
15	.17	.21	1.0	.19	.48	1.3	.54	.29	.18	.10	.08	.41
16	.18	.23	.75	.15	.45	2.1	.76	.29	.17	.14	.09	.15
17	.18	.26	.62	.10	.58	1.7	.76	.29	.16	.10	.09	.13
18	.18	11	.44	.08	.49	2.4	.54	.34	.15	.08	.11	.12
19	.18	.90	.70	.05	.65	1.9	1.6	.29	.14	.06	49	.11
20	.15	.49	.50	.02	.61	1.1	15	.29	.13	.05	210	26
21	.15	1.6	.52	.03	.60	.76	2.5	.34	.12	.14	7.2	.86
22	.16	1.4	.51	.04	.75	1.3	.90	.29	.13	.11	.70	.16
23	.16	.66	.55	.08	.81	1.1	.75	.29	.12	37	1.3	.14
24	.15	.33	.57	.12	.80	.90	5.0	.25	.12	.14	2.4	.14
25	.16	.31	.40	.12	.85	.90	3.1	.29	.12	124	.94	.13
26	.17	.97	.48	.20	.93	.76	.95	.29	.11	9.6	.50	.14
27	.16	.83	.52	.25	.95	.90	.72	.29	.11	.98	.30	.14
28	.17	.50	.54	.25	.90	.65	.58	.25	.10	.52	.25	.15
29	.15	.33	.40	.28	1.0	.54	.52	.30	.09	3.8	.23	.15
30	.17	.22	.28	.22	---	.65	.56	.29	.14	2.1	.22	.14
31	.16	---	.30	.24	---	.76	---	.31	---	.82	.21	---
TOTAL	121.35	31.08	18.60	6.63	15.44	42.77	50.09	10.49	56.89	181.07	274.94	31.40
MEAN	3.91	1.04	.60	.21	.53	1.38	1.67	.34	1.90	5.84	8.87	1.05
MAX	110	11	1.5	.36	1.0	3.4	15	.50	42	124	210	26
MIN	.10	.17	.12	.02	.24	.54	.47	.25	.09	.05	.04	.11
ACFT	241	62	37	13	31	85	99	21	113	359	545	62

CAL YR 1983	TOTAL	748.34	MEAN	2.05	MAX	110	MIN	.04	ACFT	1480
WTR YR 1984	TOTAL	840.75	MEAN	2.30	MAX	210	MIN	.02	ACFT	1670

09184000 MILL CREEK NEAR MOAB, UT

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

DRAINAGE AREA.--74.9 mi^2.

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

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

REMARKS.--Records good. Diversion into Sheley Tunnel, for storage in K. E. McDougald Reservoir began in March 1981. Diversion approximately 6.0 mi above station. Records do not include approximately 3,980 acre-ft diverted during the 1984 water year.

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

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 14	2030	289	3.21
June 07	1030	258	3.10
Aug. 24	0030	388	3.53
Sep. 15	2230	*840	4.70

Minimum, 3,5 ft^3/s Dec. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	6.0	9.7	13	12	11	13	7.7	91	17	22	22
2	9.4	6.0	5.4	11	12	12	12	15	84	14	20	20
3	8.4	5.8	4.9	11	13	12	11	22	76	13	19	17
4	7.9	5.4	11	13	14	11	11	34	70	12	18	16
5	7.9	5.4	5.1	14	14	10	12	42	96	11	20	15
6	6.9	5.4	5.9	14	12	11	12	55	89	10	19	15
7	6.0	5.3	5.9	14	13	11	12	44	134	12	17	15
8	5.2	47	15	14	12	11	14	47	94	12	16	15
9	4.6	7.7	14	14	12	11	24	67	76	13	16	15
10	4.6	6.2	14	13	12	12	15	93	67	12	15	14
11	4.2	6.0	13	14	12	17	19	109	62	9.2	15	14
12	4.2	5.8	13	13	12	13	14	129	58	9.5	16	14
13	4.6	6.0	13	13	12	12	15	129	55	13	15	14
14	5.4	5.8	13	15	14	13	9.3	159	56	16	15	14
15	6.0	5.2	15	13	12	14	9.4	175	53	14	15	56
16	5.7	5.2	13	13	12	14	13	131	52	14	18	192
17	5.7	5.2	14	13	12	13	18	101	47	12	17	26
18	6.0	17	14	12	12	16	46	87	45	12	16	16
19	6.0	7.5	14	11	10	13	35	69	46	12	19	15
20	6.1	5.9	14	11	11	13	24	67	40	11	29	15
21	6.0	7.1	11	11	12	19	12	71	38	11	27	16
22	6.0	6.5	12	12	12	33	11	71	35	17	23	16
23	5.9	5.1	16	12	11	13	11	74	29	18	36	15
24	5.8	5.7	14	12	12	12	18	78	26	12	88	15
25	5.9	9.4	14	12	12	13	48	80	25	13	38	14
26	6.0	9.2	15	13	11	12	20	77	25	14	34	15
27	6.0	9.8	17	13	11	12	12	84	23	13	30	15
28	5.9	11	13	13	11	6.2	8.5	87	21	14	28	16
29	5.9	9.3	7.9	13	11	11	7.1	84	20	20	26	16
30	5.7	9.0	12	12	---	12	7.8	82	18	30	24	15
31	5.9	---	15	12	---	11	---	83	---	23	22	---
TOTAL	190.8	251.9	373.8	394	348	404.2	494.1	2453.7	1651	433.7	733	693
MEAN	6.15	8.40	12.1	12.7	12.0	13.0	16.5	79.2	55.0	14.0	23.6	23.1
MAX	11	47	17	15	14	33	48	175	134	30	88	192
MIN	4.2	5.1	4.9	11	10	6.2	7.1	7.7	18	9.2	15	14
ACFT	378	500	741	781	690	802	980	4870	3270	860	1450	1370

CAL YR 1983	TOTAL	8928.1	MEAN	24.5	MAX	153	MIN	3.4	ACFT	17710
WTR YR 1984	TOTAL	8421.2	MEAN	23.0	MAX	192	MIN	4.2	ACFT	16700

09187550 INDIAN CREEK BELOW BOGUS POCKET, NEAR MONTICELLO, UT

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

DRAINAGE AREA.--262 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1983 to current year.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,600 ft^3/s Aug. 20, 1984, gage height, 11.95 ft; minimum daily, 0.02 ft^3/s July 12, 1984, may be less during period of no gage height record.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,600 ft^3/s Aug. 20, gage height, 11.95 ft; minimum daily, 0.02 ft^3/s July 12, may be less during period of no gage height record.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	4.5	9.1	11	10	7.9	8.3	19	46	2.9	20	2.4
2	25	4.3	8.9	9.6	11	7.6	9.0	19	36	2.5	2.7	4.5
3	15	4.4	7.5	12	12	9.1	10	22	35	2.0	1.5	4.4
4	8,6	4.3	11	11	13	7.2	8.1	24	33	1.4	.99	4.0
5	6.7	4.4	5.7	14	12	6.6	7.6	26	46	1.1	27	4.1
6	5.6	4.4	5.1	12	10	7.3	8.2	31	45	.82	8.9	3.8
7	4.9	4.4	8.5	12	9.2	7.0	8.3	40	56	.47	1.9	3.6
8	4.7	14	11	10	8.6	7.1	8.1	32	38	2.7	.94	3.4
9	5.8	6.6	10	9,9	9.0	7.7	12	38	33	3.1	.80	3.5
10	9.6	4.9	9.0	8.8	8.1	7.7	11	48	27	1.3	.80	3.3
11	9.8	4.7	7.5	7.8	6.5	12	13	58	23	.42	1.7	3.3
12	9.4	4.7	8.0	10	6.0	9.7	10	66	21	.02	1.9	3.4
13	9.0	4.8	6.9	10	9.0	8.3	9.5	65	17	.05	1.0	3.4
14	7.2	4.6	7.6	10	10	7.7	10	70	11	2.9	.80	3.4
15	7.0	4.6	8.0	9.9	7.9	8.1	12	85	9.3	26	.80	3.4
16	7.1	4.6	6.2	7.8	7.5	8.2	16	87	7.1	3.5	2.8	27
17	7.2	5.1	7.6	7.2	10	7.9	23	81	7.0	2.2	3.6	7.0
18	6.1	12	8.0	6.8	7.6	9.6	35	75	6.4	1.3	1.4	5.0
19	7.3	6.9	8.1	6.1	6.6	8.3	41	73	5.8	.77	1.1	4.0
20	7.4	6.1	7.3	5.4	6.5	7.3	37	71	4.9	.21	380	4.6
21	7.4	7.0	5.5	5.6	12	7.5	29	71	4.5	.72	67	3.7
22	7.2	7,4	5.7	6.2	8.8	11	22	73	4.3	.90	26	3.8
23	5.2	6.5	11	6.4	6.9	9.0	23	74	4.7	264	22	4.0
24	4.9	5.7	9.0	6.4	7.0	8.0	24	74	4.4	12	390	4.2
25	4.6	8.9	8,3	6.3	8.5	8.1	44	75	4.3	3.9	8.0	4.4
26	4.7	7.9	9.2	6.4	7.1	8.6	30	70	3.6	5.4	5.0	4.4
27	4.8	5.3	14	6.1	7.3	8.9	25	52	3.5	3.4	3.6	4.2
28	4.9	5.3	12	6.5	7.7	7.6	22	44	3.3	2.7	2.8	4.0
29	4.9	7,3	5.1	6.3	7.3	7.1	22	50	3.5	1.9	1.4	4.2
30	4.5	9.5	7,8	9.2	---	7.9	21	47	2.8	1.5	.80	4.4
31	4.5	---	6.5	9.7	---	8.7	---	45	---	33	.70	---
TOTAL	249.0	185.1	255.1	266.4	253.1	254.7	559.1	1705	546.4	385.08	987.93	142.8
MEAN	8.03	6.17	8.23	8,59	8.73	8.22	18,6	55.0	18.2	12.4	31.9	4.76
MAX	28	14	14	14	13	12	44	87	56	264	390	27
MIN	4.5	4.3	5.1	5.4	6.0	6.6	7.6	19	2.8	.02	.70	2.4
ACFT	494	367	506	528	502	505	1110	3380	1080	764	1960	283

WTR YR 1984 TOTAL 5789.71 MEAN 15.8 MAX 390 MIN ,02 ACFT 11480

NOTE.--No gage height record August 24 to September 30.

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1983 to current year.
SEDIMENT DATA: March 1983 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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												
20...	1230	7.5	550	8.4	15.0	10.5	220	4.4	47	25	50	33
NOV												
18...	1235	19	760	8.6	7.5	7.0	160	3.1	30	20	120	62
DEC												
28...	1130	12	610	8.2	-2.0	0.0	230	4.5	48	26	62	37
MAR												
09...	0915	8.4	750	8.4	10.0	5.5	270	5.5	54	34	71	36
APR												
30...	1115	25	600	8.5	16.0	10.5	230	4.5	51	24	45	30
MAY												
29...	1050	56	360	8.4	27.5	15.0	150	3.0	38	13	22	24
JUN												
26...	1135	3.5	780	8.6	27.5	25.0	260	5.1	47	34	69	36
JUL												
31...	1100	6.0	410	8.2	25.5	23.5	130	2.6	30	14	33	34
AUG												
30...	1115	0.74	1240	8.4	30.0	23.5	300	5.9	50	42	160	53
SEP												
18...	1115	4.3	830	8.4	26.5	22.5	210	4.2	44	24	87	47

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												
20...	1.5	2.9	240	69	32	0.3	12	379	0.52	7.7	<0.1	<0.01
NOV												
18...	4.3	3.4	200	91	82	0.4	8.5	478	0.65	24.5	0.59	0.07
DEC												
28...	1.8	2.1	230	73	39	0.3	10	398	0.54	12.9	0.15	<0.01
MAR												
09...	1.9	1.6	280	100	47	0.4	11	485	0.66	11.0	<0.1	0.02
APR												
30...	1.3	1.7	230	71	27	0.3	11	370	0.5	24.9	<0.1	0.01
MAY												
29...	0.8	1.9	140	37	11	0.2	9.3	216	0.29	32.6	<0.1	0.04
JUN												
26...	1.9	3.9	220	93	38	0.3	14	434	0.59	4.1	<0.1	<0.01
JUL												
31...	1.3	3.7	140	49	21	0.2	7.8	243	0.33	3.9	<0.1	0.08
AUG												
30...	4.1	8.6	310	180	120	0.4	14	762	1.0	1.5	<0.1	<0.01
SEP												
18...	2.7	6.4	190	110	58	0.3	8.9	454	0.62	5.2	0.34	0.01

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT 20...	1230	90
NOV 18...	1235	140
DEC 28...	1130	110
MAR 09...	0915	120
APR 30...	1115	80
MAY 29...	1050	40
JUN 26...	1135	150
JUL 31...	1100	90
AUG 30...	1115	310
SEP 18...	1115	150

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM, PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM, PERCENT FINER THAN .004 MM
OCT 20...	1230	7.5	10.5	66	1.3	--	--
NOV 18...	1235	19	7.0	7520	386	50	62
DEC 28...	1130	12	0.0	794	26	--	--
MAR 09...	0915	8.4	5.5	736	17	--	--
APR 30...	1115	25	10.5	1510	102	4	5
MAY 29...	1050	56	15.0	1990	301	--	--
JUN 26...	1135	3.5	25.0	44	0.42	--	--
JUL 31...	1100	6.0	23.5	3770	61	--	--
AUG 30...	1115	0.74	23.5	230	0.46	--	--
SEP 18...	1115	4.3	22.5	2080	24	--	--

DATE	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .125 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .250 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .500 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN 1.00 MM
OCT 20...	--	--	--	--	--	--
NOV 18...	80	88	95	99	100	--
DEC 28...	--	--	--	--	--	--
MAR 09...	--	--	--	--	--	--
APR 30...	12	32	72	94	99	100
MAY 29...	--	--	--	--	--	--
JUN 26...	--	--	--	--	--	--
JUL 31...	--	--	--	--	--	--
AUG 30...	--	--	--	--	--	--
SEP 18...	--	--	--	--	--	--

09217000 GREEN RIVER NEAR GREEN RIVER, WY

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

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

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

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

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

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

AVERAGE DISCHARGE.--33 years, 1,763 ft^3/s, 1,277,000 acre-ft/yr, unadjusted.

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,800 ft^3/s July 3, gage height, 5.39 ft; minimum daily, 600 ft^3/s Jan. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1560	2030	1200	810	650	740	950	3680	4480	7410	4620	1670
2	1250	2050	1200	810	660	745	1000	3630	4180	7380	4950	1590
3	1790	2060	1100	810	660	745	1130	3110	4230	7720	4710	1580
4	1790	2060	1000	810	660	750	1240	2830	5070	7700	4550	1590
5	1780	2060	1000	810	670	755	1270	2810	5450	7700	4480	1600
6	1780	2070	1000	820	670	760	1480	2490	5470	7330	4460	1670
7	1780	2090	1000	800	670	760	1620	2200	5520	6340	3960	1740
8	1780	2100	1000	800	670	765	1670	2110	5570	6080	3520	1660
9	1810	1940	1000	800	670	765	1660	2070	5670	5370	3010	1630
10	2030	1840	1000	800	670	770	1710	2140	5720	4440	2540	1590
11	1850	1830	1000	790	680	775	1890	2300	5750	3910	2130	1680
12	1810	1830	970	790	680	785	1890	2380	5720	3820	2040	1840
13	1960	1850	850	780	680	795	1850	2450	5170	3770	2020	1780
14	2110	1860	700	760	680	805	1840	2470	5120	3770	1880	1270
15	2090	1840	650	750	680	805	1840	2810	5150	3770	1110	990
16	2090	1840	650	720	690	805	1850	3430	5200	3750	1620	852
17	2090	1870	700	700	690	805	1880	3630	5250	3750	1780	929
18	2090	1870	800	680	695	810	1930	4230	5300	3750	1880	1700
19	2090	1860	820	650	695	810	2100	5070	5320	3410	1920	1660
20	2090	1860	820	630	700	820	2540	5450	5350	3300	1860	1530
21	2090	1850	810	600	700	825	3010	5500	5320	2920	1860	1280
22	2100	1810	810	640	705	830	3340	6320	5070	2980	1840	946
23	2110	1880	800	650	705	835	3230	6930	5030	3070	1820	663
24	1980	1740	750	650	710	840	3430	7310	5100	2990	1860	716
25	1790	1600	770	650	710	845	3540	7330	5930	2920	1860	852
26	1790	1620	800	650	720	850	3590	7280	7230	2880	1820	1290
27	1790	1580	800	650	725	860	3840	7620	7380	3110	1780	1420
28	1800	1620	810	650	730	870	3790	7700	7380	4250	1750	1460
29	1810	1500	810	650	735	880	3720	6930	7380	4460	1740	1570
30	1850	1300	810	650	---	890	3680	6180	7360	4480	1750	1720
31	2010	---	810	650	---	900	---	5450	---	4480	1770	---
TOTAL	58740	55310	27240	22410	19960	24995	68510	135840	167870	143010	78890	42468
MEAN	1895	1844	879	723	688	806	2284	4382	5596	4613	2545	1416
MAX	2110	2100	1200	820	735	900	3840	7700	7380	7720	4950	1840
MIN	1250	1300	650	600	650	740	950	2070	4180	2880	1110	663
ACFT	116500	109700	54030	44450	39590	49580	135900	269400	333000	283700	156500	84240

CAL YR 1983	TOTAL	1084910	MEAN	2972	MAX	12600	MIN	650	ACFT	2152000
WTR YR 1984	TOTAL	845243	MEAN	2309	MAX	7720	MIN	600	ACFT	1677000

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Wyoming, 1984."

09217900 BLACKS FORK NEAR ROBERTSON, WY

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

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

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

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

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

AVERAGE DISCHARGE.--19 years (water years 1938, 1967-84), 163 ft^3/s, 118,100 acre-ft/yr.

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 23	2200	*2,270	3.63
May 31	2300	1,860	3.28

Minimum daily, 19 ft^3/s Jan. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	82	45	30	20	22	24	37	1390	835	265	152
2	112	79	46	28	21	22	24	39	983	700	236	129
3	110	73	48	28	22	22	24	41	1040	651	217	116
4	106	74	48	29	22	22	24	43	715	610	200	109
5	111	72	48	30	21	21	26	45	701	544	214	107
6	111	67	48	30	21	22	28	40	592	501	253	175
7	110	72	50	29	23	22	30	36	519	471	181	143
8	111	74	50	29	22	23	30	36	425	579	177	117
9	110	66	50	29	23	23	32	81	363	775	162	111
10	137	60	50	29	23	24	30	126	337	637	157	99
11	139	60	50	27	23	24	28	189	310	448	157	97
12	123	64	48	27	22	24	26	276	292	420	159	154
13	124	64	46	26	23	24	28	422	328	454	165	134
14	129	60	45	26	23	24	30	727	507	421	172	120
15	120	55	44	25	22	24	35	1170	693	376	157	113
16	111	55	42	24	23	23	40	1170	665	343	168	106
17	111	60	42	25	24	23	45	1010	672	310	156	105
18	111	64	40	23	25	23	50	1020	798	290	145	105
19	98	60	37	22	22	24	50	1110	791	286	164	98
20	103	55	35	20	21	24	45	1370	804	290	203	118
21	98	50	30	19	20	24	40	1550	843	319	145	210
22	95	48	25	20	21	24	40	1490	857	489	143	147
23	92	48	25	21	22	24	42	1740	791	399	140	122
24	98	48	28	22	22	24	44	1760	799	383	149	126
25	84	50	30	23	22	24	46	1270	822	404	206	123
26	83	50	32	23	22	24	40	1160	846	383	200	146
27	80	48	34	25	22	24	36	1170	824	366	159	134
28	76	47	32	25	22	24	33	1080	775	318	140	126
29	75	47	30	24	22	24	33	1180	730	329	132	118
30	75	45	30	22	---	24	35	1390	822	298	128	110
31	80	---	32	21	---	24	---	1670	---	292	131	---
TOTAL	3246	1797	1240	781	641	724	1038	24448	21034	13921	5381	3770
MEAN	105	59.9	40.0	25.2	22.1	23.4	34.6	789	701	449	174	126
MAX	139	82	50	30	25	24	50	1760	1390	835	265	210
MIN	75	45	25	19	20	21	24	36	292	286	128	97
ACFT	6440	3560	2460	1550	1270	1440	2060	48490	41720	27610	10670	7480

CAL YR 1983	TOTAL	81989	MEAN	225	MAX	1880	MIN	22	ACFT	162600
WTR YR 1984	TOTAL	78021	MEAN	213	MAX	1760	MIN	19	ACFT	154800

09218500 BLACKS FORK NEAR MILLBURNE, WY

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

DRAINAGE AREA.--152 mi^2.

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

REVISED RECORDS.--WSP 929: 1940.

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

REMARKS.--Records good except those for October and November, which are poor. Flow completely regulated by Meeks Cabin Reservoir, capacity, 32,470 acre-ft, since June 1971. No diversion above station.

AVERAGE DISCHARGE.--45 years, 163 ft^3/s, 118,100 acre-ft/yr, unadjusted.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,710 ft^3/s May 24, gage height, 4.65 ft; minimum daily, 30 ft^3/s Oct. 1-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	100	104	39	38	38	38	38	1370	900	372	147
2	30	100	104	39	38	38	38	38	1260	837	372	147
3	30	100	104	39	38	38	38	38	1260	778	372	147
4	30	100	104	39	38	38	38	38	1120	727	372	147
5	30	100	104	39	38	38	38	38	1090	697	369	147
6	30	100	104	39	38	38	38	38	887	641	367	147
7	30	100	75	39	38	38	38	38	650	608	322	147
8	30	100	39	39	38	38	38	38	596	610	271	147
9	30	100	39	39	38	38	38	39	597	621	271	149
10	30	100	39	39	38	38	38	41	599	689	271	151
11	30	100	39	39	38	38	38	41	553	665	271	173
12	30	100	39	39	38	38	38	41	507	624	271	194
13	30	100	39	39	38	38	38	41	509	615	268	194
14	40	100	39	39	38	38	38	41	515	616	222	194
15	50	100	39	39	38	38	38	72	518	615	176	194
16	50	100	39	39	38	38	38	319	520	611	177	194
17	75	100	39	39	38	38	38	784	520	546	176	194
18	100	102	39	39	38	38	38	1130	625	460	176	190
19	100	102	39	39	38	38	38	1190	793	460	176	191
20	100	102	39	39	38	38	38	1220	868	460	154	191
21	100	102	39	39	38	38	38	1210	901	456	128	191
22	100	102	39	39	38	38	38	1170	905	456	128	191
23	100	103	39	39	38	38	38	1180	906	456	128	191
24	100	104	39	39	38	38	38	1490	902	416	128	191
25	100	104	39	39	38	38	38	1350	899	369	128	191
26	100	104	39	38	38	38	38	1310	910	372	128	198
27	100	104	39	38	38	38	38	1310	900	372	128	205
28	100	104	39	38	38	38	38	1300	860	372	138	206
29	100	104	39	38	38	38	38	1310	835	372	147	205
30	100	104	39	38	---	38	38	1330	864	372	147	206
31	100	---	39	38	---	38	---	1350	---	372	147	---
TOTAL	2005	3041	1635	1203	1102	1178	1140	19573	24239	17165	6901	5360
MEAN	64.7	101	52.7	38.8	38.0	38.0	38.0	631	808	554	223	179
MAX	100	104	104	39	38	38	38	1490	1370	900	372	206
MIN	30	100	39	38	38	38	38	38	507	369	128	147
ACFT	3980	6030	3240	2390	2190	2340	2260	38820	48080	34050	13690	10630

CAL YR 1983	TOTAL	98211.9	MEAN	269	MAX	1940	MIN	1.0	ACFT	194800
WTR YR 1984	TOTAL	84542	MEAN	231	MAX	1490	MIN	30	ACFT	167700

09220000 EAST FORK OF SMITHS FORK NEAR ROBERTSON, WY

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

DRAINAGE AREA.--53.0 mi^2.

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

REVISED RECORDS.--WSP 979: Drainage area.

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

REMARKS.--Records fair except those for April, which are poor. Flow completely regulated by State Line Reservoir, 6.1 mi upstream, total capacity, 14,000 acre-ft, dead storage is about 2,000 acre-ft, since May 1979.

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

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 601 ft^3/s May 24, gage height, 5.84 ft; minimum daily during period of operation, 22 ft^3/s May 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							28	23	460	279	100	49
2							28	23	437	221	100	49
3							28	23	454	205	98	49
4							28	23	460	198	96	49
5							28	22	409	198	96	49
6							28	23	249	146	96	51
7							28	23	176	133	96	49
8							28	23	137	128	95	48
9							28	27	139	128	76	48
10							28	31	146	153	61	48
11							28	34	146	160	60	48
12							28	37	146	163	61	48
13							28	39	151	181	60	48
14							28	41	148	179	58	49
15							28	44	151	179	61	48
16							28	41	153	173	58	48
17							28	35	160	173	51	50
18							28	34	181	168	52	53
19							27	33	231	133	51	53
20							27	32	234	114	51	54
21							26	71	249	114	50	56
22							27	267	238	107	49	56
23							27	393	231	101	49	58
24							27	472	234	101	50	58
25							26	521	238	100	50	58
26							25	454	241	98	50	58
27							25	503	241	98	50	58
28							24	497	234	98	50	58
29							25	478	231	98	50	58
30							24	472	241	96	49	58
31							---	497	---	98	49	---
TOTAL							814	5236	7146	4521	2023	1564
MEAN							27.1	169	238	146	65.3	52.1
MAX							28	521	460	279	100	58
MIN							24	22	137	96	49	48
ACFT							1610	10390	14170	8970	4010	3100

09229500 HENRYS FORK NEAR MANILA, UT

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

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

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

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

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

REMARKS.--Records fair except those for November to April, which are poor. Peoples Irrigation Canal diverts 5.9 mi upstream. Natural flow of stream affected by transbasin diversions, small storage reservoirs, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--56 years, 85.6 ft^3/s, 62,020 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,680 ft^3/s May 24, gage height, 6.50 ft; minimum daily, 55 ft^3/s Dec. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	169	139	90	104	96	65	81	107	943	229	391	119
2	306	145	102	94	100	70	80	134	689	204	399	114
3	490	135	96	100	100	71	77	154	554	178	343	113
4	325	129	108	110	110	71	80	148	495	158	272	106
5	196	126	100	118	100	63	90	130	427	134	250	98
6	177	127	92	118	105	64	100	112	383	128	227	106
7	141	123	112	110	106	74	100	70	365	139	207	143
8	141	128	124	106	111	79	104	68	314	167	162	119
9	153	122	114	106	100	80	105	76	332	333	142	103
10	160	114	118	106	102	80	80	105	291	226	138	96
11	201	132	118	116	110	82	64	125	300	227	134	92
12	139	142	112	106	116	84	59	141	249	183	143	114
13	125	130	118	111	114	83	86	219	216	137	165	121
14	132	119	110	111	98	83	93	341	176	193	288	107
15	122	115	108	104	99	85	130	598	169	179	261	96
16	118	110	105	96	106	84	219	916	190	138	364	95
17	116	115	103	106	106	83	293	836	199	114	319	92
18	117	118	98	77	90	83	339	726	201	102	228	77
19	113	117	82	80	76	83	388	640	245	92	232	69
20	109	114	73	83	61	85	251	707	227	140	276	85
21	107	113	63	85	58	84	170	1000	217	358	218	144
22	110	105	55	90	61	84	160	1150	174	365	176	158
23	106	108	60	97	63	84	194	1090	151	266	170	122
24	108	103	79	104	59	85	251	1310	162	563	190	132
25	118	110	100	116	65	84	257	1330	168	253	186	160
26	110	108	116	116	64	84	158	905	172	239	252	185
27	109	88	112	116	63	83	132	754	155	364	203	194
28	119	90	86	114	64	81	164	689	154	313	158	162
29	119	103	90	114	65	82	140	658	147	267	139	155
30	122	80	108	99	---	76	96	715	168	310	122	147
31	128	---	118	90	---	68	---	806	---	278	114	---
TOTAL	4806	3508	3070	3203	2568	2447	4541	16760	8633	6977	6869	3624
MEAN	155	117	99.0	103	88.6	78.9	151	541	288	225	222	121
MAX	490	145	124	118	116	85	388	1330	943	563	399	194
MIN	106	80	55	77	58	63	59	68	147	92	114	69
ACFT	9530	6960	6090	6350	5090	4850	9010	33240	17120	13840	13620	7190

CAL YR 1983	TOTAL	100654	MEAN	276	MAX	2000	MIN	39	ACFT	199600
WTR YR 1984	TOTAL	67006	MEAN	183	MAX	1330	MIN	55	ACFT	132900

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Wyoming 1984."

09234400 FLAMING GORGE RESERVOIR AT FLAMING GORGE DAM, UT

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

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

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

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

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

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

COOPERATION.--Records furnished by Bureau of Reclamation.

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

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 3,738,000 acre-ft Aug. 6-8, elevation, 6,039.74 ft; minimum observed, 3,009,000 acre-ft May 13, elevation, 6,020.92 ft.

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

6,020	2,977,000	6,035	3,543,000
6,025	3,157,000	6,040	3,749,000
6,030	3,346,000		

RESERVOIR STORAGE, IN THOUSANDS OF AC-FT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANTANEOUS OBSERVATIONS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3674	3616	3558	3449	3299	3145	3054	3068	3293	3622	3726	3710
2	3672	3615	3554	3444	3293	3140	3052	3070	3304	3634	3730	3709
3	3666	3612	3554	3440	3289	3137	3051	3068	3317	3649	3732	3708
4	3662	3613	3550	3435	3283	3130	3052	3066	3332	3660	3734	3706
5	3659	3611	3547	3431	3278	3124	3052	3059	3346	3670	3736	3706
6	3656	3609	3545	3425	3273	3119	3052	3052	3361	3679	3738	3706
7	3654	3607	3544	3423	3267	3113	3049	3044	3371	3689	3738	3704
8	3650	3604	3542	3420	3261	3108	3050	3034	3383	3696	3738	3702
9	3649	3600	3541	3415	3257	3103	3050	3026	3395	3704	3737	3702
10	3649	3598	3536	3411	3251	3097	3050	3022	3406	3706	3736	3701
11	3644	3594	3530	3406	3245	3092	3047	3016	3419	3707	3729	3700
12	3641	3590	3528	3401	3238	3087	3044	3013	3428	3706	3727	3700
13	3638	3589	3524	3397	3233	3082	3042	3009	3440	3708	3726	3701
14	3636	3587	3521	3393	3228	3079	3040	3010	3448	3709	3724	3700
15	3635	3584	3518	3387	3223	3075	3038	3025	3458	3709	3723	3698
16	3632	3583	3513	3382	3218	3074	3036	3030	3464	3709	3722	3698
17	3629	3580	3508	3377	3213	3071	3035	3041	3475	3709	3720	3696
18	3627	3580	3505	3372	3209	3066	3036	3054	3484	3709	3722	3696
19	3624	3577	3499	3366	3204	3065	3035	3067	3494	3708	3722	3694
20	3621	3578	3494	3360	3199	3065	3039	3080	3500	3709	3720	3692
21	3620	3576	3489	3355	3194	3066	3040	3098	3512	3710	3719	3690
22	3620	3575	3483	3350	3187	3065	3042	3113	3520	3710	3718	3689
23	3627	3571	3478	3346	3182	3064	3044	3132	3530	3712	3716	3689
24	3626	3572	3473	3339	3176	3063	3046	3150	3538	3712	3716	3688
25	3521	3573	3469	3335	3171	3062	3051	3166	3546	3712	3714	3686
26	3619	3572	3464	3329	3167	3061	3054	3193	3558	3712	3716	3686
27	3618	3569	3461	3326	3160	3061	3060	3213	3572	3713	3716	3686
28	3616	3566	3458	3322	3156	3061	3063	3232	3584	3713	3714	3685
29	3617	3564	3454	3315	3151	3061	3066	3248	3597	3719	3712	3685
30	3620	3561	3451	3310	---	3060	3067	3264	3611	3720	3711	3685
31	3619	---	3451	3305	---	3054	---	3280	---	3723	3710	---
MAX	3674	3616	3558	3449	3299	3145	3067	3280	3611	3723	3738	3710
MIN	3616	3561	3451	3305	3151	3054	3035	3009	3293	3622	3710	3685
(#)	6036.87	6035.45	6032.70	6028.93	6024.83	6022.18	6022.54	6028.28	6036.66	6039.38	6039.08	6038.46
(*)	-57	-58	-110	-146	-154	-97	+13	+213	+331	+112	-13	-25

CAL YR 1983 . . . . . (*) +144
WTR YR 1984 . . . . . (*) +9

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

09234500 GREEN RIVER NEAR GREENDALE, UT

LOCATION.--Lat 40°54'30", long 109°25'20", in NW1/4NW1/4SE1/4 sec.15. T.2 N., R.22 E., Daggett County, Hydrologic Unit 14040106, Ashley National Forest on right bank 0.5 mi downstream from Flaming Gorge Dam, 2 mi south of Dutch John, 4 mi northeast of Greendale, and 407 mi from mouth.

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

WATER-DISCHARGE RECORDS

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

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

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

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

AVERAGE DISCHARGE.--34 years, 2,128 ft^3/s, 1,542,000 acre-ft/yr, unadjusted.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,640 ft^3/s May 7, gage height, 9.54 ft; minimum daily, 750 ft^3/s Oct. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3230	4050	3150	3070	4160	4190	4100	4800	2820	1680	4130	2460
2	3890	3620	2540	3600	4180	4180	3130	5110	3370	1870	4140	1920
3	3890	3040	2300	3480	4170	3510	2790	5760	2550	2260	4210	2420
4	3840	2460	3670	3290	3880	4170	2800	6530	2120	2020	4170	2540
5	3790	3260	2380	3950	4150	4110	2800	7980	2970	2800	4210	2110
6	3370	3380	2040	4110	4170	4170	3460	8130	2760	3390	4180	2700
7	3810	3690	2140	2590	4200	4170	4060	8430	2850	3160	4160	2440
8	3510	3660	2550	3710	4260	4180	4160	8410	3080	3310	4160	2360
9	3550	3800	3380	3570	4280	4180	3450	7780	2650	3100	4160	2280
10	3100	3920	3210	3570	4280	4190	4200	6890	2790	3260	4120	1920
11	3720	3270	3580	3980	4180	4180	4220	6660	2100	3690	4110	2170
12	3290	3700	3220	3900	4170	4180	4230	8250	2240	4240	4120	2130
13	3700	3610	3080	3680	4120	4190	4210	8310	2080	4120	4040	2560
14	3770	3620	3070	3520	4030	4190	4230	6410	2440	4200	3900	2580
15	3360	3550	3580	3980	4100	4190	4230	4170	2480	4240	3200	1930
16	3830	3070	3710	4010	4050	4190	4230	4150	2540	4240	3340	1410
17	3630	3560	3680	4050	4130	4130	4240	4080	1610	4200	3490	1990
18	3810	2410	4110	3940	3920	4080	4230	4100	1790	4160	2720	2370
19	3630	3270	4170	3950	3990	3080	4230	4000	2000	4020	3010	2670
20	3590	2850	3780	3980	3430	2840	4230	3990	1910	3880	2950	2980
21	2780	3000	3910	3680	4180	2840	4230	3520	2110	3880	2900	2780
22	1110	2800	3860	3840	4170	2830	4230	4150	1670	3870	3160	1280
23	750	2570	3660	3690	4140	3550	4190	4150	2140	3870	3060	1830
24	2780	1810	3220	4040	4170	3870	3930	4120	2310	3690	3110	2540
25	3850	2410	3880	4180	3910	4180	3920	3790	2060	3660	2870	1970
26	3580	2680	3340	3750	4100	3230	3780	3390	1810	3810	2140	1880
27	3150	3390	3410	3340	4110	2820	3380	3590	1490	4070	2150	2010
28	2650	3100	2660	3340	3870	2820	4100	3570	1930	4240	2930	2160
29	1260	3090	3450	4080	4100	2830	4150	3550	2050	4190	2520	1780
30	793	2770	2580	3910	---	3570	4190	3370	2120	4090	2620	2340
31	2920	---	1450	4130	---	4140	---	3450	---	4120	2280	---
TOTAL	97933	95410	98760	115910	118600	116980	117330	164590	68840	111330	106260	66510
MEAN	3159	3180	3186	3739	4090	3774	3911	5309	2295	3591	3428	2217
MAX	3890	4050	4170	4180	4280	4190	4240	8430	3370	4240	4210	2980
MIN	750	1810	1450	2590	3430	2820	2790	3370	1490	1680	2140	1280
ACFT	194300	189200	195900	229900	235200	232000	232700	326500	136500	220800	210800	131900

CAL YR 1983	TOTAL	1529153	MEAN	4189	MAX	12300	MIN	750	ACFT	3033000
WTR YR 1984	TOTAL	1278453	MEAN	3493	MAX	8430	MIN	750	ACFT	2536000

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

WATER-QUALITY RECORDS

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

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

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

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 720 micromhos May 10, 11, Aug. 27-31, Sept. 5, 13; minimum observed, 560 micromhos June 21.
WATER TEMPERATURES: Maximum observed, 15.0°C Sept. 18; minimum observed, 3.5°C Feb. 14.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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										
28...	1330	3900	650	8.2	12.5	11.5	--	7.7	630	--
NOV										
16...	1545	3890	620	8.2	3.5	10.0	0.3	8.1	630	<1
DEC										
12...	1415	3870	640	8.1	3.0	7.0	--	8.8	623	--
JAN										
17...	1415	4010	640	8.0	-11.5	4.0	0.8	9.0	623	<1
FEB										
14...	1230	4100	640	8.0	3.0	3.5	--	10.2	618	--
MAR										
14...	1100	4200	680	8.0	6.0	4.0	0.9	8.8	620	<1
APR										
23...	1430	4100	660	7.9	17.5	5.0	--	9.1	627	--
MAY										
15...	1300	4210	630	8.0	20.5	6.0	2.5	9.8	625	K2
JUN										
21...	0730	960	560	8.0	12.5	10.0	--	8.4	630	--
JUL										
17...	1400	4240	640	7.9	33.5	12.5	1.6	8.6	630	<1
AUG										
15...	1100	3370	660	8.1	19.5	13.0	--	8.2	631	--
SEP										
18...	1230	1600	680	8.3	22.5	15.0	1.5	--	634	<1

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)
OCT 28...	--	220	4.5	55	21	49	32	1.5	2.3	150
NOV 16...	K2	230	4.7	59	21	47	30	1.4	2.5	150
DEC 12...	--	240	4.7	60	21	49	31	1.4	2.1	150
JAN 17...	<1	240	4.9	61	22	51	31	1.5	2.4	150
FEB 14...	--	240	4.7	58	22	49	31	1.4	2.5	160
MAR 14...	230	240	4.8	60	22	49	30	1.4	2.5	160
APR 23...	--	240	4.8	59	23	50	31	1.4	2.3	160
MAY 15...	500	230	4.7	57	22	48	31	1.4	2.2	150
JUN 21...	--	200	4.1	52	18	39	29	1.2	2.4	130
JUL 17...	<1	210	4.2	50	20	46	32	1.4	2.4	130
AUG 15...	--	230	4.6	56	22	51	32	1.5	2.5	150
SEP 18...	<1	230	4.7	56	23	54	33	1.6	2.3	150

DATE	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)
OCT 28...	170	13	0.2	6.1	391	409	0.53	4120	0.14	0.07
NOV 16...	170	14	0.3	6.2	417	411	0.57	4380	0.14	0.07
DEC 12...	180	14	0.3	6.3	415	423	0.56	4340	0.15	0.01
JAN 17...	190	15	0.2	6.1	428	439	0.58	4630	0.21	0.07
FEB 14...	170	13	0.3	6.5	424	418	0.58	4690	0.21	0.16
MAR 14...	180	13	0.4	6.7	423	430	0.58	4800	0.23	0.08
APR 23...	180	15	0.3	6.5	446	432	0.61	4940	0.31	0.08
MAY 15...	170	15	0.3	6.7	408	411	0.55	4640	0.23	0.06
JUN 21...	140	12	0.2	6.3	356	350	0.48	923	0.23	0.03
JUL 17...	160	14	0.2	5.3	370	379	0.5	4240	0.23	0.08
AUG 15...	170	16	0.2	4.2	411	410	0.56	3740	0.25	0.03
SEP 18...	180	18	0.3	4.4	442	429	0.6	1910	0.19	0.04

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

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
OCT 28...	0.09	--	--	--	--	--	--	--	<0.01	0.03
NOV 16...	0.09	0.7	0.7	0.7	3.1	<0.01	--	<0.01	0.02	0.06
DEC 12...	0.01	--	--	--	--	--	--	--	0.01	0.03
JAN 17...	0.09	0.2	<0.2	0.2	0.89	<0.01	--	<0.01	0.01	0.03
FEB 14...	0.21	--	--	--	--	--	--	--	0.01	0.03
MAR 14...	0.1	0.2	0.2	0.2	0.89	0.01	0.03	0.01	0.02	0.06
APR 23...	0.1	--	--	--	--	--	--	--	0.03	0.09
MAY 15...	0.08	0.3	0.3	0.3	1.3	0.01	0.03	0.01	0.02	0.06
JUN 21...	0.04	--	--	--	--	--	--	--	0.01	0.03
JUL 17...	0.1	0.5	0.5	0.5	2.2	0.02	--	0.01	0.02	0.06
AUG 15...	0.04	--	--	--	--	--	--	--	<0.01	0.03
SEP 18...	0.05	0.5	0.5	0.5	2.2	0.01	--	0.01	<0.01	0.03

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV 16...	1545	<10	2	75	<0.50	<1	<1	<3.00	4	4.00	2
MAR 14...	1100	<10	2	71	<0.50	<1	<1	<3.00	4	3.00	1
MAY 15...	1300	<10	1	74	<1.00	<1	<1	<3.00	3	7.00	2
JUL 17...	1400	20	1	76	1.00	<1	<1	<3.00	5	6.00	<1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV 16...	30	1	0.1	<10	2	1	<1	550	<6.0	10
MAR 14...	20	<1	<0.1	<10	3	<1	<1	560	<6.0	20
MAY 15...	30	3	<0.1	<10	4	<1	<1	560	<6.0	8.00
JUL 17...	20	<1	1.3	<10	12	1	<1	510	<6.0	20

DATE	TIME	BORON, DISSOLVED (UG/L AS B)
OCT 28...	1330	80
DEC 12...	1415	70
FEB 14...	1230	70
APR 23...	1430	80
JUN 21...	0730	60
AUG 15...	1100	80

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	630	670	---	670	670	---	660	650	---	680	---
2	---	---	670	---	680	670	680	670	---	620	680	---
3	630	---	---	680	680	---	680	670	---	590	680	---
4	620	---	---	700	---	---	680	670	610	---	---	710
5	630	---	660	670	---	680	680	---	610	600	---	720
6	630	---	680	680	670	670	---	---	620	590	680	710
7	630	640	660	---	680	670	---	660	610	---	680	700
8	---	620	640	---	680	670	---	660	620	---	680	---
9	---	630	660	680	680	670	680	660	---	590	680	---
10	---	630	---	690	670	---	690	720	---	600	680	700
11	610	---	---	690	---	---	680	720	600	600	---	700
12	610	---	670	680	---	680	680	---	590	600	---	710
13	620	---	690	680	670	680	670	---	600	600	680	720
14	620	620	670	---	680	670	---	660	590	---	680	710
15	---	620	680	---	670	680	---	650	590	---	690	---
16	---	620	680	690	680	670	710	670	---	620	690	---
17	630	620	---	680	680	---	710	660	---	630	690	700
18	620	670	---	700	---	---	700	640	600	630	---	700
19	610	---	690	680	---	670	700	---	590	630	---	700
20	620	---	690	700	---	680	700	---	580	640	700	700
21	620	620	680	---	680	680	---	650	580	---	700	700
22	---	630	680	---	670	680	---	650	580	---	700	---
23	---	620	670	---	670	680	700	640	---	650	700	---
24	620	---	---	---	680	---	700	650	---	640	700	690
25	620	630	---	---	---	---	700	650	580	650	---	700
26	610	---	---	---	---	680	700	---	580	660	---	700
27	620	---	680	680	680	670	710	---	590	650	720	700
28	620	620	680	---	660	680	---	---	580	---	720	700
29	---	620	680	---	680	680	---	650	590	---	720	---
30	---	620	680	690	---	680	690	660	---	680	720	---
31	610	---	---	680	---	---	---	650	---	680	720	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

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

GREEN RIVER BASIN

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT						
28...	1330	3900	11.5	5	--	53
DEC						
12...	1415	3870	7.0	1	--	10
JAN						
17...	1415	4010	4.0	4	--	43
FEB						
14...	1230	4100	3.5	12	--	133
MAR						
14...	1100	4200	4.0	16	30	181
APR						
23...	1430	4100	5.0	3	--	33
MAY						
15...	1300	4210	6.0	14	93	159
JUN						
21...	0730	960	10.0	1	--	2.6
JUL						
17...	1400	4240	12.5	33	--	378
AUG						
15...	1100	3370	13.0	5	--	45
SEP						
18...	1230	1600	15.0	3	50	13

09235600 POT CREEK ABOVE DIVERSIONS, NEAR VERNAL, UT

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

DRAINAGE AREA.--24.6 mi^2.

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

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

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

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

AVERAGE DISCHARGE.--27 years, 4.07 ft^3/s, 2,950 acre-ft/yr.

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 03	2300	51	3.58
May 09	2000	*220	4.51
June 08	2200	64	3.84

Minimum daily, 0.56 ft^3/s Sep. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	1.5	1.4	1.5	1.6	1.8	3.1	26	34	4.7	1.3	.80
2	5.7	1.5	1.4	1.5	1.6	1.9	3.2	29	26	3.6	3.1	.73
3	4.5	1.5	1.4	1.5	1.6	1.9	3.3	40	22	3.0	4.6	.67
4	3.3	1.4	1.4	1.5	1.6	1.9	3.3	43	23	2.5	3.7	.64
5	2.5	1.4	1.4	1.5	1.6	1.9	3.5	42	29	2.2	2.5	.56
6	2.0	1.4	1.6	1.5	1.7	2.0	3.6	34	38	2.2	2.0	.56
7	1.7	1.4	1.6	1.5	1.8	2.0	3.6	28	46	2.0	1.5	.61
8	1.6	1.2	1.6	1.5	1.8	2.0	3.8	37	55	2.0	1.0	.57
9	1.4	1.1	1.6	1.5	1.8	2.0	3.8	87	50	3.5	.97	.57
10	1.7	1.3	1.6	1.5	1.8	2.0	3.8	125	35	2.9	.90	.57
11	1.5	1.5	1.6	1.5	1.9	2.1	4.0	115	29	2.6	.89	.72
12	1.3	1.6	1.6	1.5	2.0	2.2	5.0	113	24	2.3	.88	1.3
13	1.3	1.8	1.6	1.5	2.0	2.2	6.6	128	21	2.1	.99	1.9
14	2.2	1.6	1.6	1.5	2.0	2.3	7.8	164	19	2.1	2.7	2.6
15	3.0	1.5	1.5	1.5	2.0	2.3	9.0	185	16	2.0	1.6	1.2
16	2.4	1.6	1.5	1.5	2.0	2.4	10	165	15	2.0	1.3	.95
17	2.2	1.8	1.5	1.4	2.0	2.5	11	126	14	1.6	1.4	.88
18	2.2	1.7	1.5	1.3	2.0	2.6	12	104	13	1.4	1.3	.83
19	2.3	1.6	1.5	1.3	2.0	2.7	11	88	12	1.4	1.0	.96
20	1.9	1.5	1.5	1.3	2.0	2.8	10	82	11	1.4	1.1	1.3
21	1.8	1.4	1.5	1.4	1.8	2.9	9.0	80	10	1.7	1.0	1.4
22	1.6	1.4	1.5	1.6	1.8	2.7	8.7	69	8.4	2.4	.92	1.5
23	1.5	1.4	1.5	1.8	1.8	2.9	8.4	61	7.0	2.5	.81	1.1
24	1.8	1.4	1.5	1.8	1.8	3.1	13	59	6.4	1.8	1.1	1.1
25	1.8	1.4	1.5	1.8	1.8	2.8	15	53	6.6	1.5	.96	1.7
26	1.7	1.4	1.5	1.8	1.8	2.4	18	46	6.0	1.6	1.0	2.4
27	1.6	1.4	1.5	1.8	1.8	2.7	22	40	5.5	1.4	1.3	2.2
28	1.5	1.4	1.5	1.7	1.8	3.0	24	34	4.5	1.3	.95	1.9
29	1.4	1.4	1.5	1.6	1.8	2.7	26	31	3.9	1.4	.83	1.5
30	1.3	1.4	1.5	1.6	---	3.0	25	28	4.0	1.4	.73	1.3
31	1.5	---	1.5	1.6	---	3.1	---	28	---	1.8	.68	---
TOTAL	66.5	43.9	46.9	47.8	53.0	74.8	290.5	2290	594.3	66.3	45.01	35.02
MEAN	2.15	1.46	1.51	1.54	1.83	2.41	9.68	73.9	19.8	2.14	1.45	1.17
MAX	5.7	1.8	1.6	1.8	2.0	3.1	26	185	55	4.7	4.6	2.6
MIN	1.3	1.1	1.4	1.3	1.6	1.8	3.1	26	3.9	1.3	.68	.56
ACFT	132	87	93	95	105	148	576	4540	1180	132	89	69

CAL YR 1983	TOTAL	5103.82	MEAN	14.0	MAX	183	MIN	.26	ACFT	10120
WTR YR 1984	TOTAL	3654.03	MEAN	9.98	MAX	185	MIN	.56	ACFT	7250

09261000 GREEN RIVER NEAR JENSEN, UT

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

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

WATER-DISCHARGE RECORDS

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

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

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

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

AVERAGE DISCHARGE.--39 years (1903-04, 1946-84), 4,483 ft^3/s, 3,248,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,000 ft^3/s May 18, 1984; gage height, 14.66 ft; minimum observed, 102 ft^3/s Dec. 6, 1904.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 40,000 ft^3/s May 18, gage height, 14.66 ft; minimum daily, 1,810 ft^3/s Oct. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4420	2670	3360	2460	4650	4670	5920	8660	22900	11800	6370	3370
2	3760	4810	3950	3190	4750	4770	5880	8860	23600	11500	6590	3190
3	4430	4550	3780	4230	4730	4770	5320	9760	25600	11500	6670	3120
4	4710	4010	3160	4100	4700	4150	4780	13200	24700	10700	6710	2960
5	4530	3380	4360	3990	4480	4730	4580	13400	22100	10100	6650	3070
6	4720	3760	3670	4390	4750	4700	4560	15100	22700	9660	6470	3140
7	4470	4160	2580	4690	4780	4780	5370	15800	22400	10200	6300	3040
8	4790	4680	2700	3560	4800	4790	7000	15200	23800	9420	6140	3100
9	4460	4590	3200	4000	4800	4800	7710	14000	25400	9270	6010	2970
10	4450	4640	3940	4210	4780	4810	7900	13800	23200	8950	5920	2980
11	4160	4800	4230	4120	4780	4840	8940	16100	20900	9810	5820	2810
12	4540	4570	4430	4540	4740	4870	7620	20600	17300	11300	5680	2700
13	4170	4540	4260	4490	4680	4880	7510	25300	16000	10400	5550	2680
14	4750	4660	3990	4400	4670	4950	6880	29000	15600	9130	5440	2800
15	4880	4500	3960	4050	4610	5010	6560	31200	15600	8710	5290	2840
16	4450	4720	4240	4400	4550	5050	6430	33400	17100	8670	5060	2940
17	4930	4240	4310	4590	4510	5060	6800	36400	18500	8420	4190	2920
18	4920	4210	4430	4520	4560	5030	8160	38500	18200	7890	4530	2800
19	4930	3640	4690	4360	4290	5050	10400	37800	17200	7440	4350	2770
20	4810	3890	4910	3000	4260	4260	14800	34400	16200	7050	4130	2830
21	4630	4290	4440	4000	4150	4250	14900	30400	15500	6580	4160	2990
22	3960	3880	4220	4900	4900	4320	12100	28900	15300	6410	4030	3420
23	2940	3710	4280	4700	4710	4370	9730	31300	14900	6520	4310	3350
24	2000	3610	4020	4300	4680	5180	9050	31300	15500	6330	4490	3100
25	2910	2340	3620	4600	4720	5900	10100	30700	14800	6150	4680	3500
26	4740	3310	4210	4640	4590	6000	12400	31600	14100	6200	4200	3890
27	4550	3200	3900	4250	4520	5260	14400	32000	13300	6570	3940	2840
28	4010	3800	3890	3700	4680	4810	10400	28500	12300	6700	3520	3190
29	3740	3830	3150	4000	4440	4710	9450	25700	11900	6740	3470	3380
30	2860	3870	3950	4600	---	4750	8860	24000	11900	6580	3570	3130
31	1810	---	3460	4400	---	5200	---	22400	---	6470	3530	---
TOTAL	129430	120860	121290	129380	134260	150720	254510	747280	548500	263170	157770	91820
MEAN	4175	4029	3913	4174	4630	4862	8484	24110	18280	8489	5089	3061
MAX	4930	4810	4910	4900	4900	6000	14900	38500	25600	11800	6710	3890
MIN	1810	2340	2580	2460	4150	4150	4560	8660	11900	6150	3470	2680
ACFT	256700	239700	240600	256600	266300	299000	504800	1482000	1088000	522000	312900	182100

CAL YR 1983	TOTAL	2751650	MEAN	7539	MAX	26600	MIN	1810	ACFT	5458000
WTR YR 1984	TOTAL	2848990	MEAN	7784	MAX	38500	MIN	1810	ACFT	5651000

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

WATER-QUALITY RECORDS

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

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

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

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

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

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 850 micromhos Apr. 4, 7; minimum observed, 260 micromhos June 20.
WATER TEMPERATURES: Maximum, 24.0°C Aug. 13, 17, 20, 21; minimum, 0.0°C several days during December, January and February.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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										
25...	1300	2120	570	8.2	12.5	10.0	10.0	657	200	4.0
NOV										
22...	1315	4190	600	8.2	-0.5	4.0	12.6	641	230	4.5
DEC										
13...	1215	3980	630	8.1	0.0	4.0	11.5	645	240	4.7
JAN										
20...	1045	4200	700	8.2	-26.0	0.0	13.7	656	260	5.2
FEB										
06...	1400	4750	660	8.2	-10.0	1.5	12.7	650	240	4.8
MAR										
09...	1300	4900	660	8.2	3.0	4.5	12.6	649	240	4.8
APR										
19...	1230	10100	780	8.0	17.0	11.0	9.9	632	--	--
MAY										
14...	1430	29500	480	7.9	30.5	13.5	8.7	650	180	3.7
JUN										
20...	1115	15900	260	7.9	26.0	17.0	8.1	650	98	2.0
JUL										
19...	1045	7450	520	8.1	30.0	20.0	7.8	652	180	3.7
AUG										
13...	1200	5380	670	8.2	31.5	20.0	8.0	650	230	4.6
SEP										
21...	0900	3050	680	8.0	15.5	15.5	8.2	641	240	4.8

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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 25...	48	19	44	32	1.4	2.2	150	120	21	0.2
NOV 22...	54	22	47	31	1.4	2.4	150	150	18	0.3
DEC 13...	58	22	49	31	1.4	2.0	150	160	18	0.3
JAN 20...	65	24	54	31	1.5	2.5	170	200	18	0.2
FEB 06...	59	23	52	32	1.5	2.6	170	180	17	0.3
MAR 09...	59	23	49	30	1.4	2.5	170	180	18	0.2
APR 19...	--	--	--	--	--	3.3	160	220	17	0.3
MAY 14...	44	18	29	25	1	2.6	110	110	9.1	0.2
JUN 20...	25	8.7	12	21	0.5	1.2	77	41	4.9	0.1
JUL 19...	46	17	34	28	1.1	1.9	110	110	12	0.2
AUG 13...	55	22	50	32	1.5	2.7	150	160	17	0.2
SEP 21...	59	22	48	30	1.4	2.9	150	170	22	0.3

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
OCT 25...	6.9	348	350	0.47	1990	<0.1	0.05	0.06	<0.01	0.03
NOV 22...	6.4	403	391	0.55	4560	0.1	0.07	0.09	0.02	0.06
DEC 13...	6.6	410	409	0.56	4410	0.14	0.01	0.01	0.02	0.06
JAN 20...	7.5	457	470	0.62	5180	0.28	0.05	0.06	0.01	0.03
FEB 06...	7.5	436	442	0.59	5590	0.29	0.82	1.1	0.02	0.06
MAR 09...	7.6	443	438	0.6	5860	0.25	0.04	0.05	0.04	0.12
APR 19...	--	520	336	0.71	14200	0.77	0.04	0.05	0.03	0.09
MAY 14...	9.4	304	291	0.41	24200	0.56	0.03	0.04	0.02	0.06
JUN 20...	8.7	158	148	0.21	6780	0.13	0.04	0.05	0.01	0.03
JUL 19...	7.0	303	295	0.41	6090	0.13	0.04	0.05	0.01	0.03
AUG 13...	5.7	415	402	0.56	6030	0.48	0.04	0.05	0.11	0.34
SEP 21...	9.6	425	421	0.58	3500	0.12	0.02	0.03	0.01	0.03

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT 25...	1300	70
NOV 22...	1315	70
DEC 13...	1215	70
JAN 20...	1045	80
FEB 06...	1400	80
MAR 09...	1300	80
APR 19...	1230	70
MAY 14...	1430	50
JUN 20...	1115	20
JUL 19...	1045	50
AUG 13...	1200	70
SEP 21...	0900	80

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	700	690	670	---	---	720	---	730	390	---	740	720
2	---	670	660	700	---	780	840	720	370	325	740	---
3	680	640	660	710	---	730	840	730	---	330	740	760
4	690	680	---	710	---	---	850	740	380	330	740	740
5	670	630	660	720	---	770	840	740	375	330	---	740
6	670	---	660	720	660	780	840	---	360	330	740	750
7	670	670	650	700	---	750	850	730	365	330	740	740
8	650	670	650	---	---	750	---	400	370	---	740	750
9	---	670	660	680	680	760	640	450	365	520	740	---
10	670	670	640	680	680	770	630	400	---	510	740	750
11	670	670	---	670	680	---	660	400	370	520	740	750
12	670	650	630	670	---	760	640	420	390	520	---	760
13	650	---	640	650	700	760	640	---	380	510	680	680
14	650	640	630	670	690	780	620	420	375	510	680	690
15	660	640	630	---	690	760	---	405	365	---	680	710
16	---	640	640	670	690	760	630	400	380	510	690	---
17	670	660	640	670	690	760	630	420	---	510	690	690
18	620	640	---	---	700	---	630	410	330	510	700	690
19	620	630	680	---	---	760	630	440	330	510	---	710
20	620	---	680	700	750	770	640	---	320	510	710	710
21	620	660	680	680	760	760	600	400	330	500	720	700
22	660	660	670	---	750	750	---	395	330	---	710	710
23	---	660	680	---	---	760	640	405	330	640	720	---
24	630	660	680	---	730	770	620	380	---	640	720	710
25	640	650	---	---	750	---	620	380	325	650	710	710
26	640	680	690	---	---	760	730	390	330	640	---	700
27	630	---	700	---	700	760	740	---	325	640	710	700
28	630	680	700	---	760	760	660	375	330	630	720	710
29	630	680	690	---	730	760	---	385	330	---	720	720
30	---	660	700	---	---	770	740	390	335	830	720	---
31	630	---	700	---	---	760	---	380	---	770	720	---
MEAN	650	660	660	---	---	760	700	475	355	520	720	720

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

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

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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 25...	1300	2120	10.0	165	944
NOV 22...	1315	4190	4.0	147	1660
DEC 13...	1215	3980	4.0	187	2010
JAN 20...	1045	4200	0.0	30	340
FEB 06...	1400	4750	1.5	75	962
MAR 09...	1300	4900	4.5	174	2300
APR 19...	1230	10100	11.0	2130	58200
MAY 14...	1430	29500	13.5	2900	231000
JUN 20..,	1115	15900	17.0	809	34700
JUL 19...	1045	7450	20.0	228	4590
AUG 13...	1200	5380	20.0	181	2630
SEP 21...	0900	3050	15.5	219	1800

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

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

DRAINAGE AREA.--77.2 mi^2.

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

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

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

AVERAGE DISCHARGE.--5 years, 45.4 ft^3/s, 32,900 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 287 ft^3/s May 30, gage height, 2.12 ft; minimum, 17 ft^3/s Mar. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	28	26	24	21	19	20	38	262	89	50	35
2	51	28	26	24	21	18	20	37	261	81	48	34
3	43	28	26	24	21	19	20	36	257	74	54	33
4	41	27	26	24	21	19	20	38	243	70	54	33
5	38	27	26	24	21	19	19	39	244	66	49	33
6	37	27	26	23	20	19	19	39	246	59	46	32
7	36	27	26	23	20	19	20	38	248	55	46	32
8	35	27	26	23	20	18	20	38	253	53	44	31
9	35	26	26	23	20	18	20	46	250	54	43	31
10	34	26	26	23	20	18	20	76	253	53	42	30
11	33	27	26	22	20	18	20	127	242	51	42	31
12	33	27	26	22	20	18	20	172	231	49	41	31
13	32	26	26	22	20	18	21	207	227	47	41	28
14	35	26	26	22	20	18	21	228	227	54	61	31
15	35	26	26	22	19	18	22	244	223	54	53	30
16	33	26	26	22	19	20	23	253	221	54	48	29
17	32	26	25	21	20	19	26	248	213	63	48	28
18	32	26	25	20	20	20	29	249	208	56	48	28
19	32	26	25	20	20	20	35	254	198	53	45	26
20	32	26	25	21	20	19	41	255	184	53	45	26
21	31	26	25	22	20	19	42	260	168	52	43	27
22	31	26	25	23	20	19	42	253	153	53	42	27
23	31	26	25	23	20	19	42	258	135	54	41	26
24	30	26	25	23	20	19	42	265	115	52	41	26
25	29	26	25	23	20	20	44	273	113	53	41	27
26	28	26	25	22	20	20	44	275	111	49	40	28
27	28	26	25	22	19	19	42	273	104	47	49	30
28	28	26	24	22	19	18	40	276	96	47	45	30
29	28	26	24	22	19	18	40	273	88	47	42	29
30	27	26	24	22	---	19	38	280	84	46	40	28
31	27	---	24	22	---	20	---	273	---	55	36	---
TOTAL	1044	793	787	695	580	584	872	5621	5858	1743	1408	890
MEAN	33.7	26.4	25.4	22.4	20.0	18.8	29.1	181	195	56.2	45.4	29.7
MAX	51	28	26	24	21	20	44	280	262	89	61	35
MIN	27	26	24	20	19	18	19	36	84	46	36	26
ACFT	2070	1570	1560	1380	1150	1160	1730	11150	11620	3460	2790	1770

CAL YR 1983	TOTAL	23971	MEAN	65.7	MAX	336	MIN	14	ACFT 47550
WTR YR 1984	TOTAL	20875	MEAN	57.0	MAX	280	MIN	18	ACFT 41410

09266500 ASHLEY CREEK NEAR VERNAL, UT

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

DRAINAGE AREA.--101 mi^2.

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

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

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

AVERAGE DISCHARGE.--71 years (1913-84), 100 ft^3/s, 72,450 acre-ft/yr.

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 16	1900	1,740	3.68
May 23	2300	*1,830	3.89

Minimum, 18 ft^3/s several days during March and April.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	159	63	47	36	27	25	26	40	532	186	131	137
2	166	63	47	35	28	26	27	39	421	158	133	129
3	122	62	48	35	28	26	25	40	412	143	129	129
4	110	62	48	35	28	26	26	39	384	136	121	126
5	109	63	46	35	28	25	27	40	449	127	118	126
6	104	62	45	35	27	25	27	41	470	121	117	126
7	102	63	45	34	27	26	27	40	490	119	115	126
8	99	64	45	34	27	27	26	40	416	116	108	125
9	96	58	44	34	28	27	27	44	377	133	106	125
10	98	56	44	33	28	28	27	69	378	127	103	122
11	100	60	42	33	28	27	27	157	382	115	101	128
12	95	60	43	32	27	27	25	260	359	106	103	159
13	82	58	41	32	27	27	26	405	334	100	104	131
14	86	56	40	32	27	26	26	674	341	106	174	140
15	87	58	41	32	27	27	26	1030	347	98	140	126
16	82	58	40	31	27	27	25	1200	326	97	156	124
17	85	56	40	32	28	27	28	988	294	89	145	123
18	84	55	40	31	27	27	32	773	277	94	147	112
19	80	55	40	30	27	25	37	764	260	116	130	104
20	72	55	40	30	26	26	38	1010	281	118	133	99
21	73	53	39	30	26	27	38	1160	263	121	122	102
22	71	52	39	29	27	26	36	989	230	130	121	87
23	68	52	39	29	26	27	36	1110	211	130	118	77
24	68	50	38	28	26	26	39	1420	204	126	125	79
25	65	50	39	27	26	27	43	916	200	127	138	82
26	66	49	38	27	26	26	44	764	192	124	151	95
27	70	49	38	29	25	26	43	736	187	130	161	110
28	64	48	37	29	25	26	41	626	174	116	136	95
29	64	48	36	28	26	26	42	627	162	122	127	85
30	63	47	36	28	---	27	40	589	173	128	122	79
31	63	---	36	27	---	26	---	555	---	156	126	---
TOTAL	2753	1685	1281	972	780	817	957	17185	9526	3815	3961	3408
MEAN	88.8	56.2	41.3	31.4	26.9	26.4	31.9	554	318	123	128	114
MAX	166	64	48	36	28	28	44	1420	532	186	174	159
MIN	63	47	36	27	25	25	25	39	162	89	101	77
ACFT	5460	3340	2540	1930	1550	1620	1900	34090	18890	7570	7860	6760

CAL YR 1983	TOTAL	62659	MEAN	172	MAX	1670	MIN	25	ACFT	124300
WTR YR 1984	TOTAL	47140	MEAN	129	MAX	1420	MIN	25	ACFT	93500

09267500 MOSBY CANAL NEAR LAPOINT, UT

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

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

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

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

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	.97	.00	.00	.00	.00	.00	.00	22	19	25	22
2	19	.38	.00	.00	.00	.00	.00	.00	23	19	25	19
3	18	.31	.00	.00	.00	.00	.00	.00	25	18	23	17
4	17	.14	.00	.00	.00	.00	.00	.00	25	18	23	17
5	16	.08	.00	.00	.00	.00	.00	.00	27	17	22	16
6	15	.01	.00	.00	.00	.00	.00	.00	28	16	23	17
7	15	.00	.00	.00	.00	.00	.00	.00	29	16	22	16
8	15	.00	.00	.00	.00	.00	.00	.00	28	16	20	15
9	15	.00	.00	.00	.00	.00	.00	.00	26	19	19	14
10	15	.00	.00	.00	.00	.00	.00	.00	25	19	19	14
11	15	.00	.00	.00	.00	.00	.00	.00	25	17	19	13
12	15	.00	.00	.00	.00	.00	.00	.00	24	16	18	13
13	15	.00	.00	.00	.00	.00	.00	.00	23	16	19	13
14	16	.00	.00	.00	.00	.00	.00	.00	24	23	22	13
15	17	.00	.00	.00	.00	.00	.00	.00	25	24	25	13
16	16	.00	.00	.00	.00	.00	.00	.00	24	26	27	13
17	16	.00	.00	.00	.00	.00	.00	.00	24	24	25	14
18	17	.00	.00	.00	.00	.00	.00	.00	23	23	26	13
19	15	.00	.00	.00	.00	.00	.00	.00	22	22	26	13
20	15	.00	.00	.00	.00	.00	.00	.00	23	23	27	12
21	15	.00	.00	.00	.00	.00	.00	.00	23	24	25	13
22	15	.00	.00	.00	.00	.00	.00	.00	21	25	24	13
23	14	.00	.00	.00	.00	.00	.00	.00	20	26	23	14
24	15	.00	.00	.00	.00	.00	.00	.00	20	25	26	14
25	13	.00	.00	.00	.00	.00	.00	.00	19	25	25	13
26	14	.00	.00	.00	.00	.00	.00	.10	20	25	26	13
27	14	.00	.00	.00	.00	.00	.00	.21	19	25	23	12
28	12	.00	.00	.00	.00	.00	.00	.35	19	24	22	13
29	12	.00	.00	.00	.00	.00	.00	.70	19	24	21	12
30	16	.00	.00	.00	---	.00	.00	1.7	20	24	20	12
31	7.0	---	.00	.00	---	.00	---	6.0	---	28	21	---
TOTAL	469.0	1.89	.00	.00	.00	.00	.00	9.06	695	666	711	426
MEAN	15.1	.06	.00	.00	.00	.00	.00	.29	23.2	21.5	22.9	14.2
MAX	20	.97	.00	.00	.00	.00	.00	6.0	29	28	27	22
MIN	7.0	.00	.00	.00	.00	.00	.00	.00	19	16	18	12
ACFT	930	3.7	.00	.00	.00	.00	.00	18	1380	1320	1410	845

CAL YR 1983	TOTAL	2111.00	MEAN	5.78	MAX	21	MIN	.00	ACFT	4190
WTR YR 1984	TOTAL	2977.95	MEAN	8.14	MAX	29	MIN	.00	ACFT	5910

09268500 NORTH FORK OF DRY FORK NEAR DRY FORK, UT

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

DRAINAGE AREA.--8.62 mi^2.

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

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

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

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

AVERAGE DISCHARGE.--38 years, 6.87 ft^3/s, 4,980 acre-ft/yr.

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 14	1800	78	2.98
May 20	1900	*86	3.04

Minimum daily, 1.0 ft^3/s Mar. 26 to Apr. 6.

DISCHARGE, IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	4.9	3.3	2.8	2.3	1.6	1.0	2.7	33	17	5.7	4.1
2	6.3	4.8	3.3	2.8	2.2	1.6	1.0	2.6	30	16	5.5	4.0
3	5.7	4.7	3.3	2.6	2.2	1.7	1.0	2.6	28	16	5.3	3.8
4	5.6	4.6	3.3	2.6	2.2	1.7	1.0	2.6	27	16	5.2	3.7
5	5.4	4.5	3.5	2.6	2.2	1.7	1.0	2.7	29	15	5.2	3.6
6	5.2	4.5	3.5	2.6	2.2	1.5	1.0	2.7	29	15	5.4	3.5
7	5.4	4.5	3.2	2.6	2.2	1.5	1.1	2.7	29	14	5.1	3.5
8	6.0	4.3	3.1	2.6	2.1	1.5	1.1	2.9	26	14	4.9	3.4
9	5.5	3.6	3.1	2.6	2.1	1.5	1.1	3.9	24	14	4.7	3.4
10	5.4	4.2	3.1	2.8	2.1	1.5	1.2	7.2	23	14	4.6	3.3
11	5.2	4.4	3.1	2.6	2.0	1.3	1.3	13	23	13	4.6	3.4
12	5.1	4.3	3.1	2.6	2.1	1.3	1.4	20	22	12	4.8	3.5
13	5.1	4.2	3.1	2.5	2.1	1.3	1.6	33	22	12	4.7	3.5
14	5.4	4.0	3.1	2.6	2.1	1.3	1.7	54	20	12	5.2	3.3
15	5.4	3.8	3.1	2.6	2.1	1.3	1.8	65	19	11	4.5	3.1
16	5.6	4.0	3.2	2.6	2.0	1.2	2.1	67	19	10	4.8	3.1
17	5.7	3.9	3.0	2.5	2.0	1.2	2.5	58	19	9.7	3.8	3.1
18	5.9	3.8	3.0	2.4	2.0	1.2	3.0	56	19	9.3	3.6	3.0
19	5.7	3.7	3.0	2.4	2.0	1.2	3.0	55	19	8.7	3.6	2.9
20	5.7	3.9	3.0	2.4	2.0	1.2	2.8	65	21	8.3	3.8	2.9
21	5.5	3.9	3.0	2.4	1.9	1.1	2.7	63	20	8.2	3.7	3.1
22	5.4	3.9	2.9	2.4	1.9	1.1	2.7	58	19	7.9	3.8	2.9
23	5.4	4.0	2.9	2.4	1.9	1.1	2.9	63	19	7.8	3.9	2.8
24	5.3	3.7	2.9	2.5	1.9	1.1	3.0	61	19	7.1	4.0	3.1
25	5.1	3.7	2.9	2.3	1.8	1.1	3.1	51	19	7.4	4.4	3.0
26	4.9	3.3	2.8	2.3	1.8	1.0	3.1	46	19	6.8	4.5	3.1
27	4.9	3.7	2.8	2.2	1.8	1.0	3.1	42	19	6.3	4.3	3.0
28	4.8	3.5	2.9	2.2	1.6	1.0	3.0	38	18	6.2	4.0	2.9
29	4.8	3.4	2.8	2.3	1.6	1.0	3.0	36	17	7.1	3.9	2.9
30	4.8	3.7	2.7	2.3	---	1.0	3.0	35	17	6.5	3.9	2.8
31	4.9	---	2.7	2.3	---	1.0	---	33	---	6.0	4.1	---
TOTAL	168.4	121.4	94.7	77.4	58.4	39.8	61.3	1044.6	667	334.3	139.5	97.7
MEAN	5.43	4.05	3.05	2.50	2.01	1.28	2.04	33.7	22.2	10.8	4.50	3.26
MAX	7.3	4.9	3.5	2.8	2.3	1.7	3.1	67	33	17	5.7	4.1
MIN	4.8	3.3	2.7	2.2	1.6	1.0	1.0	2.6	17	6.0	3.6	2.8
ACFT	334	241	188	154	116	79	122	2070	1320	663	277	194

CAL YR 1983	TOTAL	5184.2	MEAN	14.2	MAX	152	MIN	1.3	ACFT	10280
WTR YR 1984	TOTAL	2904.5	MEAN	7.94	MAX	67	MIN	1.0	ACFT	5760

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

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

DRAINAGE AREA.--8.24 mi^2.

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

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

REMARKS.--Records good except those for winter months and no gage height record Aug. 20 to Sept. 30, which are fair. No diversion above station.

AVERAGE DISCHARGE.--24 years, 13.2 ft^3/s, 9,560 acre-ft/yr.

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 15	2000	184	2.22
May 23	1700	*340	2.75

Minimum daily, 0.80 ft^3/s Apr. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	8.0	5.0	3.8	2.6	2.1	1.8	2.2	74	24	9.8	9.8
2	17	7.8	5.0	3.5	2.5	2.0	1.8	2.2	60	22	9.5	9.5
3	13	7.5	4.9	3.4	2.5	2.0	1.9	2.0	55	21	9.1	9.2
4	12	7.2	4.5	3.3	2.5	2.0	1.9	1.9	49	20	8.8	8.8
5	12	7.0	4.2	3.2	2.5	2.0	2.0	1.9	60	19	8.6	8.8
6	12	7.1	4.6	3.2	2.5	2.0	1.9	1.9	53	18	11	8.6
7	10	7.0	4.8	3.2	2.5	2.0	1.9	1.8	52	18	9.5	8.5
8	9.9	6.8	4.8	3.2	2.4	2.0	1.9	2.2	44	18	8.4	8.3
9	9.4	5.4	4.3	3.2	2.4	2.0	1.9	3.0	36	19	7.8	8.1
10	9.4	5.2	4.2	3.2	2.4	2.0	1.9	5.6	34	17	7.6	8.0
11	9.0	5.8	4.2	3.6	2.3	2.0	1.9	9.9	37	16	7.3	8.5
12	8.6	6.5	4.2	3.2	2.3	2.0	1.8	16	41	16	9.1	9.0
13	8.5	6.5	4.2	3.0	2.3	1.9	1.7	20	39	15	8.6	8.3
14	9.3	6.0	4.2	3.4	2.3	1.9	1.5	59	33	15	14	8.0
15	9.3	5.8	3.8	3.4	2.3	1.9	1.8	143	31	15	11	8.0
16	9.2	5.8	3.5	3.0	2.4	1.9	.80	164	29	15	16	7.7
17	9.4	5.8	3.8	2.9	2.4	1.9	1.6	126	28	14	11	7.5
18	9.7	5.7	4.0	2.7	2.4	1.9	2.3	102	29	14	10	7.2
19	9.3	5.6	4.2	2.6	2.4	1.9	2.5	118	29	14	8.7	7.2
20	9.1	5.6	4.1	2.6	2.4	1.8	2.2	179	33	13	9.4	7.2
21	9.1	5.0	3.8	2.8	2.4	1.8	1.9	182	30	13	9.6	8.3
22	9.0	4.7	4.4	3.1	2.4	1.8	1.9	173	30	13	10	7.5
23	8.8	4.3	4.2	3.3	2.3	1.8	1.9	185	30	13	10	7.8
24	8.9	4.7	3.9	3.3	2.2	1.8	1.9	185	30	12	11	7.6
25	8.2	5.2	3.8	3.5	2.2	1.8	2.0	115	29	12	11	8.0
26	8.2	5.2	3.6	3.3	2.2	1.8	2.2	108	28	11	11	7.8
27	8.0	4.8	3.6	3.0	2.2	1.8	2.2	93	27	11	10	7.6
28	7.8	4.6	3.5	2.9	2.2	1.8	2.2	84	26	10	9.4	7.4
29	7.8	4.6	3.4	2.8	2.2	1.8	2.2	82	24	12	9.5	7.2
30	7.6	4.6	3.5	2.7	---	1.8	2.2	78	24	12	9.6	7.2
31	8.0	---	3.7	2.7	---	1.8	---	74	---	11	10	---
TOTAL	307.5	175.8	127.9	97.0	68.6	59.0	57.60	2320.6	1124	473	306.3	242.6
MEAN	9.92	5.86	4.13	3.13	2.37	1.90	1.92	74.9	37.5	15.3	9.88	8.09
MAX	20	8.0	5.0	3.8	2.6	2.1	2.5	185	74	24	16	9.8
MIN	7.6	4.3	3.4	2.6	2.2	1.8	.80	1.8	24	10	7.3	7.2
ACFT	610	349	254	192	136	117	114	4600	2230	938	608	481

CAL YR 1983	TOTAL	8430.14	MEAN	23.1	MAX	295	MIN	.68	ACFT	16720
WTR YR 1984	TOTAL	5359.90	MEAN	14.6	MAX	185	MIN	.80	ACFT	10630

09270500 DRY FORK AT MOUTH, NEAR DRY FORK, UT

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

DRAINAGE AREA.--115 mi^2.

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

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

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

REMARKS.--Records good except those for winter months and of no gage height record, Mar. 3 to Apr. 10, which are 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.--30 years, 28.0 ft^3/s, 20,290 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 250 ft^3/s, 712 ft^3/s May 24, gage height, 4.90 ft; minimum daily, 1.0 ft^3/s Mar. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	4.8	3.8	3.3	3.0	2.1	2.8	3.2	220	79	19	13
2	8.5	4.9	3.8	3.1	3.1	2.1	2.8	3.3	174	75	20	11
3	10	4.8	3.9	3.1	3.2	2.1	2.8	3.0	140	66	18	10
4	12	4.9	3.8	3.1	3.3	2.0	2.8	3.0	131	58	16	8.8
5	12	4.8	3.8	3.1	3.3	1.0	2.8	2.4	129	50	14	7.4
6	11	4.8	3.4	3.3	2.9	2.2	2.8	1.8	144	54	15	7.2
7	11	4.8	3.8	3.0	3.2	2.2	2.8	1.2	130	43	13	6.7
8	9.9	7.6	3.8	3.1	2.9	2.2	2.8	1.3	130	41	11	5.8
9	10	5.6	3.8	3.3	2.9	2.2	2.8	1.7	120	45	9.4	4.5
10	11	5.3	3.8	3.4	2.9	2.3	2.8	1.5	110	43	8.3	4.1
11	10	5.2	3.6	3.4	2.8	2.3	3.3	1.5	110	37	7.7	4.7
12	9.3	5.0	3.7	3.4	2.6	2.3	2.8	1.5	110	36	6.9	5.3
13	8.3	5.5	3.6	3.4	2.3	2.3	2.6	5.0	100	33	6.4	2.9
14	9.5	5.5	3.5	3.4	2.2	2.3	2.5	15	97	31	6.3	1.9
15	8.2	5.2	3.6	3.4	1.9	2.3	2.4	62	101	30	6.4	2.4
16	7.7	4.9	3.5	3.0	1.8	2.4	2.3	189	98	29	11	2.8
17	7.2	4.8	3.4	2.8	1.7	2.5	2.3	243	92	28	13	2.3
18	7.0	4.9	3.3	2.7	1.7	2.5	2.5	252	93	24	16	2.3
19	6.6	4.5	3.2	2.9	1.7	2.5	2.6	240	92	26	20	2.4
20	6.5	5.0	3.0	3.3	1.7	2.5	2.6	300	90	21	26	2.5
21	5.8	6.0	2.6	3.5	1.7	2.5	2.3	440	90	16	26	3.7
22	5.3	5.5	3.0	3.5	1.9	2.5	2.1	399	90	21	24	2.9
23	5.0	5.1	3.3	3.5	2.1	2.5	2.1	435	91	22	23	2.7
24	4.8	5.3	3.4	3.3	2.1	2.5	2.1	590	93	20	21	3.2
25	4.6	5.3	3.4	3.1	2.1	2.7	2.8	474	94	19	21	4.1
26	4.6	5.3	3.4	2.9	2.1	2.7	3.0	348	97	18	21	3.1
27	4.6	5.3	3.6	2.8	2.1	2.7	2.9	330	90	18	23	2.8
28	4.6	5.6	3.1	2.7	2.1	2.7	2.6	270	86	15	22	2.7
29	4.4	5.2	2.9	2.6	2.1	2.7	2.3	237	82	15	18	2.7
30	4.4	4.5	3.3	2.7	---	2.7	2.3	241	79	15	15	2.7
31	4.6	---	3.3	2.9	---	2.7	---	223	---	16	12	---
TOTAL	236.1	155.9	107.4	97.0	69.4	73.2	78.4	5318.4	3303	1044	489.4	138.6
MEAN	7.62	5.20	3.46	3.13	2.39	2.36	2.61	172	110	33.7	15.8	4.62
MAX	12	7.6	3.9	3.5	3.3	2.7	3.3	590	220	79	26	13
MIN	4.4	4.5	2.6	2.6	1.7	1.0	2.1	1.2	79	15	6.3	1.9
ACFT	468	309	213	192	138	145	156	10550	6550	2070	971	275

CAL YR 1983	TOTAL	35283.0	MEAN	96.7	MAX	1670	MIN	1.9	ACFT	69980
WTR YR 1984	TOTAL	11110.8	MEAN	30.4	MAX	590	MIN	1.0	ACFT	22040

09275500 WEST FORK DUCHESNE RIVER NEAR HANNA, UT

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

DRAINAGE AREA.--61.6 mi^2.

PERIOD OF RECORD.--May to October 1904 (gage heights only, fragmentary), August 1921 to March 1922, October 1922 to September 1923, October 1945 to September 1984 (discontinued).

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

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

AVERAGE DISCHARGE.--40 years (1922-23, 1945-84), 49.7 ft^3/s, 36,010 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 300 ft^3/s, 594 ft^3/s, May 31, gage height, 2.90 ft; minimum daily, 14 ft^3/s Jan. 17-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	27	21	20	15	18	23	61	491	137	66	41
2	32	26	20	19	16	18	23	61	431	130	64	38
3	30	25	20	23	17	18	22	63	434	121	62	34
4	28	25	19	21	18	19	23	67	363	114	60	33
5	27	25	20	19	18	20	25	67	328	105	58	33
6	27	24	21	20	21	20	26	67	308	99	56	33
7	26	24	22	20	18	19	27	64	285	94	54	33
8	27	26	20	20	19	18	28	60	261	93	53	35
9	27	22	19	20	20	18	28	67	245	99	50	32
10	30	26	19	18	19	19	27	86	242	89	49	31
11	30	26	19	18	20	17	27	121	232	81	47	32
12	28	25	20	18	18	18	28	172	234	73	45	39
13	27	28	21	18	19	18	28	238	247	83	44	37
14	28	26	22	18	17	19	29	289	259	77	42	31
15	29	25	21	17	16	19	34	333	258	68	41	27
16	27	27	24	15	17	20	42	361	250	64	40	27
17	28	25	23	14	18	19	50	340	251	61	40	27
18	27	25	22	14	17	18	62	357	245	60	40	25
19	29	25	23	14	16	23	60	395	237	60	42	25
20	28	25	20	14	16	21	48	438	232	61	55	25
21	26	25	18	15	15	22	48	483	225	69	44	36
22	25	24	21	15	16	22	50	485	215	80	40	31
23	24	24	21	16	17	23	55	487	208	76	40	29
24	26	24	19	17	17	22	62	494	199	72	40	27
25	26	22	20	17	17	22	62	473	196	76	47	28
26	24	21	23	17	17	22	55	462	184	71	43	26
27	24	23	22	17	17	22	54	510	168	68	40	26
28	24	23	18	17	17	23	53	504	159	65	37	24
29	24	21	18	16	17	22	55	515	153	72	35	24
30	25	19	23	15	---	22	61	528	149	71	35	23
31	26	---	20	15	---	22	---	535	---	68	37	---
TOTAL	841	733	639	537	505	623	1215	9183	7689	2557	1446	912
MEAN	27.1	24.4	20.6	17.3	17.4	20.1	40.5	296	256	82.5	46.6	30.4
MAX	32	28	24	23	21	23	62	535	491	137	66	41
MIN	24	19	18	14	15	17	22	60	149	60	35	23
ACFT	1670	1450	1270	1070	1000	1240	2410	18210	15250	5070	2870	1810

CAL YR 1983	TOTAL	28180	MEAN	77.2	MAX	548	MIN	10	ACFT	55900
WTR YR 1984	TOTAL	26880	MEAN	73.4	MAX	535	MIN	14	ACFT	53320

09276000 WOLF CREEK ABOVE RHOADES CANYON, NEAR HANNA, UT

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

DRAINAGE AREA.--10.6 mi^2.

PERIOD OF RECORD.--October 1945 to September 1984 (discontinued).

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

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

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

AVERAGE DISCHARGE.--39 years, 7.88 ft^3/s, 5,710 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 25 ft^3/s, 119 ft^3/s, May 31, gage height, 2.70 ft; minimum daily, 5.4 ft^3/s many days in March, April and May.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	8.6	7.4	6.6	6.3	6.0	5.4	5.4	96	41	17	13
2	9.8	8.6	7.4	6.3	6.3	6.0	5.4	5.5	71	39	17	13
3	9.5	8.6	7.4	6.3	6.3	6.0	5.4	5.4	65	38	17	13
4	9.3	8.5	7.3	6.3	6.3	6.0	5.4	5.4	56	37	16	12
5	9.2	8.2	7.0	6.3	6.3	5.9	5.4	5.4	56	36	16	12
6	9.2	8.2	7.0	6.3	6.3	6.0	5.4	5.4	53	35	16	12
7	9.5	8.2	7.0	6.3	6.3	5.9	5.4	5.4	52	34	15	12
8	9.6	8.2	6.7	6.3	6.0	5.7	5.4	5.4	48	34	15	12
9	9.5	7.8	6.7	6.3	6.0	5.7	5.4	5.5	45	34	15	12
10	10	7.8	6.7	6.3	6.0	5.7	5.4	6.0	43	33	15	12
11	9.8	7.8	6.7	6.3	6.0	5.7	5.4	7.2	42	32	14	12
12	9.5	7.8	7.0	6.1	6.0	5.7	5.4	8.4	41	32	14	13
13	9.5	7.8	7.0	6.0	6.0	5.7	5.4	13	45	33	14	12
14	9.6	7.8	7.0	6.0	6.2	5.7	5.4	27	49	32	14	11
15	9.5	7.8	7.0	6.0	6.0	5.7	5.5	33	52	30	14	11
16	9.3	7.8	6.8	6.0	6.0	5.7	5.6	34	52	27	14	11
17	9.2	7.8	6.7	6.0	6.0	5.7	5.7	33	51	25	14	11
18	9.3	7.8	6.7	5.9	6.0	5.7	5.9	34	51	24	14	11
19	9.0	7.5	6.7	5.7	6.0	5.7	6.0	40	51	23	14	11
20	8.9	7.8	6.7	5.7	6.0	5.7	5.8	40	49	22	15	11
21	8.9	7.8	6.7	5.7	6.0	5.7	5.7	50	48	23	14	13
22	8.8	7.4	6.7	5.7	6.0	5.7	5.7	55	47	23	13	12
23	8.6	7.4	6.7	5.7	6.0	5.5	5.8	64	45	21	13	12
24	8.8	7.4	6.7	5.7	6.0	5.4	5.8	64	45	20	13	11
25	9.0	7.4	6.7	5.7	6.0	5.4	5.7	70	44	20	14	11
26	9.0	7.4	6.7	6.1	6.0	5.4	5.7	68	44	20	13	11
27	8.9	7.4	6.7	6.3	6.0	5.4	5.7	74	44	20	13	11
28	8.6	7.4	6.7	6.3	6.0	5.4	5.6	74	43	19	13	10
29	8.6	7.4	6.7	6.3	6.0	5.4	5.4	74	42	18	13	10
30	8.6	7.4	6.7	6.3	---	5.4	5.4	72	42	18	13	10
31	8.6	---	6.7	6.3	---	5.4	---	91	---	18	13	---
TOTAL	285.6	234.8	212.6	189.1	176.3	176.0	166.6	1080.4	1512	861	445	348
MEAN	9.21	7.83	6.86	6.10	6.08	5.68	5.55	34.9	50.4	27.8	14.4	11.6
MAX	10	8.6	7.4	6.6	6.3	6.0	6.0	91	96	41	17	13
MIN	8.6	7.4	6.7	5.7	6.0	5.4	5.4	5.4	41	18	13	10
ACFT	566	466	422	375	350	349	330	2140	3000	1710	883	690

CAL YR 1983	TOTAL	5658.0	MEAN	15.5	MAX	113	MIN	2.8	ACFT	11220
WTR YR 1984	TOTAL	5687.4	MEAN	15.5	MAX	96	MIN	5.4	ACFT	11280

09277500 DUCHESNE RIVER NEAR TABIONA, UT

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

DRAINAGE AREA.--356 mi^2.

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

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

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

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

AVERAGE DISCHARGE.--66 years, 202 ft^3/s, 146,300 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 900 ft^3/s, 2,020 ft^3/s June 1, gage height, 5.18 ft; minimum, 71 ft^3/s Mar. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	261	193	167	137	135	98	113	165	1790	656	276	210
2	238	193	166	135	117	99	112	165	1530	593	260	220
3	220	185	164	130	125	98	112	169	1460	552	242	205
4	209	181	160	125	120	95	114	173	1230	522	224	190
5	201	178	150	130	117	92	115	170	1110	492	215	190
6	204	177	161	138	119	100	114	164	1060	466	203	190
7	194	175	166	136	125	102	114	157	982	438	173	190
8	197	179	168	134	112	104	119	165	877	405	150	190
9	198	166	159	134	119	110	120	199	800	430	141	200
10	208	176	162	128	123	111	117	272	744	422	141	180
11	221	178	158	150	115	112	120	338	722	388	171	170
12	220	178	158	131	112	112	109	442	689	365	173	190
13	213	186	152	135	124	112	117	623	681	376	164	170
14	215	184	154	130	119	122	109	829	776	393	163	158
15	227	172	160	130	110	111	122	1000	976	340	169	151
16	221	176	144	120	120	118	137	1090	963	311	210	158
17	219	179	153	118	117	108	168	1000	922	275	195	151
18	216	175	142	115	115	113	199	950	978	256	191	140
19	213	162	152	120	107	111	227	987	975	237	216	131
20	211	176	148	125	114	125	199	1100	961	235	256	136
21	203	174	138	130	117	132	177	1370	985	253	233	189
22	200	158	147	120	124	117	172	1490	967	310	205	188
23	199	152	152	115	102	114	187	1570	910	309	240	174
24	197	163	149	115	112	126	195	1760	877	268	203	167
25	194	174	140	120	104	125	207	1600	836	275	230	172
26	191	164	130	125	99	120	188	1410	815	271	225	173
27	189	157	140	132	98	111	182	1490	757	268	215	170
28	187	165	140	119	99	109	172	1390	696	263	200	171
29	186	167	142	113	97	114	167	1420	660	283	190	172
30	185	154	135	114	---	118	168	1590	671	278	190	166
31	194	---	135	128	---	111	---	1770	---	266	190	---
TOTAL	6431	5197	4692	3932	3317	3450	4472	27018	28400	11196	6254	5262
MEAN	207	173	151	127	114	111	149	872	947	361	202	175
MAX	261	193	168	150	135	132	227	1770	1790	656	276	220
MIN	185	152	130	113	97	92	109	157	660	235	141	131
ACFT	12760	10310	9310	7800	6580	6840	8870	53590	56330	22210	12400	10440

CAL YR 1983	TOTAL	119976	MEAN	329	MAX	1970	MIN	95	ACFT	238000
WTR YR 1984	TOTAL	109621	MEAN	300	MAX	1790	MIN	92	ACFT	217400

09277800 ROCK CREEK ABOVE SOUTH FORK, NEAR HANNA, UT

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

DRAINAGE AREA.--98.9 mi^2.

PERIOD OF RECORD.--October 1965 to March 1984 (discontinued).

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

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

REMARKS.--Records fair.

AVERAGE DISCHARGE.--18 years (1966-83), 140 ft^3/s, 101,400 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 147 ft3/s Oct. 1, peak above base of 1,000 ft^3/s not determined; minimum daily, 21 ft^3/s Mar. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	78	53	42	32	26						
2	132	77	57	40	31	24						
3	121	73	56	45	31	22						
4	109	70	57	46	30	22						
5	112	70	51	46	30	24						
6	110	66	47	46	30	22						
7	108	68	51	46	29	22						
8	105	65	54	47	30	22						
9	106	50	53	44	30	22						
10	120	66	52	44	29	22						
11	128	63	57	42	29	22						
12	112	64	56	40	28	22						
13	110	65	49	41	30	24						
14	115	66	50	41	32	22						
15	110	68	49	39	26	24						
16	105	68	47	37	31	24						
17	101	65	48	33	33	24						
18	101	64	50	30	31	24						
19	92	63	52	31	37	24						
20	91	64	53	33	36	24						
21	86	65	33	32	32	26						
22	84	57	26	33	32	24						
23	84	49	28	32	33	28						
24	82	56	34	32	31	22						
25	78	60	41	32	30	22						
26	75	56	46	32	31	22						
27	74	56	47	32	30	21						
28	72	56	47	33	30	22						
29	72	53	41	32	29	22						
30	69	51	48	32	---	22						
31	75	---	48	32	---	---						
TOTAL	3086	1892	1481	1167	893	---						
MEAN	99.5	63.1	47.8	37.6	30.8	---						
MAX	147	78	57	47	37	---						
MIN	69	49	26	30	26	---						
ACFT	6120	3750	2940	2310	1770	---						

CAL YR 1983 TOTAL 76022 MEAN 208 MAX 2080 MIN 26 ACFT 150800

09278000 SOUTH FORK ROCK CREEK NEAR HANNA, UT

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

DRAINAGE AREA.--15.7 mi2.

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

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

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

REMARKS.--Records good except those for winter months, which are poor. Pipeline capacity approximately 1.5 ft^3/s that provides water for small hydroelectric plant and irrigation for dude ranch lying below station, diverts water from creek a short distance above station at times in summer months.

AVERAGE DISCHARGE.--31 years, 13.4 ft^3/s, 9,710 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 60 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 22	unknown	*92	2.35
June 01	1700	86	2.25

Minimum daily, 2.4 ft^3/s Apr. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	10	7.3	5.5	4.4	3.3	2.8	5.8	81	39	25	15
2	17	10	7.2	5.5	4.1	3.3	3.0	5.9	76	37	23	14
3	15	9.9	7.1	5.5	4.2	3.3	2.8	5.9	74	35	21	13
4	14	9.8	6.8	5.3	4.1	3.3	2.4	5.9	68	34	20	13
5	14	9.8	6.6	5.2	4.0	3.1	3.0	6.0	65	32	20	13
6	14	9.5	6.7	5.2	3.9	2.9	3.1	6.1	66	31	19	12
7	14	9.6	6.8	5.3	4.0	3.1	3.0	6.2	61	30	17	12
8	14	8.3	6.7	5.2	3.9	3.2	3.1	7.0	55	30	18	12
9	14	9.3	6.7	5.2	4.4	3.3	3.2	8.9	50	30	21	12
10	14	10	6.6	5.3	4.0	3.2	3.9	12	47	30	21	12
11	14	8.8	6.6	4.9	4.0	3.3	3.4	15	43	30	22	13
12	14	8.7	6.6	4.8	3.9	3.2	3.9	20	41	29	22	16
13	12	8.7	6.5	4.9	3.9	3.2	3.4	26	41	34	20	13
14	12	6.0	6.3	4.8	4.0	3.3	3.9	32	44	31	22	12
15	12	9.3	6.1	4.7	3.1	3.2	4.0	35	48	29	20	12
16	12	9.6	5.5	4.5	3.1	3.3	4.9	33	45	27	21	11
17	12	9.3	5.9	4.1	4.0	3.3	5.8	28	46	26	19	11
18	12	8.3	5.9	3.4	3.9	3.3	6.8	28	49	25	18	11
19	12	6.7	5.8	3.5	4.3	3.0	6.4	31	47	24	19	11
20	11	6.3	5.7	3.5	4.2	3.6	5.7	49	48	23	20	11
21	11	6.6	4.5	3.8	4.3	3.5	5.3	72	47	25	18	18
22	11	6.1	5.2	4.1	4.2	3.1	5.6	78	46	31	17	13
23	11	5.1	5.5	4.5	4.1	2.7	6.0	61	45	31	18	12
24	11	4.4	5.6	4.4	4.1	3.0	6.3	48	43	27	18	12
25	11	5.0	5.5	4.3	3.9	3.3	6.1	49	43	27	21	12
26	10	5.7	5.6	4.3	3.7	3.6	6.0	46	42	27	19	11
27	10	6.5	5.6	4.2	3.7	2.8	6.5	41	41	27	18	11
28	10	7.2	5.6	4.3	3.6	2.8	6.4	42	40	26	17	11
29	10	7.6	5.6	4.3	3.4	3.3	6.4	48	39	31	16	11
30	10	7.5	5.5	4.3	---	2.8	6.2	49	41	29	16	11
31	11	---	5.4	4.5	---	2.9	---	61	---	26	15	---
TOTAL	388	239.6	189.0	143.3	114.4	98.5	139.3	961.7	1522	913	601	371
MEAN	12.5	7.99	6.10	4.62	3.94	3.18	4.64	31.0	50.7	29.5	19.4	12.4
MAX	19	10	7.3	5.5	4.4	3.6	6.8	78	81	39	25	18
MIN	10	4.4	4.5	3.4	3.1	2.7	2.4	5.8	39	23	15	11
ACFT	770	475	375	284	227	195	276	1910	3020	1810	1190	736

CAL YR 1983	TOTAL	7841.1	MEAN	21.5	MAX	126	MIN	2.4	ACFT	15550
WTR YR 1984	TOTAL	5680.8	MEAN	15.5	MAX	81	MIN	2.4	ACFT	11270

09278500 ROCK CREEK NEAR HANNA, UT

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

DRAINAGE AREA.--122 mi^2.

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

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

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

REMARKS.--Records good.

AVERAGE DISCHARGE.--30 years (1950-69, 1975-84), 154 ft^3/s, 111,600 acre-ft/yr.

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 23	2300	*1,690	7.00
May 30	2400	1,670	6.87

Minimum daily, 21 ft^3/s Mar. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	91	62	52	41	30	33	49	874	621	236	149
2	144	90	62	44	40	30	34	53	922	558	217	132
3	133	85	62	50	40	25	33	52	770	509	198	124
4	112	83	53	50	41	22	33	51	481	476	188	119
5	125	81	56	49	40	21	34	50	538	429	183	115
6	123	78	53	48	40	28	35	40	334	401	174	133
7	122	79	57	47	40	31	36	40	435	332	164	135
8	120	77	62	45	39	31	34	45	362	357	153	116
9	120	60	63	44	39	34	33	65	301	578	146	108
10	130	77	62	42	39	34	30	83	291	473	149	103
11	138	74	58	41	40	34	32	106	304	367	147	109
12	125	74	55	40	40	34	33	148	333	331	155	177
13	124	75	57	41	41	35	34	192	374	442	147	148
14	127	74	59	41	42	35	33	209	571	417	163	128
15	123	73	60	42	30	35	37	239	749	342	169	122
16	117	74	62	42	42	35	46	243	714	311	214	114
17	115	75	58	40	43	35	56	238	721	284	179	109
18	114	72	58	30	41	35	59	233	819	268	157	104
19	106	66	56	36	44	29	54	272	781	252	160	101
20	105	73	52	36	44	36	55	397	803	250	222	104
21	102	75	35	35	39	37	46	610	869	297	168	194
22	99	59	33	44	39	34	51	990	870	432	155	145
23	95	55	33	44	41	34	53	1210	835	404	157	126
24	96	58	37	43	38	35	55	1250	798	327	172	126
25	91	58	50	44	37	34	34	1080	779	304	210	118
26	90	57	55	44	38	32	37	861	788	288	198	117
27	88	61	55	43	37	32	34	1250	740	283	166	110
28	86	62	54	43	37	33	43	1180	701	257	154	102
29	84	58	49	42	32	32	43	1270	661	320	145	98
30	83	59	53	41	---	33	44	1440	692	287	137	97
31	89	---	53	41	---	32	---	944	---	261	139	---
TOTAL	3480	2133	1674	1324	1144	997	1214	14890	19210	11458	5322	3683
MEAN	112	71.1	54.0	42.7	39.4	32.2	40.5	480	640	370	172	123
MAX	154	91	63	52	44	37	59	1440	922	621	236	194
MIN	83	55	33	30	30	21	30	40	291	250	137	97
ACFT	6900	4230	3320	2630	2270	1980	2410	29530	38100	22730	10560	7310

CAL YR 1983	TOTAL	85593	MEAN	235	MAX	2080	MIN	33	ACFT	169800
WTR YR 1984	TOTAL	66529	MEAN	182	MAX	1440	MIN	21	ACFT	132000

09279000 ROCK CREEK NEAR MOUNTAIN HOME, UT

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

DRAINAGE AREA.--147 mi^2.

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

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

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

REMARKS.--Records good.

AVERAGE DISCHARGE.--47 years, 173 ft^3/s, 125,300 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 1,200 ft^3/s, 2210 ft^3/s June 1, gage height, 5.56 ft; minimum daily, 46 ft^3/s Feb. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	217	125	83	76	61	62	57	72	1560	699	273	174
2	200	122	86	72	60	62	58	72	1240	634	253	158
3	182	116	88	82	60	61	57	74	1180	592	230	148
4	167	113	88	83	60	59	57	76	958	563	216	134
5	169	111	73	80	59	57	56	78	866	518	212	131
6	167	107	86	80	59	60	57	79	731	477	200	145
7	163	106	80	80	60	59	58	79	660	456	186	163
8	160	107	90	78	57	58	60	82	600	467	170	138
9	160	85	93	78	59	58	58	103	544	633	166	132
10	167	105	93	71	58	59	56	156	513	561	168	120
11	183	102	94	69	58	58	57	213	474	443	191	124
12	166	101	90	66	59	58	53	274	454	402	182	193
13	163	106	76	67	58	59	55	370	497	477	170	177
14	165	105	82	68	63	60	56	474	633	501	176	152
15	165	102	86	60	46	58	60	566	793	419	182	143
16	156	105	82	61	61	58	70	556	760	381	234	140
17	152	103	73	63	63	57	83	553	748	343	208	130
18	150	99	74	58	61	58	96	574	837	316	182	123
19	142	92	81	62	56	58	104	626	813	300	185	121
20	142	101	66	67	57	60	92	767	821	296	239	122
21	137	97	63	67	58	61	87	951	877	344	194	217
22	133	84	73	68	57	61	84	1060	882	459	178	178
23	127	90	80	67	57	59	90	1180	857	462	176	158
24	126	87	87	67	57	61	90	1420	833	376	198	146
25	122	83	82	67	55	59	89	1290	814	354	221	142
26	118	77	86	65	56	58	80	1180	823	333	229	144
27	115	83	87	64	55	57	80	1240	788	326	191	135
28	113	85	80	65	57	56	81	1230	756	299	175	126
29	113	79	75	64	58	57	76	1320	713	348	163	122
30	110	79	84	62	---	56	74	1440	744	330	152	124
31	121	---	84	62	---	55	---	1610	---	301	153	---
TOTAL	4671	2957	2545	2139	1685	1819	2131	19765	23769	13410	6053	4360
MEAN	151	98.6	82.1	69.0	58.1	58.7	71.0	638	792	433	195	145
MAX	217	125	94	83	63	62	104	1610	1560	699	273	217
MIN	110	77	63	58	46	55	53	72	454	296	152	120
ACFT	9260	5870	5050	4240	3340	3610	4230	39200	47150	26600	12010	8650

CAL YR 1983	TOTAL	90716	MEAN	249	MAX	1940	MIN	50	ACFT	179900
WTR YR 1984	TOTAL	85304	MEAN	233	MAX	1610	MIN	46	ACFT	169200

09279100 ROCK CREEK NEAR TALMAGE, UT

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

DRAINAGE AREA.--238 mi^2.

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

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

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

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

AVERAGE DISCHARGE.--21 years, 185 ft^3/s, 134,000 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 1,200 ft^3/s, 1,490 ft^3/s May 24, gage height, 3.47 ft; minimum daily, 57 ft^3/s Feb. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	227	128	94	91	74	74	69	89	1350	693	273	169
2	204	124	95	87	72	77	68	87	1150	625	253	156
3	180	120	98	94	73	79	64	89	1080	579	231	147
4	164	117	94	97	73	76	68	89	911	549	216	135
5	163	115	101	96	73	75	70	89	813	506	213	129
6	164	111	98	95	72	74	70	88	750	470	218	134
7	161	109	93	94	74	74	69	83	664	450	184	170
8	160	114	100	93	72	73	73	87	594	445	163	141
9	159	92	103	90	73	72	72	103	526	613	157	135
10	164	107	103	85	72	74	66	149	494	571	156	128
11	182	106	103	82	72	73	69	213	466	448	177	128
12	166	103	99	80	72	73	60	271	439	412	170	170
13	162	112	92	80	71	74	67	361	462	443	162	175
14	164	110	93	78	70	76	62	467	576	534	162	160
15	162	100	98	81	57	77	71	603	764	424	168	150
16	157	111	95	78	69	78	82	639	750	387	223	151
17	153	114	91	75	74	75	98	636	721	348	204	142
18	153	111	92	70	73	73	115	639	825	326	171	132
19	144	99	98	61	71	68	131	673	805	308	177	133
20	143	114	88	62	71	73	114	819	808	300	224	131
21	139	116	74	70	72	76	101	1060	867	338	185	199
22	134	92	90	75	71	71	99	1100	879	452	169	198
23	129	79	100	80	70	68	109	1200	856	457	168	169
24	128	100	106	81	71	75	111	1420	832	362	189	156
25	124	93	94	80	69	73	110	1290	790	348	201	155
26	122	92	99	79	70	71	94	1120	816	327	224	154
27	118	98	100	78	70	64	101	1170	782	321	185	147
28	116	94	96	78	71	64	98	1130	744	295	169	137
29	115	91	92	78	72	69	91	1200	706	328	156	134
30	114	101	97	78	---	69	93	1320	727	328	147	134
31	123	---	97	77	---	64	---	1390	---	300	152	---
TOTAL	4694	3173	2973	2523	2064	2252	2565	19674	22947	13287	5847	4499
MEAN	151	106	95.9	81.4	71.2	72.6	85.5	635	765	429	189	150
MAX	227	128	106	97	74	79	131	1420	1350	693	273	199
MIN	114	79	74	61	57	64	60	83	439	295	147	128
ACFT	9310	6290	5900	5000	4090	4470	5090	39020	45520	26350	11600	8920

CAL YR 1983	TOTAL	89202	MEAN	244	MAX	1630	MIN	48	ACFT	176900
WTR YR 1984	TOTAL	86498	MEAN	236	MAX	1420	MIN	57	ACFT	171600

09279150 DUCHESNE RIVER ABOVE KNIGHT DIVERSION, NEAR DUCHESNE, UT

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

DRAINAGE AREA.--623 mi^2.

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

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

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

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

AVERAGE DISCHARGE.--14 years, 373 ft^3/s, 270,200 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,690 ft^3/s probably occurred May 24 or 25, gage height, 6.64 ft, peaks above base of 1,400 ft^3/s not determined; minimum daily, 153 ft^3/s Dec. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	510	349	273	236	198	180	197	270	3180	1360	566	396
2	481	345	277	212	203	183	198	267	2710	1240	528	393
3	429	337	271	205	192	177	190	272	2580	1170	488	366
4	408	326	274	248	200	171	197	275	2180	1100	455	343
5	397	319	223	250	178	172	200	267	1960	1020	442	336
6	394	315	224	244	175	168	202	266	1840	972	433	341
7	383	307	277	243	183	178	200	245	1670	924	369	377
8	381	314	295	229	180	182	207	239	1490	886	325	347
9	381	279	283	223	180	192	208	277	1340	1080	315	351
10	385	299	284	198	183	194	199	380	1250	1030	313	324
11	419	303	277	212	171	205	204	512	1200	872	359	314
12	404	302	273	216	175	202	200	650	1250	812	354	375
13	394	315	258	206	184	205	201	936	1160	854	337	362
14	401	316	267	213	186	225	191	1310	1370	963	336	333
15	408	284	272	212	160	214	207	1640	1780	799	363	316
16	396	304	228	196	173	220	237	1780	1730	733	459	324
17	389	314	247	180	190	202	285	1680	1660	657	424	308
18	387	300	220	170	177	204	336	1630	1820	617	394	287
19	381	271	205	160	180	198	378	1700	1800	580	425	278
20	375	308	192	170	180	220	346	1970	1790	569	506	281
21	365	313	153	180	180	222	305	2480	1880	625	444	403
22	361	265	180	190	182	202	292	2640	1880	798	397	401
23	355	228	187	220	180	198	315	2820	1800	802	428	357
24	350	246	184	220	180	211	327	3230	1740	654	412	337
25	346	301	184	220	183	210	339	2940	1660	647	451	341
26	340	277	204	220	180	205	301	2570	1660	622	466	340
27	335	241	242	215	180	192	304	2690	1560	613	417	331
28	333	249	228	210	180	187	294	2550	1460	575	386	321
29	328	256	195	209	180	201	274	2650	1390	628	363	319
30	325	245	232	189	---	202	276	2950	1420	623	357	313
31	341	---	276	190	---	191	---	3200	---	583	362	---
TOTAL	11882	8828	7385	6486	5273	6113	7610	47286	52210	25408	12674	10215
MEAN	383	294	238	209	182	197	254	1525	1740	820	409	341
MAX	510	349	295	250	203	225	378	3230	3180	1360	566	403
MIN	325	228	153	160	160	168	190	239	1160	569	313	278
ACFT	23570	17510	14650	12860	10460	12130	15090	93790	103600	50400	25140	20260

CAL YR 1983	TOTAL	207072	MEAN	567	MAX	3580	MIN	142	ACFT	410700
WTR YR 1984	TOTAL	201370	MEAN	550	MAX	3230	MIN	153	ACFT	399400

09280400 HOBBLE CREEK AT DANIELS SUMMIT, NEAR WALLSBURG, UT

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

DRAINAGE AREA.--2.89 mi^2.

PERIOD OF RECORD.--October 1963 to September 1984 (discontinued).

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

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

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

AVERAGE DISCHARGE.--21 years, 3.04 ft^3/s, 2,200 acre-ft/yr.

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 15	1900	64	2.86
May 23	1900	*76	3.03
May 31	1800	70	2.95

Minimum daily, 0.13 ft^3/s Sept. 8, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.67	.41	.41	.38	.33	.37	.61	3.1	51	2.7	.58	.22
2	.78	.39	.42	.39	.34	.39	.64	3.1	38	2.4	.54	.21
3	1.2	.37	.40	.40	.35	.38	.68	3.1	34	2.1	.43	.17
4	1.0	.36	.38	.38	.36	.37	.81	3.0	25	1.9	.43	.17
5	.77	.34	.37	.37	.34	.38	.74	3.2	26	1.9	.39	.15
6	.65	.32	.39	.38	.34	.41	.82	3.3	28	1.7	.37	.16
7	.53	.36	.42	.39	.35	.42	.81	3.3	27	1.5	.30	.14
8	.48	.39	.41	.39	.36	.42	.79	4.5	22	1.8	.26	.13
9	.47	.38	.39	.38	.35	.40	.94	7.2	18	1.9	.25	.15
10	.65	.35	.38	.38	.34	.41	.83	11	17	1.7	.24	.13
11	.60	.34	.37	.38	.34	.41	.83	17	15	1.5	.23	.21
12	.53	.36	.37	.37	.33	.43	.83	23	14	1.3	.30	.51
13	.50	.40	.38	.36	.33	.45	.87	29	16	1.6	.20	.35
14	.68	.43	.39	.39	.35	.46	1.2	35	17	1.6	.63	.26
15	.61	.41	.39	.39	.36	.47	1.5	47	17	1.2	.35	.23
16	.61	.38	.38	.37	.35	.48	2.6	49	16	1.0	.31	.26
17	.59	.36	.37	.37	.34	.48	3.7	41	14	1.0	.26	.21
18	.55	.37	.36	.37	.33	.48	4.8	40	13	.87	.24	.17
19	.53	.39	.36	.36	.33	.49	4.6	44	11	.78	.54	.17
20	.49	.39	.36	.33	.34	.50	3.4	52	9.5	.84	.76	.20
21	.48	.39	.36	.35	.35	.54	2.9	60	8.1	.83	.40	.65
22	.48	.38	.37	.37	.36	.52	3.1	56	6.7	.97	.32	.37
23	.43	.38	.38	.38	.37	.53	3.9	58	5.5	.88	.37	.28
24	.47	.39	.38	.38	.37	.57	5.8	63	4.7	1.3	.42	.34
25	.43	.41	.39	.36	.37	.58	5.8	52	4.1	1.2	.61	.31
26	.41	.39	.38	.34	.37	.64	4.6	50	3.9	1.0	.41	.31
27	.37	.38	.36	.34	.36	.62	4.0	48	3.5	.82	.34	.28
28	.35	.37	.37	.34	.35	.59	3.5	45	3.3	.76	.26	.25
29	.35	.38	.37	.33	.35	.64	3.4	47	2.9	.71	.26	.34
30	.38	.40	.38	.33	---	.58	3.2	51	2.9	.70	.25	.25
31	.46	---	.39	.33	---	.58	---	57	---	.70	.23	---
TOTAL	17.50	11.37	11.83	11.38	10.11	14.99	72.20	1008.8	474.1	41.16	11.48	7.58
MEAN	.56	.38	.38	.37	.35	.48	2.41	32.5	15.8	1.33	.37	.25
MAX	1.2	.43	.42	.40	.37	.64	5.8	63	51	2.7	.76	.65
MIN	.35	.32	.36	.33	.33	.37	.61	3.0	2.9	.70	.20	.13
ACFT	35	23	23	23	20	30	143	2000	940	82	23	15

CAL YR 1983	TOTAL	1980.64	MEAN	5.43	MAX	70	MIN	.24	ACFT	3930
WTR YR 1984	TOTAL	1692.50	MEAN	4.62	MAX	63	MIN	.13	ACFT	3360

09285000 STRAWBERRY RIVER NEAR SOLDIER SPRINGS, UT

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

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

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

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

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

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

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

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

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 272 ft^3/s Dec. 8; minimum daily, 19 ft^3/s several days during April and May.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	233	221	74	255	248	107	75	19	61	237	234	255
2	235	221	141	253	250	107	75	20	93	230	244	242
3	232	219	182	254	251	106	75	20	115	238	226	256
4	226	181	208	256	251	106	75	20	123	227	228	240
5	220	126	206	254	250	106	76	20	156	240	227	261
6	220	109	205	253	248	107	76	20	186	234	214	260
7	218	107	231	250	250	107	76	19	205	242	243	245
8	220	106	272	250	247	102	77	21	203	241	224	254
9	219	107	271	252	247	97	77	23	196	228	242	254
10	218	108	270	250	248	97	76	23	219	237	260	245
11	216	107	270	250	247	97	46	23	219	225	255	250
12	209	107	268	259	247	96	19	24	229	236	260	237
13	213	107	266	268	249	96	20	24	225	221	260	248
14	231	107	266	268	246	97	20	24	253	234	260	237
15	239	107	265	267	243	96	21	23	243	234	260	246
16	239	106	266	263	243	96	21	24	250	229	250	246
17	225	81	267	262	243	96	22	24	250	255	250	237
18	208	69	265	257	242	96	21	25	244	252	250	244
19	207	69	266	250	242	96	21	25	251	261	250	237
20	207	69	263	251	241	96	19	25	231	243	45	238
21	214	69	259	251	241	96	19	24	235	256	26	226
22	234	69	260	255	241	86	20	25	227	252	25	238
23	232	58	258	254	240	74	19	25	234	243	24	241
24	229	41	258	253	172	75	21	27	236	252	135	236
25	231	41	259	253	107	75	20	25	224	235	256	236
26	230	41	260	251	107	75	19	25	235	248	260	225
27	229	41	259	250	106	75	19	25	217	238	251	234
28	228	41	259	250	106	75	19	25	239	247	261	235
29	227	41	257	250	106	75	19	25	229	247	262	234
30	224	41	259	247	---	75	19	37	235	237	245	235
31	223	---	259	246	---	75	---	47	---	245	245	---
TOTAL	6936	2917	7569	7882	6359	2860	1182	756	6263	7444	6672	7272
MEAN	224	97.2	244	254	219	92.3	39.4	24.4	209	240	215	242
MAX	239	221	272	268	251	107	77	47	253	261	262	261
MIN	207	41	74	246	106	74	19	19	61	221	24	225
ACFT	13760	5790	15010	15630	12610	5670	2340	1500	12420	14770	13230	14420

CAL YR 1983	TOTAL	57721	MEAN	158	MAX	272	MIN	13	ACFT	114500
WTR YR 1984	TOTAL	64112	MEAN	175	MAX	272	MIN	19	ACFT	127200

09286700 CURRANT CREEK BELOW CURRANT CREEK DAM, NEAR FRUITLAND, UT

LOCATION.--Lat 40°19'51", long 111°02'56", in NE1/4SE1/4SE1/4 sec.6, T.2 S., R.10 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on left bank 700 ft below Currant Creek Dam, 1.0 mi above Red Ledge Hollow, and 14 mi northwest of Fruitland.

DRAINAGE AREA.--48.0 mi^2.

PERIOD OF RECORD.--October 1983 to September 1984.

GAGE.--Water-stage recorder. Altitude of gage is 7,550 ft from topographic map.

REMARKS.--Records good. Flow regulated by Currant Creek Reservoir, total capacity, 15,670 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 558 ft^3/s May 14, gage height, 5.58 ft; minimum daily, 7.7 ft^3/s Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	23	21	17	16	14	15	54	291	44	32	18
2	25	22	21	17	16	14	15	53	289	17	31	16
3	24	20	21	16	16	13	16	53	253	17	30	16
4	19	18	21	16	16	13	15	64	175	17	27	16
5	18	17	19	16	16	13	19	80	159	19	24	16
6	18	17	17	16	16	13	35	83	176	43	24	15
7	18	17	17	16	15	12	35	83	211	50	23	15
8	17	17	17	16	14	11	35	83	212	49	24	15
9	17	17	17	16	14	11	35	96	193	50	21	14
10	17	17	17	16	14	11	35	172	163	51	18	14
11	17	17	17	16	14	11	30	270	158	50	17	15
12	17	17	17	16	14	11	25	385	142	50	18	16
13	16	17	17	16	14	11	25	456	140	50	18	17
14	19	18	17	16	14	11	25	500	142	49	27	17
15	18	17	18	16	14	11	27	486	141	50	24	16
16	16	17	17	16	14	11	30	502	140	50	22	16
17	16	18	17	16	14	11	32	423	140	38	21	16
18	16	18	17	16	14	11	43	375	140	33	21	15
19	16	17	17	16	14	11	57	383	139	34	24	15
20	16	18	17	16	14	11	65	426	134	36	31	12
21	16	20	17	16	14	11	51	549	101	53	28	11
22	16	21	17	16	14	12	51	499	95	71	22	9.7
23	15	21	17	16	14	12	51	515	95	70	19	9.0
24	14	21	17	16	14	12	63	488	97	55	19	9.7
25	14	21	16	16	14	12	94	407	88	36	18	9.5
26	14	21	16	16	14	12	104	333	122	40	19	9.3
27	14	21	16	16	14	12	78	333	123	40	20	9.3
28	15	21	16	16	14	12	55	289	127	34	20	9.2
29	16	21	17	16	14	14	55	259	127	40	19	8.6
30	18	21	16	16	---	15	55	259	96	36	17	7.7
31	22	---	16	16	---	15	---	262	---	32	16	---
TOTAL	539	568	540	498	419	374	1271	9220	4609	1304	694	403.0
MEAN	17.4	18.9	17.4	16.1	14.4	12.1	42.4	297	154	42.1	22.4	13.4
MAX	25	23	21	17	16	15	104	549	291	71	32	18
MIN	14	17	16	16	14	11	15	53	88	17	16	7.7
ACFT	1070	1130	1070	988	831	742	2520	18290	9140	2590	1380	799

WTR YR 1984 TOTAL 20439.0 MEAN 55.8 MAX 549 MIN 7.7 ACFT 40540

09287500 WATER HOLLOW NEAR FRUITLAND, UT

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

DRAINAGE AREA.--13.8 mi^2.

PERIOD OF RECORD.--April 1946 to September 1984 (discontinued).

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

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

AVERAGE DISCHARGE.--25 years (1946-71), 5.71 ft^3/s, 4,140 acre-ft/yr prior to diversion to Water Hollow Tunnel. 12 years (1973-84), 3.03 ft^3/s, 2,200 acre-ft/yr since completion of Water Hollow Tunnel.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 60 ft^3/s May 24, gage height, 2.73 ft; minimum daily, 2.6 ft^3/s Sept. 26-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	7.8	7.2	6.2	5.9	5.8	6.1	9.6	38	26	17	12
2	9.9	7.6	7.4	6.7	5.8	5.6	5.6	9.5	37	25	16	12
3	10	7.5	7.4	6.2	5.8	5.3	5.6	9.5	39	24	15	12
4	9.6	7.5	7.4	6.2	5.9	6.8	5.7	9.3	37	23	15	11
5	9.6	7.3	7.4	6.1	5.8	9.8	5.9	9.3	36	23	14	11
6	9.5	7.3	7.2	6.2	5.8	9.0	6.0	9.4	36	22	14	11
7	9.3	7.6	7.0	6.3	5.8	8.0	5.9	9.4	39	21	14	11
8	9.3	7.6	6.8	6.3	5.8	6.6	6.0	9.6	35	21	13	11
9	9.2	7.5	6.9	6.3	5.9	5.6	6.0	10	32	22	12	11
10	9.2	7.2	6.9	6.0	5.9	5.6	6.1	11	30	23	12	12
11	8.8	7.2	6.8	6.6	5.8	5.9	6.0	13	29	22	11	11
12	8.9	7.1	6.8	6.3	5.8	5.8	5.8	15	29	21	12	12
13	8.9	7.3	6.7	6.2	5.6	5.9	5.8	19	28	21	12	12
14	9.3	7.0	6.7	6.2	5.6	6.2	6.0	26	28	22	12	11
15	8.7	7.0	6.7	5.8	5.6	5.9	6.6	32	26	21	12	11
16	8.7	7.5	6.5	5.7	5.6	5.9	7.4	33	28	21	13	12
17	8.7	7.5	6.5	6.0	5.7	6.0	7.7	38	29	20	13	10
18	8.5	7.4	6.5	5.4	5.8	6.1	8.4	40	28	19	13	3.0
19	8.4	8.1	6.5	5.6	6.0	6.2	9.2	40	28	19	13	2.8
20	8.4	7.7	6.5	5.4	6.0	6.3	8.9	43	29	19	14	3.1
21	8.4	7.2	6.4	5.3	6.0	6.3	9.2	46	28	20	14	3.6
22	8.4	7.0	6.4	5.4	6.1	5.9	9.3	50	27	25	13	3.0
23	8.3	7.2	6.4	5.5	5.8	5.9	9.8	52	26	26	13	2.7
24	8.3	7.6	6.4	5.6	5.8	6.1	10	57	25	25	13	2.8
25	8.1	7.6	6.4	5.6	6.0	6.0	9.3	53	26	22	13	2.7
26	8.1	7.7	6.2	5.4	5.9	6.1	9.0	49	26	19	13	2.6
27	8.1	7.2	6.2	5.6	5.8	6.0	9.3	46	26	19	13	2.6
28	8.0	7.0	6.1	6.0	5.8	5.9	9.3	43	26	19	13	2.6
29	7.9	7.0	6.5	5.9	5.8	5.8	9.3	40	25	18	12	2.6
30	7.7	7.0	6.2	5.9	---	6.0	9.2	39	26	18	12	2.7
31	8.8	---	6.4	5.9	---	5.8	---	38	---	18	11	---
TOTAL	274.0	221.2	207.4	183.8	168.9	194.1	224.4	908.6	902	664	407	229.8
MEAN	8.84	7.37	6.69	5.93	5.82	6.26	7.48	29.3	30.1	21.4	13.1	7.66
MAX	11	8.1	7.4	6.7	6.1	9.8	10	57	39	26	17	12
MIN	7.7	7.0	6.1	5.3	5.6	5.3	5.6	9.3	25	18	11	2.6
ACFT	543	439	411	365	335	385	445	1800	1790	1320	807	456

CAL YR 1983	TOTAL	4213.6	MEAN	11.5	MAX	41	MIN	3.9	ACFT	8360
WTR YR 1984	TOTAL	4585.2	MEAN	12.5	MAX	57	MIN	2.6	ACFT	9090

09288000 CURRANT CREEK NEAR FRUITLAND, UT

LOCATION.--Lat 40°12'01", long 110°54'25", in NE1/4SE1/4SW1/4 sec.21, T.3 S., R.9 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on left bank 150 ft downstream from Deep Creek, 150 ft upstream from bridge on U.S. Highway 40 and 3.5 mi southwest of Fruitland.

DRAINAGE AREA.--140 mi^2.

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

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

REMARKS.--Records good. Currant Creek feeder canal, constructed by the Bureau of Reclamation in 1936, diverts water from headwaters of Currant Creek to Strawberry Reservoir, from which it is diverted through Strawberry Tunnel to the Great Basin for irrigation in Strawberry Valley project. Since 1962, Deep Creek has been diverted intermittently into private fish ponds and enters Currant Creek 400 ft below gage. Flow partially regulated by Currant Creek Reservoir 15 miles upstream, beginning Oct. 4, 1982. Total capacity, 15,670 acre-ft.

AVERAGE DISCHARGE.--48 years (water years 1935-82), 46.0 ft^3/s, 33,330 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 729 ft^3/s May 21, gage height, 3.69 ft; minimum daily, 46 ft^3/s Sept. 30. Due to development of upstream regulation, peak discharge above base will not be determined.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	70	61	62	54	54	61	114	396	128	94	69
2	81	68	61	62	58	54	60	114	377	91	92	69
3	78	66	61	58	58	54	61	119	379	85	88	68
4	73	66	62	58	58	53	60	126	375	82	87	66
5	69	64	58	58	58	49	63	141	369	81	85	66
6	66	62	61	58	58	56	78	153	364	88	83	65
7	70	62	64	58	58	56	83	148	347	101	82	65
8	69	64	61	58	65	51	83	151	307	103	78	64
9	67	62	60	58	57	48	84	167	290	105	76	64
10	67	62	60	58	59	49	82	234	261	106	73	64
11	68	62	61	58	56	49	81	317	254	105	72	65
12	67	62	61	58	55	48	71	429	234	103	72	67
13	65	63	60	58	56	48	71	512	224	110	71	66
14	65	62	60	58	58	51	73	523	221	112	74	62
15	65	62	60	58	52	50	78	544	220	107	80	62
16	64	62	58	58	59	49	87	579	219	105	81	63
17	64	59	64	58	59	49	93	522	216	101	78	62
18	64	58	59	58	55	49	104	489	215	92	75	55
19	64	60	64	50	51	50	118	493	215	89	84	53
20	64	62	62	56	52	52	121	539	214	90	92	56
21	63	64	53	62	53	54	108	643	181	107	87	58
22	61	63	65	62	56	53	104	647	169	137	82	52
23	61	62	61	60	50	52	112	676	170	148	80	49
24	61	68	61	56	54	55	124	616	168	129	81	47
25	61	65	57	56	56	55	148	591	162	104	83	54
26	61	63	60	56	54	55	161	510	186	101	78	49
27	60	61	62	56	52	54	150	478	192	102	75	48
28	60	66	62	56	54	55	117	438	193	101	75	47
29	60	62	58	56	54	57	113	377	189	102	73	47
30	60	62	60	56	---	59	112	377	170	104	70	46
31	69	---	62	55	---	59	---	382	---	97	68	---
TOTAL	2054	1894	1879	1789	1619	1627	2861	12149	7477	3216	2469	1768
MEAN	66.3	63.1	60.6	57.7	55.8	52.5	95.4	392	249	104	79.6	58.9
MAX	87	70	65	62	65	59	161	676	396	148	94	69
MIN	60	58	53	50	50	48	60	114	162	81	68	46
ACFT	4070	3760	3730	3550	3210	3230	5670	24100	14830	6380	4900	3510

CAL YR 1983	TOTAL	40815	MEAN	112	MAX	801	MIN	31	ACFT	80960
WTR YR 1984	TOTAL	40802	MEAN	111	MAX	676	MIN	46	ACFT	80930

09288150 WEST FORK AVINTAQUIN CREEK NEAR FRUITLAND, UT

LOCATION.--Lat 39°59'35", long 110°48'51", in SE1/4NW1/4NW1/4 sec.5, T.6 S., R.8 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060004, 0.2 mi upstream from mouth, and 15.2 mi south of Fruitland.

DRAINAGE AREA.--56.1 mi^2.

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

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

GAGE.--Water-stage recorder. Altitude of gage is 6,790 ft from topographic map.

REMARKS.--Records good except those for winter period, which are fair. One small diversion above station, constructed in 1976 for irrigation, may divert small quantities of water intermittently during the summer months.

AVERAGE DISCHARGE.--20 years, 16.1 ft^3/s, 11,660 acre-ft/yr.

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 15	0700	*581	3.40
Aug. 05	1800	141	2.62

Minimum daily, 2.0 ft^3/s Nov. 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	3.7	2.5	3.1	3.8	3.5	23	48	88	25	17	5.7
2	9.8	3.6	2.7	3.0	3.9	3.6	23	48	82	24	16	5.5
3	8.4	3.6	2.7	3.0	4.2	3.5	21	49	76	23	15	5.4
4	7.4	3.7	2.6	3.3	4.5	3.0	24	50	72	23	14	5.3
5	7.0	3.7	2.6	3.6	4.2	3.2	30	52	67	23	19	5.1
6	6.3	3.6	2.7	3.5	4.1	3.4	38	56	71	20	13	5.0
7	6.0	3.6	2.8	3.2	4.8	3.7	43	57	65	19	12	5.0
8	5.7	3.7	2.9	3.2	5.0	4.0	36	62	61	19	11	5.0
9	5.6	2.3	3.0	3.4	4.9	4.6	29	71	57	18	10	4.9
10	5.4	2.8	3.0	3.3	5.0	4.6	26	89	56	18	10	5.2
11	5.2	2.8	3.1	3.4	4.8	4.7	26	128	54	16	9.8	5.3
12	5.0	3.0	3.2	3.4	4.7	4.9	24	228	53	15	12	5.9
13	5.0	3.4	3.2	3.3	4.9	5.2	27	346	51	15	10	5.7
14	5.3	3.3	3.4	3.2	4.6	4.8	28	451	48	15	9.8	5.4
15	5.2	2.6	3.5	3.2	4.2	5.8	29	514	47	17	11	4.9
16	4.9	2.7	3.4	3.1	3.9	6.3	37	454	46	17	10	4.4
17	4.8	3.0	3.3	3.0	4.4	6.2	37	347	45	17	9.1	4.5
18	4.7	3.4	3.3	3.0	4.5	6.3	41	273	43	15	8.8	4.1
19	4.6	2.4	3.2	2.9	4.4	6.6	50	272	41	15	8.2	3.8
20	4.4	2.6	3.1	3.1	4.2	8.1	52	256	39	16	8.1	3.8
21	3.8	2.7	3.1	3.3	4.0	9.4	49	282	36	17	7.8	4.4
22	3.7	2.4	3.1	3.5	3.8	9.2	47	263	35	23	7.4	3.8
23	3.8	2.0	3.2	3.4	3.6	9.2	48	246	35	20	7.1	3.7
24	3.7	2.0	3.4	3.2	3.4	11	52	246	33	22	6.6	3.5
25	3.4	2.2	3.6	3.2	3.8	11	56	240	32	20	6.4	3.3
26	3.5	2.3	3.7	3.3	3.0	14	56	201	31	20	5.8	3.7
27	3.4	2.3	3.5	3.3	3.0	16	54	169	30	19	6.0	4.1
28	3.6	2.2	3.3	3.2	3.0	16	53	138	29	18	5.9	4.1
29	3.6	2.3	3.2	3.3	3.3	17	50	115	28	22	5.6	3.9
30	3.6	2.3	3.1	3.4	---	19	50	98	26	22	5.5	3.8
31	3.7	---	3.3	3.5	---	22	---	93	---	20	5.7	---
TOTAL	163.5	86.2	96.7	100.8	119.9	249.8	1159	5942	1477	593	303.6	138.2
MEAN	5.27	2.87	3.12	3.25	4.13	8.06	38.6	192	49.2	19.1	9.79	4.61
MAX	13	3.7	3.7	3.6	5.0	22	56	514	88	25	19	5.9
MIN	3.4	2.0	2.5	2.9	3.0	3.0	21	48	26	15	5.5	3.3
ACFT	324	171	192	200	238	495	2300	11790	2930	1180	602	274

CAL YR 1983	TOTAL	11197.0	MEAN	30.7	MAX	368	MIN	1.5	ACFT	22210
WTR YR 1984	TOTAL	10429.7	MEAN	28.5	MAX	514	MIN	2.0	ACFT	20690

GREEN RIVER BASIN

09288180 STRAWBERRY RIVER NEAR DUCHESNE, UT

LOCATION.--Lat 40°09'17", long 110°33'15", in SE1/4SW1/4SW1/4 sec.3, T.4 S., R.6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060004, on right bank 150 ft downstream from County Road bridge, 2,000 ft upstream from maximum high-water line of Starvation Reservoir, and 7.9 mi west of Duchesne.

DRAINAGE AREA.--917 mi^2 (includes approximately 170 mi^2 tributary to Strawberry Reservoir).

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

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

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,090 ft^3/s May 31, 1983, gage height, 8.29 ft; maximum gage height, 10.16 ft Jan. 2, 1983, result of an ice jam; minimum recorded, 17 ft^3/s June 20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 1,730 ft^3/s May 16, gage height, 8.08 ft; minimum daily, 178 ft^3/s Nov. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	496	379	182	381	360	238	250	321	1010	588	485	385
2	468	371	247	376	360	234	250	320	994	517	474	377
3	402	367	283	370	360	236	250	321	975	494	451	378
4	391	361	324	370	360	229	250	337	899	474	449	371
5	378	301	353	360	360	230	260	361	826	475	449	375
6	372	267	374	360	360	230	280	383	881	467	444	373
7	369	259	338	360	360	240	290	391	1000	479	431	366
8	368	259	380	360	360	236	300	402	931	479	430	373
9	367	249	386	360	358	229	300	420	898	478	425	376
10	364	246	390	350	359	233	300	497	853	487	418	373
11	361	246	394	330	357	237	300	703	830	465	422	376
12	359	245	397	340	354	240	300	916	813	465	426	384
13	359	248	397	350	368	242	290	1160	774	464	427	391
14	363	250	397	360	372	255	270	1380	785	479	421	379
15	388	241	403	370	350	254	275	1560	758	463	504	321
16	388	236	389	380	354	248	280	1640	746	455	511	321
17	388	234	400	370	368	245	295	1640	746	456	429	402
18	371	211	391	370	358	240	310	1480	733	451	419	408
19	361	200	397	350	350	240	320	1400	741	443	415	375
20	359	204	401	350	350	247	330	1400	723	446	351	370
21	358	210	390	370	340	259	326	1520	694	508	256	370
22	371	198	380	370	340	255	313	1640	649	535	243	370
23	374	190	390	370	346	228	310	1600	642	563	236	370
24	371	190	400	370	320	227	318	1590	636	567	254	370
25	368	190	400	360	252	232	348	1590	615	519	385	370
26	368	178	400	357	237	225	371	1420	630	525	388	360
27	367	180	394	356	240	224	378	1290	632	514	382	360
28	362	204	386	356	240	225	359	1200	644	514	386	360
29	363	207	386	365	240	230	335	1080	629	509	381	360
30	368	179	386	362	---	240	326	1000	627	518	376	360
31	377	---	392	376	---	240	---	1000	---	515	377	---
TOTAL	11719	7300	11527	11229	9733	7368	9084	31962	23314	15312	12445	11124
MEAN	378	243	372	362	336	238	303	1031	777	494	401	371
MAX	496	379	403	381	372	259	378	1640	1010	588	511	408
MIN	358	178	182	330	237	224	250	320	615	443	236	321
ACFT	23240	14480	22860	22270	19310	14610	18020	63400	46240	30370	24680	22060

CAL YR 1983	TOTAL	161731	MEAN	443	MAX	2010	MIN	80	ACFT	320800
WTR YR 1984	TOTAL	162117	MEAN	443	MAX	1640	MIN	178	ACFT	321600

09288900 SOWERS CREEK NEAR DUCHESNE, UT

LOCATION.--Lat 39°59'22", long 110°27'33", in SW1/4SW1/4NW1/4 sec.4, T.6 S., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on left bank 0.5 mi upstream from Ashley National Forest boundary, 5.7 mi upstream from mouth of Tabby Canyon, and 12.4 mi south of Duchesne.

DRAINAGE AREA.--40.6 mi^2.

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

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

GAGE.--Water-stage recorder. Altitude of gage is 6,800 ft from topographic map.

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

AVERAGE DISCHARGE.--20 years, 4.22 ft^3/s, 3,060 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 451 ft^3/s Aug. 12, 1983, gage height, 7.45 ft, from rating curve extended above 42 ft^3/s on basis of slope-area measurement of 1974 peak flow; no flow for part of winter period 1964, 1965, Feb. 18-21, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 35 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 24	1600	75	3.53
Sep. 16	1800	*320	6.39

Minimum daily, 2.3 ft^3/s Dec. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	5.5	4.2	3.3	3.5	3.7	3.9	5.0	7.1	6.1	5.3	3.9
2	9.1	5.5	4.7	2.8	3.4	3.7	3.8	4.9	7.0	5.7	5.2	3.8
3	8.5	5.4	4.5	3.6	3.6	3.7	3.5	4.9	7.2	5.5	5.1	3.7
4	8.1	5.4	4.3	3.9	3.5	3.2	3.8	4.8	7.0	5.4	5.1	3.6
5	7.9	5.3	3.7	4.3	3.4	3.1	4.2	5.0	7.2	5.2	5.3	3.5
6	7.7	5.2	3.0	4.4	3.3	3.1	4.2	4.9	8.4	5.1	5.2	3.5
7	7.6	5.0	2.3	4.3	3.4	3.6	4.2	4.9	9.2	5.1	5.0	3.5
8	7.5	5.2	3.6	4.3	3.3	3.8	4.1	4.8	7.3	5.2	4.7	3.5
9	7.3	4.8	4.1	4.3	3.3	4.0	3.8	4.8	7.2	5.2	4.6	3.4
10	7.4	4.9	4.5	3.8	3.4	4.1	3.8	4.8	6.9	5.0	4.6	3.2
11	7.3	4.9	4.6	4.3	3.3	4.1	3.8	4.8	6.8	4.9	4.4	3.4
12	7.2	4.9	4.7	3.7	3.4	4.0	3.5	4.9	6.8	4.9	4.9	3.4
13	7.2	5.0	4.4	3.9	3.6	4.2	3.6	4.9	6.7	5.1	4.6	3.5
14	7.0	4.9	4.5	4.0	3.6	4.3	3.6	5.0	6.5	4.9	4.4	3.5
15	6.7	4.9	4.5	3.0	2.9	4.0	3.7	5.4	6.4	4.9	4.6	3.5
16	6.6	5.3	4.2	2.9	3.5	4.3	3.7	5.3	6.5	4.8	6.0	6.0
17	6.6	5.4	4.2	2.9	3.6	4.2	3.8	5.3	6.4	4.6	4.3	5.0
18	6.5	5.4	4.0	2.9	3.4	4.0	3.9	5.7	6.3	4.5	4.3	4.6
19	6.3	5.0	3.9	2.9	3.4	4.2	4.1	6.5	6.2	4.6	7.1	4.5
20	5.9	5.2	3.7	3.1	3.3	4.7	4.1	7.2	6.1	4.7	6.5	4.6
21	5.8	5.2	3.5	3.5	3.3	4.8	4.1	7.7	6.1	5.0	5.2	5.1
22	5.8	4.6	3.3	3.8	3.4	4.0	4.2	7.8	6.1	6.5	4.8	4.4
23	5.8	4.5	3.1	3.6	3.5	4.2	4.2	7.7	6.0	5.2	4.8	4.2
24	5.9	4.5	2.9	3.7	3.7	4.4	4.4	8.1	6.0	12	4.6	4.3
25	5.7	4.4	2.8	3.6	3.6	4.3	4.5	8.2	5.9	7.2	5.1	4.4
26	5.7	4.2	3.5	3.6	3.5	4.2	4.5	8.0	5.9	6.3	4.5	4.2
27	5.6	4.1	4.2	3.5	4.8	3.7	4.6	7.9	5.7	5.8	4.3	4.2
28	5.5	3.9	3.0	3.6	3.8	3.4	4.9	7.6	5.6	5.6	4.1	4.1
29	5.4	3.9	2.6	3.6	3.8	3.7	4.8	7.4	5.5	5.8	3.9	4.1
30	5.5	4.0	3.8	3.4	---	3.8	4.9	7.4	6.3	5.9	3.9	4.0
31	5.5	---	4.5	3.4	---	3.8	---	7.3	---	5.7	3.9	---
TOTAL	211.6	146.4	118.8	111.9	101.5	122.3	122.2	188.9	198.3	172.4	150.3	120.6
MEAN	6.83	4.88	3.83	3.61	3.50	3.95	4.07	6.09	6.61	5.56	4.85	4.02
MAX	11	5.5	4.7	4.4	4.8	4.8	4.9	8.2	9.2	12	7.1	6.0
MIN	5.4	3.9	2.3	2.8	2.9	3.1	3.5	4.8	5.5	4.5	3.9	3.2
ACFT	420	290	236	222	201	243	242	375	393	342	298	239

CAL YR 1983	TOTAL	4387.8	MEAN	12.0	MAX	59	MIN	1.7	ACFT	8700
WTR YR 1984	TOTAL	1765.2	MEAN	4.82	MAX	12	MIN	2.3	ACFT	3500

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

LOCATION.--Lat 40°36'24", long 110°31'35", in SW1/4SE1/4SE1/4 sec.35, T.3 N., R.6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 2,000 ft upstream from head of Moon Lake at maximum stage, 2 mi upstream from Brown Duck Creek, 16 mi northeast of Mountain Home.

DRAINAGE AREA.--77.9 mi^2.

PERIOD OF RECORD.--April 1933 to September 1934 (published as West Fork of Lake Fork above Moon Lake, near Mountain Home); July 1942 to September 1955, October 1963 to September 1965 (published as Lake Fork above Moon Lake, near Mountain Home); October 1965 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 8,180 ft from topographic map. April 1933 to September 1934, at site 2.5 mi upstream at different datum. July 13, 1942 to July 26, 1949, at datum 1.00 ft higher.

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

AVERAGE DISCHARGE.--34 years (water years 1943-55, 1964-84), 114 ft^3/s, 82,590 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 1,000 ft^3/s, 1,070 ft^3/s May 31, gage height, 3.48 ft; minimum daily, 23 ft^3/s Mar. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144	79	61	46	35	28	26	38	788	450	244	139
2	132	77	62	45	36	28	25	40	657	402	224	120
3	124	74	58	44	38	26	25	40	584	374	194	110
4	116	73	48	44	35	24	25	40	453	349	182	104
5	129	73	48	43	34	23	26	40	396	311	178	99
6	137	70	54	43	32	24	27	41	351	290	182	130
7	136	72	56	46	30	24	27	41	300	280	162	124
8	131	69	56	44	31	24	27	45	264	317	147	100
9	132	61	55	43	33	25	26	58	234	428	144	91
10	145	69	55	42	32	25	25	82	226	356	174	86
11	137	67	56	43	31	25	25	107	208	274	170	99
12	127	66	56	43	32	25	26	145	212	247	175	189
13	125	66	55	44	31	25	27	200	301	360	166	144
14	126	66	54	40	30	25	30	268	484	303	181	118
15	115	70	50	39	30	26	34	353	557	260	206	110
16	105	66	50	37	31	26	40	342	485	231	219	103
17	103	64	49	36	30	26	47	335	507	206	186	97
18	102	62	47	35	29	25	45	351	545	191	170	91
19	92	66	46	36	29	25	42	393	502	182	179	88
20	91	62	46	37	29	25	39	532	553	188	200	98
21	87	63	47	38	30	25	39	707	567	245	164	179
22	84	58	44	38	32	25	40	733	565	406	152	117
23	82	56	43	37	32	25	41	806	544	353	153	103
24	82	58	46	39	30	25	38	945	533	293	167	113
25	78	58	49	37	28	26	37	793	529	285	272	109
26	77	55	50	38	26	25	38	730	540	283	214	104
27	75	54	48	37	26	25	38	723	508	268	175	94
28	75	56	45	33	26	25	38	700	481	233	163	87
29	73	59	43	32	27	26	37	759	488	271	149	83
30	73	60	45	33	---	26	37	825	552	282	139	81
31	79	---	46	34	---	26	---	909	---	279	141	---
TOTAL	3314	1949	1568	1226	895	783	997	12121	13914	9197	5572	3310
MEAN	107	65.0	50.6	39.5	30.9	25.3	33.2	391	464	297	180	110
MAX	145	79	62	46	38	28	47	945	788	450	272	189
MIN	73	54	43	32	26	23	25	38	208	182	139	81
ACFT	6570	3870	3110	2430	1780	1550	1980	24040	27600	18240	11050	6570

CAL YR 1983	TOTAL	59744	MEAN	164	MAX	1380	MIN	21	ACFT	118500
WTR YR 1984	TOTAL	54846	MEAN	150	MAX	945	MIN	23	ACFT	108800

09290500 MOON LAKE RESERVOIR NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°33'43", long 110°29'21", in NW1/4NE1/4NE1/4 sec.19, T.2 N., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, at dam on Lake Fork River, 1.4 mi downstream from Brown Duck Creek, 10.5 mi upstream from Yellowstone River, and 12.5 mi northwest of Mountain Home.

DRAINAGE AREA.--108 mi^2.

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

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

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

REMARKS.--Reservoir formed by earthfill, rock-faced dam with concrete core. Storage began Dec. 9, 1937. Capacity, 35,760 acre-ft between elevations 8,072.00 ft, crest of original outlet of lake, about 2,000 ft upstream from dam, and 8,137.00 ft, top of spillway gates. Elevation of spillway crest is 8,121.00 ft and elevation of sill of outlet works is 8,064.16 ft. Dead storage between sill of outlet and crest of original outlet of lake, 2,050 acre-ft. Total dead storage, 13,740 acre-ft. Figures given herein represent usable contents. Water is used for irrigation on lands under Moon Lake Water Users Association and Uintah Indian Irrigation projects.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 37,560 acre-ft July 10, 11, 1950; elevation, 8,139.30 ft; minimum observed, 226 acre-ft Sept. 30, 1946.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 35,760 acre-ft May 30, July 1, elevation, 8,137.0 ft; minimum contents observed, 20,600 acre-ft Sept. 30, elevation, 8,115.6 ft.

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

8,115	20,220	8,120	23,470
8,116	20,850	8,130	30,490
8,117	21,500	8,135	34,230
8,118	22,150	8,136	34,990
8,119	22,810	8,137	35,760

RESERVOIR STORAGE (ACRE-FT), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25370	---	---	---	---	---	29900	30640	---	35760	34230	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	24140	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	28460	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	27600	---	---	---	---	---	---	---	---
8	---	---	24960	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	29470	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	29100	---	---	---	---	---	---	25100
19	---	---	---	---	---	---	30270	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	30640	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	a29250	---	---	---	---	---	---	---
30	---	a24780	---	---	---	---	a30640	35760	a35760	---	---	a20600
31	a24230	---	a26980	a28460	---	a29900	---	a35760	---	a34230	a31300	---
(#)	---	---	---	---	---	---	---	---	---	---	---	8115.6
(*)	-1420	+550	+2200	+1480	+790	+650	+740	+5120	0	-1530	-2930	-10700

CAL YR 1983 . . . . . (*) -1910
WTR YR 1984 . . . . . (*) -5050

(#) ELEVATION, IN FEET, AT END OF MONTH.
(*) CHANGE IN CONTENTS, IN ACRE-FEET.
(a) NO GAGE READING, CONTENTS INTERPOLATED.

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

LOCATION.--Lat 40°33'23", long 110°29'02", in SW1/4SW1/4NW1/4 sec.20, T.2 N., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 2,000 ft downstream from Moon Lake Dam, 2 mi downstream from Brown Duck Creek, and 12 mi northwest of Mountain Home.

DRAINAGE AREA.--112 mi^2.

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

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

GAGE.--Water-stage recorder. Altitude of gage is 7,970 ft by barometer. Prior to April 1942, at damsite 2,000 ft upstream at different datum.

REMARKS.--Records good except those for winter period, which are poor. Flow regulated by Moon Lake Reservoir (see station 09290500). No diversion above station.

AVERAGE DISCHARGE.--42 years (1942-1984), 128 ft^3/s, 92,740 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 2,180 ft^3/s June 19, 1949 (gage height, 4.83 ft), from rating curve extended above 860 ft^3/s; maximum gage height, 5.46 ft June 26, 1944; no flow at times when reservoir gates are closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,580 ft^3/s May 31, gage height, 4.60 ft; minimum daily, 2.3 ft^3/s, Nov. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	272	93	5.6	28	27	29	29	201	971	471	256	245
2	271	93	8.9	28	28	29	29	200	729	380	254	241
3	270	113	3.0	28	28	29	29	199	677	376	252	256
4	267	127	2.8	28	28	29	30	247	518	365	250	273
5	267	126	3.1	28	28	29	30	266	464	335	248	317
6	265	126	3.6	28	28	29	30	265	434	320	245	313
7	263	126	3.6	28	29	29	30	312	342	313	245	307
8	259	126	3.2	28	28	29	30	344	219	306	242	301
9	254	126	3.2	28	28	29	30	337	259	305	239	299
10	251	125	3.3	28	28	29	30	331	328	309	301	349
11	168	125	3.1	28	28	29	30	329	299	309	333	384
12	93	125	4.3	28	28	29	30	325	279	300	328	398
13	93	125	4.3	29	28	29	30	322	202	298	322	393
14	94	103	4.5	28	28	29	30	323	396	299	319	390
15	95	69	5.3	28	28	29	30	310	572	295	316	384
16	96	69	44	29	28	29	30	291	491	291	319	379
17	97	69	33	29	29	29	30	295	485	284	315	375
18	97	69	29	28	28	29	30	328	565	280	309	387
19	96	69	28	28	28	29	30	352	490	274	306	389
20	97	69	28	28	28	29	30	350	543	271	302	378
21	96	69	28	28	28	29	30	347	562	270	263	377
22	97	41	28	28	28	29	31	394	564	270	241	372
23	96	11	28	28	29	29	31	383	533	270	236	354
24	96	2.7	28	28	29	29	32	352	539	266	225	352
25	96	2.6	29	28	30	29	35	351	524	262	228	289
26	96	2.3	29	28	29	29	42	384	533	260	226	254
27	94	2.5	29	29	29	29	50	862	536	258	227	255
28	95	2.5	29	29	29	29	66	806	476	257	203	253
29	94	2.8	28	29	29	29	110	957	432	260	128	251
30	94	3.1	28	28	---	29	200	1080	580	259	141	252
31	94	---	28	27	---	29	---	1190	---	257	239	---
TOTAL	4713	2212.5	535.8	873	821	899	1224	13033	14542	9270	8058	9767
MEAN	152	73.7	17.3	28.2	28.3	29.0	40.8	420	485	299	260	326
MAX	272	127	44	29	30	29	200	1190	971	471	333	398
MIN	93	2.3	2.8	27	27	29	29	199	202	257	128	241
ACFT	9350	4390	1060	1730	1630	1780	2430	25850	28840	18390	15980	19370

CAL YR 1983	TOTAL	76727.3	MEAN	210	MAX	1620	MIN	2.3	ACFT 152200
WTR YR 1984	TOTAL	65948.3	MEAN	180	MAX	1190	MIN	2.3	ACFT 130800

NOTE.--No gage height record Mar. 20 to May 1.

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

LOCATION.--Lat 40°30'05", long 110°24'17", in NE1/4NE1/4NW1/4 sec.12, T.1 N., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank 4.5 mi north of Mountain Home, and 4.9 mi upstream from Yellowstone River, and 6.8 mi below Moon Lake Reservoir.

DRAINAGE AREA.--138 mi^2.

PERIOD OF RECORD.--October 1976 to September 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 7,375 ft from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Flow regulated by Moon Lake Reservoir (see station 09290500) and diversion into Twin Potts Reservoir (capacity, 4,133 acre-ft).

AVERAGE DISCHARGE.--8 years, 98.2 ft^3/s, 71,150 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,920 ft^3/s June 22, 1983, gage height, 6.07 ft (from rating curve extended above 1,200 ft^3/s); minimum daily, 3.1 ft^3/s Jan. 1, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,730 ft^3/s May 31, gage height, 5.36 ft; minimum daily, 16 ft^3/s, Dec. 9-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	281	28	24	30	30	34	30	123	1070	351	170	187
2	270	27	17	29	31	34	29	216	631	240	167	182
3	257	26	22	30	32	34	30	194	537	226	161	192
4	241	27	20	30	33	34	30	183	359	205	159	198
5	240	27	17	30	30	32	32	159	302	206	158	214
6	239	29	20	29	32	31	32	156	279	208	168	212
7	231	29	21	29	32	32	34	179	213	202	155	204
8	228	31	17	29	32	33	35	207	64	197	149	198
9	212	30	16	29	28	33	34	203	90	195	145	193
10	232	34	16	29	30	33	32	201	190	195	198	226
11	182	37	16	30	33	32	31	198	171	196	250	266
12	83	41	16	31	29	30	31	196	157	191	250	277
13	81	56	16	30	31	31	31	196	91	190	247	265
14	81	72	16	32	33	32	32	201	174	194	242	259
15	81	86	18	28	30	33	34	198	507	193	238	254
16	82	84	45	27	31	32	35	169	399	186	240	251
17	83	75	31	23	32	31	35	163	354	180	233	243
18	83	75	30	21	33	32	35	187	457	177	226	253
19	82	75	27	24	32	32	35	222	351	235	225	263
20	83	76	28	26	31	32	34	223	386	230	233	251
21	82	78	23	28	30	32	32	222	403	233	212	260
22	83	64	28	30	30	32	32	257	458	238	189	258
23	83	39	29	29	31	32	32	246	430	234	184	244
24	83	32	29	28	32	33	33	195	415	226	174	244
25	82	23	27	30	32	32	33	192	378	222	177	200
26	82	20	29	32	32	32	32	193	397	219	171	180
27	83	18	30	33	31	33	35	876	398	217	169	175
28	66	17	30	31	32	33	51	811	344	197	159	175
29	30	18	28	30	32	32	52	936	289	179	82	175
30	27	20	29	31	---	31	52	1160	439	181	76	170
31	28	---	30	30	---	29	---	1300	---	174	170	---
TOTAL	4081	1294	745	898	907	998	1035	10162	10733	6517	5777	6669
MEAN	132	43.1	24.0	29.0	31.3	32.2	34.5	328	358	210	186	222
MAX	281	86	45	33	33	34	52	1300	1070	351	250	277
MIN	27	17	16	21	28	29	29	123	64	174	76	170
ACFT	8090	2570	1480	1780	1800	1980	2050	20160	21290	12930	11460	13230

CAL YR 1983	TOTAL	62874	MEAN	172	MAX	1940	MIN	12	ACFT	124700
WTR YR 1984	TOTAL	49816	MEAN	136	MAX	1300	MIN	16	ACFT	98810

09292500 YELLOWSTONE RIVER NEAR ALTONAH, UT

LOCATION.--Lat 40°30'43", long 110°20'27", in SW1/4SW1/4NE1/4 sec.4, T.1 N., R.4 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank 1.5 mi downstream from powerplant of Moon Lake Electric Association, Inc., 2 mi downstream from Hell Canyon, 8.2 mi northwest of Altonah.

DRAINAGE AREA.--132 mi^2.

PERIOD OF RECORD.--October 1944 to current year. Prior to October 1965, published as Yellowstone Creek near Altonah.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,430 ft from river-profile map.

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

AVERAGE DISCHARGE.--40 years, 140 ft^3/s, 101,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,240 ft^3/s June 19, 1983, gage height, 4.24 ft; minimum daily, 25 ft^3/s Nov. 28, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 700 ft^3/s, 1,060 ft^3/s May 23, gage height, 2.89 ft; minimum daily, 53 ft^3/s Mar. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	236	138	105	82	64	56	58	64	709	391	274	220
2	217	136	100	82	66	56	58	63	558	346	264	203
3	201	130	110	79	67	58	56	65	495	323	231	195
4	189	129	101	78	71	56	56	65	403	304	211	189
5	195	129	86	77	74	55	58	64	385	284	201	183
6	202	123	79	74	66	54	59	65	368	270	220	189
7	206	126	85	73	64	54	59	62	335	262	209	193
8	202	126	97	77	67	54	61	65	310	272	186	178
9	200	108	97	80	56	55	60	77	279	338	175	170
10	202	119	95	75	61	55	58	98	273	303	172	164
11	200	118	95	73	64	55	56	122	264	256	177	171
12	188	114	92	73	56	55	54	151	254	245	180	205
13	187	117	98	75	62	55	58	185	278	269	193	188
14	187	115	96	76	61	56	56	235	379	281	195	173
15	177	114	91	75	56	56	62	326	441	267	217	171
16	173	113	90	72	58	56	71	331	394	235	252	165
17	170	112	83	70	60	55	78	328	371	211	240	159
18	170	109	78	64	61	54	88	342	401	200	231	148
19	160	107	82	64	57	53	87	386	383	192	214	142
20	160	109	78	64	56	54	75	533	401	193	240	146
21	156	110	85	64	58	55	71	728	403	246	205	188
22	152	106	80	69	60	55	69	744	409	327	193	159
23	150	107	75	71	56	56	73	827	401	333	190	150
24	149	96	75	71	58	56	74	899	400	271	210	153
25	144	99	79	71	63	58	74	781	393	275	335	150
26	140	103	83	75	58	57	67	706	412	286	300	153
27	135	96	87	68	56	56	68	698	400	264	260	145
28	132	92	85	72	56	56	66	638	382	250	235	139
29	131	93	79	65	54	57	62	678	376	290	218	133
30	129	100	75	62	---	56	64	723	445	308	207	132
31	137	---	78	60	---	56	---	756	---	335	220	---
TOTAL	5377	3394	2719	2231	1766	1720	1956	11805	11702	8627	6855	5054
MEAN	173	113	87.7	72.0	60.9	55.5	65.2	381	390	278	221	168
MAX	236	138	110	82	74	58	88	899	709	391	335	220
MIN	129	92	75	60	54	53	54	62	254	192	172	132
ACFT	10670	6730	5390	4430	3500	3410	3880	23420	23210	17110	13600	10020

CAL YR 1983	TOTAL	84027	MEAN	230	MAX	1800	MIN	52	ACFT	166700
WTR YR 1984	TOTAL	63206	MEAN	173	MAX	899	MIN	53	ACFT	125400

09295000 DUCHESNE RIVER AT MYTON, UT

LOCATION.--Lat 40°12'01", long 110°03'47", in NE1/4NW1/4NW1/4 sec.25, T.3 S., R.2 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank at Myton, 3 mi downstream from Lake Fork.

DRAINAGE AREA.--2,643 mi^2.

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

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

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

AVERAGE DISCHARGE.--76 years (1899-1902, 1911-1984), 518 ft^3/s, 375,300 acre-ft/yr.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 12,800 ft^3/s June 10, 1922, gage height, 7.94 ft site and datum then in use, from rating curve extended above 8,000 ft^3/s; maximum gage height, 8.35 ft June 22, 24, 1983; minimum, less than 1 ft^3/s July 16, 1931, and for several days in August and September 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,920 ft^3/s June 1, gage height, 6.94 ft; minimum daily, 168 ft^3/s Apr. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	745	1030	1020	1060	968	525	625	398	3780	1580	879	408
2	1030	1020	1040	1000	785	524	646	609	3330	1270	903	397
3	794	1010	1030	975	783	533	634	598	2800	1120	787	373
4	767	1000	1050	1010	779	517	606	589	2510	1010	717	356
5	1000	1010	969	1040	802	489	607	554	2060	935	673	333
6	1240	1010	964	1030	781	507	610	546	1970	849	719	309
7	1230	1010	1020	1030	765	523	603	557	2160	806	686	316
8	1230	1020	1070	1010	712	526	595	515	1980	768	528	313
9	1200	1000	1060	987	696	545	647	457	1830	845	456	310
10	1200	984	1060	977	761	553	292	475	1720	999	405	308
11	1240	1010	1070	959	727	581	234	414	1660	836	393	357
12	1140	922	1050	1000	699	602	182	438	1540	717	429	397
13	1110	922	1040	1050	703	610	175	618	1480	669	415	495
14	1120	956	1060	722	764	662	169	964	1540	850	349	440
15	1110	1090	1060	1020	734	691	168	1270	1900	761	372	407
16	1080	1080	1050	944	701	739	362	1720	2040	692	554	406
17	967	1110	1000	945	759	735	344	1900	1950	592	665	485
18	572	1150	990	953	743	667	346	1860	2100	498	517	453
19	559	1120	1020	908	700	674	334	1910	2120	465	472	436
20	1020	1150	1060	934	676	661	301	1740	2090	502	829	445
21	1080	1210	1030	967	718	674	289	2190	2150	594	738	552
22	1060	1200	1000	991	737	629	285	2660	2180	758	517	804
23	1060	1080	1060	995	757	419	285	2990	2080	1100	413	692
24	1070	1070	1040	1050	671	418	417	3280	1980	940	458	637
25	1070	1150	1040	1080	703	421	398	3400	1860	851	413	580
26	1060	1120	1040	1020	525	397	400	2980	1870	793	598	568
27	1060	1070	1080	976	521	390	417	3010	1810	766	561	546
28	1070	1060	1070	953	521	366	436	3210	1660	741	525	519
29	1040	1080	1020	955	537	357	482	3160	1510	744	492	612
30	1020	1010	1010	953	---	421	443	3350	1300	802	461	635
31	1010	---	1070	938	---	627	---	3470	---	865	421	---
TOTAL	31954	31654	32143	30432	20728	16983	12332	51832	60960	25718	17345	13889
MEAN	1031	1055	1037	982	715	548	411	1672	2032	830	560	463
MAX	1240	1210	1080	1080	968	739	647	3470	3780	1580	903	804
MIN	559	922	964	722	521	357	168	398	1300	465	349	308
ACFT	63380	62790	63760	60360	41110	33690	24460	102800	120900	51010	34400	27550

CAL YR 1983	TOTAL	456956	MEAN	1252	MAX	6520	MIN	296	ACFT	906400
WTR YR 1984	TOTAL	345970	MEAN	945	MAX	3780	MIN	168	ACFT	686200

09299500 WHITEROCKS RIVER NEAR WHITEROCKS, UT

LOCATION.--Lat 40°33'54", long 109°55'37", in SE1/4SE1/4SW1/4 sec.18, T.2 N., R.1 E., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, on left bank 0.8 mi upstream from heading of United States Whiterocks Canal, and 6.5 mi north of Whiterocks.

DRAINAGE AREA.--113 mi^2.

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

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

REMARKS.--Records good except those for winter period, which are fair. Flow slightly regulated by small mountain lakes. One small diversion 2 mi above station for irrigation of about 100 acres above and below station.

AVERAGE DISCHARGE.--77 years (water years 1900-03, 1909-10, 1913-84), 124 ft^3/s, 89,840 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,640 ft^3/s, June 22, 1983, gage height, 5.28 ft, from rating curve extended above 2,000 ft^3/s; minimum recorded, 9.2 ft^3/s Apr. 3, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 600 ft^3/s, 1,070 ft^3/s May 24, gage height, 4.41 ft; minimum daily, 23 ft^3/s Jan. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	226	87	58	31	26	34	35	49	522	213	207	227
2	223	90	51	32	25	33	36	46	445	196	279	209
3	187	84	48	43	26	33	36	46	420	194	215	205
4	158	80	48	41	28	34	36	47	384	190	195	197
5	154	77	41	39	30	38	39	46	382	188	178	192
6	153	73	39	39	32	42	40	48	373	184	180	184
7	150	72	42	35	30	42	40	47	351	183	181	181
8	153	77	49	32	31	38	42	48	333	180	186	171
9	140	63	44	34	32	33	43	63	322	176	194	167
10	139	74	45	35	35	33	37	109	282	174	179	163
11	128	70	46	33	40	33	34	262	281	172	176	161
12	114	66	44	28	45	33	39	328	255	171	172	178
13	107	67	43	29	42	33	41	411	235	167	180	168
14	115	69	44	29	45	34	39	522	264	164	238	159
15	106	66	43	25	47	33	45	658	287	163	248	153
16	100	66	42	25	38	35	56	635	293	161	292	150
17	96	65	42	26	43	33	68	604	291	158	266	147
18	88	63	42	28	40	35	82	572	269	155	308	142
19	82	59	46	25	37	37	81	584	258	148	266	141
20	79	60	41	23	35	37	66	629	267	156	292	140
21	73	59	38	25	38	38	57	673	272	158	280	164
22	70	58	36	28	41	37	56	646	257	180	259	152
23	68	50	40	30	39	38	56	785	240	219	273	140
24	67	45	39	32	34	39	59	899	228	169	320	145
25	77	47	38	33	32	39	58	750	213	193	296	142
26	89	49	37	34	33	37	49	656	201	184	292	129
27	85	61	60	31	36	39	48	619	200	177	262	132
28	82	67	41	30	35	38	47	580	197	208	258	116
29	80	58	42	27	34	35	46	582	195	193	242	107
30	77	49	56	26	---	34	45	578	200	190	231	102
31	83	---	41	26	---	34	---	544	---	242	228	---
TOTAL	3549	1971	1366	954	1029	1111	1456	13066	8717	5606	7373	4764
MEAN	114	65.7	44.1	30.8	35.5	35.8	48.5	421	291	181	238	159
MAX	226	90	60	43	47	42	82	899	522	242	320	227
MIN	67	45	36	23	25	33	34	46	195	148	172	102
ACFT	7040	3910	2710	1890	2040	2200	2890	25920	17290	11120	14620	9450

CAL YR 1983	TOTAL	74850	MEAN	205	MAX	2300	MIN	28	ACFT	148500
WTR YR 1984	TOTAL	50962	MEAN	139	MAX	899	MIN	23	ACFT	101100

09302000 DUCHESNE RIVER NEAR RANDLETT, UT

LOCATION.--Lat 40°12'56", long 109°46'58", in SW1/4SW1/4SW1/4 sec.16, T.3 S., R.2 E., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank 0.25 mi downstream from Uintah River, 1.2 mi southeast of Randlett, and 6.5 mi southeast of Fort Duchesne.

DRAINAGE AREA.--4,247 mi^2.

WATER-DISCHARGE RECORDS

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

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

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

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

AVERAGE DISCHARGE.--42 years, 599 ft^3/s, 434,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 11,500 ft^3/s June 20, 1983; maximum gage height, 9.03 ft Feb. 13, 1962 (backwater from ice); minimum, 2.2 ft^3/s Aug. 12, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,020 ft^3/s May 24, gage height, 6.89 ft; minimum daily, 465 ft^3/s Apr. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1170	1510	1430	1270	1160	700	1090	506	4730	1730	1230	623
2	1880	1480	1440	1250	1070	700	1130	688	4240	1550	1260	639
3	1620	1440	1450	1240	1070	700	1130	660	3170	1360	1130	619
4	1410	1410	1450	1260	1080	660	1060	653	3030	1170	1030	582
5	1430	1390	1440	1270	1080	593	1040	653	2470	1120	965	547
6	1800	1340	1400	1280	1070	625	1020	660	2360	1080	985	505
7	1780	1320	1360	1290	1050	640	1020	653	2860	1050	1000	478
8	1810	1340	1520	1280	965	670	979	632	2690	1020	783	475
9	1790	1330	1560	1270	960	770	995	576	2380	1010	671	475
10	1800	1250	1500	1270	990	840	734	562	2190	1180	569	471
11	1810	1290	1520	1270	1010	940	605	527	2070	1090	507	492
12	1720	1220	1520	1230	965	1000	513	590	1870	940	524	651
13	1610	1180	1440	1180	970	1150	506	779	1720	849	542	760
14	1620	1250	1440	1050	995	1300	499	1140	1680	957	490	737
15	1620	1380	1470	1200	1000	1450	482	1650	1910	1040	478	689
16	1540	1390	1430	1250	970	1570	550	2310	2200	918	649	691
17	1510	1420	1390	1230	980	1600	631	2360	2110	822	886	778
18	1030	1510	1330	1230	990	1500	650	2300	2180	683	771	778
19	967	1460	1320	1240	950	1450	638	2330	2350	634	707	717
20	1260	1490	1050	1240	935	1450	605	2390	2270	612	1030	698
21	1480	1660	1120	1240	955	1480	555	3530	2330	704	1170	874
22	1470	1730	1160	1240	980	1200	505	4460	2330	801	903	1160
23	1480	1520	1170	1260	990	1010	480	4890	2220	1320	757	1050
24	1480	1410	1200	1270	960	982	465	5710	2080	1260	856	1020
25	1470	1660	1220	1280	910	998	530	5900	1990	1070	851	1070
26	1470	1730	1250	1280	800	943	530	4490	1970	965	1120	1030
27	1490	1580	1270	1290	700	922	550	3850	1950	952	1140	978
28	1520	1570	1280	1280	700	887	570	3990	1820	955	950	893
29	1490	1550	1240	1250	700	838	540	3740	1690	1030	812	933
30	1460	1490	1270	1230	---	866	513	3960	1440	1150	718	964
31	1430	---	1290	1200	---	1070	---	4170	---	1220	662	---
TOTAL	47417	43300	41930	38620	27955	31504	21115	71309	70300	32242	26146	22377
MEAN	1530	1443	1353	1246	964	1016	704	2300	2343	1040	843	746
MAX	1880	1730	1560	1290	1160	1600	1130	5900	4730	1730	1260	1160
MIN	967	1180	1050	1050	700	593	465	506	1440	612	478	471
ACFT	94050	85890	83170	76600	55450	62490	41880	141400	139400	63950	51860	44380

CAL YR 1983	TOTAL	661604	MEAN	1813	MAX	11500	MIN	477	ACFT	1312000
WTR YR 1984	TOTAL	474215	MEAN	1296	MAX	5900	MIN	465	ACFT	940600

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1950 to September 1951, November 1956 to current year.
SPECIFIC CONDUCTANCE: December 1950 to September 1951, November 1956 to September 1980, June 1981 to current year, once daily.
WATER TEMPERATURES: December 1950 to September 1951, November 1956 to September 1978, October 1979 to September 1980, June 1981 to current year, once daily.
SEDIMENT DATA: October 1976 to current year, periodically.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 4,490 micromhos Aug. 24, 1960; minimum observed, 225 micromhos June 22, 1983.
WATER TEMPERATURES: Maximum, 29.0°C July 22, 1982; minimum, 0.0°C on many days during winter period each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,430 micromhos Mar. 17; minimum daily, 275 micromhos May 25.
WATER TEMPERATURES: Maximum daily, 25.0°C July 20, 27; minimum daily, 0.0°C many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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 19...	1315	990	730	8.1	13.5	10.5	10.5	649	250	5.0
NOV 23...	1300	1560	700	8.2	-6.0	2.0	12.8	643	270	5.4
DEC 14...	1000	1360	710	8.4	-6.5	0.5	12.0	645	280	5.7
JAN 20...	1500	800	1170	8.2	-18.0	0.0	11.5	655	430	8.6
FEB 13...	1445	800	1110	8.2	3.0	0.0	13.6	645	290	5.9
MAR 16...	1400	1450	1310	8.0	7.5	3.0	10.8	647	420	8.3
APR 18...	1330	750	1000	8.1	25.0	15.5	9.0	640	330	6.7
MAY 17...	1345	2300	430	7.9	27.0	13.0	9.4	648	160	3.2
JUN 22...	1115	2120	445	8.0	25.0	17.0	8.4	650	170	3.4
JUL 20...	1000	639	930	8.0	29.5	21.0	7.7	650	320	6.4
AUG 14...	1030	477	980	8.2	26.0	21.5	7.8	650	330	6.5
SEP 24...	1200	1020	810	8.2	10.0	14.0	8.6	644	300	5.9

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 19...	52	29	58	33	1.6	1.7	170	190	20	0.3
NOV 23...	55	32	56	31	1.5	1.9	190	160	22	0.3
DEC 14...	59	33	56	30	1.5	1.5	210	160	21	0.4
JAN 20...	88	51	99	33	2.1	2.2	260	300	57	0.5
FEB 13...	60	35	63	32	1.6	1.9	220	190	27	0.4
MAR 16...	79	53	120	38	2.6	4.6	240	380	57	0.4
APR 18...	66	41	86	36	2.1	2.0	230	240	42	0.4
MAY 17...	37	16	29	28	1.0	1.6	120	85	11	0.2
JUN 22...	40	17	29	27	1.0	1.5	130	81	10	0.2
JUL 20...	68	36	80	35	2.0	2.8	200	230	29	0.4
AUG 14...	68	38	86	36	2.1	3.1	220	240	31	0.4
SEP 24...	61	35	65	32	1.7	2.4	210	200	23	0.4

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
OCT 19...	8.2	482	460	0.66	1290	<0.1	0.04	0.05	<0.01	0.03
NOV 23...	9.1	471	453	0.64	1980	<0.1	0.09	0.12	0.03	0.09
DEC 14...	9.4	467	467	0.64	1710	0.1	0.01	0.01	0.01	0.03
JAN 20...	15	803	766	1.1	1730	0.31	0.08	0.1	0.01	0.03
FEB 13...	10	518	520	0.7	1120	0.2	0.41	0.53	0.01	0.03
MAR 16...	12	885	853	1.2	3460	0.25	0.18	0.23	0.03	0.09
APR 18...	9.8	593	624	0.81	1200	<0.1	0.03	0.04	0.03	0.09
MAY 17...	7.0	266	260	0.36	1650	0.16	0.06	0.08	0.02	0.06
JUN 22...	6.6	270	266	0.37	1550	<0.1	0.03	0.04	0.01	0.03
JUL 20...	8.8	588	577	0.8	1010	<0.1	0.03	0.04	0.01	0.03
AUG 14...	10	633	609	0.86	815	0.17	0.04	0.05	0.03	0.09
SEP 24...	11	536	526	0.73	1480	<0.1	0.04	0.05	<0.01	0.03

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT 19...	1315	360
NOV 23...	1300	280
DEC 14...	1000	310
JAN 20...	1500	210
FEB 13...	1445	290
MAR 16...	1400	450
APR 18...	1330	390
MAY 17...	1345	140
JUN 22...	1115	170
JUL 20...	1000	430
AUG 14...	1030	470
SEP 24...	1200	360

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	960	680	750	690	830	910	1060	1150	---	600	830	---
2	780	---	---	---	---	1000	1060	1010	460	600	840	---
3	830	670	750	740	---	810	1000	930	410	630	840	910
4	760	670	760	750	870	900	1010	940	510	650	820	960
5	---	680	730	730	820	880	930	970	600	---	840	---
6	680	680	---	740	820	780	880	960	600	750	---	1060
7	---	680	750	710	880	700	890	990	720	760	890	1090
8	---	680	720	---	---	860	900	1140	700	780	930	1070
9	640	680	720	710	830	760	---	1000	680	760	1000	1090
10	630	680	720	700	870	---	810	---	670	740	1000	1090
11	610	690	720	720	820	650	710	1040	680	750	1020	1100
12	610	---	---	720	830	890	1120	1070	690	740	---	---
13	620	750	---	730	890	960	1120	1020	680	810	1010	960
14	630	780	720	740	810	1100	---	760	680	790	1040	960
15	620	690	730	720	820	---	1060	570	620	800	---	960
16	620	680	720	730	---	1400	1050	450	---	---	990	960
17	640	670	730	770	870	1430	910	450	560	---	980	960
18	700	670	710	780	870	1310	910	460	520	860	980	---
19	730	670	720	---	890	1250	840	460	540	890	970	960
20	640	670	710	1170	980	1150	890	410	530	910	930	970
21	640	680	700	---	930	1100	1040	390	530	920	870	940
22	650	720	740	1100	980	---	1030	310	445	930	---	930
23	---	710	730	---	830	1100	950	---	480	820	980	900
24	---	710	720	---	940	1110	1060	310	510	830	920	880
25	650	690	---	---	870	1020	1020	275	630	---	910	880
26	650	690	690	---	930	1070	1060	330	---	730	830	900
27	650	720	690	---	890	1040	990	---	520	860	780	900
28	660	720	680	810	930	---	1120	345	660	---	860	900
29	670	---	730	800	880	1030	1080	---	580	940	870	880
30	670	---	770	810	---	1010	1040	330	610	860	900	900
31	670	---	760	830	---	1050	---	330	---	860	---	---
MEAN	680	690	730	---	880	1010	980	680	590	790	920	960

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

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

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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					
19...	1315	990	10.5	396	1060
NOV					
23...	1300	1560	2.0	70	295
DEC					
14...	1000	1360	0.5	69	253
JAN					
20...	1500	800	0.0	217	469
FEB					
13...	1445	800	0.0	77	166
MAR					
16...	1400	1450	3.0	1490	5830
APR					
18...	1330	750	15.5	191	387
MAY					
17...	1345	2300	13.0	841	5220
JUN					
22...	1115	2120	17.0	355	2030
JUL					
20...	1000	639	21.0	130	224
AUG					
14...	1030	477	21.5	198	255
SEP					
24...	1200	1020	14.0	193	532

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 40°00'50", long 109°04'48", in NW1/4NE1/4NE1/4 sec.27, T.9 S., R.25 E., Uintah County, Hydrologic Unit 14050007, on right bank 900 ft upstream from small right bank tributary, 2.7 mi downstream from Colorado-Utah State line, and 7.5 mi upstream from Evacuation Creek.

DRAINAGE AREA.--3,680 mi^2, approximately.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 5,030 ft from topographic map.

REMARKS.--Records good except those for winter months, which are fair. Diversions for irrigation of about 31,900 acres above station.

AVERAGE DISCHARGE.--8 years, 784 ft^3/s, 568,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,620 ft^3/s June 8, 1984, gage height, 8.88 ft; minimum, 10 ft^3/s July 2, 3, 4, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,620 ft^3/s June 8, gage height, 8.88 ft; minimum daily, 270 ft^3/s Jan. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	565	592	587	370	410	380	865	1070	4720	3340	1400	795
2	707	594	565	370	430	420	932	1120	5210	3250	1410	859
3	866	594	542	370	450	450	767	1380	5460	3040	1350	880
4	830	593	537	330	470	470	714	1350	4810	2900	1220	814
5	764	575	520	310	470	470	785	1250	4790	2700	1200	795
6	729	568	460	300	470	460	908	1290	4860	2500	1170	727
7	707	564	430	320	490	410	942	1290	5340	2300	1270	768
8	670	601	430	330	520	420	905	1260	6150	2100	1170	693
9	665	661	556	310	520	460	950	1260	6050	2200	1150	729
10	670	639	600	290	520	500	1050	1420	4800	2200	1070	734
11	670	586	620	280	520	550	958	1790	4140	2050	1040	871
12	680	579	610	310	520	600	1090	2300	4110	1950	1020	1100
13	670	580	600	350	510	600	854	3060	4080	1900	1010	837
14	690	579	550	350	490	640	788	3640	4050	1850	967	801
15	806	583	520	330	480	700	739	4050	4250	1800	918	760
16	764	550	566	320	450	760	773	4810	4540	1700	900	774
17	696	546	541	290	460	850	870	5210	4880	1600	1120	794
18	669	563	537	280	440	920	1020	5270	4790	1530	1090	814
19	661	560	440	270	430	990	1340	5060	4460	1450	1380	790
20	671	562	410	290	420	1050	1480	4500	4240	1390	1520	763
21	648	560	390	340	330	1200	1430	4540	4210	1320	1520	782
22	637	575	360	380	340	1700	1140	4870	4290	1310	1260	973
23	629	532	340	420	350	1400	1000	4990	4260	1290	1090	824
24	624	561	370	460	376	1000	994	5160	4110	1340	1100	805
25	616	511	400	470	380	980	1190	5410	3960	1420	1050	800
26	612	550	420	470	370	920	1550	5840	3860	1520	1030	808
27	608	630	450	470	370	949	1490	5810	3520	1490	960	812
28	603	569	420	470	370	863	1320	5350	3390	1450	911	797
29	594	569	380	470	370	877	1190	4910	3360	1340	873	778
30	595	604	350	460	---	917	1140	4590	3280	1330	841	770
31	593	---	370	430	---	890	---	4570	---	1370	812	---
TOTAL	20909	17330	14871	11210	12726	23796	31174	108420	133970	58930	34822	24247
MEAN	674	578	480	362	439	768	1039	3497	4466	1901	1123	808
MAX	866	661	620	470	520	1700	1550	5840	6150	3340	1520	1100
MIN	565	511	340	270	330	380	714	1070	3280	1290	812	693
ACFT	41470	34370	29500	22240	25240	47200	61830	215100	265700	116900	69070	48090

CAL YR 1983	TOTAL	418949	MEAN	1148	MAX	5560	MIN	230	ACFT	831000
WTR YR 1984	TOTAL	492405	MEAN	1345	MAX	6150	MIN	270	ACFT	976700

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

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1976 to current year.
WATER TEMPERATURES: October 1976 to current year.
SUSPENDED-SEDIMENT DISCHARGE: October 1976 to current year.

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

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

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded (more than 20 percent missing record), 1,570 micromhos July 22, 1977; minimum recorded, 120 micromhos April 29, 1981.
WATER TEMPERATURES: Maximum recorded (more than 20 percent missing record), 31.0°C Aug. 9, 1978; minimum, 0.0°C on many days during winter period.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 61,000 mg/L Sept. 8, 1978; minimum daily mean, 40 mg/L Sept. 21, 1983.
SEDIMENT LOADS: Maximum daily, 412,000 tons Sept. 8, 1978; minimum daily, 1.0 ton July 2, 3, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 1,230 micromhos Sept. 6; minimum recorded, 229 micromhos, June 16.
WATER TEMPERATURES: Maximum recorded, 24.5°C July 21; minimum, 0.0°C several days during winter period.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 20,400 mg/L Sept. 12; minimum daily mean, 180 mg/L Sept. 10.
SEDIMENT LOADS: Maximum daily, 141,000 tons June 8; minimum daily, 292 tons Jan. 19.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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 31...	1430	615	700	8.3	16.0	9.0	9.8	637	270
DEC 12...	1300	612	770	8.3	5.0	0.5	11.8	630	290
FEB 02...	1400	421	790	8.1	-10.5	0.0	8.6	637	310
MAR 13...	1310	586	830	7.9	6.0	0.5	9.8	640	260
APR 12...	1700	1100	1090	7.5	13.0	7.5	9.4	630	390
JUN 25...	1300	3900	455	8.2	28.0	17.0	7.9	--	150

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 31...	5.4	62	28	51	29	1.4	1.6	190	180
DEC 12...	5.8	66	30	56	30	1.5	1.6	200	200
FEB 02...	6.1	73	30	59	29	1.5	1.7	220	200
MAR 13...	5.2	59	28	69	36	1.9	2.2	200	200
APR 12...	7.9	90	41	94	34	2.1	2.9	240	330
JUN 25...	2.9	29	18	28	29	1.0	1.3	130	82

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
OCT 31...	14	0.3	12	465	0.63	773	0.15	<0.01	0.03
DEC 12...	14	0.3	13	502	0.68	829	0.21	<0.01	0.03
FEB 02...	17	0.3	15	529	0.72	601	0.41	<0.01	0.03
MAR 13...	21	0.3	13	511	0.69	808	0.48	0.04	0.12
APR 12...	26	0.4	12	743	1.0	2210	0.69	0.03	0.09
JUN 25...	6.7	<0.1	9.4	251	0.34	2640	0.16	<0.01	0.03

DATE	TIME	BORON, DISSOLVED (UG/L AS B)
OCT 31...	1430	60
DEC 12...	1300	60
FEB 02...	1400	60
MAR 13...	1310	60
APR 12...	1700	110
JUN 25...	1300	30

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	770	740	756	705	665	681	670	640	655			
2	1080	741	833	685	665	675	678	648	667			
3	1190	812	917	695	665	676	676	656	664			
4	813	733	771	673	643	659	673	663	669			
5	814	754	778	670	640	654	681	671	678			
6	785	735	760	668	638	656	699	679	693			
7	746	696	724	686	646	666	716	696	712			
8	717	696	707	743	663	681	734	724	730			
9	727	697	714	851	691	729	752	742	747			
10	718	698	711	739	669	695	760	750	757			
11	809	689	715	716	677	696	767	757	763			
12	770	690	722	724	694	706	775	765	769			
13	721	691	709	732	702	713	775	765	771			
14	712	682	698	740	710	726	775	765	775			
15	823	693	734	727	707	720	785	765	775			
16	794	704	747	725	705	718	775	765	773			
17	765	735	745	743	713	727	775	765	773			
18	735	715	730	760	730	744	775	765	775			
19	735	705	718	738	728	733	785	775	778			
20	715	685	704	746	726	731	785	775	779			
21	695	675	684	743	713	729	785	775	776			
22	695	675	687	741	721	729	---	---	---			
23	705	675	692	749	709	728	---	---	---			
24	715	685	696	746	726	736	---	---	---			
25	695	675	685	754	624	703	---	---	---			
26	695	675	683	662	632	643	---	---	---			
27	685	665	679	650	620	644	---	---	---			
28	685	665	674	647	627	634	---	---	---			
29	685	665	678	645	625	634	---	---	---			
30	675	645	658	663	633	646	---	---	---			
31	685	635	662	---	---	---	---	---	---			

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	840	820	830	1070	1050	1060	1100	1070	1090
2	790	780	789	842	832	833	1070	1060	1060	1100	1080	1090
3	802	792	795	833	823	831	1070	1050	1060	1110	1090	1100
4	803	783	793	835	825	830	1080	1050	1070	1100	1080	1090
5	795	775	785	837	827	835	1100	1060	1080	1080	1070	1070
6	797	787	788	849	839	840	1090	1070	1080	1060	1050	1060
7	789	779	783	851	841	843	1090	1080	1080	1060	1040	1050
8	791	781	781	852	842	845	1080	1060	1070	1040	1020	1030
9	792	782	783	854	844	845	1070	1060	1060	1010	987	1000
10	784	774	777	856	846	849	1080	1050	1070	985	965	972
11	786	766	774	858	848	850	1080	1060	1070	932	882	909
12	788	768	778	860	850	851	1090	1060	1080	1010	810	866
13	790	770	778	861	851	854	1100	1070	1090	977	857	900
14	781	771	773	863	853	855	1110	1090	1100	855	775	836
15	783	773	779	865	855	861	1130	1110	1120	782	712	759
16	785	765	778	877	857	870	1130	1100	1120	750	690	718
17	777	---	753	878	868	877	1140	1110	1120	697	647	679
18	779	769	776	890	880	888	1120	1100	1110	655	625	643
19	790	780	788	902	892	897	1100	1040	1070	637	587	616
20	802	792	795	914	904	909	1030	975	1000	660	480	634
21	804	794	798	926	916	921	972	952	960	652	592	610
22	816	796	804	937	917	932	980	950	960	614	474	571
23	827	807	815	949	939	940	997	967	978	586	476	550
24	829	819	822	961	941	948	1010	985	997	569	539	555
25	821	811	820	963	953	961	1010	1000	1000	551	511	528
26	823	813	822	965	955	964	1020	1000	1010	543	503	516
27	835	825	825	976	956	964	1010	997	1000	535	---	512
28	826	816	823	998	968	984	1020	995	1000	518	468	488
29	828	818	827	1020	990	1000	1050	1010	1030	510	480	491
30	---	---	---	1040	1000	1020	1080	1040	1060	496	466	483
31	---	---	---	1060	1040	1050	---	---	---	482	432	447

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	478	418	437	454	414	438	700	680	688	901	861	881
2	485	445	462	491	431	454	687	677	685	983	943	966
3	471	301	386	478	418	456	685	665	673	1010	934	954
4	417	357	391	465	355	445	662	652	660	1110	966	1010
5	463	293	372	483	443	464	660	650	652	1200	1120	1150
6	---	369	463	500	460	476	647	627	637	1230	979	1120
7	845	425	601	497	467	480	635	625	632	1060	700	828
8	801	521	617	525	484	508	642	622	632	733	683	708
9	678	538	625	582	512	530	660	640	652	686	666	672
10	654	524	634	739	489	609	672	652	660	678	659	670
11	660	590	610	726	536	590	664	634	647	---	---	---
12	616	386	554	544	464	507	645	625	634	---	---	---
13	561	291	489	571	511	532	637	627	633	---	---	---
14	587	327	533	628	518	558	639	629	637	---	---	---
15	563	353	508	645	535	575	641	631	639	---	---	---
16	488	229	428	673	523	565	653	633	643	---	---	---
17	454	394	429	610	560	575	684	645	669	---	---	---
18	470	370	446	674	604	627	686	666	679	---	---	---
19	536	426	464	749	679	717	858	688	797	---	---	---
20	---	451	572	813	743	771	880	820	843	---	---	---
21	507	447	475	907	817	867	872	852	866	---	---	---
22	473	413	434	971	761	850	864	814	839	---	---	---
23	469	428	443	856	676	758	815	785	803	---	---	---
24	---	414	477	780	730	744	817	767	783	---	---	---
25	510	440	475	787	757	775	789	769	779	---	---	---
26	497	437	470	775	725	748	791	771	781	734	694	712
27	545	475	498	742	682	718	803	783	793	747	677	694
28	542	472	506	700	680	686	804	794	799	690	670	679
29	509	479	496	687	667	678	806	786	796	693	673	681
30	496	446	461	685	665	675	798	788	795	696	666	681
31	---	---	---	692	662	675	800	790	797	---	---	---

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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

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

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.5	13.5	14.0	15.0	13.0	14.0	22.5	22.0	22.0	21.5	18.5	20.0
2	15.0	13.0	14.0	16.5	13.5	15.0	22.5	21.0	21.5	21.0	18.0	19.5
3	14.0	13.0	13.5	17.5	15.0	16.0	22.5	21.5	22.0	20.0	17.0	18.5
4	14.0	12.5	13.0	17.5	15.0	16.5	22.5	21.5	22.0	20.0	16.5	18.5
5	13.0	12.5	12.5	18.0	15.5	16.5	22.5	21.5	21.5	20.5	17.0	18.5
6	12.0	10.0	11.0	18.5	16.0	17.0	22.0	20.5	21.0	19.5	17.5	18.5
7	11.5	9.5	10.0	18.0	17.0	17.5	22.0	21.0	21.5	18.5	16.0	17.5
8	11.0	7.5	9.5	18.5	17.0	18.0	22.5	21.0	22.0	18.5	14.0	16.5
9	9.5	6.0	7.0	19.5	18.0	18.5	22.5	21.5	22.0	19.0	15.5	17.5
10	10.0	5.5	8.0	20.0	17.5	18.5	23.0	21.5	22.0	19.5	16.5	18.0
11	13.0	9.5	11.0	20.0	18.0	19.0	23.0	22.0	22.5	19.0	17.0	17.5
12	12.5	9.0	10.0	20.5	18.5	19.5	22.5	21.5	22.0	18.0	15.5	17.0
13	11.5	9.5	10.5	20.0	18.5	19.0	23.0	22.0	22.5	19.5	16.0	18.0
14	12.5	10.5	11.5	21.0	18.0	19.5	23.0	22.0	22.5	19.5	17.0	18.5
15	14.5	11.5	12.5	22.5	20.0	21.0	23.0	22.0	22.5	20.0	17.0	18.5
16	14.0	13.0	13.5	23.0	20.0	21.5	22.5	22.0	22.5	20.0	17.5	19.0
17	13.5	11.5	12.5	22.5	20.0	21.5	23.0	22.0	22.5	19.5	17.0	18.5
18	14.0	12.0	13.0	23.0	20.0	21.5	23.0	22.5	22.5	19.5	16.0	18.0
19	11.0	9.5	10.5	23.5	20.5	22.0	22.5	21.0	21.5	19.0	16.5	18.0
20	11.5	10.0	11.0	23.5	21.0	22.0	21.5	20.0	21.0	18.5	16.5	17.5
21	13.0	10.5	11.5	24.5	21.5	22.5	20.5	19.0	20.0	18.5	16.0	17.5
22	13.0	10.5	11.5	23.0	21.5	22.5	21.5	16.0	20.5	17.0	14.0	15.5
23	13.5	11.0	12.0	22.5	20.5	21.5	21.0	20.5	21.0	17.0	14.5	15.5
24	13.5	11.0	12.0	22.5	21.0	21.5	21.0	20.0	20.5	15.5	12.5	14.0
25	13.0	12.0	12.5	22.5	21.0	22.0	20.5	20.5	20.5	13.0	10.0	12.0
26	13.0	11.5	12.0	22.5	21.5	22.0	21.0	20.0	20.5	12.5	9.5	11.0
27	14.5	11.5	13.0	22.5	20.5	21.5	21.0	20.0	20.5	13.5	10.0	12.0
28	15.5	13.0	14.0	23.5	21.0	22.0	21.5	20.5	21.0	12.5	9.5	11.0
29	15.5	13.5	14.5	23.5	17.5	22.5	21.5	21.0	21.0	12.0	9.0	10.5
30	15.5	14.5	15.0	23.0	22.5	23.0	21.5	21.0	21.5	12.5	9.5	11.0
31	---	---	---	23.0	21.5	22.5	21.5	20.0	21.0	---	---	---

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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	209	319	236	377	365	578	400	400	485	537	1100	1130
2	458	874	240	385	342	522	400	400	482	560	1220	1380
3	537	1260	212	340	335	490	400	400	488	593	1290	1570
4	479	1070	225	360	343	497	380	339	503	638	1310	1660
5	420	866	235	365	362	508	370	310	490	622	1340	1700
6	402	791	228	350	358	445	368	298	524	665	1370	1700
7	397	758	213	324	345	401	371	321	495	655	1410	1560
8	397	718	238	386	330	383	375	334	499	701	1450	1640
9	386	693	268	478	326	489	377	316	478	671	1500	1860
10	384	695	272	469	335	543	390	305	508	713	1500	2030
11	381	689	241	381	348	583	399	302	486	682	1500	2230
12	383	703	231	361	349	575	394	330	498	699	1540	2490
13	373	675	235	368	360	583	388	367	480	661	1530	2480
14	369	687	235	367	360	535	385	364	483	639	1620	2800
15	448	975	228	359	342	480	408	364	513	665	2450	4630
16	414	854	223	331	343	524	407	352	496	603	2950	6050
17	405	761	230	339	315	460	400	313	473	587	3460	7940
18	401	724	243	369	342	496	420	318	478	568	3320	8250
19	388	692	248	375	388	461	400	292	519	603	3410	9110
20	376	681	230	349	341	377	410	321	501	568	3440	9750
21	352	616	234	354	351	370	425	390	499	445	3700	12000
22	349	600	236	366	333	324	435	446	512	470	3970	18200
23	342	581	277	398	334	307	440	499	534	505	4220	16000
24	332	559	366	554	426	426	450	559	566	575	4050	10900
25	312	519	365	504	430	464	460	584	578	593	4010	10600
26	305	504	381	566	440	499	455	577	665	664	3750	9310
27	295	484	413	703	450	547	450	571	835	834	3260	8350
28	282	459	381	585	440	499	465	590	935	934	3020	7040
29	269	431	362	556	430	441	470	596	975	974	3020	7150
30	260	418	368	600	400	378	480	596	---	---	2940	7280
31	242	387	---	---	400	400	480	557	---	---	3030	7280
TOTAL	---	21043	---	12619	---	11357	---	10528	---	18624	---	186070

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

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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	3120	7290	2960	8550	6040	77000	1720	15500	2310	8730	445	955
2	3180	8000	2970	8980	7150	101000	1700	14900	2340	8910	675	1570
3	2980	6170	3850	14300	6760	99700	1560	12800	3290	12000	670	1590
4	2930	5650	3570	13000	5350	69500	1500	11700	1160	3820	440	967
5	3080	6530	3370	11400	4930	63800	1320	9620	770	2490	375	805
6	3180	7800	3250	11300	5210	68400	1220	8230	790	2500	355	697
7	3180	8090	3140	10900	6580	94900	1190	7390	2090	7170	975	2020
8	3130	7650	3180	10800	8510	141000	1240	7030	1960	6190	710	1330
9	3240	8310	3720	12700	7400	121000	1420	8430	665	2060	330	650
10	3480	9870	4670	17900	5360	69500	3280	19500	520	1500	180	357
11	3450	8920	6400	30900	4820	53900	2740	15200	460	1290	7340	17300
12	3730	11000	7200	44700	4540	50400	1460	7690	420	1160	20400	60600
13	2420	5580	7370	60900	4490	49500	1130	5800	365	995	4880	11000
14	1950	4150	7990	78500	4250	46500	1020	5090	360	940	1620	3500
15	1820	3630	8520	93200	4420	50700	1170	5690	330	818	680	1400
16	1970	4110	8870	115000	4020	49300	1360	6240	6240	15200	2500	5220
17	2370	5570	9140	129000	3860	50900	925	4000	11100	33600	4070	8730
18	2880	7930	9210	131000	3370	43600	980	4050	6960	20500	1330	2920
19	3580	13000	7550	103000	2820	34000	825	3230	17400	64800	585	1250
20	4070	16300	6100	74100	2740	31400	1070	4020	20200	82900	430	886
21	3930	15200	5730	70200	2500	28400	820	2920	19400	79600	1020	2150
22	3490	10700	6030	79300	2570	29800	1980	7000	9600	32700	19900	52300
23	2920	7880	6380	86000	2340	26900	2020	7040	3840	11300	5460	12100
24	2790	7490	6980	97200	2300	25500	6710	24300	6120	18200	1220	2650
25	3300	10600	7280	106000	2330	24900	8670	33200	2520	7140	930	2010
26	4080	17100	7470	118000	2420	25200	4200	17200	580	1610	560	1220
27	4040	16300	6980	109000	2030	19300	1330	5350	590	1530	510	1120
28	3580	12800	5790	83600	1960	17900	1690	6620	585	1440	455	979
29	3220	10300	5440	72100	2140	19400	1240	4490	580	1370	320	672
30	3050	9390	5110	63300	1940	17200	2880	10300	595	1350	260	541
31	---	---	5640	69600	---	---	5480	20300	530	1160	---	---
TOTAL	---	273310	---	1934430	---	1600500	---	314830	---	434973	---	199489

TOTAL LOAD FOR YEAR: 5017773 TONS

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM
DEC 12...	1500	612	0.5	334	552	--	--
APR 12...	1700	1180	7.5	3800	12100	35	45
JUN 11...	1800	3950	12.5	4500	48000	15	20
SEP 07...	1500	716	17.5	566	1090	13	17

DATE	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .125 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .250 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .500 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN 1.00 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN 2.00 MM
DEC 12...	--	63	76	99	100	--	--
APR 12...	62	87	93	100	--	--	--
JUN 11...	37	63	74	86	96	99	100
SEP 07...	38	72	84	99	100	--	--

09306800 BITTER CREEK NEAR BONANZA, UT

LOCATION.--Lat 39°45'12", long 109°21'15", in SE1/4SW1/4SW1/4 sec.21, T.12 S., R.23 E., Uintah County, Hydrologic Unit 14050007, on left bank 150 ft upstream from road culvert, 3 mi downstream from Sweetwater Canyon Creek, 17 mi upstream from mouth, and 18 mi south-southwest of Bonanza.

DRAINAGE AREA.--324 mi^2.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,570 ft from topographic map.

REMARKS.--Records fair. Small reservoirs on tributaries above station.

AVERAGE DISCHARGE.--14 years, 3.21 ft^3/s, 2,330 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,790 ft^3/s Sept. 5, 1982, gage height, 13.82 ft from floodmarks; rating curve extended above 6 ft^3/s on basis of slope-area measurement of peak flow; no flow for many days most years.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 18	2215	32	7.07
June 07	1800	43	7.66
July 30	1815	*122	10.81
Aug. 22	2245	35	7.87

Minimum daily, 6.0 ft^3/s Dec. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	12	8.6	8.0	7.6	7.3	16	20	30	20	14	12
2	17	11	8.1	8.6	7.6	7.3	16	20	29	20	14	12
3	16	11	8.0	8.4	7.9	7.4	16	20	28	19	14	12
4	13	11	8.3	8.3	7.7	7.4	16	20	27	19	13	12
5	13	11	7.5	8.2	7.6	7.5	17	20	28	19	13	12
6	12	10	7.3	8.1	7.5	7.5	17	20	31	18	13	11
7	12	10	7.6	8.0	7.4	7.6	18	20	39	18	12	11
8	12	11	7.7	7.8	7.4	8.1	18	19	36	18	12	11
9	12	12	7.4	7.8	7.4	8.8	18	19	33	19	12	11
10	11	10	8.2	7.7	7.4	10	18	19	29	19	11	11
11	11	10	8.4	8.0	7.7	12	19	19	27	18	11	12
12	11	10	8.3	8.2	7.4	13	19	19	25	17	11	13
13	12	10	8.2	8.2	7.4	12	18	19	25	17	12	13
14	13	10	8.4	7.8	7.4	14	17	19	24	18	12	12
15	13	9.8	8.0	7.3	7.3	14	17	19	24	17	11	12
16	12	9.2	7.8	7.0	7.3	16	17	22	23	18	12	13
17	12	9.6	7.6	6.9	7.6	17	18	24	24	16	14	13
18	12	10	7.4	6.7	7.5	15	18	30	23	16	12	12
19	12	10	8.4	6.5	7.3	15	19	32	23	16	12	13
20	12	9.7	8.0	6.4	7.1	15	21	32	23	15	21	13
21	12	10	7.6	6.3	7.0	15	20	31	22	15	21	15
22	12	9.9	6.3	6.3	7.1	17	19	32	21	15	18	14
23	12	9.6	7.2	6.3	7.0	16	18	31	21	17	16	13
24	11	9.2	6.8	6.2	7.2	15	18	32	21	17	17	13
25	11	7.6	6.6	6.5	7.3	15	19	31	21	16	14	13
26	11	8.7	6.4	7.0	7.3	15	20	31	21	15	13	13
27	11	10	7.0	7.8	7.3	15	21	30	21	15	13	13
28	11	9.7	6.3	7.9	7.3	15	21	29	20	15	13	13
29	11	9.2	6.0	7.7	7.3	15	21	29	20	15	12	13
30	11	8.8	6.2	7.7	---	16	20	28	19	26	12	13
31	11	---	6.8	7.7	---	16	---	28	---	16	12	---
TOTAL	375	300.0	232.4	231.3	214.3	391.9	550	764	758	539	417	374
MEAN	12.1	10.0	7.50	7.46	7.39	12.6	18.3	24.6	25.3	17.4	13.5	12.5
MAX	17	12	8.6	8.6	7.9	17	21	32	39	26	21	15
MIN	11	7.6	6.0	6.2	7.0	7.3	16	19	19	15	11	11
ACFT	744	595	461	459	425	777	1090	1520	1500	1070	827	742

CAL YR 1983	TOTAL	4577.05	MEAN	12.5	MAX	84	MIN	.98	ACFT	9080
WTR YR 1984	TOTAL	5146.9	MEAN	14.1	MAX	39	MIN	6.0	ACFT	10210

GREEN RIVER BASIN

09306878 COYOTE WASH NEAR MOUTH, NEAR OURAY, UT

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1977 to May 1983 (discontinued). Prior to 1979 water year, published in "Hydrologic and Climatologic Data" reports for Utah.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: October 1976 to September 1978, October 1979 to September 1983, daily (discontinued). March 1979 to August 1979, periodically.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT LOADS: Maximum daily, 107,900 tons Feb. 20, 1980; no flow many days.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily, 48,100 mg/L Mar. 5; no flow many days.
SEDIMENT LOADS: Maximum daily, 38,400 tons Mar. 5; no flow many days.

REVISIONS.--Sediment data for 1983 was inadvertently left out of 1983 report, therefore is included in the 1984 report.

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	19600	402					---	---	36000	19700
2	---	---	---	---					---	---	28600	10400
3	---	---	---	---					---	---	11600	1500
4	---	---	---	---					---	---	12800	518
5	1890	8.7	---	---					---	---	48100	38400
6	26400	1920	---	---					---	---	15200	2300
7	7680	41	---	---					---	---	4830	235
8	4900	.66	---	---					---	---	3710	120
9	---	---	---	---					---	---	3360	36
10	---	---	---	---					---	---	3080	25
11	---	---	20700	2240					---	---	2800	15
12	---	---	12600	646					---	---	2240	6.0
13	---	---	6320	85					---	---	1610	2.2
14	---	---	3640	9.8					---	---	30500	18100
15	---	---	---	---					---	---	23600	4840
16	---	---	---	---					---	---	11100	330
17	---	---	---	---					---	---	6560	71
18	---	---	---	---					---	---	1390	7.5
19	---	---	---	---					---	---	---	---
20	---	---	---	---					---	---	---	---
21	---	---	---	---					---	---	---	---
22	---	---	---	---					---	---	---	---
23	---	---	---	---					4060	24	---	---
24	---	---	---	---					6960	207	11200	88
25	---	---	---	---					14800	839	14800	308
26	---	---	---	---					23800	2250	7920	51
27	---	---	---	---					34700	7680	4830	8.3
28	---	---	---	---					36000	13100	3990	1.5
29	---	---	---	---					---	---	3500	.57
30	---	---	---	---					---	---	---	---
31	2940	54	---	---					---	---	---	---
TOTAL	---	2024.36	---	3382.8					---	24100	---	97063.07

GREEN RIVER BASIN

09306878 COYOTE WASH NEAR MOUTH, NEAR OURAY, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	20300	2800	---	---	---	---	---	---		
2	---	---	39000	9480	---	---	---	---	---	---		
3	21300	1610	14100	156	---	---	---	---	---	---		
4	12900	383	8000	9.3	---	---	---	---	---	---		
5	4410	21	4830	.52	---	---	---	---	---	---		
6	---	---	---	---	---	---	---	---	---	---		
7	---	---	---	---	---	---	7200	389	---	---		
8	---	---	---	---	---	---	8080	16	---	---		
9	---	---	---	---	---	---	---	---	---	---		
10	---	---	---	---	---	---	---	---	---	---		
11	---	---	---	---	---	---	---	---	2140	69		
12	---	---	---	---	---	---	---	---	37500	5770		
13	---	---	---	---	---	---	---	---	46100	2120		
14	---	---	---	---	---	---	---	---	9040	49		
15	---	---	---	---	---	---	---	---	18900	1120		
16	---	---	13500	1490	---	---	---	---	29200	473		
17	---	---	27500	3710	---	---	---	---	17000	138		
18	---	---	11600	75	---	---	---	---	4270	5.8		
19	---	---	4270	5.8	---	---	---	---	24000	616		
20	---	---	---	---	---	---	11700	948	7040	19		
21	---	---	---	---	---	---	20600	478	---	---		
22	---	---	---	---	---	---	7040	9.5	---	---		
23	---	---	---	---	---	---	15300	454	---	---		
24	---	---	---	---	---	---	13500	18	---	---		
25	---	---	---	---	---	---	14800	27	---	---		
26	---	---	---	---	4620	175	24500	926	---	---		
27	---	---	---	---	14800	400	18000	486	---	---		
28	---	---	---	---	3080	1.1	12800	124	---	---		
29	---	---	---	---	---	---	---	---	---	---		
30	3080	22	---	---	---	---	---	---	---	---		
31	---	---	---	---	---	---	---	---	---	---		
TOTAL	---	2036	---	17726.62	---	576.1	---	3875.5	---	10379.8		

TOTAL LOAD FOR YEAR: 161164.25 TONS.

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM
MAR									
02...	1530	48	7.5	12700	1650	54	60	76	90
MAY									
02...	1430	39	16.0	32700	3440	60	72	90	98

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT

LOCATION.--Lat 40°03'54", long 109°38'06", in SE1/4SE1/4NW1/4 sec.2, T.9 S., R.20 E., Uintah County, Hydrologic Unit 14050007, Uintah and Ouray Indian Reservation, on left bank 2.8 mi southeast of Ouray and 3.9 mi upstream from mouth.

DRAINAGE AREA.--5,120 mi2, approximately.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 4,655 ft from topographic map.

REMARKS.--Records fair. Diversions for irrigation of about 33,200 acres above station.

AVERAGE DISCHARGE.--10 years, 780 ft^3/s, 565,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,660 ft^3/s June 10, 1984, gage height, 10.23 ft; minimum, 1.6 ft^3/s July 18, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,660 ft^3/s June 10, gage height, 10.23 ft; minimum daily, 280 ft^3/s Jan. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	540	637	540	370	420	500	918	1410	4910	2850	1500	873
2	805	646	580	370	440	500	911	1390	5040	2950	1580	853
3	777	642	620	370	480	500	900	1480	5190	2760	1500	954
4	859	637	620	330	520	460	786	1660	5180	2600	1370	955
5	874	633	540	310	540	460	784	1610	5080	2430	1260	873
6	810	620	440	300	520	480	886	1600	4990	2280	1250	840
7	764	612	433	320	560	490	1030	1600	5220	2150	1250	760
8	759	629	446	330	560	500	1050	1650	5370	2140	1330	797
9	723	678	540	320	580	530	1040	1640	5460	2190	1200	747
10	710	713	620	300	580	560	1110	1720	5550	2380	1170	767
11	705	686	620	290	580	580	1190	1870	5100	2380	1100	782
12	710	637	600	320	580	600	1120	2180	4940	2390	1060	1100
13	719	636	580	340	580	650	1220	2740	4880	2110	1050	1020
14	719	636	560	350	580	700	1040	3380	4800	1930	1030	896
15	741	622	500	340	560	720	988	3980	4610	1870	990	882
16	820	619	500	320	520	750	971	4330	4570	1870	1020	843
17	801	591	480	300	520	780	1020	4940	4750	1760	1020	864
18	719	590	480	290	500	800	1150	5240	4940	1690	1180	855
19	691	595	460	280	460	840	1370	5250	4710	1600	1260	851
20	678	597	440	300	400	900	1590	5200	4390	1540	1500	820
21	696	610	400	350	340	1820	1530	4920	4220	1470	1480	822
22	682	611	380	400	350	2130	1480	5000	4150	1410	1350	993
23	668	597	350	440	360	2040	1350	5150	4280	1540	1280	981
24	664	522	380	460	380	1400	1320	5080	4140	1530	1250	857
25	660	526	420	480	390	1220	1400	5130	3810	1440	1200	855
26	660	541	420	480	370	1120	1650	5220	3430	1570	1230	849
27	637	560	450	480	370	1050	1720	5330	3240	1630	1090	861
28	637	569	440	480	370	945	1570	5320	3020	1610	1000	845
29	624	514	400	480	420	982	1500	5150	2930	1570	964	834
30	620	516	360	460	---	999	1400	4990	2860	1440	933	816
31	616	---	370	440	---	951	---	4860	---	1410	892	---
TOTAL	22088	18222	14969	11400	13830	26957	35994	111020	135760	60490	37289	26045
MEAN	713	607	483	368	477	870	1200	3581	4525	1951	1203	868
MAX	874	713	620	480	580	2130	1720	5330	5550	2950	1580	1100
MIN	540	514	350	280	340	460	784	1390	2860	1410	892	747
ACFT	43810	36140	29690	22610	27430	53470	71390	220200	269300	120000	73960	51660

CAL YR 1983	TOTAL	434792	MEAN	1191	MAX	5420	MIN	230	ACFT	862400
WTR YR 1984	TOTAL	514064	MEAN	1405	MAX	5550	MIN	280	ACFT	1020000

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

LOCATION.--Daily sediment samples collected at bridge 3.4 mi downstream from gaging station and by U.S.P.S. pumping sediment sampler at gaging station since March 1977.

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1976 to current year.
WATER TEMPERATURES: April 1977 to current year.
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to September 1983 (discontinued).

REMARKS.--Specific-conductance and water-temperature recorders were not operated during the winter period. Prior to 1979 water year, specific conductance and water temperature values, published in "Hydrologic and Climatologic Data" reports for Utah.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded (more than 20 percent missing record), 1,900 micromhos July 6, 1977; minimum recorded, 250 micromhos Aug. 1, 3, 1982.
WATER TEMPERATURES: Maximum recorded (more than 20 percent missing record), 34.5°C June 26, 1981; minimum 0.0°C on many days during winter periods.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 48,400 mg/L Sept. 13, 1982; minimum daily mean, 20 mg/L Jan. 8, 1976.
SEDIMENT LOADS: Maximum daily, 268,000 tons Mar. 29, 1979; minimum daily, 0.69 ton July 2, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily mean recorded, 1,730 micromhos Aug. 21; minimum daily mean recorded, 296 micromhos Aug. 18.
WATER TEMPERATURES: Maximum recorded, 25.0°C Aug. 13, 14, 16; minimum, 0.0°C many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV 28...	1300	550	830	8.2	-8.0	0.0	90	12.6	648	K12
JAN 18...	1230	310	840	8.2	-24.0	0.0	13	11.3	655	K2
MAR 15...	1100	580	980	8.2	7.5	0.5	560	10.8	649	K10
MAY 16...	1145	4240	750	7.9	22.5	14.0	400	7.9	650	K1100
JUL 18...	1315	1670	720	8.1	34.0	23.0	280	7.0	652	150
SEP 19...	1015	861	900	8.3	21.5	19.0	1500	7.3	654	380

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)
NOV 28...	710	310	6.2	70	33	69	32	1.8	1.6	220
JAN 18...	40	320	6.4	76	32	69	32	1.7	1.6	220
MAR 15...	K24000	290	5.9	63	33	98	42	2.6	2.2	200
MAY 16...	K10000	260	5.2	51	32	58	32	1.6	2.9	160
JUL 18...	410	270	5.3	59	29	49	28	1.3	1.8	170
SEP 19...	2700	320	6.3	64	38	75	34	1.9	2.8	200

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

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
NOV 28...	220	18	0.3	13	587	556	0.8	872	0.29	0.05
JAN 18...	220	17	0.3	15	548	562	0.75	459	0.44	0.10
MAR 15...	280	21	0.3	12	658	631	0.89	1030	0.59	0.10
MAY 16...	190	11	0.3	11	478	455	0.65	5470	1.3	0.05
JUL 18...	180	11	0.3	14	453	448	0.62	2040	0.4	0.05
SEP 19...	250	17	0.3	13	612	578	0.83	1420	0.48	0.03

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
NOV 28...	0.06	0.9	0.9	0.9	4.0	0.20	0.61	<0.01	0.02	0.06
JAN 18...	0.13	0.2	<0.2	0.2	0.89	0.02	0.06	<0.01	0.01	0.03
MAR 15...	0.13	2.5	2.50	2.5	11	0.84	2.6	0.02	0.03	0.09
MAY 16...	0.06	9.0	9.00	9.0	40	3.20	9.8	0.02	0.02	0.06
JUL 18...	0.06	2.5	2.50	2.5	11	0.72	--	0.02	0.02	0.06
SEP 19...	0.04	3.5	3.50	3.5	15	0.72	--	0.03	0.02	0.06

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
NOV 28...	1300	10	<1	58.00	<0.50	<1	<1	<3.00	4	10	2
MAR 15...	1100	20	1	56.00	<0.50	<1	<1	<3.00	3	20	1
MAY 16...	1145	30	<1	62.00	<1.00	<1	1	<3.00	2	30	<1
JUL 18...	1315	30	1	71.00	2.00	<1	<1	<3.00	2	7.00	<1

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV 28...	20	3	0.2	<10	2	2	<1	950	<6.0	10
MAR 15...	20	6	<0.1	<10	2	1	<1	890	<6.0	20
MAY 16...	20	3	<0.1	<10	<1	3	<1	670	<6.0	20
JUL 18...	20	3	0.8	10	6	2	<1	700	<6.0	<3.00

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	880	770	863									
2	882	652	785									
3	884	674	716									
4	926	596	686									
5	698	648	674									
6	690	670	683									
7	702	682	692									
8	694	654	675									
9	666	636	653									
10	658	618	646									
11	650	520	632									
12	652	592	640									
13	694	384	634									
14	706	476	624									
15	708	368	586									
16	790	650	730									
17	752	672	700									
18	724	694	711									
19	716	636	677									
20	668	638	656									
21	650	640	646									
22	652	642	644									
23	654	634	644									
24	656	646	648									
25	658	648	649									
26	650	640	649									
27	---	---	---									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	926	368	675									

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
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27										---	---	---
28										---	---	---
29										530	510	523
30										711	521	559
31										552	542	547
MONTH										---	---	---

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	563	543	551	533	523	528	1030	750	934	851	782	818
2	574	554	564	530	520	527	1010	562	889	878	768	805
3	585	565	581	547	527	536	1040	864	953	904	814	847
4	586	566	577	554	544	550	1050	866	964	940	830	863
5	597	577	586	571	551	561	977	857	911	953	853	931
6	608	588	595	579	569	570	1030	779	916	1020	946	987
7	639	609	621	586	576	579	1020	821	932	1040	979	1010
8	700	650	678	593	583	590	1080	843	954	1050	882	1010
9	684	664	671	610	600	604	1020	695	956	865	585	714
10	658	628	646	629	609	618	1020	927	967	588	568	578
11	632	622	627	648	638	642	989	939	956	621	591	604
12	626	616	624	667	657	658	961	521	806	994	614	772
13	631	611	619	665	655	660	1010	742	891	1430	897	1170
14	615	595	603	674	654	665	944	864	906	810	740	771
15	599	579	589	683	673	680	926	706	836	903	813	859
16	573	553	561	692	692	692	898	778	852	966	906	941
17	557	537	544	711	701	709	850	370	578	1010	969	988
18	531	521	528	730	710	720	1230	296	931	1010	1000	1010
19	525	515	522	733	723	724	1550	792	918	1010	735	886
20	519	509	516	737	727	735	1630	858	1160	740	720	728
21	513	503	509	750	---	---	1730	864	1220	756	736	743
22	508	498	503	---	---	---	1190	630	915	1400	741	1020
23	492	482	487	---	---	---	956	876	914	1340	1080	1180
24	486	476	479	---	---	---	922	852	892	1270	1030	1100
25	480	470	474	---	---	---	1080	878	949	1040	837	960
26	487	477	484	---	---	---	1200	925	985	792	492	561
27	494	484	492	---	---	---	1070	931	962	497	487	495
28	511	501	504	---	---	---	1010	937	966	512	492	497
29	519	509	518	---	---	---	983	943	960	508	498	498
30	526	516	522	---	---	---	989	879	937	493	483	486
31	---	---	---	---	---	---	875	835	849	---	---	---
MONTH	700	470	559	---	---	---	1730	296	927	1430	483	828

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.5	13.5	14.5									
2	14.0	12.5	13.5									
3	13.5	12.0	12.5									
4	13.5	10.5	12.0									
5	13.5	11.5	12.5									
6	14.5	12.0	13.0									
7	14.5	12.5	13.5									
8	16.0	13.5	14.5									
9	16.0	14.0	15.0									
10	15.5	14.0	14.5									
11	15.0	13.0	14.0									
12	14.0	11.5	13.0									
13	14.0	11.5	12.5									
14	13.0	11.0	12.5									
15	12.5	10.0	11.0									
16	12.0	9.5	11.0									
17	11.0	9.5	10.5									
18	12.5	10.5	11.0									
19	12.0	9.5	10.5									
20	11.0	8.5	9.5									
21	10.5	8.0	9.5									
22	10.5	8.0	9.5									
23	11.0	8.0	9.5									
24	11.5	9.5	10.5									
25	10.0	8.0	9.0									
26	8.0	7.0	7.5									
27	---	---	---									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	16.0	7.0	12.0									

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1										---	---	---
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27										---	---	---
28										---	---	---
29										16.0	15.5	16.0
30										16.5	15.0	16.0
31										17.0	15.5	16.0
MONTH										---	---	---

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

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
NOV						
28...	1300	550	0.0	--	396	588
JAN						
18...	1230	310	0.0	--	83	69
MAR						
15...	1100	580	0.5	--	1370	2150
MAY						
16...	1145	4240	14.0	71	15700	180000
JUL						
18...	1315	1670	23.0	99	3860	17400
SEP						
19...	1015	861	19.0	82	3040	7070

09307200 PARIETTE DRAW NEAR OURAY, UT

LOCATION.--Lat 40°04'58", long 109°52'22", in SW1/4SE1/4SE1/4 sec.27, T.8 S., R.18 E., Uintah County, Hydrologic Unit 14060005, on right bank 1.2 mi upstream from Castle Peak Draw and 10.5 mi west of Ouray.

DRAINAGE AREA.--153 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to September 1984 (discontinued).

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

GAGE.--Water-stage recorder. Altitude of gage is 4,790 ft from topographic map.

REMARKS.--Records good except those for winter months, which are poor. Some small diversions above station for irrigation.

AVERAGE DISCHARGE.--9 years, 27.6 ft^3/s, 20,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 626 ft^3/s Sept. 10, 1980, gage height, 9.76 ft; minimum daily, 3.0 ft^3/s Feb. 6, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 147 ft^3/s July 30, gage height, 5.47 ft but may have been higher during period of no gage height record, Mar. 5-22; minimum daily, 5.0 ft^3/s Jan. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	65	24	11	6.8	10	17	20	11	23	67	34
2	93	67	25	10	7.2	8.8	19	28	11	23	53	61
3	103	67	24	11	6.6	7.6	15	27	23	20	56	58
4	99	71	24	11	6.4	6.7	13	24	29	20	55	54
5	97	73	25	10	6.7	6.2	12	20	25	17	42	46
6	90	70	20	10	7.0	7.2	12	17	25	17	39	58
7	87	69	21	10	6.7	8.3	12	18	34	14	40	55
8	90	67	18	9.1	6.9	10	11	17	51	17	44	54
9	93	63	17	8.4	6.8	15	12	15	70	21	42	45
10	92	62	16	7.6	7.1	17	10	15	60	19	37	39
11	91	61	17	7.0	7.4	18	9.6	11	57	19	37	34
12	88	59	18	6.5	7.5	19	10	11	69	16	51	40
13	83	65	17	6.0	7.4	20	9.6	11	78	15	44	59
14	81	74	17	6.5	6.8	21	8.8	13	55	21	42	67
15	77	79	18	5.8	6.0	22	9.3	15	46	29	37	72
16	82	82	17	5.5	6.7	21	10	11	63	28	56	69
17	89	85	16	5.2	7.4	21	10	11	52	32	65	88
18	90	76	15	5.0	6.2	23	9.6	12	51	22	72	61
19	80	56	14	5.2	5.5	24	10	13	43	25	96	60
20	70	50	12	5.8	5.5	26	12	17	40	27	112	75
21	67	50	11	6.6	5.5	35	22	19	33	36	79	91
22	69	48	11	8.0	5.8	46	29	17	32	57	58	80
23	65	43	12	8.9	6.3	31	29	11	29	71	51	34
24	63	51	12	9.6	6.8	26	26	9.3	27	63	45	30
25	67	28	13	8.6	7.4	24	30	11	28	45	52	55
26	71	25	13	9.3	8.1	19	40	13	24	37	89	90
27	75	23	12	11	8.8	22	40	19	20	37	84	96
28	75	19	12	9.0	9.2	15	36	23	20	54	69	89
29	72	22	11	8.9	9.6	14	28	18	22	95	65	86
30	71	23	12	7.0	---	15	24	10	21	114	45	85
31	68	---	12	6.3	---	18	---	12	---	108	29	---
TOTAL	2515	1693	506	249.8	202.1	576.8	535.9	488.3	1149	1142	1753	1865
MEAN	81.1	56.4	16.3	8.06	6.97	18.6	17.9	15.8	38.3	36.8	56.5	62.2
MAX	103	85	25	11	9.6	46	40	28	78	114	112	96
MIN	63	19	11	5.0	5.5	6.2	8.8	9.3	11	14	29	30
ACFT	4990	3360	1000	495	401	1140	1060	969	2280	2270	3480	3700

CAL YR 1983	TOTAL	14543.7	MEAN	39.8	MAX	123	MIN	5.4	ACFT 28850
WTR YR 1984	TOTAL	12675.9	MEAN	34.6	MAX	114	MIN	5.0	ACFT 25140

09307200 PARIETTE DRAW NEAR OURAY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to September 1984 (discontinued).
SEDIMENT DATA: October 1975 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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									
27...	1500	77	1450	8.2	17.5	8.5	11.9	648	410
NOV									
29...	1615	22	3660	8.1	-10.0	0.0	13.2	642	760
DEC									
15...	1215	18	3800	8.1	0.5	0.0	12.2	642	720
JAN									
23...	1345	9.0	3960	8.2	-11.0	0.0	12.8	649	830
FEB									
17...	1245	7.0	4120	8.1	-0.5	0.0	13.2	639	840
MAR									
22...	1530	51	2970	8.3	8.5	10.0	9.6	644	530
APR									
24...	1200	27	2370	8.2	14.0	12.5	9.6	642	560
MAY									
18...	0930	13	3510	8.2	19.0	14.0	10.2	649	700
JUN									
29...	1215	22	2760	8.1	26.5	20.0	9.0	649	600
JUL									
27...	1330	42	2710	8.1	34.0	23.0	7.3	650	630
AUG									
16...	1500	71	2440	8.1	33.0	22.0	7.0	649	520
SEP									
20...	1400	76	1570	8.1	23.0	16.0	8.3	644	410

DATE	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT									
27...	8.1	88	45	210	53	4.7	2.2	260	570
NOV									
29...	15	140	100	660	65	11	3.3	390	1700
DEC									
15...	14	130	97	630	65	10	2.6	280	1600
JAN									
23...	17	170	98	680	64	11	2.7	390	1700
FEB									
17...	17	170	100	760	66	12	3.3	370	1800
MAR									
22...	11	120	57	480	66	9.3	3.8	230	1300
APR									
24...	11	120	63	340	57	6.4	2.5	280	880
MAY									
18...	14	140	86	560	63	9.4	3.7	260	1600
JUN									
29...	12	130	67	420	60	7.7	2.5	280	1100
JUL									
27...	13	140	69	410	58	7.3	3.2	290	980
AUG									
16...	10	120	54	340	58	6.7	3.9	260	920
SEP									
20...	8.3	90	46	210	52	4.6	2.2	260	560

09307200 PARIETTE DRAW NEAR OURAY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)
OCT 27...	38	0.4	11	1120	1.5	233	1.2	<0.01
NOV 29...	110	0.7	18	2970	4.0	176	4.1	<0.01
DEC 15...	110	0.7	17	2760	3.7	134	4.9	0.01
JAN 23...	110	0.7	20	3020	4.1	73.3	6.4	0.01
FEB 17...	110	0.7	19	3190	4.3	60.3	6.0	0.02
MAR 22...	90	0.5	11	2200	3.0	303	2.6	0.06
APR 24...	66	0.5	11	1650	2.2	120	2.1	<0.01
MAY 18...	110	0.6	10	2670	3.6	93.6	1.9	0.02
JUN 29...	71	0.6	11	1970	2.7	117	1.5	0.02
JUL 27...	74	0.6	16	1870	2.5	212	1.2	0.03
AUG 16...	57	0.6	13	1670	2.3	319	3.9	0.03
SEP 20...	35	0.5	12	1110	1.5	229	0.91	0.01

DATE	TIME	BORON, DISSOLVED (UG/L AS B)
OCT 27...	1500	610
NOV 29...	1615	1300
DEC 15...	1215	1300
JAN 23...	1345	1300
FEB 17...	1245	1400
MAR 22...	1530	960
APR 24...	1200	860
MAY 18...	0930	1200
JUN 29...	1215	970
JUL 27...	1330	890
AUG 15...	1500	870
SEP 20...	1400	640

09307200 PARIETTE DRAW NEAR OURAY, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
27...	1500	77	8.5	501	104
NOV					
29...	1615	22	0.0	230	14
DEC					
15...	1215	18	0.0	286	14
JAN					
23...	1345	9.0	0.0	175	4.3
FEB					
17...	1245	7.0	0.0	89	1.7
MAR					
22...	1530	51	10.0	2400	330
APR					
24...	1200	27	12.5	538	39
MAY					
18...	0930	13	14.0	167	5.9
JUN					
29...	1215	22	20.0	221	13
JUL					
27...	1330	42	23.0	686	78
AUG					
16...	1500	71	22.0	1510	289
SEP					
20...	1400	76	16.0	702	144

09307300 PARIETTE DRAW AT MOUTH, NEAR OURAY, UT

LOCATION.--Lat 40°01'48", long 109°45'23", in NW1/4NW1/4SW1/4 sec.14, T.9 S., R.19 E., Uintah County, Hydrologic Unit 14060005, on right bank 120 ft downstream from dike for waterfowl habitat area, 0.8 mi upstream from mouth, and 5.8 mi southwest of Ouray.

DRAINAGE AREA.--298 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to September 1984 (discontinued).

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

GAGE.--Water-stage recorder. Altitude of gage is 4,650 ft from topographic map.

REMARKS.--Records good except those for winter months and no gage height record, Jan. 8-Mar. 22, which are poor. Flow regulated by waterfowl habitat area. Diversions above station for irrigation of about 250 acres above and 100 acres below.

AVERAGE DISCHARGE.--9 years, 22.8 ft^3/s, 16,520 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 450 ft^3/s July 24, 1977 (may have been higher when the dam broke Mar. 29, 1979); no flow July 21-23, Aug. 16, 17, Dec. 25-27, 1976, Jan. 25-27, 1977, July 24-30, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 196 ft^3/s Mar. 22; minimum daily, 1.0 ft^3/s May 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	59	20	11	7.1	7.1	5.9	26	9.4	1.3	79	33
2	65	57	22	12	6.3	7.5	3.4	26	8.1	1.4	69	27
3	75	58	29	12	6.1	7.2	2.5	30	7.8	1.6	53	25
4	82	60	28	10	6.4	6.7	3.0	29	9.2	1.7	46	29
5	79	61	27	11	6.5	7.1	6.2	25	18	1.6	46	29
6	73	62	19	12	6.4	7.2	9.0	19	24	1.6	40	25
7	67	61	18	11	6.2	7.1	9.7	13	32	1.4	34	23
8	66	61	19	9.2	5.9	8.0	9.8	5.0	45	3.0	33	25
9	68	58	15	8.6	5.8	8.8	13	3.4	68	6.9	33	27
10	71	56	14	8.5	5.9	9.8	13	2.4	72	11	33	27
11	71	56	14	8.9	6.3	11	14	1.3	59	13	31	31
12	70	53	15	9.2	6.4	13	11	1.0	54	14	29	37
13	69	55	15	8.4	6.3	15	11	1.6	53	12	32	40
14	67	61	14	7.9	6.1	18	11	5.1	59	12	35	45
15	64	67	14	8.6	6.4	21	11	9.2	53	12	35	52
16	65	69	15	9.5	6.5	25	9.1	12	43	12	32	56
17	70	71	15	9.3	6.2	30	8.8	11	45	14	37	58
18	74	71	14	9.0	6.2	35	8.8	9.7	45	15	53	63
19	74	63	13	8.5	6.1	38	9.4	7.8	40	16	56	60
20	68	49	12	8.6	6.0	40	9.8	5.8	38	14	62	53
21	63	48	11	9.1	6.5	48	9.0	5.3	34	17	74	59
22	61	48	11	9.8	7.0	196	8.7	5.1	29	20	75	70
23	60	40	12	10	7.2	74	15	5.4	27	30	62	72
24	58	28	12	9.9	6.8	59	22	6.7	25	42	51	45
25	58	37	12	9.3	6.7	50	24	7.7	23	48	43	33
26	60	36	12	8.9	7.1	40	25	7.4	20	44	42	38
27	63	33	13	8.3	7.0	19	35	7.2	14	37	53	59
28	64	21	12	8.7	6.5	6.3	45	7.4	11	33	66	70
29	62	13	9.3	8.8	6.8	15	43	10	8.7	42	61	88
30	61	13	10	8.5	---	15	32	12	3.3	65	55	82
31	62	---	11	8.0	---	14	---	12	---	74	46	---
TOTAL	2075	1525	477.3	292.5	186.7	858.8	438.1	329.5	977.5	617.5	1496	1381
MEAN	66.9	50.8	15.4	9.44	6.44	27.7	14.6	10.6	32.6	19.9	48.3	46.0
MAX	82	71	29	12	7.2	196	45	30	72	74	79	88
MIN	58	13	9.3	7.9	5.8	6.3	2.5	1.0	3.3	1.3	29	23
ACFT	4120	3020	947	580	370	1700	869	654	1940	1220	2970	2740

CAL YR 1983	TOTAL	12238.15	MEAN	33.5	MAX	100	MIN	.45	ACFT	24270
WTR YR 1984	TOTAL	10654.9	MEAN	29.1	MAX	196	MIN	1.0	ACFT	21130

09307300 PARIETTE DRAW AT MOUTH, NEAR OURAY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to September 1984 (discontinued).
SEDIMENT DATA: October 1975 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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									
27...	1030	66	2820	8.0	6.5	8.0	10.8	653	460
NOV									
29...	1400	13	3180	8.0	-5.5	1.5	12.8	645	700
DEC									
15...	1030	15	4050	8.0	-1.0	0.0	11.6	646	790
JAN									
23...	1145	10	4310	8.0	-14.5	0.0	12.4	654	1000
FEB									
17...	1415	6.3	4340	8.0	-0.5	0.0	12.8	642	830
MAR									
22...	1300	196	1870	8.2	9.0	7.0	9.7	647	280
APR									
24...	1520	23	4180	8.2	21.5	15.0	9.3	641	790
MAY									
18...	1300	9.7	3570	8.1	22.0	17.0	8.5	652	660
JUN									
29...	0930	8.9	2700	8.0	23.5	20.0	6.6	650	570
JUL									
27...	1030	37	2490	8.1	27.0	23.0	7.0	660	520
AUG									
16...	1200	32	2450	8.2	32.0	23.0	7.4	654	520
SEP									
20...	1145	55	1730	8.1	25.0	18.0	7.8	649	420

DATE	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT									
27...	9.2	99	52	260	55	5.4	2.4	260	690
NOV									
29...	14	140	86	410	56	6.9	3.8	290	1300
DEC									
15...	16	150	100	710	66	11	2.8	390	1800
JAN									
23...	20	220	110	770	62	11	3.1	420	2000
FEB									
17...	17	170	98	730	66	11	2.7	400	1800
MAR									
22...	5.6	67	27	310	70	8.3	3.3	160	700
APR									
24...	16	150	100	740	67	12	4.0	270	1800
MAY									
18...	13	120	88	600	66	10	4.0	260	1500
JUN									
29...	11	120	65	420	62	7.9	3.3	270	1100
JUL									
27...	10	110	60	370	60	7.2	3.6	240	930
AUG									
16...	10	110	59	370	61	7.3	3.6	280	930
SEP									
20...	8.3	86	49	260	57	5.7	2.7	260	650

09307300 PARIETTE DRAW AT MOUTH, NEAR OURAY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)
OCT 27...	48	0.5	9.6	1320	1.8	235	0.96	<0.01
NOV 29...	38	0.6	13	2170	2.9	73.7	2.2	<0.01
DEC 15...	130	0.7	16	3150	4.3	127	4.1	<0.01
JAN 23...	140	0.7	20	3520	4.8	95.0	5.2	0.01
FEB 17...	140	0.7	18	3200	4.4	54.4	5.5	0.01
MAR 22...	59	0.4	7.6	1270	1.7	674	1.3	0.05
APR 24...	140	0.6	10	3110	4.2	193	1.2	0.02
MAY 18...	130	0.6	3.7	2610	3.5	68.2	0.26	0.01
JUN 29...	81	0.6	11	1960	2.7	47.1	0.2	0.01
JUL 27...	76	0.5	12	1710	2.3	171	0.11	0.01
AUG 16...	68	0.6	9.9	1720	2.3	148	0.19	0.03
SEP 20...	45	0.5	9.9	1260	1.7	187	0.35	0.01

DATE	TIME	BORON, DISSOLVED (UG/L AS B)
OCT 27...	1030	710
NOV 29...	1400	1100
DEC 15...	1030	1500
JAN 23...	1145	1500
FEB 17...	1415	1500
MAR 22...	1300	660
APR 24...	1520	1500
MAY 18...	1300	1300
JUN 29...	0930	1000
JUL 27...	1030	1000
AUG 16...	1200	990
SEP 20...	1145	750

09307300 PARIETTE DRAW AT MOUTH, NEAR OURAY, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
27...	1030	66	8.0	69	12
NOV					
29...	1400	13	1.5	125	4.3
DEC					
15...	1030	15	0.0	209	8.5
JAN					
23...	1145	10	0.0	177	4.8
FEB					
17...	1415	6.3	0.0	256	4.4
MAR					
22...	1300	196	7.0	72	38
APR					
24...	1520	23	15.0	74	4.6
MAY					
18...	1300	9.7	17.0	214	5.6
JUN					
29...	0930	8.9	20.0	218	5.2
JUL					
27...	1030	37	23.0	153	15
AUG					
16...	1200	32	23.0	210	18
SEP					
20...	1145	55	18.0	158	23

09308000 WILLOW CREEK NEAR OURAY, UT

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1974 to August 1983 (discontinued). Prior to 1979 water year, published in "Hydrologic and Climatologic Data" reports for Utah.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1976 to September 1978.
WATER TEMPERATURES: October 1976 to September 1978.
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to September 1983 (discontinued).

REMARKS.--Specific-conductance and water-temperature recorders were not operated during the winter period. Sediment record computed based on concentrations collected once daily by observer and periodically by U.S.P.S. 69 automatic sediment sampler. Although daily concentrations are shown only for part of the year, daily values are available in district files.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded (more than 20 percent missing record), 10,200 micromhos June 22, 1978; minimum recorded, 950 micromhos Feb. 23, 1977.
WATER TEMPERATURES: Maximum recorded (more than 20 percent missing record), 34.0°C June 26, 1977; minimum, 0.0°C many days during winter period each year.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 82,700 mg/L July 22, 1977; no flow for several days most years.
SEDIMENT LOADS: Maximum daily, 49,400 tons July 20, 1977; 0 tons many days most years.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 39,200 mg/L Aug. 15; minimum daily mean, 165 mg/L Sept. 20.
SEDIMENT LOADS: Maximum daily, 26,700 tons June 1; minimum daily, 6.8 tons Oct. 14.

REVISIONS.--Sediment data for 1983 was not available at publication, therefore is included in the 1984 report.

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	334	21	246	13	378	18	370	10	332	15	25700	3680
2	636	34	234	14	385	18	372	10	342	13	23700	4540
3	378	18	240	14	382	15	370	10	335	12	19900	3220
4	383	17	240	12	379	14	370	10	328	11	14300	1620
5	468	19	240	12	400	15	355	9.6	322	9.6	9300	1080
6	360	15	264	14	403	16	375	11	330	8.9	7500	769
7	372	15	258	14	412	19	370	13	320	8.6	6680	739
8	324	12	264	15	410	19	360	16	303	9.0	6480	612
9	264	9.3	270	15	411	19	370	16	302	11	6400	588
10	252	8.2	280	17	413	26	365	14	311	13	6250	574
11	246	8.0	290	20	412	27	360	13	295	13	6150	581
12	214	6.9	290	18	411	27	330	11	287	12	5800	595
13	218	7.1	290	15	412	23	410	13	297	12	5300	572
14	210	6.8	300	12	413	18	370	13	303	12	5000	742
15	192	7.3	310	12	410	15	360	14	325	18	3810	494
16	216	7.6	320	13	398	15	370	17	340	20	4530	489
17	228	8.0	310	14	407	15	350	18	348	23	2000	200
18	216	7.6	328	21	395	15	370	21	380	28	1170	123
19	216	7.6	330	24	395	15	370	22	415	32	952	123
20	228	8.0	332	22	400	16	360	18	465	40	770	73
21	210	7.9	342	18	415	19	340	16	780	69	938	89
22	228	8.0	333	16	428	24	355	15	1400	121	686	61
23	264	9.3	335	15	420	28	358	16	1900	154	812	79
24	252	8.2	348	12	395	27	365	16	2280	185	1160	113
25	264	10	375	12	375	18	380	14	3900	347	1220	109
26	258	10	378	12	350	13	380	16	12500	1250	832	72
27	258	11	378	12	340	11	380	17	20500	2320	884	84
28	276	16	375	14	398	12	360	17	27000	3650	884	81
29	276	14	380	15	355	9.6	378	19	---	---	884	81
30	246	12	402	20	382	10	370	20	---	---	1130	95
31	258	13	---	---	375	10	365	19	---	---	1180	102
TOTAL	---	362.8	---	457	---	546.6	---	464.6	---	8417.1	---	22380

09308000 WILLOW CREEK NEAR OURAY, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1220	119	12500	2670	25800	26700	832	234	230	27	751	77
2	1080	99	12200	2570	27000	26600	1050	295	256	30	967	97
3	1060	100	9170	1760	22600	23600	749	198	5700	1260	725	78
4	1130	104	7900	1450	20700	19700	806	194	14400	2600	700	68
5	1140	98	8260	1630	19100	17300	968	220	10300	1810	420	39
6	1160	85	10300	2220	18100	13700	787	172	5850	869	391	33
7	1210	91	11600	2760	16100	12000	955	201	3360	417	391	31
8	1320	107	11600	2980	20300	13800	1060	203	2800	333	528	40
9	1460	118	13400	3580	14800	9910	1430	266	1840	199	396	29
10	1570	131	16900	5610	14900	10700	2100	408	1320	132	357	24
11	1520	135	19300	7300	13600	9690	1710	342	16800	2270	308	21
12	1600	151	19100	8410	13000	8110	747	133	27400	9840	346	22
13	1630	158	14500	5910	10700	5840	1170	193	24000	4470	270	17
14	1760	152	13400	5100	9800	5400	1310	205	11200	1480	400	25
15	1810	142	11000	4070	10900	5560	660	89	39200	6350	247	15
16	1820	147	11700	4550	2600	1050	710	86	13400	1950	238	13
17	2030	159	12600	5310	1390	529	604	70	10300	1360	216	12
18	2300	186	12300	4880	1140	425	480	49	5550	674	196	10
19	2270	196	11700	4580	702	256	566	57	2790	331	176	8.6
20	2380	212	11200	4510	720	262	1260	136	14700	2500	165	8.0
21	2670	252	10400	4410	798	284	1800	228	1650	200	189	10
22	2580	251	9820	3660	638	217	810	101	1320	150	483	29
23	4020	402	12600	4930	667	222	728	181	1240	134	336	25
24	3650	365	13200	5990	696	231	8250	3190	1250	135	241	19
25	5300	601	15900	7730	675	253	972	199	1830	173	231	19
26	8870	1250	19600	11500	845	301	1010	172	1410	133	200	16
27	9240	1450	19700	14600	840	281	990	160	1020	91	179	14
28	8790	1350	22000	17800	1020	347	1070	168	1150	96	207	18
29	8250	1400	23100	20100	915	279	400	50	2550	262	217	19
30	10100	1800	23500	22500	738	215	327	41	1120	109	210	20
31	---	---	24800	26000	---	---	288	33	648	66	---	---
TOTAL	---	11811	---	221070	---	213762	---	8274	---	40451	---	856.6

TOTAL LOAD FOR YEAR: 528852.7 TONS.

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

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM
MAR 07...	1630	38	7.0	6540	671	23	31	62	86
MAY 26...	1030	208	14.5	18200	10200	17	27	56	83

09308500 MINNIE MAUD CREEK NEAR MYTON, UT

LOCATION.--Lat 39°47'55", long 110°33'55", in SE1/4SE1/4SW1/4 sec.3, T.12 S., R.12 E., Carbon County, Hydrologic Unit 14060005, on left bank 38.4 mi southwest of Myton.

DRAINAGE AREA.--32.0 mi^2.

PERIOD OF RECORD.--August 1950 to September 1955, September 1957 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,190 ft by barometer.

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

AVERAGE DISCHARGE.--32 years, 5.69 ft^3/s, 4,120 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge unknown, occurred Oct. 13, 1975, gage height, 11.67 ft; maximum known discharge, 1,370 ft^3/s Aug. 25, 1961, gage height, 9.40 ft, from rating curve extended above 110 ft^3/s on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 90 ft^3/s, 129 ft^3/s May 16, gage height, 6.86 ft; minimum daily, 1.3 ft^3/s Jan. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	4.5	3.1	2.0	3.1	2.9	7.2	29	43	13	3.8	2.5
2	6.5	4.6	3.1	2.0	3.3	3.0	6.3	29	40	12	4.2	2.3
3	6.2	4.5	3.0	2.0	3.2	2.7	6.2	29	39	13	4.2	2.4
4	5.2	4.7	2.9	2.1	3.0	2.2	8.5	29	36	12	6.5	2.5
5	5.3	4.6	2.8	2.2	3.3	2.1	7.9	30	35	12	4.9	2.7
6	5.3	4.6	2.5	2.3	3.2	2.6	7.4	31	35	11	4.1	3.0
7	5.2	4.5	2.7	2.4	3.6	2.7	7.5	30	36	11	3.7	3.0
8	5.0	4.2	2.9	2.3	3.5	3.9	7.9	30	32	11	3.3	2.9
9	4.9	3.9	3.0	2.1	3.4	4.5	7.9	31	30	10	3.2	3.0
10	4.9	3.8	3.0	2.1	3.5	4.3	8.4	36	29	9.8	3.1	3.0
11	5.0	3.8	3.2	2.2	3.5	4.3	8.4	42	28	9.2	3.3	3.5
12	4.9	3.7	3.3	2.1	3.4	4.0	9.1	47	27	8.9	3.2	3.7
13	4.9	3.8	3.0	2.3	3.3	4.1	9.2	55	25	8.3	3.0	3.9
14	4.8	3.7	3.1	2.3	2.9	4.5	9.6	57	23	8.0	4.2	4.1
15	4.7	3.3	3.2	2.1	2.8	4.2	13	66	23	6.8	3.4	3.9
16	4.6	3.5	3.0	1.6	3.2	4.1	20	89	23	6.6	4.5	4.1
17	4.6	3.6	2.9	1.4	3.2	4.0	28	79	22	6.5	3.0	4.0
18	4.6	3.7	2.7	1.5	3.1	4.2	33	81	20	6.5	2.8	4.0
19	4.6	3.6	2.7	1.3	3.0	4.4	33	82	19	7.2	3.3	4.1
20	4.7	3.5	2.6	1.5	3.1	4.5	33	75	19	7.2	3.7	3.9
21	4.5	3.6	2.1	1.7	3.3	4.6	32	73	18	7.7	3.3	4.5
22	4.5	3.1	2.1	2.0	3.1	4.9	33	68	18	5.4	3.1	3.8
23	4.5	2.6	2.2	2.3	2.7	5.6	32	63	17	4.1	5.6	3.9
24	4.5	2.7	2.2	2.5	2.8	7.0	35	60	17	3.9	4.5	3.8
25	4.6	3.5	2.2	2.6	3.0	7.1	35	56	17	6.4	4.8	3.9
26	4.5	3.3	2.3	2.6	2.9	6.8	32	54	17	5.4	2.4	4.0
27	4.6	3.0	2.2	2.7	2.8	7.1	31	52	16	4.5	2.6	4.0
28	4.5	2.9	2.1	2.7	3.1	7.4	30	49	15	4.2	2.7	3.9
29	4.5	3.0	2.0	2.8	3.1	6.8	29	46	15	3.6	2.6	3.5
30	4.5	3.1	1.9	2.6	---	7.2	29	44	14	3.7	2.7	3.9
31	4.5	---	2.2	2.7	---	7.1	---	44	---	3.9	2.7	---
TOTAL	156.6	110.9	82.2	67.0	91.4	144.8	589.5	1586	748	242.8	112.4	105.7
MEAN	5.05	3.70	2.65	2.16	3.15	4.67	19.6	51.2	24.9	7.83	3.63	3.52
MAX	11	4.7	3.3	2.8	3.6	7.4	35	89	43	13	6.5	4.5
MIN	4.5	2.6	1.9	1.3	2.7	2.1	6.2	29	14	3.6	2.4	2.3
ACFT	311	220	163	133	181	287	1170	3150	1480	482	223	210

CAL YR 1983	TOTAL	6398.1	MEAN	17.5	MAX	190	MIN	1.1	ACFT	12690
WTR YR 1984	TOTAL	4037.3	MEAN	11.0	MAX	89	MIN	1.3	ACFT	8010

09309600 FAIRVIEW TUNNEL NEAR FAIRVIEW, UT
(Transmountain diversion)

LOCATION.--Lat 39°40'03", long 111°18'41", in NW1/4NW1/4NE1/4 sec.25, T.13 S., R.5 E., Sanpete County, Hydrologic Unit 14060007, on right bank 1,000 ft upstream from tunnel portal, 7.3 mi east-northeast of Fairview.

PERIOD OF RECORD.--July 1967 to current year. Seasonal records only. (July to September 1967, gage height only.)

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 8,660 ft from topographic map.

REMARKS.--Records fair. Fairview Tunnel diverts from San Rafael River and Price River drainages in the Colorado River Basin to San Pitch River in the Great Basin. Due to the location of the gage, reported flow may not be actual flow through tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 52 ft^3/s June 6, 1984, gage height, 1.55 ft; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 52 ft^3/s June 6, gage height, 1.55 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	.80	7.0	14	15
2								---	19	7.0	16	15
3								---	24	6.8	18	15
4								---	20	6.8	18	14
5								---	22	6.6	18	14
6								---	24	7.0	17	14
7								---	22	8.6	17	14
8								---	15	8.0	17	14
9								---	11	9.8	17	14
10								---	10	11	17	13
11								---	10	9.6	17	14
12								---	10	9.8	16	15
13								---	10	12	16	13
14								---	9.6	14	16	13
15								---	9.6	12	16	13
16								---	9.6	13	16	13
17								---	9.6	14	16	14
18								---	9.6	16	16	13
19								---	9.2	16	16	13
20								---	9.2	16	16	13
21								---	9.8	17	16	12
22								---	10	17	16	8.0
23								---	9.3	16	16	4.9
24								---	8.8	15	16	3.1
25								---	8.4	15	16	2.0
26								---	8.0	15	16	1.3
27								---	7.6	15	16	.82
28								---	7.4	15	16	.56
29								.20	7.2	15	15	.36
30								.24	7.2	15	15	.23
31								.30	---	15	15	---
TOTAL								---	347.90	381.0	503	309.27
MEAN								---	11.6	12.3	16.2	10.3
MAX								---	24	17	18	15
MIN								---	.80	6.6	14	.23
ACFT								---	690	756	998	613

09310000 GOOSEBERRY CREEK NEAR SCOFIELD, UT

LOCATION.--Lat 39°42'57", long 111°17'58", in NW1/4SE1/4SW1/4 sec.6, T.13 S., R.6 E., Sanpete County, Hydrologic Unit 14060007, on left bank 300 ft downstream from old Mammoth Dam, 5.5 mi upstream from mouth, and 7 mi west of Scofield.

DRAINAGE AREA.--16.8 mi^2.

PERIOD OF RECORD.--October 1930 to September 1931, May 1940 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 8,400 ft from topographic map. October 1930 to September 1931, at different datum, May 1940 to September 1954, at datum 0.50 ft higher.

REMARKS.--Records poor. Transmountain diversion above station for irrigation in Sevier River basin, part of which is water diverted into Gooseberry Creek from Boulger Creek. A small reservoir on Gooseberry Creek 5 mi above station, capacity about 1,900 acre-ft is used to regulate these diversions. Flow also affected by small reservoir 1 mi above station.

AVERAGE DISCHARGE.--45 years, 19.2 ft^3/s, 13,910 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 419 ft^3/s May 22, 1984; maximum gage height, 2.98 ft June 6, 1957, datum then in use; no flow Nov. 11, 1964, Sept. 23-26, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 419 ft^3/s May 22; minimum daily, 5.7 ft^3/s Jan. 17, 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	9.4	8.9	8.5	7.3	7.7	6.9	15	311	55	15	7.4
2	17	8.9	8.9	7.7	7.3	8.1	6.9	15	280	48	13	7.4
3	16	8.5	9.4	8.9	7.3	8.1	6.9	16	255	38	12	7.2
4	15	8.5	8.5	8.9	7.3	7.7	6.5	17	229	33	12	7.2
5	12	8.5	8.9	8.9	6.8	7.3	6.3	19	220	30	12	7.1
6	12	8.5	9.4	8.9	7.3	6.1	6.6	20	253	29	12	7.1
7	11	8.1	9.4	8.9	7.3	6.5	6.6	19	282	27	11	6.2
8	10	8.1	8.9	8.9	7.3	6.9	6.9	22	247	26	11	6.5
9	10	8.1	8.9	8.9	7.7	6.9	6.9	34	215	25	11	6.5
10	9.4	8.5	8.9	8.5	7.7	6.9	6.7	56	202	25	11	6.4
11	9.4	8.9	8.9	8.5	7.7	6.9	6.6	84	184	25	10	8.3
12	8.9	8.9	8.9	8.1	7.3	6.9	6.4	114	172	24	11	11
13	8.9	8.9	8.9	7.7	7.7	6.9	7.6	154	165	24	12	9.2
14	10	8.5	9.4	8.1	7.7	7.3	8.6	190	164	25	13	7.9
15	8.9	8.5	9.4	7.7	6.9	6.9	10	239	161	23	11	7.4
16	8.9	8.9	8.5	6.5	7.3	6.9	13	255	148	21	11	7.5
17	8.9	9.4	8.9	5.7	7.3	6.5	18	238	144	19	9.9	7.3
18	8.9	8.9	8.9	5.7	7.3	6.9	19	247	139	17	9.7	6.9
19	8.9	8.5	9.4	6.5	6.9	6.9	18	258	135	17	10	6.5
20	8.5	8.1	8.9	6.9	7.3	6.5	17	282	129	17	11	7.0
21	8.5	8.1	8.9	7.7	7.3	6.9	14	341	121	17	12	11
22	8.5	8.5	8.1	8.5	7.3	6.9	12	419	108	19	10	9.0
23	8.5	8.9	8.9	8.1	7.3	6.5	13	394	98	19	9.6	7.8
24	9.4	9.4	9.4	8.1	7.7	6.9	20	397	90	17	9.5	6.8
25	8.5	9.4	9.4	8.1	7.7	6.9	17	378	83	16	11	7.1
26	8.5	9.4	9.8	7.7	7.3	6.9	14	368	76	17	10	7.0
27	8.5	9.4	9.4	7.3	7.3	6.9	13	366	69	20	9.2	6.7
28	8.5	8.9	8.1	7.3	7.3	6.5	13	330	61	18	8.5	6.1
29	8.5	8.9	8.5	7.3	7.7	6.9	13	303	55	17	7.8	5.8
30	8.5	8.9	8.9	7.3	---	6.9	14	292	53	20	7.8	6.0
31	11	---	8.9	6.8	---	6.5	---	284	---	17	7.9	---
TOTAL	314.5	262.4	278.5	242.6	213.6	215.5	334.4	6166	4849	745	331.9	221.3
MEAN	10.1	8.75	8.98	7.83	7.37	6.95	11.1	199	162	24.0	10.7	7.38
MAX	17	9.4	9.8	8.9	7.7	8.1	20	419	311	55	15	11
MIN	8.5	8.1	8.1	5.7	6.8	6.1	6.3	15	53	16	7.8	5.8
ACFT	624	520	552	481	424	427	663	12230	9620	1480	658	439

CAL YR 1983	TOTAL	13497.3	MEAN	37.0	MAX	333	MIN	5.4	ACFT	26770
WTR YR 1984	TOTAL	14174.7	MEAN	38.7	MAX	419	MIN	5.7	ACFT	28120

09310500 FISH CREEK ABOVE RESERVOIR, NEAR SCOFIELD, UT

LOCATION.--Lat 39°46'28", long 111°11'25", in NW1/4NE1/4SW1/4 sec.18, T.12 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on right bank 0.8 mi upstream from bridge, 1.2 mi downstream from French Creek, and 4.5 mi north of Scofield.

DRAINAGE AREA.--60.1 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June to October 1931, April to September 1932, October 1938 to current year. Published as Price River above Scofield Reservoir, near Scofield, October 1938 to September 1967.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,670 ft from topographic map. June 1931 to September 1932, and October 1938 to July 27, 1967, at various sites about 0.5 mi downstream at different datums.

REMARKS.--Records fair. Small transmountain diversions in headwaters for irrigation in Sevier Lake basin.

AVERAGE DISCHARGE.--46 years (1938-84), 49.9 ft^3/s, 36,150 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,450 ft^3/s May 21, 1984, gage height, 6.20 ft; minimum recorded, 0.6 ft^3/s Oct. 31, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 270 ft^3/s, 1,450 ft^3/s May 21, gage height, 6.20 ft; minimum daily, 13 ft^3/s Jan. 16-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	22	18	20	20	24	19	65	865	113	44	22
2	35	21	17	20	20	24	19	65	758	107	40	21
3	34	19	17	20	20	21	18	69	671	102	38	21
4	32	19	17	20	20	18	17	72	588	95	37	21
5	27	19	17	20	20	17	18	80	550	90	35	20
6	26	18	19	20	20	19	20	83	618	83	35	20
7	25	18	22	20	20	20	20	78	671	78	34	20
8	23	22	22	20	20	20	20	90	588	74	33	19
9	23	20	21	20	20	20	20	138	499	72	32	19
10	22	20	20	20	20	20	20	216	458	69	31	19
11	22	19	20	18	20	20	18	310	410	65	31	22
12	21	19	20	17	20	20	18	407	375	62	32	26
13	21	21	20	16	20	21	20	530	351	64	31	24
14	24	21	20	15	20	23	24	633	341	62	32	22
15	24	20	20	14	20	21	33	798	328	60	32	21
16	23	21	19	13	18	19	48	850	297	58	31	21
17	23	20	17	13	18	18	64	795	282	54	30	20
18	23	22	16	13	18	19	80	798	268	52	29	20
19	22	22	16	13	18	19	92	831	255	51	30	20
20	21	21	16	14	18	19	79	911	239	50	30	20
21	19	20	17	15	19	17	66	1100	224	53	29	29
22	19	20	19	17	20	17	61	1310	206	58	28	24
23	19	20	22	18	20	17	70	1270	186	53	27	21
24	21	20	22	19	20	18	95	1240	168	51	25	20
25	19	20	21	20	20	17	111	1180	155	51	29	20
26	19	20	20	20	20	16	94	1150	143	51	27	20
27	19	20	20	20	21	16	80	1110	129	55	25	20
28	19	20	20	20	22	16	72	1000	116	53	24	19
29	19	20	20	20	23	16	70	919	107	50	23	19
30	19	20	20	20	---	18	66	884	107	51	23	18
31	22	---	20	20	---	19	---	861	---	45	23	---
TOTAL	719	604	595	555	575	589	1452	19843	10953	2032	950	628
MEAN	23.2	20.1	19.2	17.9	19.8	19.0	48.4	640	365	65.5	30.6	20.9
MAX	35	22	22	20	23	24	111	1310	865	113	44	29
MIN	19	18	16	13	18	16	17	65	107	45	23	18
ACFT	1430	1200	1180	1100	1140	1170	2880	39360	21730	4030	1880	1250

CAL YR 1983	TOTAL	40937	MEAN	112	MAX	1220	MIN	11	ACFT	81200
WTR YR 1984	TOTAL	39495	MEAN	108	MAX	1310	MIN	13	ACFT	78340

09310500 FISH CREEK ABOVE RESERVOIR, NEAR SCOFIELD, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1983 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	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)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
NOV											
21...	1600	20	25	--	0.0	--	--	200	4.0	58	13
MAY											
23...	0820	1220	350	7.7	3.5	10.1	584	170	3.3	53	8.0
JUN											
15...	1100	328	380	7.7	8.0	--	--	200	4.0	64	10
JUL											
31...	1345	46	340	8.0	16.0	9.5	583	190	3.9	56	13

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
NOV											
21...	3.3	3	0.1	18	3.5	212	96	0.29	11.4	0.13	0.05
MAY											
23...	1.9	2	0.1	7.4	2.1	187	73	0.25	616	1.2	0.58
JUN											
15...	2.3	2	0.1	8.9	2.2	213	88	0.29	189	0.4	0.04
JUL											
31...	2.9	3	0.1	13	3.5	187	89	0.25	23.2	<0.1	0.05

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
NOV										
21...	0.06	0.7	0.7	0.7	3.1	0.02	0.06	0.02	<0.00	--
MAY										
23...	0.75	6.0	6.00	6.0	27	0.25	0.77	0.03	0.02	0.06
JUN										
15...	0.05	0.6	0.6	0.6	2.7	0.04	--	0.01	0.01	0.03
JUL										
31...	0.06	0.6	0.6	0.6	2.7	0.02	--	<0.01	<0.01	0.03

09310500 FISH CREEK ABOVE RESERVOIR, NEAR SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)
MAY 23...	0820	<1	<1	20	<10	20	<10
JUL 31...	1345	<1	1	9	<10	80	<10

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAY 23...	6.00	4.00	2	<0.1	50	30	20
JUL 31...	1.00	--	<1	0.8	10	--	<3.00

DATE	TIME	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
NOV 21...	1600	840	810	30	30	5	25
MAY 23...	0820	8200	8100	120	290	280	11
JUN 15...	1100	750	--	8.00	40	--	14
JUL 31...	1345	240	--	20	30	--	17

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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)
MAY 23...	0820	1220	3.5	792	2610

09310575 BOARDINGHOUSE CREEK AT MOUTH, NEAR SCOFIELD, UT

LOCATION.--Lat 39°39'00", long 111°09'18", in SE1/4NE1/4NE1/4 sec.32, T.13 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on left bank 800 ft above mouth and 5.2 mi south of Scofield.

DRAINAGE AREA.--2.04 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1982 to September 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 8,280 ft from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 236 ft^3/s about May 30, 1983, gage height, 5.10 ft from slope-area measurement of peak flow; minimum daily 0.66 ft^3/s several days during March and April, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 74 ft^3/s May 22; minimum daily, 0.78 ft^3/s Jan. 16.

REVISIONS.--The maximum gage height for period of record has been revised to 5.10 ft superseding figure published in the report for 1983.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.1	1.1	.94	.98	.95	1.0	2.2	18	6.6	2.4	2.1
2	1.3	1.1	1.2	.92	.97	.97	1.0	2.2	14	5.6	2.2	1.9
3	1.4	1.2	1.1	.93	.96	1.0	1.0	1.9	13	5.2	2.3	1.9
4	1.3	1.1	1.1	.95	.97	.95	1.0	2.1	11	5.2	2.2	1.9
5	1.4	1.1	1.1	.92	.96	.88	1.0	2.2	11	4.8	2.2	1.9
6	1.4	1.1	1.1	.97	.95	.89	1.1	2.2	12	4.8	2.2	1.9
7	1.4	1.2	1.2	1.0	1.0	.90	1.1	2.1	12	4.5	2.2	1.9
8	1.3	1.3	1.1	.96	.98	.88	1.1	2.6	12	4.3	2.2	1.9
9	1.3	1.1	.98	.97	.98	.97	1.3	3.8	12	3.9	2.1	1.9
10	1.3	1.1	1.0	.96	1.0	.95	1.2	5.6	11	3.8	2.1	1.9
11	1.2	1.1	.95	1.0	.98	.94	1.2	8.6	12	3.6	2.2	2.1
12	1.1	1.0	.94	.99	1.0	.94	1.3	14	13	3.6	2.1	1.9
13	1.2	.98	.94	.95	1.0	.93	1.4	22	13	3.6	2.1	1.8
14	1.2	.98	1.0	.96	.98	.96	1.6	30	13	3.4	2.2	1.9
15	1.2	.97	1.0	.89	.97	.95	2.1	27	12	3.3	2.4	1.9
16	1.2	1.0	.95	.78	.98	.93	3.1	12	11	3.3	2.3	1.9
17	1.1	1.1	.98	.89	.99	.92	3.8	11	11	3.1	2.1	1.8
18	1.1	1.1	.96	.85	.94	.96	4.5	11	11	3.1	2.1	1.8
19	1.1	1.1	.97	.88	.94	.91	4.2	12	11	3.0	3.4	1.8
20	1.0	1.0	.96	.93	.91	.93	3.3	12	11	2.8	2.3	2.1
21	1.1	1.1	.93	.89	.94	.95	2.8	30	10	2.8	2.1	2.6
22	1.0	1.1	.94	.92	.93	1.0	2.8	74	10	2.8	2.1	1.9
23	.97	1.0	.94	.96	.90	.97	3.1	46	9.5	2.8	2.1	1.9
24	.99	1.1	.93	.98	.91	.99	4.2	21	9.1	2.6	2.1	1.8
25	1.0	1.0	.95	.97	.94	1.0	4.5	20	8.6	2.7	2.3	1.8
26	1.1	1.0	1.0	.98	.92	1.1	3.6	9.8	8.6	3.1	1.9	1.8
27	1.1	1.1	1.0	1.0	.90	1.0	3.1	10	8.2	2.6	1.9	1.8
28	1.0	1.1	.98	1.0	.92	1.1	2.8	13	7.6	2.5	1.9	1.8
29	1.1	1.1	.96	.97	.95	1.1	2.6	13	7.1	2.4	1.9	1.8
30	1.1	1.0	.94	.96	---	1.1	2.4	14	6.6	2.6	2.0	1.8
31	1.1	---	.95	.96	---	1.1	---	17	---	2.4	2.1	---
TOTAL	36.66	32.33	31.15	29.23	27.75	30.12	69.2	454.3	329.3	110.8	67.7	57.2
MEAN	1.18	1.08	1.00	.94	.96	.97	2.31	14.7	11.0	3.57	2.18	1.91
MAX	1.6	1.3	1.2	1.0	1.0	1.1	4.5	74	18	6.6	3.4	2.6
MIN	.97	.97	.93	.78	.90	.88	1.0	1.9	6.6	2.4	1.9	1.8
ACFT	73	64	62	58	55	60	137	901	653	220	134	113

CAL YR 1983	TOTAL	1198.07	MEAN	3.28	MAX	39	MIN	.66	ACFT	2380
WTR YR 1984	TOTAL	1275.74	MEAN	3.49	MAX	74	MIN	.78	ACFT	2530

09310575 BOARDINGHOUSE CANYON AT MOUTH, NEAR SCOFIELD, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1983 to current year.
SEDIMENT DATA: June 1983 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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)
NOV										
22...	0930	1.0	530	8.2	--	0.0	--	--	--	280
MAY										
23...	1000	64	285	7.6	--	5.0	9.6	570	1.7	150
JUN										
15...	0930	12	305	7.1	--	5.0	--	--	--	170
JUL										
11...	1130	3.6	440	8.1	19.0	11.0	8.1	560	--	250
AUG										
01...	0940	2.4	480	7.9	--	9.5	9.1	572	--	280
28...	1130	2.1	560	8.2	18.5	11.0	8.3	560	--	290

DATE	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
NOV										
22...	5.6	73	24	3.4	3	0.1	--	36	3.9	--
MAY										
23...	3.0	44	10	2.5	3	0.1	1.3	19	2.8	0.1
JUN										
15...	3.5	50	12	2.7	3	0.1	--	22	3.0	--
JUL										
11...	4.9	66	20	3.1	3	0.1	1.5	33	3.9	0.2
AUG										
01...	5.6	74	23	3.4	3	0.1	--	41	4.6	--
28...	5.8	76	24	3.4	2	0.1	1.7	37	4.0	0.1

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
NOV										
22...	--	291	140	0.4	0.79	0.18	--	0.03	0.04	0.5
MAY										
23...	5.7	169	86	0.23	29.2	1.2	0.01	--	--	1.5
JUN										
15...	--	209	90	0.28	6.8	0.6	--	0.04	0.05	0.5
JUL										
11...	5.7	261	133	0.35	2.5	0.16	0.02	--	--	0.38
AUG										
01...	--	278	146	0.38	1.8	0.23	--	0.05	0.06	0.2
28...	6.3	287	153	0.39	1.6	0.14	0.02	--	--	0.18

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
NOV										
22...	0.5	--	--	0.5	2.2	0.07	0.21	0.00	<0.00	--
MAY										
23...	1.50	1.0	0.5	1.5	6.6	0.30	0.92	0.03	0.03	0.09
JUN										
15...	0.5	--	--	0.5	2.2	0.07	--	0.02	0.01	0.03
JUL										
11...	0.4	--	0.2	0.4	1.8	0.02	--	<0.01	--	--
AUG										
01...	<0.2	--	--	0.2	0.89	0.04	--	<0.01	0.01	0.03
28...	<0.2	--	<0.2	0.2	0.89	0.03	--	0.01	--	--

09310575 BOARDINGHOUSE CANYON AT MOUTH, NEAR SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)
MAY												
23...	1000	1	<1	<10.00	<1.00	10	<1	<1	20	<10	10	10
JUL												
11...	1130	--	--	--	--	20	--	--	--	--	--	--
AUG												
01...	0940	--	--	--	--	--	<1	<1	8	<10	60	--
28...	1130	<1	<1	<10.00	<1.00	30	<1	<1	<10	<10	3.00	--

DATE	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAY												
23...	2	7.00	<1	<0.1	<0.1	20	<1	<1	<1	70	60	7.00
JUL												
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	<10	<1.00	<1	<0.1	--	--	--	--	--	10	--	20
28...	1	>1.00	<1	0.3	<0.1	4.00	<1	<1	<1	<10	--	8.00

DATE	TIME	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
NOV							
22...	0930	530	520	10	30	10	18
MAY							
23...	1000	11000	11000	50	300	290	9
JUN							
15...	0930	880	--	40	40	--	6
JUL							
11...	1130	220	--	30	20	--	10
AUG							
01...	0940	430	--	20	20	--	13
28...	1130	290	--	10	20	--	10

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
MAY			
23...	1000	5.3	2.4
JUL			
11...	1130	1.8	0.3
AUG			
28...	1130	1.9	0.3

09310575 BOARDINGHOUSE CANYON AT MOUTH, NEAR SCOFIELD, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .125 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .250 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .500 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN 1.00 MM
NOV										
22...	0930	1.0	0.0	70	0.19	--	--	--	--	--
MAY										
23...	1000	64	5.0	1380	238	59	84	96	99	99
AUG										
19...	1520	10	--	5460	147	--	--	--	--	--
19...	1550	7.6	--	8540	175	--	--	--	--	--
19...	1620	7.1	--	7160	137	--	--	--	--	--
19...	1650	7.1	--	5350	103	--	--	--	--	--
19...	1820	4.8	--	1700	22	--	--	--	--	--
19...	1920	3.6	--	1060	10	--	--	--	--	--
19...	2050	3.1	--	849	7.1	--	--	--	--	--
19...	2220	5.2	--	1120	16	--	--	--	--	--
19...	2250	4.8	--	787	10	--	--	--	--	--
19...	2320	4.2	--	637	7.2	--	--	--	--	--
20...	0220	2.8	--	176	1.3	--	--	--	--	--
SEP										
11...	1415	2.1	--	200	1.1	--	--	--	--	--
11...	1445	2.2	--	192	1.1	--	--	--	--	--
11...	1515	2.2	--	182	1.1	--	--	--	--	--
11...	1545	2.2	--	134	0.8	--	--	--	--	--
11...	1615	2.2	--	116	0.69	--	--	--	--	--
11...	1745	2.2	--	79	0.47	--	--	--	--	--
11...	1945	2.1	--	125	0.71	--	--	--	--	--
11...	2245	2.1	--	62	0.35	--	--	--	--	--
12...	0145	1.9	--	39	0.2	--	--	--	--	--
20...	1635	2.2	--	122	0.72	--	--	--	--	--
20...	1735	2.2	--	52	0.31	--	--	--	--	--
20...	1835	2.1	--	65	0.37	--	--	--	--	--
20...	2105	1.9	--	54	0.28	--	--	--	--	--
20...	2205	1.9	--	105	0.54	--	--	--	--	--
21...	0005	2.6	--	172	1.2	--	--	--	--	--
21...	0105	2.6	--	502	3.5	--	--	--	--	--
21...	0205	3.6	--	149	1.4	--	--	--	--	--

09310600 ECCLES CANYON NEAR SCOFIELD, UT

LOCATION.--Lat 39°41'07", long 111°09'22", in NW1/4SW1/4SE1/4 sec.17, T.13 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on right bank about 0.4 mi upstream from State Highway 96, and 2.9 mi south of Scofield.

DRAINAGE AREA.--5.5 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to September 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 7,980 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--5 years, 4.70 ft^3/s, 3,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71 ft^3/s May 23, 1984, gage height, 1.85 ft; minimum, 0.62 ft^3/s Jan. 10, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 71 ft^3/s May 23, gage height, 1.85 ft; minimum daily, 1.6 ft^3/s Jan. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	2.2	2.2	2.5	2.4	2.9	2.1	6.0	30	8.3	4.1	3.7
2	2.9	2.2	2.5	2.2	2.3	2.4	2.0	7.8	27	7.8	3.9	3.4
3	4.0	2.4	2.3	2.5	2.4	2.2	1.9	6.0	24	7.6	4.1	3.2
4	2.5	2.2	2.4	2.7	2.5	2.1	1.9	7.3	22	6.9	4.1	3.4
5	3.0	2.2	2.3	2.3	2.4	2.0	2.2	6.6	23	6.4	3.7	3.4
6	2.9	2.1	2.2	2.5	2.3	2.2	2.7	6.4	28	6.0	3.9	3.2
7	2.7	2.5	2.5	2.7	2.6	2.5	2.7	7.3	26	5.4	3.7	3.4
8	2.5	2.7	2.7	2.3	2.1	2.3	2.9	8.1	25	5.2	4.1	3.2
9	2.5	2.0	2.2	2.4	2.8	2.5	3.9	12	22	5.2	3.9	3.4
10	2.5	2.2	2.2	2.3	2.7	2.3	3.1	15	21	5.4	3.6	3.7
11	2.2	2.2	2.1	2.7	2.5	2.2	3.7	20	20	5.0	3.7	3.7
12	2.1	2.1	2.2	2.5	2.7	2.1	3.4	29	20	5.2	3.7	3.2
13	2.4	2.0	2.1	2.1	2.7	2.0	4.1	37	23	5.2	3.9	3.2
14	2.5	1.9	2.5	2.2	2.5	2.5	4.2	41	20	4.6	4.1	3.1
15	2.5	1.9	2.4	2.0	2.3	2.2	4.8	48	20	4.6	4.1	3.0
16	2.2	2.7	2.3	1.6	2.4	2.1	6.2	46	18	4.8	3.7	3.4
17	2.2	2.2	2.5	1.8	2.7	2.1	8.6	40	16	4.6	3.4	3.2
18	2.2	2.2	2.5	1.7	2.4	2.2	7.8	39	16	4.4	3.4	3.2
19	2.2	2.1	2.7	1.9	2.2	2.0	8.1	40	16	4.4	6.0	3.2
20	2.0	2.0	2.5	2.0	2.1	2.1	5.8	44	15	4.4	4.2	3.5
21	2.2	2.0	2.1	1.9	2.2	2.2	5.2	50	14	4.4	4.1	4.3
22	2.1	2.2	2.5	2.0	2.4	2.4	5.6	52	13	5.0	3.9	3.7
23	1.8	2.0	2.4	2.2	2.2	2.1	8.3	58	12	4.4	3.6	3.1
24	1.8	2.2	2.3	2.5	2.5	2.2	8.3	66	12	4.6	3.4	3.7
25	2.0	2.2	2.4	2.5	2.7	2.3	9.3	58	12	4.6	3.9	4.2
26	2.2	2.1	2.4	2.5	2.4	2.7	7.6	52	11	5.0	3.6	3.4
27	2.1	2.1	2.5	2.2	2.3	2.3	8.1	42	10	3.9	3.4	3.2
28	2.0	2.2	2.2	2.3	2.4	2.0	6.2	37	9.3	3.9	3.1	3.4
29	2.2	2.4	2.1	2.3	2.5	2.3	6.0	33	9.3	4.6	2.9	3.2
30	2.2	2.1	2.2	2.2	---	2.5	6.2	34	9.1	4.8	3.2	3.2
31	2.2	---	2.4	2.1	---	2.4	---	32	---	4.6	3.2	---
TOTAL	75.3	65.5	72.8	69.6	70.6	70.3	152.9	980.5	543.7	161.2	117.6	102.1
MEAN	2.43	2.18	2.35	2.25	2.43	2.27	5.10	31.6	18.1	5.20	3.79	3.40
MAX	4.5	2.7	2.7	2.7	2.8	2.9	9.3	66	30	8.3	6.0	4.3
MIN	1.8	1.9	2.1	1.6	2.1	2.0	1.9	6.0	9.1	3.9	2.9	3.0
ACFT	149	130	144	138	140	139	303	1940	1080	320	233	203

CAL YR 1983	TOTAL	2400.6	MEAN	6.58	MAX	62	MIN	1.3	ACFT	4760
WTR YR 1984	TOTAL	2482.1	MEAN	6.78	MAX	66	MIN	1.6	ACFT	4920

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 1983 TO SEPTEMBER 1984

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)
NOV										
22...	1030	2.0	620	8.2	--	0.0	--	--	--	320
MAY										
23...	1200	53	290	7.6	--	5.5	9.8	585	0.86	160
JUN										
15...	1000	20	355	7.6	--	6.0	--	--	--	180
JUL										
11...	1300	5.2	520	8.1	21.0	12.5	7.9	570	--	280
AUG										
01...	1000	3.9	570	8.1	--	10.5	8.5	575	--	320
28...	1345	3.1	640	8.2	15.0	12.0	8.0	570	--	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)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
NOV										
22...	6.3	81	28	9.2	6	0.2	--	53	15	--
MAY										
23...	3.2	48	10	3.4	4	0.1	1.5	19	5.2	0.1
JUN										
15...	3.7	52	13	3.9	4	0.1	--	27	5.7	--
JUL										
11...	5.6	75	23	5.3	4	0.1	2.2	59	8.4	0.2
AUG										
01...	6.5	85	27	6.3	4	0.2	--	61	13	--
28...	6.3	79	28	6.0	4	0.2	2.6	69	9.3	0.2

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
NOV										
22...	--	355	186	0.48	1.9	0.25	--	0.06	0.08	0.7
MAY										
23...	6.0	182	93	0.25	26.0	0.16	<0.01	--	--	0.99
JUN										
15...	--	215	102	0.29	11.6	0.8	--	0.10	0.13	0.9
JUL										
11...	6.4	314	180	0.43	4.4	0.39	0.02	--	--	0.68
AUG										
01...	--	323	193	0.44	3.4	0.28	--	0.05	0.06	0.3
28...	7.4	278	202	0.38	2.3	0.16	0.02	--	--	0.28

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
NOV										
22...	0.7	--	--	0.7	3.1	0.04	0.12	0.01	<0.01	0.03
MAY										
23...	1.00	0.3	0.7	1.0	4.4	0.35	1.1	0.03	0.02	0.06
JUN										
15...	0.9	--	--	0.9	4.0	0.06	--	0.04	0.04	0.12
JUL										
11...	0.7	--	0.2	0.7	3.1	0.05	--	0.02	--	--
AUG										
01...	0.3	--	--	0.3	1.3	0.06	--	0.01	<0.01	0.03
28...	0.3	--	0.7	0.3	1.3	0.03	--	<0.01	--	--

09310600 ECCLES CANYON NEAR SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)
MAY									
23...	1200	<1	<1	<10.00	<1.00	20	<1	<1	20
JUL									
11...	1300	--	--	--	--	40	--	--	--
AUG									
01...	1000	--	--	--	--	--	<1	<1	5
28...	1345	<1	<1	<10.00	<1.00	40	<1	<1	<10

DATE	CHROMIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)
MAY									
23...	<10	20	10	2	8.00	6.00	2	<0.1	<0.1
JUL									
11...	--	--	--	--	--	--	--	--	--
AUG									
01...	<10	50	--	<10	<1.00	--	<1	<0.1	--
28...	<10	9.00	--	2	<1.00	--	2	<0.1	<0.1

DATE	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DIS-SOLVED (UG/L AS SE)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAY								
23...	20	20	2	<1	<1	80	50	30
JUL								
11...	--	--	--	--	--	--	--	--
AUG								
01...	--	--	--	--	--	20	--	5.00
28...	2.00	--	3	<1	<1	30	--	6.00

DATE	TIME	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DIS-SOLVED (UG/L AS MN)
NOV							
22...	1030	860	830	30	120	10	110
MAY							
23...	1200	12000	12000	50	360	340	21
JUN							
15...	1000	920	--	20	60	--	29
JUL							
11...	1300	350	--	10	80	--	64
AUG							
01...	1000	920	--	10	110	--	78
28...	1345	560	--	8.00	80	--	68

DATE	TIME	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
AUG												
28...	1345	2	<1.00	7.00	<10	3.00	6400	20	250	0.19	<1	30

09310600 ECCLES CANYON NEAR SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
MAY			
23...	1200	5.4	2.8
JUL			
11...	1300	2.0	0.2
AUG			
28...	1345	1.2	0.2

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT						
04...	1245	2.6	--	--	66	0.46
11...	1830	2.3	--	--	102	0.63
13...	1935	2.6	--	--	122	0.86
19...	1530	2.2	--	--	10	0.06
25...	1805	2.2	--	--	17	0.1
31...	1410	2.1	--	--	33	0.19
NOV						
07...	0955	2.0	--	--	110	0.59
15...	1505	1.9	--	--	63	0.32
22...	1030	2.0	0.0	--	68	0.37
22...	1610	2.2	--	--	75	0.45
29...	0825	2.5	--	--	77	0.52
DEC						
06...	1735	2.2	--	--	98	0.58
14...	1150	2.5	--	--	37	0.25
19...	1440	2.8	--	--	50	0.38
27...	1615	2.7	--	--	33	0.24
JAN						
03...	1140	2.5	--	--	40	0.27
10...	1405	2.3	--	--	57	0.35
17...	1145	1.8	--	--	22	0.11
23...	1355	2.2	--	--	33	0.2
31...	1455	2.1	--	--	109	0.62
FEB						
07...	1320	2.7	--	--	47	0.34
14...	1355	2.5	--	--	118	0.8
21...	1430	2.2	--	--	88	0.52
29...	1415	3.4	--	--	333	3.1
MAR						
06...	1445	2.2	--	--	286	1.7
13...	1505	2.0	--	--	68	0.37
20...	1735	2.1	--	--	1310	7.4
27...	1650	2.3	--	--	81	0.5
APR						
03...	1550	1.9	--	--	1070	5.5
10...	1700	3.1	--	--	175	1.5
16...	1505	9.9	--	--	1590	43
16...	1750	8.8	--	--	1320	31
30...	1120	6.4	--	--	323	5.6
MAY						
07...	2055	7.3	--	--	303	6.0
14...	1805	44	--	--	4640	551
21...	1915	60	--	--	2260	366
28...	1635	38	--	--	575	59
JUN						
04...	1020	22	--	--	1740	103
11...	1050	20	--	--	100	5.4
15...	1000	20	6.0	--	200	11
18...	1510	16	--	--	62	2.7
25...	2025	11	--	--	47	1.4
JUL						
02...	1645	7.6	--	--	25	0.51
09...	1820	5.0	--	--	11	0.15
11...	1300	5.2	12.5	44	20	0.28
16...	1405	5.0	--	--	27	0.36
23...	1630	4.6	--	--	391	4.9
30...	0940	4.4	--	--	102	1.2
AUG						
07...	1340	3.7	--	--	151	1.5
13...	1935	4.8	--	--	113	1.5

09310700 MUD CREEK BELOW WINTER QUARTERS CANYON, AT SCOFIELD, UT

LOCATION.--Lat 39°43'18", long 111°09'38", in SW1/4NE1/4 sec.5, T.13 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on left bank 1.3 mi upstream from mouth, 0.1 mi below Winter Quarters Canyon, 0.2 mi upstream from Scofield.

DRAINAGE AREA.--29.1 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1978 to September 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 7,720 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--6 years, 18.2 ft^3/s, 13,190 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 389 ft^3/s May 21, 1984, gage height, 3.30 ft; minimum, 1.4 ft^3/s Sept. 8, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 389 ft^3/s May 21, gage height 3.30 ft; minimum daily, 6.3 ft^3/s Jan. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	10	9.3	9.7	9.0	9.8	8.8	27	182	45	20	12
2	12	9.2	9.5	9.1	8.8	9.4	8.5	30	157	42	19	11
3	13	9.6	9.2	9.5	9.3	9.1	8.3	28	141	39	19	12
4	11	9.6	9.4	9.8	9.6	8.8	8.1	30	128	36	18	12
5	9.6	10	9.2	8.9	9.3	8.6	9.3	30	124	34	17	12
6	9.6	9.2	8.7	9.3	9.0	8.9	9.6	28	138	32	17	11
7	8.8	9.6	9.2	9.7	9.7	9.7	9.6	28	141	30	16	11
8	8.8	12	9.8	9.0	8.3	9.1	10	32	128	29	16	11
9	9.2	11	8.5	9.3	9.6	9.6	11	43	113	28	15	11
10	8.8	9.3	8.6	9.1	9.2	9.2	12	55	109	28	14	11
11	9.2	9.4	8.1	9.4	8.9	9.0	11	73	103	26	15	12
12	9.2	9.2	8.3	9.0	9.4	8.8	12	109	99	26	16	11
13	8.8	8.7	8.2	8.4	9.7	8.5	11	110	103	26	15	11
14	10	8.3	9.4	8.7	9.3	9.5	12	131	103	24	16	10
15	10	8.0	9.0	7.6	8.9	9.2	16	157	104	23	18	10
16	9.6	8.3	8.7	6.3	9.4	8.9	24	160	98	22	16	11
17	10	8.9	9.4	6.9	9.8	8.7	32	154	91	21	15	10
18	10	9.6	9.3	6.7	9.2	9.6	38	166	88	20	15	10
19	10	8.9	9.8	7.2	8.7	8.9	37	153	84	20	20	9.6
20	10	8.5	9.4	7.5	8.4	9.1	30	188	79	20	19	10
21	10	8.7	8.1	7.2	8.9	9.4	28	271	75	19	16	15
22	10	9.0	9.5	8.0	9.5	9.7	28	291	70	21	15	9.6
23	9.2	8.6	9.3	8.6	8.8	8.9	34	273	65	20	16	9.6
24	10	9.0	8.8	9.2	9.4	9.2	43	300	62	20	15	9.2
25	9.2	9.0	9.0	8.9	9.8	9.7	45	293	61	21	18	9.2
26	9.2	8.8	9.3	8.5	9.4	10	40	247	59	25	15	9.2
27	9.2	8.9	9.6	8.2	9.1	9.8	35	229	55	20	14	9.2
28	8.4	9.1	8.9	8.9	8.9	10	30	199	51	19	14	8.8
29	8.4	9.3	8.0	8.8	9.1	10	28	183	48	20	13	9.2
30	8.8	9.0	8.6	8.6	---	11	28	183	46	30	13	8.8
31	8.8	---	9.3	8.4	---	10	---	185	---	22	12	---
TOTAL	302.8	276.7	279.4	264.4	266.4	290.1	657.2	4386	2905	808	497	316.4
MEAN	9.77	9.22	9.01	8.53	9.19	9.36	21.9	141	96.8	26.1	16.0	10.5
MAX	14	12	9.8	9.8	9.8	11	45	300	182	45	20	15
MIN	8.4	8.0	8.0	6.3	8.3	8.5	8.1	27	46	19	12	8.8
ACFT	601	549	554	524	528	575	1300	8700	5760	1600	986	628

CAL YR 1983	TOTAL	9978.5	MEAN	27.3	MAX	291	MIN	3.4	ACFT	19790
WTR YR 1984	TOTAL	11249.4	MEAN	30.7	MAX	300	MIN	6.3	ACFT	22310

09310700 MUD CREEK BELOW WINTER QUARTERS CANYON, AT SCOFIELD, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to current year.
SEDIMENT DATA: December 1978 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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)
NOV										
22...	0830	9.0	580	8.1	--	0.0	--	--	--	310
MAY										
23...	1300	245	295	7.6	--	7.0	10.8	660	2.2	160
JUN										
15...	1030	104	365	7.6	--	6.5	--	--	--	170
JUL										
11...	1400	26	475	8.2	22.0	15.5	7.6	570	--	260
31...	1630	21	490	8.1	--	17.0	8.8	581	--	300
AUG										
28...	1530	13	570	8.1	25.5	18.5	7.1	570	--	280

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)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
NOV										
22...	6.3	83	26	9.9	6	0.3	--	52	14	--
MAY										
23...	3.1	47	9.5	3.4	4	0.1	1.6	19	4.7	0.1
JUN										
15...	3.5	50	12	4.0	5	0.1	--	21	5.6	--
JUL										
11...	5.2	71	20	5.4	4	0.2	1.9	45	8.3	0.2
31...	5.9	81	23	6.5	5	0.2	--	49	13	--
AUG										
28...	5.6	71	25	6.4	5	0.2	2.4	53	9.8	0.2

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
NOV										
22...	--	352	185	0.48	8.6	0.16	--	0.06	0.08	0.6
MAY										
23...	6.3	177	92	0.24	117	1.5	0.02	--	--	1.5
JUN										
15...	--	214	93	0.29	60.1	0.6	--	0.04	0.05	0.4
JUL										
11...	6.2	285	158	0.39	20.0	0.19	0.02	--	--	0.38
31...	--	304	173	0.41	17.2	0.18	--	0.04	0.05	0.3
AUG										
28...	7.1	275	175	0.37	9.7	<0.1	0.02	--	--	0.18

09310700 MUD CREEK BELOW WINTER QUARTERS CANYON, AT SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
NOV										
22...	0.6	--	--	0.6	2.7	0.02	0.06	0.02	<0.00	--
MAY										
23...	1.50	0.8	0.7	1.5	6.6	0.90	2.8	0.03	0.03	0.09
JUN										
15...	0.4	--	--	0.4	1.8	0.11	--	0.02	0.01	0.03
JUL										
11...	0.4	--	0.2	0.4	1.8	0.04	--	0.01	--	--
31...	0.3	--	--	0.3	1.3	0.12	--	0.01	0.01	0.03
AUG										
28...	<0.2	--	<0.2	0.2	0.89	0.03	--	<0.01	--	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)
MAY												
23...	1300	1	<1	<10.00	<1.00	20	<1	<1	30	<10	30	20
JUL												
11...	1400	--	--	--	--	30	--	--	--	--	--	--
31...	1630	--	--	--	--	--	<1	<1	<1	<10	40	--
AUG												
28...	1530	<1	<1	<10.00	<1.00	50	<1	<1	<10	<10	<1.00	--

DATE	COPPER, DISSOLVED (UG/L AS CU)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
MAY												
23...	3	20	<1	0.1	<0.1	30	<1	<1	<1	120	100	20
31...	<10	<1.00	4	0.5	--	--	--	--	--	10	--	<3.00
AUG												
28...	1	<1.00	<1	<0.1	<0.1	8.00	2	<1	<1	30	--	6.00

DATE	TIME	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)
NOV							
22...	0830	370	360	10	70	6	64
MAY							
23...	1300	20000	20000	100	490	470	17
JUN							
15...	1030	2000	--	50	70	--	17
JUL							
11...	1400	480	--	9.00	60	--	35
31...	1630	1500	--	6.00	80	--	34
AUG							
28...	1530	440	--	10	40	--	25

DATE	TIME	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
AUG												
28...	1530	<1	<1.00	3.00	<10	4.00	3200	20	70	0.14	<1	20

09310700 MUD CREEK BELOW WINTER QUARTERS CANYON, AT SCOFIELD, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
MAY			
23...	1300	6.2	>3.8
JUL			
11...	1400	3.4	0.3
AUG			
28...	1530	2.3	0.3

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-DIS-DIS-CHARGE, SUS-PENDED (T/DAY)
NOV						
22...	0830	9.0	0.0	--	107	2.6
MAY						
23...	1300	245	7.0	--	2150	1420
JUN						
15...	1030	104	6.5	--	207	58
JUL						
11...	1400	26	15.5	66	41	2.9
31...	1630	21	17.0	--	105	6.0
AUG						
28...	1530	13	18.5	69	20	0.7

09311000 SCOFIELD RESERVOIR NEAR SCOFIELD, UT

LOCATION.--Lat 39°47'15", long 111°07'30", in NW1/4SE1/4 sec.10, T.12 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on right bank 200 ft upstream from face of dam on Price River and 4.7 mi northeast of Scofield.

DRAINAGE AREA.--154 mi^2.

PERIOD OF RECORD.--October 1941, April 1942 to current year. Fragmentary records 1926-41 in files of Office of State Engineer.

REVISED RECORDS.--WSP 1089: 1946. WDR UT-77-1: Drainage area.

GAGE.--Staff gage read twice daily. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation). Prior to Nov. 8, 1945, at site 800 ft upstream 200 ft from old dam at datum 4.51 ft higher.

REMARKS.--Reservoir is formed by earth and rockfill; rock-faced dam 800 ft downstream from old dam in use prior to Nov. 8, 1945. Storage began in May 1926. Usable capacity of reservoir formed by new dam is 65,780 acre-ft between elevations 7,586.0 ft (bottom of outlet works) and 7,617.5 ft (crest of spillway). Dead storage, 8,000 acre-ft below elevation 7,586.0 ft. Figures given herein represent usable contents. Water used for irrigation in vicinity of Price.

COOPERATION.--Capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 77,280 acre-ft June 12, 13, 1983; elevation, 7,621.85 ft; minimum observed, 280 acre-ft Oct. 3, 1945; elevation, 7,586.25 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 72,060 acre-ft June 24, elevation, 7,619.7 ft; minimum observed, 36,300 acre-ft May 6-8, elevation, 7,601.7 ft.

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

7,601	24,830	7,615	58,870
7,605	33,600	7,619	70,040
7,610	45,720	7,620	72,930

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50090	40740	42960	46230	48540	a50350	---	27370	---	70910	a64380	58600
2	49830	40740	43210	46480	48790	a50350	---	26940	---	70620	64380	58320
3	49570	40980	43210	46480	48790	a50350	---	26730	---	70620	64100	58050
4	49310	40980	43460	46740	48790	50350	---	26730	---	70620	64100	57780
5	49050	41230	43460	46740	48790	---	---	26520	---	70330	63820	57510
6	48790	41230	43710	47000	49050	---	---	26300	---	70330	a63820	57240
7	48540	41230	43710	47000	49050	---	---	26300	---	70040	a63550	56970
8	48280	41480	43960	47000	49050	---	---	26300	---	a69760	63550	56700
9	48020	41480	43960	47250	49050	---	---	27800	---	a69470	63270	56430
10	47760	41480	43960	47250	49050	---	---	28450	---	a69190	63270	56160
11	47250	41480	43960	47250	49050	---	---	28670	---	a68900	62990	55900
12	47000	41480	44210	47510	49050	---	---	29990	---	a68620	62990	55630
13	46740	41480	44210	47510	49050	---	---	31550	---	a68330	62710	55360
14	46230	41480	44460	47510	49310	---	---	33830	---	a68040	62440	55090
15	45980	41720	44460	47510	49310	---	---	36170	---	67760	62440	54830
16	45720	41720	44710	47510	49310	---	---	38790	---	67190	62160	54560
17	45470	41720	44710	47760	49570	---	---	41230	---	66910	61880	54300
18	44960	41970	44710	47760	49570	---	---	43710	---	66350	61330	53760
19	44710	41970	44960	47760	a49570	---	---	46230	---	66350	61060	53760
20	44210	41970	44960	47760	a49570	---	---	---	---	66060	61060	53500
21	43710	42460	45220	48020	a49830	---	---	---	---	65780	60780	53230
22	43460	42460	45220	48020	a49830	---	---	---	---	a65500	60780	52970
23	43210	42460	45220	48020	49830	---	---	---	---	a65500	60510	52970
24	42960	42460	45470	48020	a49830	---	---	---	72060	a65220	60510	52710
25	42710	42710	45470	48280	50090	---	---	---	71770	a65220	60230	52710
26	42460	42710	45720	48280	a50090	---	---	---	71480	a64940	60230	52440
27	41970	42710	45720	48280	a50090	---	---	---	71480	a64940	59960	52180
28	41480	42710	45980	48280	a50090	---	---	---	71200	64660	59690	51920
29	41230	42960	45980	48540	a50090	---	27800	---	71200	64380	59410	51650
30	40980	42960	46230	48540	---	---	27590	---	70910	64380	59140	51650
31	40740	---	46230	48540	---	---	---	---	---	a64380	58870	---
MAX	50090	42960	46230	48540	---	---	---	---	---	---	---	58600
MIN	40740	40740	42960	46230	---	---	---	---	---	---	---	51650
(#)	7608.0	7608.9	7610.2	7611.1	---	---	7602.4	---	7619.3	---	7615.0	7612.3
(*)	-9610	+2220	+3270	+2310	+1550	---	---	---	---	-6530	-5510	-7220

CAL YR 1983 . . . . . (*) -7000
WTR YR 1984 . . . . . (*) +1300

(#) ELEVATION, IN FEET, AT END OF MONTH.
(*) CHANGE IN CONTENTS, IN ACRE-FEET.
(a) NO GAGE READING, CONTENTS INTERPOLATED.

09312600 WHITE RIVER BELOW TABBYUNE CREEK, NEAR SOLDIER SUMMIT, UT

LOCATION.--Lat 39°52'33", long 111°02'12", in NE1/4SE1/4SW1/4 sec.9, T.11 S., R.8 E., Utah County, Hydrologic Unit 14060007, 50 ft downstream from bridge on U.S. Highways 6-50, 1.5 mi downstream from Tabbyune Creek, 2.5 mi northwest of the Colton railroad siding, and 4.5 mi southeast of Soldier Summit.

DRAINAGE AREA.--75.6 mi^2.

PERIOD OF RECORD.--May 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,230 ft from topographic map.

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

AVERAGE DISCHARGE.--17 years, 32.5 ft^3/s, 23,550 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 962 ft^3/s May 27, 1983, gage height, 5.82 ft; no flow many days August and September 1977.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 18	2000	162	2.58
Apr. 25	1500	219	3.03
May 15	2300	*877	5.27

Minimum daily, 6.0 ft^3/s Jan. 17, 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	9.4	8.5	7.5	9.0	11	15	132	187	52	33	11
2	18	7.8	8.5	7.5	9.0	11	15	145	168	48	30	11
3	16	7.4	8.5	7.5	9.0	11	15	159	156	46	28	11
4	13	7.4	8.0	8.0	9.0	11	16	171	146	44	32	10
5	12	7.5	8.0	7.5	9.0	11	16	192	147	42	27	10
6	11	7.7	8.5	7.5	9.0	12	19	199	165	40	25	9.8
7	11	8.0	8.5	7.5	9.0	13	24	195	166	39	23	9.4
8	11	8.3	8.5	7.5	9.0	14	33	217	149	38	22	9.6
9	11	6.2	8.5	8.0	9.5	15	27	286	141	37	21	9.6
10	10	7.0	8.5	8.0	10	15	24	383	139	37	20	9.4
11	9.6	6.8	8.5	7.8	11	15	25	493	133	34	20	10
12	9.2	6.9	8.5	7.5	11	15	25	625	127	33	22	12
13	8.9	7.7	8.0	7.0	11	15	26	732	122	33	21	10
14	9.8	7.6	8.0	6.8	10	15	31	785	115	32	22	9.4
15	9.2	7.8	8.5	6.5	10	15	38	823	110	31	21	9.3
16	9.1	8.1	8.5	6.2	10	15	60	824	106	29	25	10
17	8.6	7.9	8.5	6.0	10	14	93	724	100	28	21	9.2
18	8.9	8.4	8.5	6.0	10	13	126	627	94	27	20	8.7
19	8.3	8.6	8.0	6.5	10	13	138	587	90	26	22	8.7
20	8.3	8.6	7.5	7.0	10	13	111	564	85	26	34	11
21	8.8	8.5	7.5	7.5	10	13	96	564	81	26	23	15
22	8.4	8.5	7.5	7.8	10	14	97	535	76	28	19	11
23	8.5	8.5	7.5	8.0	10	14	116	483	73	29	18	9.4
24	9.0	8.5	8.0	8.2	10	15	152	441	69	26	17	9.7
25	7.3	8.5	8.0	8.8	10	15	180	394	66	26	15	9.8
26	7.2	8.0	8.0	9.0	10	15	182	350	68	29	14	9.0
27	6.9	7.5	8.0	9.0	10	21	164	312	61	26	13	8.9
28	6.9	7.5	8.0	9.0	11	19	148	275	58	24	12	8.8
29	6.9	8.0	8.0	9.0	11	17	139	244	55	38	12	8.7
30	7.0	8.5	8.0	9.0	---	15	133	222	55	36	11	8.8
31	9.1	---	8.0	9.0	---	17	---	205	---	36	11	---
TOTAL	311.9	237.1	253.0	238.1	286.5	442	2284	12888	3308	1046	654	298.2
MEAN	10.1	7.90	8.16	7.68	9.88	14.3	76.1	416	110	33.7	21.1	9.94
MAX	23	9.4	8.5	9.0	11	21	182	824	187	52	34	15
MIN	6.9	6.2	7.5	6.0	9.0	11	15	132	55	24	11	8.7
ACFT	619	470	502	472	568	877	4530	25560	6560	2070	1300	591

CAL YR 1983	TOTAL	22521.5	MEAN	61.7	MAX	927	MIN	3.5	ACFT	44670
WTR YR 1984	TOTAL	22246.8	MEAN	60.8	MAX	824	MIN	6.0	ACFT	44130

09312700 BEAVER CREEK NEAR SOLDIER SUMMIT, UT

LOCATION.--Lat 39°49'50", long 110°58'07", in NW1/4SW1/4SW1/4 sec.30, T.11 S., R.9 E., Utah County, Hydrologic Unit 14060007, on left bank 0.5 mi upstream from mouth, 2.5 mi southeast of Colton, and 9.1 mi southeast of Soldier Summit.

DRAINAGE AREA.--26.1 mi^2.

PERIOD OF RECORD.--October 1960 to current year.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,200 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--24 years, 4.58 ft^3/s, 3,320 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 204 ft^3/s May 27, 1983, maximum gage height, 2.81 ft May 16, 1984; no flow for many days some years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 23 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 24	2200	30	1.93
May 16	0200	*163	2.81
May 21	2400	121	2.63

Minimum daily, 1.2 ft^3/s Jan. 13-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	2.1	2.2	1.6	1.8	2.5	2.7	14	48	13	6.4	2.6
2	7.5	2.0	2.2	1.5	1.8	2.5	2.5	15	44	12	5.4	2.6
3	5.9	2.0	2.2	1.5	1.8	2.5	2.7	18	41	11	5.1	5.8
4	4.2	1.9	2.2	1.5	1.8	2.5	3.0	20	39	11	5.5	6.3
5	3.2	1.9	2.2	1.5	1.8	2.6	3.1	20	40	10	5.2	2.9
6	2.9	1.9	2.2	1.5	1.8	2.7	3.1	21	44	9.7	4.8	2.7
7	2.7	1.9	2.2	1.5	1.8	2.8	3.0	20	51	9.3	4.4	2.5
8	2.6	2.4	2.2	1.5	1.8	2.9	3.2	23	44	8.6	4.1	2.5
9	2.6	1.9	2.1	1.5	1.9	3.0	3.3	31	40	8.3	3.8	2.6
10	2.4	2.1	2.0	1.5	2.0	3.0	3.7	42	38	7.8	3.6	2.5
11	2.3	2.0	2.0	1.4	2.1	3.0	3.5	53	36	7.4	3.6	1.6
12	2.2	2.3	1.9	1.3	2.1	3.0	3.9	70	34	7.5	3.9	1.5
13	2.0	2.4	1.8	1.2	2.1	3.0	3.7	91	32	7.6	3.9	1.3
14	2.3	2.3	1.6	1.2	2.1	3.0	4.0	101	30	7.5	4.0	1.4
15	2.3	1.8	1.5	1.2	2.0	3.0	4.4	113	29	7.2	3.9	1.6
16	2.2	2.1	1.5	1.2	2.0	3.0	5.4	113	27	6.8	4.5	1.7
17	2.2	2.7	1.5	1.2	2.0	2.9	10	99	25	6.5	3.8	2.2
18	2.1	2.3	1.5	1.2	2.0	2.7	15	94	23	6.2	3.5	4.8
19	2.1	2.2	1.5	1.2	2.0	2.7	16	90	23	6.0	3.7	4.5
20	2.0	2.5	1.5	1.2	2.0	2.7	13	90	22	5.9	4.5	4.1
21	2.0	2.2	1.5	1.2	2.0	2.7	12	106	21	6.0	4.0	3.6
22	1.9	2.0	1.5	1.4	2.0	2.7	12	103	19	6.4	3.5	2.9
23	1.9	2.0	1.5	1.5	2.0	2.7	14	91	18	6.6	3.4	1.7
24	1.9	2.0	1.6	1.7	2.0	2.7	21	86	17	6.3	3.7	1.6
25	1.9	2.0	1.7	1.8	2.0	2.7	23	79	17	6.2	3.8	1.7
26	1.9	2.0	1.7	1.8	2.0	2.8	18	73	17	6.4	3.9	1.7
27	1.9	2.0	1.7	1.8	2.3	3.0	16	67	15	7.8	3.2	2.3
28	1.8	2.0	1.7	1.8	2.5	2.9	14	63	14	6.9	2.9	1.5
29	1.8	2.0	1.7	1.8	2.5	2.8	14	59	13	7.3	2.7	1.3
30	1.7	2.2	1.7	1.8	---	2.6	14	56	12	9.6	2.7	2.0
31	1.9	---	1.7	1.8	---	2.8	---	54	---	8.5	2.6	---
TOTAL	88.3	63.1	56.0	45.8	58.0	86.4	267.2	1975	873	247.3	124.0	78.0
MEAN	2.85	2.10	1.81	1.48	2.00	2.79	8.91	63.7	29.1	7.98	4.00	2.60
MAX	12	2.7	2.2	1.8	2.5	3.0	23	113	51	13	6.4	6.3
MIN	1.7	1.8	1.5	1.2	1.8	2.5	2.5	14	12	5.9	2.6	1.3
ACFT	175	125	111	91	115	171	530	3920	1730	491	246	155

CAL YR 1983	TOTAL	5195.89	MEAN	14.2	MAX	188	MIN	.05	ACFT	10310
WTR YR 1984	TOTAL	3962.1	MEAN	10.8	MAX	113	MIN	1.2	ACFT	7860

09312800 WILLOW CREEK NEAR CASTLE GATE, UT

LOCATION.--Lat 39°46'37", long 110°47'30", in SW1/4SE1/4SW1/4 sec.15, T.12 S., R.10 E., Carbon County, Hydrologic Unit 14060007, on right bank 130 ft upstream from Deep Canyon, 170 ft east of State Highway 33, 1.5 mi downstream from junction with two major tributaries, 5.1 mi northeast of Castle Gate, 5.4 mi upstream from mouth, and 12.3 mi north of Price.

DRAINAGE AREA.--62.8 mi^2.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,000 ft from topographic map.

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

AVERAGE DISCHARGE.--22 years, 9.58 ft^3/s, 6,940 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 836 ft^3/s Aug. 6, 1973, gage height, 6.47 ft from floodmarks; no flow on many days.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 01	1400	*179	3.31
May 15	1000	167	3.22
June 07	0300	102	2.91
Aug. 18	1800	106	2.91

Minimum, 0.78 ft^3/s Nov. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	5.4	4.0	3.0	4.0	5.5	12	36	34	12	8.5	4.8
2	25	5.0	4.0	3.0	4.0	5.5	11	37	32	11	7.8	4.9
3	13	5.0	4.0	3.0	4.0	5.5	11	50	31	11	7.2	4.8
4	9.7	5.0	4.0	3.0	4.0	5.5	12	56	30	10	6.8	4.7
5	8.3	4.0	4.0	3.0	4.0	5.5	13	56	29	9.6	6.7	4.5
6	7.4	4.7	4.0	3.0	4.0	5.8	15	54	37	9.5	6.4	4.2
7	7.1	4.7	4.0	3.0	4.0	6.0	17	54	49	9.3	6.0	4.1
8	6.9	5.7	4.0	3.0	4.0	6.4	21	58	31	9.3	5.7	4.2
9	6.6	4.2	4.0	3.0	4.5	6.8	23	65	28	9.5	5.5	4.1
10	6.3	4.7	4.0	2.8	4.8	7.0	23	74	26	8.8	5.4	4.0
11	6.3	4.2	4.0	2.6	5.0	7.0	20	82	24	8.3	5.4	4.9
12	6.1	4.2	3.4	2.5	5.0	7.0	22	92	23	8.1	5.4	5.1
13	6.3	5.0	3.2	2.3	5.0	7.0	22	107	21	8.5	5.3	4.5
14	6.7	4.2	3.0	2.2	5.0	7.0	28	117	20	9.2	5.8	4.2
15	6.3	3.1	2.8	2.2	5.0	7.0	40	145	20	8.8	5.3	4.1
16	6.0	4.7	2.8	2.2	4.5	7.0	51	119	20	7.8	14	14
17	5.9	3.6	2.8	2.2	4.5	6.5	60	102	19	7.4	6.0	8.7
18	5.8	4.2	2.8	2.2	4.5	6.5	58	85	18	6.8	19	5.3
19	5.7	3.1	2.8	2.2	4.5	6.5	42	82	18	8.4	26	4.9
20	5.5	3.4	2.8	2.2	4.5	6.5	25	80	17	7.4	20	5.1
21	5.4	3.3	2.8	2.3	4.5	6.5	19	82	16	9.4	10	12
22	5.4	3.3	2.8	2.6	4.5	6.5	34	73	15	20	7.3	5.6
23	5.4	3.3	2.8	3.0	4.5	6.5	43	69	15	13	8.3	4.8
24	5.5	3.3	3.1	3.3	4.5	7.2	53	65	14	8.2	7.2	4.6
25	5.0	3.3	3.5	3.8	4.5	8.0	51	59	14	15	8.0	4.6
26	4.7	3.3	3.5	4.0	5.0	8.5	40	53	15	9.3	6.3	4.5
27	4.4	3.3	3.5	4.0	5.5	9.0	38	47	14	8.6	5.8	4.4
28	4.4	3.3	3.5	4.0	5.5	10	35	43	13	8.2	5.4	4.2
29	4.7	3.3	3.5	4.0	5.5	11	34	40	12	10	5.1	4.2
30	4.7	3.7	3.5	4.0	---	12	35	38	13	27	5.0	4.2
31	5.0	---	3.5	4.0	---	11	---	36	---	12	4.9	---
TOTAL	275.5	121.5	106.4	91.6	132.8	223.7	908	2156	668	321.4	251.5	158.2
MEAN	8.89	4.05	3.43	2.95	4.58	7.22	30.3	69.5	22.3	10.4	8.11	5.27
MAX	70	5.7	4.0	4.0	5.5	12	60	145	49	27	26	14
MIN	4.4	3.1	2.8	2.2	4.0	5.5	11	36	12	6.8	4.9	4.0
ACFT	546	241	211	182	263	444	1800	4280	1320	637	499	314

CAL YR 1983	TOTAL	11798.7	MEAN	32.3	MAX	335	MIN	1.5	ACFT	23400
WTR YR 1984	TOTAL	5414.6	MEAN	14.8	MAX	145	MIN	2.2	ACFT	10740

09313975 SOLDIER CREEK BELOW MINE, NEAR WELLINGTON, UT

LOCATION.--Lat 39°41'43", long 110°36'52", in NW1/4NW1/4SE1/4 sec.18, T.13 S., R.12 E., Carbon County, Hydrologic Unit 14060007, on right bank 16 mi upstream from mouth, 0.4 mi downstream from Soldier Creek Mine, 14 mi northeast of Wellington.

DRAINAGE AREA.--17.7 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1978 to September 1984 (seasonal records) (discontinued).

REVISED RECORDS.--WDR UT-81-1: 1979, 1980.

GAGE.--Water-stage recorder. Altitude of gage is 6,650 ft from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 472 ft^3/s Sept. 23, 1981, gage height, 4.50 ft; minimum, 0.08 ft^3/s Aug. 5, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 281 ft^3/s July 21, gage height, 3.74 ft; minimum recorded, 0.36 ft^3/s Apr. 4, may have been lower during period of nonoperation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	1.9				---	3.5	11	9.6	4.0	2.4	.90
2	4.7	2.7				---	4.1	12	9.3	4.2	2.6	.80
3	4.4	2.6				---	3.6	12	9.2	4.1	2.4	.80
4	3.8	2.4				---	3.7	12	9.3	3.5	4.2	1.1
5	4.0	1.6				---	4.3	11	10	3.8	3.9	1.0
6	4.1	1.6				---	4.2	10	12	3.3	3.6	1.0
7	4.2	2.2				---	4.4	10	13	3.2	3.0	1.0
8	3.9	---				---	5.1	10	7.8	3.2	2.8	.90
9	3.6	---				---	4.5	11	6.9	6.5	2.7	.90
10	3.7	---				---	5.1	11	6.7	3.5	2.6	1.0
11	3.8	---				---	4.3	12	6.7	2.6	2.8	1.5
12	3.6	---				---	3.8	12	6.8	2.4	2.7	1.2
13	3.7	---				---	4.2	12	6.5	3.1	2.6	1.2
14	3.0	---				---	4.7	13	6.3	3.2	3.8	1.2
15	2.5	---				---	5.7	14	6.0	2.6	3.0	1.1
16	2.3	---				---	11	13	5.5	2.7	4.4	1.2
17	2.9	---				---	15	13	5.4	2.8	1.1	1.2
18	3.0	---				---	20	13	5.6	2.2	.90	1.2
19	2.4	---				---	15	12	5.5	2.6	1.8	1.1
20	2.3	---				---	12	12	5.7	2.2	2.1	1.2
21	2.3	---				---	11	12	5.3	20	1.2	1.3
22	2.1	---				---	12	12	5.3	5.0	1.0	1.1
23	2.2	---				---	13	11	4.6	3.6	3.6	1.0
24	2.0	---				---	14	11	4.5	3.0	1.2	.90
25	2.0	---				---	12	11	4.8	17	4.0	1.0
26	2.2	---				---	11	10	5.4	6.5	1.1	.90
27	2.6	---				---	12	10	4.6	3.5	1.0	.86
28	2.0	---				---	11	9.9	4.8	3.2	.90	.83
29	1.9	---				4.1	9.9	10	4.4	2.6	1.0	.80
30	1.9	---				3.6	10	9.7	4.2	2.7	.90	.90
31	1.9	---				3.3	---	10	---	2.8	.90	---
TOTAL	98.0	---				---	254.1	352.6	201.7	135.6	72.20	31.09
MEAN	3.16	---				---	8.47	11.4	6.72	4.37	2.33	1.04
MAX	9.0	---				---	20	14	13	20	4.4	1.5
MIN	1.9	---				---	3.5	9.7	4.2	2.2	.90	.80
ACFT	194	---				---	504	699	400	269	143	62

09313975 SOLDIER CREEK BELOW MINE, NEAR WELLINGTON, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to August 1984 (discontinued).
SEDIMENT DATA: November 1978 to September 1981, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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)
JUN 12...	1415	6.5	700	8.5	25.5	16.5	7.5	598	300	6.0	50
JUL 10...	1445	3.8	860	8.4	27.0	21.0	7.4	601	270	5.3	42
AUG 15...	1400	2.9	780	8.6	30.0	21.0	6.7	602	190	3.8	37

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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
JUN 12...	43	44	24	1.1	2.0	84	11	0.3	8.0	384	242
JUL 10...	39	99	44	2.7	7.1	78	17	0.7	8.5	491	292
AUG 15...	23	110	55	3.6	6.8	64	18	0.7	7.3	450	268

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA 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, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
JUN 12...	0.52	6.7	<0.1	0.01	0.39	0.4	0.4	0.4	1.8	0.04	0.01
JUL 10...	0.67	5.0	<0.1	0.11	0.69	0.8	0.8	0.8	3.5	0.28	<0.01
AUG 15...	0.61	3.5	0.17	0.49	7.0	7.50	0.6	7.5	33	2.90	0.02

GREEN RIVER BASIN

09313975 SOLDIER CREEK BELOW MINE, NEAR WELLINGTON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)
JUN 12...	1415	<1	<1	<10.00	<1.00	70	<1	<1	<10
JUL 10...	1445	--	--	--	--	200	--	--	--
AUG 15...	1400	11	2	<10.00	<1.00	210	<1	<1	200

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL 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)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
JUN 12...	<10	5.00	<1	800	8.00	<1.00	4	40	9
JUL 10...	--	--	--	6600	10	--	--	230	9
AUG 15...	<10	150	3	63000	20	40	2	1900	20

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
JUN 12...	0.2	<0.1	10	4	1	<1	20	40
JUL 10...	--	--	--	--	--	--	--	--
AUG 15...	0.7	0.2	90	13	<1	<1	460	10

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
JUN 12...	1415	3.0	0.2
JUL 10...	1445	2.5	1.5
AUG 15...	1400	5.5	>4.0

09314250 PRICE RIVER BELOW MILLER CREEK, NEAR WELLINGTON, UT

LOCATION.--Lat 39°26'59", long 110°37'38", in NE1/4SE1/4NE1/4 sec.12, T.16 S., R.11 E., Emery County, Hydrologic Unit 14060007, on left bank 100 ft downstream from highway bridge, and 8.5 mi southeast of Wellington.

DRAINAGE AREA.--956 mi^2.

PERIOD OF RECORD.--April 1972 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,150 ft from topographic map.

REMARKS.--Records poor. Diversions for irrigation above station. Flow affected by storage in Scofield Reservoir.

AVERAGE DISCHARGE.--12 years, 134 ft^3/s, 97,080 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,880 ft3/s Sept. 11, 1975, gage height, 9.97 ft from floodmark; minimum, 0.68 ft^3/s June 30, July 1, 2, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 01	2100	*2,340	10.06
Apr. 25	0800	976	6.12
May 16	1200	1,960	8.53
June 07	1200	1,840	8.72
July 01	0430	911	6.04
July 27	0300	1,310	7.33
Aug. 17	0030	1,490	7.86
Aug. 20	0400	2,140	9.53
Aug. 23	2400	1,400	7.58
Sep. 11	2300	1,600	8.17

Minimum daily, 40 ft^3/s Jan. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	945	157	53	52	52	59	440	649	1390	350	220	160
2	728	102	52	51	53	57	440	655	1390	330	160	160
3	364	83	53	52	50	63	430	690	1390	270	140	160
4	307	80	54	53	53	59	415	750	1360	240	130	150
5	289	78	52	55	54	54	425	760	1310	220	200	130
6	281	76	48	57	54	57	430	780	1290	230	115	110
7	280	73	50	56	58	61	440	740	1630	190	110	90
8	283	69	52	54	54	66	430	660	1520	185	100	105
9	280	68	57	49	50	71	460	580	1460	175	80	98
10	275	64	64	48	51	77	440	620	1270	170	77	100
11	270	63	76	50	55	80	460	780	1220	162	76	261
12	270	63	84	48	51	76	430	900	1140	145	78	282
13	270	64	82	47	53	77	410	1150	1070	150	86	138
14	274	65	85	49	59	84	410	1410	1000	152	92	126
15	261	57	81	46	49	82	470	1700	926	155	103	113
16	277	54	70	42	51	82	515	1870	870	164	246	106
17	264	54	72	48	53	80	580	1710	900	130	358	238
18	259	55	74	43	52	88	696	1500	780	142	164	117
19	246	49	72	40	52	90	775	1300	740	144	180	107
20	246	48	68	44	49	170	708	1200	780	148	670	105
21	240	68	49	46	54	248	650	1150	680	168	330	195
22	239	74	60	49	52	224	635	1150	591	330	280	140
23	238	71	66	50	49	244	663	1060	565	311	253	126
24	233	62	66	50	51	283	741	986	500	159	375	116
25	224	62	68	50	54	364	876	928	430	178	270	123
26	228	61	68	55	53	407	755	880	400	192	250	124
27	226	55	72	49	51	420	695	953	380	440	230	127
28	222	54	67	50	53	430	672	1040	350	215	210	123
29	222	53	47	54	54	395	648	1120	340	200	190	120
30	221	55	50	52	---	410	649	1280	290	210	180	129
31	219	---	54	50	---	410	---	1320	---	290	170	---
TOTAL	9181	2037	1966	1539	1524	5368	16788	32271	27962	6545	6123	4179
MEAN	296	67.9	63.4	49.6	52.6	173	560	1041	932	211	198	139
MAX	945	157	85	57	59	430	876	1870	1630	440	670	282
MIN	219	48	47	40	49	54	410	580	290	130	76	90
ACFT	18210	4040	3900	3050	3020	10650	33300	64010	55460	12980	12140	8290

CAL YR 1983	TOTAL	154350	MEAN	423	MAX	2810	MIN	26	ACFT	306200
WTR YR 1984	TOTAL	115483	MEAN	316	MAX	1870	MIN	40	ACFT	229100

09314280 DESERT SEEP WASH NEAR WELLINGTON, UT

LOCATION.--Lat 39°25'16", long 110°38'44", in NW1/4SW1/4NW1/4 sec.24, T.16 S., R.11 E., Emery County, Hydrologic Unit 14060007, on left bank 2,000 ft above mouth, and 9.5 mi southeast of Wellington.

DRAINAGE AREA.--191 mi^2.

PERIOD OF RECORD.--May 1972 to current year.

REVISED RECORDS.--WDR UT-77-1: 1972-76. WDR UT-80-1: 1979, 1978-79(M).

GAGE.--Water-stage recorder. Altitude of gage is 5,235 ft from topographic map.

REMARKS.--Records good except the winter period, Dec. 1 to Mar. 28, which are poor. Diversions above station for irrigation and storage in Desert Lake.

AVERAGE DISCHARGE.--12 years, 27.5 ft^3/s, 19,920 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,060 ft^3/s July 24, 1977, gage height, 10.00 ft from floodmarks from rating curve extended above 70 ft^3/s on basis of slope-area measurements; no flow July 15-17, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 150 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 02	1930	390	4.98
July 01	0500	270	3.94
July 25	0500	354	4.53
Aug. 05	2030	*590	5.59
Aug. 23	2100	434	5.21

Minimum daily, 8.0 ft^3/s Jan. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	214	45	31	18	12	13	33	44	51	131	102	80
2	230	47	31	18	13	11	29	49	44	64	81	62
3	172	53	31	18	11	12	33	47	49	65	78	62
4	123	56	32	20	12	11	44	48	48	61	77	57
5	105	55	29	22	12	11	50	49	49	56	122	47
6	97	47	26	24	12	12	45	57	44	61	101	36
7	95	40	26	23	13	13	32	53	85	54	79	45
8	92	41	27	23	11	14	29	46	82	54	73	37
9	89	40	28	22	10	16	27	40	75	59	70	40
10	80	38	29	21	10	17	25	33	86	54	68	45
11	68	39	31	22	12	18	24	31	93	53	61	49
12	62	43	28	20	10	14	25	36	104	57	59	55
13	61	45	27	18	11	14	73	33	108	59	59	45
14	66	46	26	20	13	15	72	34	109	65	73	50
15	63	47	24	18	10	16	64	51	111	61	77	58
16	58	48	26	16	11	16	54	42	111	52	72	59
17	55	55	27	18	12	15	74	32	108	47	89	59
18	54	65	28	13	12	14	78	33	104	42	70	55
19	49	73	29	8.0	12	13	80	31	104	39	74	55
20	41	65	27	11	11	16	83	32	100	41	76	57
21	41	64	22	11	13	25	78	33	93	45	85	62
22	42	58	25	12	12	18	71	37	77	41	91	67
23	44	51	28	12	11	14	68	38	69	39	146	65
24	42	46	28	12	11	22	70	38	66	43	194	68
25	39	43	29	12	13	24	76	41	63	90	102	75
26	42	43	28	14	12	19	69	39	65	75	107	80
27	39	39	29	12	12	10	65	34	63	91	95	79
28	44	39	27	13	13	12	63	36	60	99	101	73
29	44	33	12	14	13	23	58	35	59	101	97	65
30	42	32	16	13	---	28	50	36	60	108	87	63
31	43	---	19	11	---	31	---	41	---	119	82	---
TOTAL	2336	1436	826	509.0	340	507	1642	1229	2340	2026	2748	1750
MEAN	75.4	47.9	26.6	16.4	11.7	16.4	54.7	39.6	78.0	65.4	88.6	58.3
MAX	230	73	32	24	13	31	83	57	111	131	194	80
MIN	39	32	12	8.0	10	10	24	31	44	39	59	36
ACFT	4630	2850	1640	1010	674	1010	3260	2440	4640	4020	5450	3470

CAL YR 1983	TOTAL	18907.2	MEAN	51.8	MAX	230	MIN	8.6	ACFT	37500
WTR YR 1984	TOTAL	17689.0	MEAN	48.3	MAX	230	MIN	8.0	ACFT	35090

GREEN RIVER BASIN

09314340 GRASSY TRAIL CREEK AT SUNNYSIDE, UT

LOCATION.--Lat 39°33'20", long 110°22'46", in NE1/4NW1/4NW1/4 sec.5, T.15 S., R.14 E., Carbon County, Hydrologic Unit 14060007, on left bank 13 mi upstream from mouth, 0.1 mi downstream from Slaughter Canyon in Sunnyside.

DRAINAGE AREA.--40.1 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to September 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,540 ft from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--6 years, 9.89 ft^3/s, 7,170 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 631 ft^3/s May 31, 1983, gage height, 5.40 ft; no flow several days in February 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 160 ft^3/s May 15, gage height, 3.65 ft; minimum daily, 1.2 ft^3/s Sept. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	4.3	3.8	4.0	4.6	4.4	3.4	8.3	20	7.4	4.6	2.5
2	7.8	5.0	4.2	4.0	4.9	3.7	3.3	8.1	19	7.0	4.7	2.4
3	7.7	5.1	4.2	3.3	4.4	3.8	2.8	7.8	19	6.8	4.8	2.2
4	6.7	5.0	4.0	2.2	3.6	3.7	2.9	8.0	18	6.8	5.0	2.2
5	6.8	4.5	4.5	2.8	3.7	4.5	3.1	8.1	20	5.8	5.2	2.2
6	6.8	5.2	4.3	4.1	4.1	4.5	3.3	8.1	22	5.9	4.4	2.1
7	6.7	5.1	4.2	4.7	4.9	4.1	3.9	8.0	26	4.6	4.3	2.3
8	6.6	4.9	3.6	4.8	4.9	4.2	3.8	8.1	23	4.8	4.1	2.8
9	6.5	4.5	3.8	4.9	4.8	4.4	3.6	8.0	21	5.1	4.3	2.8
10	6.5	4.2	3.9	4.7	5.1	4.3	3.7	7.8	20	4.3	3.7	2.6
11	6.5	4.5	3.8	5.1	4.9	4.4	3.9	8.0	19	5.4	3.4	2.8
12	6.4	4.5	3.7	4.8	5.4	4.1	3.7	7.4	18	5.7	3.2	2.7
13	6.5	4.6	3.9	4.5	5.9	4.2	4.2	21	16	5.7	3.1	2.6
14	6.6	4.6	4.4	4.7	5.9	4.2	4.9	59	15	7.4	3.2	2.8
15	6.6	4.5	4.1	4.2	6.0	4.1	5.4	82	15	7.0	3.1	3.1
16	6.6	4.5	3.9	4.0	5.9	4.4	5.4	72	14	4.7	3.2	3.4
17	5.8	4.5	4.0	4.1	6.0	4.3	4.6	60	14	4.3	3.1	3.4
18	3.8	4.8	4.1	3.6	6.0	4.3	5.9	38	13	5.1	3.0	2.9
19	3.8	4.3	3.9	2.9	8.0	3.7	7.0	44	13	5.0	3.3	2.2
20	3.8	4.6	4.0	3.1	7.6	3.8	6.9	44	12	3.9	4.8	2.3
21	3.6	4.5	3.8	3.4	6.8	3.2	6.1	38	12	2.8	4.5	3.2
22	3.8	4.0	3.7	3.5	5.9	3.2	6.1	39	7.9	2.9	3.4	3.2
23	3.9	7.6	4.0	3.7	6.9	3.0	6.0	35	9.1	4.2	3.2	3.1
24	4.1	4.3	3.9	3.8	6.4	3.6	6.3	31	8.4	5.3	3.2	2.9
25	4.2	4.5	4.2	3.9	5.4	3.6	6.6	31	7.2	5.2	4.3	2.3
26	4.2	4.0	4.1	3.9	5.1	3.3	6.9	29	8.0	5.7	3.7	2.3
27	4.0	4.5	4.1	4.0	6.9	3.1	8.1	25	7.6	5.6	3.7	2.1
28	4.3	4.5	3.4	3.9	4.9	3.0	8.4	23	8.7	5.9	2.8	1.3
29	4.3	4.0	3.3	4.2	4.4	3.0	8.3	21	9.2	5.3	2.4	1.2
30	4.3	4.2	3.8	4.1	---	3.3	8.4	20	8.4	4.9	2.4	1.2
31	4.2	---	4.0	4.1	---	3.3	---	20	---	4.8	2.2	---
TOTAL	174.4	139.3	122.6	123.0	159.3	118.7	156.9	827.7	443.5	165.3	114.3	75.1
MEAN	5.63	4.64	3.95	3.97	5.49	3.83	5.23	26.7	14.8	5.33	3.69	2.50
MAX	11	7.6	4.5	5.1	8.0	4.5	8.4	82	26	7.4	5.2	3.4
MIN	3.6	4.0	3.3	2.2	3.6	3.0	2.8	7.4	7.2	2.8	2.2	1.2
ACFT	346	276	243	244	316	235	311	1640	880	328	227	149

CAL YR 1983	TOTAL	9002.06	MEAN	24.7	MAX	349	MIN	.40	ACFT	17860
WTR YR 1984	TOTAL	2620.1	MEAN	7.16	MAX	82	MIN	1.2	ACFT	5200

09314340 GRASSY TRAIL CREEK AT SUNNYSIDE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to August 1984 (discontinued).
SEDIMENT DATA: December 1978 to September 1981, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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)
JUN 12...	1115	18	790	8.5	24.0	11.5	8.3	600	290	5.7	50
JUL 10...	1200	4.7	690	8.4	28.5	15.5	7.7	604	310	6.2	50
AUG 15...	1130	3.2	940	8.5	32.0	18.5	7.1	605	290	5.8	41

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	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)
JUN 12...	39	78	37	2.1	1.8	140	7.3	0.3	15	479	332
JUL 10...	45	43	23	1.1	1.5	110	5.8	0.2	14	400	270
AUG 15...	45	110	45	2.9	2.4	200	11	0.3	12	--	422

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA 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, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
JUN 12...	0.65	23.3	<0.1	0.01	0.39	0.4	0.4	0.4	1.8	0.01	<0.01
JUL 10...	0.54	5.1	<0.1	0.02	0.18	<0.2	<0.2	0.2	0.89	0.03	0.01
AUG 15...	0.57	3.6	<0.1	<0.01	0.29	0.3	<0.2	0.3	1.3	0.01	0.01

09314340 GRASSY TRAIL CREEK AT SUNNYSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)
JUN 12...	1115	<1	<1	<10.00	<1.00	70	<1	<1	<10
JUL 10...	1200	--	--	--	--	50	--	--	--
AUG 15...	1130	<1	<1	<10.00	<1.00	100	<1	<1	<10

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL 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)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
JUN 12...	<10	7.00	2	530	6.00	3.00	<1	30	4
JUL 10...	--	--	--	440	10	--	--	10	2
AUG 15...	<10	2.00	2	150	9.00	<1.00	1	<10	3

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
JUN 12...	0.3	<0.1	10	4	<1	<1	70	10
JUL 10...	--	--	--	--	--	--	--	--
AUG 15...	0.2	0.2	2.00	1	<1	<1	<10	20

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	PHENOLS (UG/L)
JUN 12...	1115	2.4	0.2	--
JUL 10...	1200	2.8	1.3	<1
AUG 15...	1130	2.6	0.3	3

09314500 PRICE RIVER AT WOODSIDE, UT

LOCATION.--Lat 39°15'50", long 110°20'45", in SW1/4SE1/4SE1/4 sec.9, T.18 S., R.14 E., Emery County, Hydrologic Unit 14060007, on left downstream wingwall of old highway bridge, 200 ft downstream from railroad bridge at Woodside, and 16.3 mi upstream from mouth.

DRAINAGE AREA.--1,540 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1909 to December 1910, January to August 1911 (gage heights only), November 1945 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,600 ft by barometer. September 1909 to August 1911, reference point at site about 100 ft upstream at different datum. Nov. 27, 1945 to Oct. 16, 1954, water-stage recorder at site 15 ft downstream at datum 1.85 ft higher.

REMARKS.--Records fair. Diversions above station for irrigation of about 18,000 acres. Flow affected by storage in Scofield Reservoir, usable capacity, 65,780 acre-ft, since 1926 (see station 09311000).

AVERAGE DISCHARGE.--38 years, 122 ft^3/s, 88,390 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,720 ft^3/s Sept. 11, 1980, gage height, 11.16 ft, from rating curve extended above 1,200 ft^3/s; no flow for several days in 1960, 1961, and part of July 8, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 02	1000	2,880	9.20
May 16	2400	2,430	7.90
June 07	2400	2,350	7.92
Aug. 21	2300	3,370	8.91
Sep. 11	1800	*3,960	9.39

Minimum daily, 45 ft^3/s Jan. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1010	273	94	75	61	94	492	735	1450	566	322	176
2	1660	194	93	73	63	92	518	736	1640	407	239	172
3	869	152	93	74	61	100	503	777	1650	335	198	165
4	467	140	96	77	64	95	477	790	1630	306	156	162
5	394	134	92	81	65	90	494	808	1550	274	149	145
6	372	130	76	84	66	94	505	802	1490	290	302	124
7	375	122	87	82	79	99	491	832	1900	219	280	113
8	371	117	91	81	69	105	489	783	2030	208	158	125
9	370	116	99	75	66	112	488	612	1820	206	137	118
10	362	115	105	73	67	119	481	672	1610	201	122	120
11	341	111	113	75	71	123	499	849	1500	196	115	430
12	332	110	117	72	68	117	500	963	1410	171	107	462
13	321	114	115	69	70	120	478	1240	1300	176	111	241
14	326	115	113	73	76	131	521	1510	1200	176	112	180
15	319	115	107	68	66	133	541	1830	1140	181	165	168
16	319	110	101	59	65	135	568	2240	1100	204	172	170
17	319	108	104	68	68	134	625	2180	1180	163	452	261
18	310	114	107	57	67	144	745	1820	960	149	228	223
19	272	125	104	45	68	150	850	1520	920	144	204	167
20	281	127	97	62	64	234	871	1380	980	143	899	152
21	273	125	88	64	70	319	778	1360	840	154	686	158
22	270	135	96	66	71	300	731	1380	760	384	397	255
23	277	129	99	67	67	287	733	1270	680	301	377	194
24	279	113	99	67	71	330	790	1130	640	279	642	178
25	271	115	102	65	74	433	962	1070	580	193	365	178
26	268	114	99	69	76	449	982	968	520	491	385	185
27	269	109	101	65	77	459	838	947	450	502	263	190
28	267	104	93	66	79	437	789	1070	420	353	235	192
29	270	96	63	70	80	423	761	1250	400	300	217	180
30	270	95	70	66	---	454	747	1480	350	308	192	178
31	268	---	77	63	---	467	---	1410	---	430	184	---
TOTAL	12372	3777	2991	2151	2009	6779	19247	36414	34100	8410	8571	5762
MEAN	399	126	96.5	69.4	69.3	219	642	1175	1137	271	276	192
MAX	1660	273	117	84	80	467	982	2240	2030	566	899	462
MIN	267	95	63	45	61	90	477	612	350	143	107	113
ACFT	24540	7490	5930	4270	3980	13450	38180	72230	67640	16680	17000	11430

CAL YR 1983	TOTAL	184110	MEAN	504	MAX	3270	MIN	35	ACFT	365200
WTR YR 1984	TOTAL	142583	MEAN	390	MAX	2240	MIN	45	ACFT	282800

09314500 PRICE RIVER AT WOODSIDE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1946 to September 1949, February 1951 to current year.
SPECIFIC CONDUCTANCE: February 1951 to September 30, 1978, once daily.
WATER TEMPERATURES: February 1951 to September 1959, November 1961 to September 1963, October 1964 to Sept. 30, 1978, once daily.
SEDIMENT DATA: October 1975 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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										
19...	1030	300	1550	8.4	13.0	10.0	9.3	644	530	11
NOV										
29...	1100	94	4030	8.4	-1.0	0.0	12.5	640	1600	31
DEC										
21...	1120	88	3580	8.2	-6.0	0.0	12.4	641	1300	26
MAR										
21...	1110	300	1680	8.4	16.5	7.5	10.4	641	570	11
APR										
26...	1035	970	790	8.4	8.5	6.0	10.2	635	330	6.5
MAY										
31...	1000	1160	760	8.4	27.0	16.0	8.1	645	310	6.2
JUN										
29...	1030	380	1290	8.4	33.0	21.5	7.2	646	460	9.2
JUL										
27...	1055	285	2280	8.3	29.0	22.0	7.0	648	900	18
AUG										
29...	1130	227	2080	8.4	29.5	21.0	7.1	649	770	15
SEP										
27...	1110	198	1870	8.4	19.5	12.0	8.8	647	650	13

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										
19...	100	67	160	40	3.1	3.7	220	630	25	0.2
NOV										
29...	250	230	520	42	5.8	8.8	350	2200	77	0.3
DEC										
21...	210	190	470	44	5.8	7.0	360	1800	69	0.3
MAR										
21...	110	72	180	40	3.4	3.9	240	690	30	0.3
APR										
26...	70	37	59	28	1.5	2.6	220	220	16	0.2
MAY										
31...	70	33	49	25	1.2	2.4	200	190	13	0.2
JUN										
29...	93	55	120	36	2.5	3.4	200	440	22	0.2
JUL										
27...	210	91	250	37	3.7	7.3	200	1100	41	0.4
AUG										
29...	150	96	230	39	3.7	7.2	230	930	32	0.3
SEP										
27...	120	85	200	40	3.5	4.4	240	790	27	0.3

09314500 PRICE RIVER AT WOODSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
OCT 19...	4.1	1180	1120	1.6	956	0.4	0.21	0.14	0.04
NOV 29...	6.5	3870	3500	5.3	982	0.8	0.78	0.18	0.14
DEC 21...	8.6	3170	2970	4.3	753	1.1	1.1	0.47	0.45
MAR 21...	4.8	1320	1240	1.8	1070	0.5	0.51	0.09	0.09
APR 26...	7.4	540	544	0.73	1410	0.5	0.53	0.10	0.12
MAY 31...	7.4	480	487	0.65	1500	0.4	0.44	0.03	0.07
JUN 29...	6.8	916	861	1.2	940	0.5	0.48	0.04	0.05
JUL 27...	8.4	1900	1830	2.6	1460	0.7	0.74	0.09	0.09
AUG 29...	6.3	1760	1590	2.4	1080	0.5	0.56	0.14	0.02
SEP 27...	5.0	1530	1380	2.1	818	0.5	0.44	0.11	0.05

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
OCT 19...	0.05	1.3	1.4	1.8	8.0	0.52	1.6	0.02	0.06
NOV 29...	0.18	1.1	1.3	2.1	9.3	0.10	0.31	0.04	0.12
DEC 21...	0.58	0.43	0.9	2.0	8.9	0.11	0.34	0.02	0.06
MAR 21...	0.12	0.31	0.4	0.9	4.0	1.40	4.3	0.05	0.15
APR 26...	0.15	3.9	4.0	4.5	20	4.40	14	0.05	0.15
MAY 31...	0.09	0.37	0.4	0.8	3.5	0.90	--	<0.01	0.03
JUN 29...	0.06	1.4	1.4	1.9	8.4	0.77	--	0.13	0.4
JUL 27...	0.12	2.9	3.0	3.7	16	4.30	--	0.01	0.03
AUG 29...	0.03	1.4	1.5	2.0	8.9	1.30	--	0.02	0.06
SEP 27...	0.06	1.4	1.5	2.0	8.9	0.70	--	0.03	0.09

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)
MAY 31...	1000	41000	6	<10.00	<1	60	50	55000

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)
MAY 31...	30	90	1300	0.2	4	60	2	230

09314500 PRICE RIVER AT WOODSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT 19...	1030	130
NOV 29...	1100	320
DEC 21...	1120	300
MAR 21...	1110	120
APR 26...	1035	60
MAY 31...	1000	60
JUN 29...	1030	110
JUL 27...	1055	230
AUG 29...	1130	240
SEP 27...	1110	190

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
NOV 29...	1100	7.3	0.3
MAR 21...	1110	4.6	2.3
MAY 31...	1000	4.0	--
AUG 29...	1130	6.0	>4.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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 19...	1030	300	10.0	1150	931
NOV 29...	1100	94	0.0	116	29
DEC 21...	1120	88	0.0	75	18
MAR 21...	1110	300	7.5	1380	1120
APR 26...	1035	970	6.0	7680	20100
MAY 31...	1000	1160	16.0	4890	15300
JUN 29...	1030	380	21.5	1010	1040
JUL 27...	1055	285	22.0	10600	8160
AUG 29...	1130	227	21.0	2640	1620
SEP 27...	1110	198	12.0	1630	871

09315000 GREEN RIVER AT GREEN RIVER, UT

LOCATION.--Lat 38°59'10", long 110°09'02", in NW1/4NW1/4SW1/4 sec.15, T.21 S., R.16 E., Emery County, Hydrologic Unit 14060008, on right bank 100 ft upstream from site of old highway bridge, 500 ft upstream from railroad bridge, 1.1 mi southeast of town of Green River, 22.5 mi upstream from San Rafael River, at mile 117.4 upstream from mouth.

DRAINAGE AREA.--44,850 mi^2 approximately, of which about 4,260 mi^2 (including 3,939 mi^2 in Great Divide Basin in southern Wyoming) is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1894 to October 1899, October 1904 to current year. Published as "at Blake" 1894-99, as "near Elgin" 1911, and as "at Little Valley, near Green River" 1910-23.

REVISED RECORDS.--WSP 918: 1895-1900. WDR UT-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,040.18 ft NGVD of 1929. Prior to Nov. 6, 1914, staff, wire-weight, or chain gages at several sites within 7 mi of present site at various datums. Nov. 6, 1914 to June 20, 1924, water-stage recorder at site 7 mi downstream at different datum. June 21 to Sept. 18, 1924, chain gage, and Sept. 19, 1924 to May 7, 1947, water-stage recorder, at site 100 ft downstream at present datum.

REMARKS.--Records good except those of no gage height record, which are fair. Diversions for irrigation above station. Flow regulated by Flaming Gorge Reservoir (see station 09234400) since Nov. 1, 1962.

AVERAGE DISCHARGE.--85 years, 6,370 ft^3/s, 4,615,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,100 ft^3/s June 27, 1917, gage height, 14.53 ft, site and datum then in use; minimum, 255 ft^3/s Nov. 26, 1931; minimum gage height, 4.08 ft Aug. 1, Dec. 5, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 17,000 ft^3/s and maximum (*):

	Date	Time	Discharge (ft^3/s)	Gage height (ft)
	Apr. 22	1745	18,400	10.50
	May 20	2145	*48,300	16.14

Minimum daily, 2,460 ft^3/s Jan. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7280	6220	5720	4200	4260	7120	7430	12600	35800	16900	9910	5760
2	7280	5140	6080	4070	4360	7260	7090	11900	34100	17000	9790	5410
3	7650	4140	5920	3950	4360	7350	7640	11500	33700	16700	9670	5250
4	8010	4840	5750	4290	4810	7480	8780	11600	33600	16000	9670	4840
5	7600	6910	6070	4350	4960	7290	8710	12500	34500	15500	9580	4900
6	7780	6820	6110	4670	4980	7040	7760	15300	34500	14800	9390	4440
7	7940	6220	5160	5200	4810	7070	7200	16000	33500	14100	9420	4310
8	7970	5670	6030	5120	5070	7230	7070	17200	33400	13400	8930	4560
9	7990	5840	5180	5190	5230	7420	7140	17800	33600	13600	8740	4270
10	7930	6480	4530	5000	5610	7440	8360	17100	33900	13000	8300	4330
11	7970	7030	4630	5400	6410	7820	9920	16200	34300	13100	8030	4850
12	7680	7060	5210	5150	6030	8110	10200	16400	32700	12900	7760	5380
13	7640	7080	5970	5010	6390	8160	11000	18900	28800	13100	7590	5150
14	7420	7080	6390	5290	6530	8140	10700	22900	24700	13900	7400	4850
15	7460	6780	6460	4360	6410	8530	9860	25600	23100	13500	7310	4920
16	7300	6810	6230	3780	6390	8870	9480	29400	22400	12600	7240	4780
17	7890	7040	6060	3000	6430	9030	8950	34000	23100	12000	7190	5310
18	7890	7080	5920	2800	6610	8910	8910	39000	24100	11700	7600	5130
19	7500	7030	6220	2710	6480	8680	9100	43600	25300	11300	6850	5390
20	7370	6740	6330	2560	6410	8430	10100	47200	25300	10700	8120	4980
21	7290	6820	6380	2460	6420	8310	12800	47200	24200	10200	8090	4750
22	7630	6290	6460	4090	6600	8640	17500	46300	23000	10100	8190	4940
23	7610	6630	6200	4600	6840	8900	17300	45200	22300	9700	8000	5850
24	7260	6680	4720	5190	6230	8640	14900	42600	21800	9810	7200	6790
25	6630	6300	3220	5320	6910	8300	13000	42100	21200	10000	7050	6760
26	5350	5990	3400	5570	6990	8010	12300	44900	21000	9740	7600	5140
27	4520	5700	4190	5230	6820	8650	13000	45400	20300	9520	7510	5010
28	5530	4700	4080	5190	6850	9150	15900	44000	19400	9530	7510	5820
29	7190	4970	3990	5190	7010	8710	16800	44400	18400	9580	6710	6180
30	7020	5220	4100	4900	---	8030	14100	43200	17400	9820	5940	5200
31	6530	---	4310	4330	---	7680	---	38900	---	9980	5540	---
TOTAL	226110	187310	167020	138170	173210	250400	323000	920900	813400	383780	247830	155250
MEAN	7294	6244	5388	4457	5973	8077	10770	29710	27110	12380	7995	5175
MAX	8010	7080	6460	5570	7010	9150	17500	47200	35800	17000	9910	6790
MIN	4520	4140	3220	2460	4260	7040	7070	11500	17400	9520	5540	4270
ACFT	448500	371500	331300	274100	343600	496700	640700	1827000	1613000	761200	491600	307900

CAL YR 1983 TOTAL 4036930 MEAN 11060 MAX 44200 MIN 1530 ACFT 8007000
WTR YR 1984 TOTAL 3986380 MEAN 10890 MAX 47200 MIN 2460 ACFT 7907000

NOTE.--No gage height record Dec. 28 to Mar. 23.

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

LOCATION.--Daily samples collected at bridge on U.S. Highways 50 and 6, in town of Green River, 0.7 mi from gaging station.

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

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

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 3,250 micromhos Dec. 1, 1967; minimum daily, 255 micromhos June 30, 1978.
WATER TEMPERATURES: Maximum, 30.0°C Aug. 13, 1958; minimum, 0.0°C on many days during winter period each year.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 66,000 mg/L July 11, 1936; minimum daily, 19 mg/L Sept. 30, 1974.
SEDIMENT LOADS: Maximum daily, 2,230,000 tons July 11, 1936; minimum daily, 54 tons Sept. 27, 1956.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,000 micromhos Aug. 23; minimum daily, 365 micromhos June 26, 27.
WATER TEMPERATURES: Maximum, 23.0°C Aug. 16-18; minimum, 0.0°C many days during winter period.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 9,300 mg/L Aug. 22, 23; minimum daily mean, 76 mg/L Dec. 19.
SEDIMENT LOADS: Maximum daily, 380,000 tons May 19; minimum daily, 756 tons Dec. 25.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT											
21...	1120	7320	800	8.1	12.5	11.5	--	8.9	650	--	--
NOV											
22...	1130	6220	690	8.0	4.5	4.5	32	10.9	651	K40	K46
DEC											
19...	1100	6210	740	8.1	2.5	1.0	--	12.3	649	--	--
MAR											
23...	1100	8970	800	8.3	14.0	6.5	720	10.5	660	--	--
APR											
24...	1130	14700	660	8.2	18.0	11.0	880	9.8	650	<1	<1
MAY											
21...	1130	43900	440	8.2	30.0	16.0	230	7.8	650	<1	<1
JUN											
25...	1100	21100	370	8.2	28.0	18.0	--	7.9	650	--	--
JUL											
26...	1130	9670	640	8.4	28.5	22.5	340	7.1	660	--	--
AUG											
30...	1215	6050	850	8.1	31.0	21.0	--	7.1	650	--	--
SEP											
25...	1055	6300	820	8.2	12.5	15.5	430	8.3	660	K20	K87

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

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)
OCT										
21...	260	5.3	61	27	60	33	1.7	2.5	170	200
NOV										
22...	270	5.4	60	29	64	34	1.7	2.4	170	210
DEC										
19...	280	5.7	64	30	66	33	1.8	2.2	180	230
MAR										
23...	260	5.2	57	28	87	42	2.4	2.9	170	240
APR										
24...	230	4.7	50	25	57	35	1.7	2.6	150	210
MAY										
21...	170	3.4	41	17	32	28	1.1	2.7	120	100
JUN										
25...	140	2.8	34	14	22	25	0.8	1.8	96	79
JUL										
26...	230	4.5	52	23	54	34	1.6	2.3	150	170
AUG										
30...	300	6.0	67	32	70	33	1.8	3.2	180	240
SEP										
25...	290	5.8	64	32	75	36	2.0	2.8	180	230

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)
OCT										
21...	18	0.3	7.5	--	478	0.65	9450	--	0.15	--
NOV										
22...	23	0.3	7.6	506	502	0.69	8500	--	0.14	0.00
DEC										
19...	24	0.3	8.1	--	533	0.73	8940	--	0.23	--
MAR										
23...	24	0.3	8.2	573	553	0.78	13900	--	0.43	0.05
APR										
24...	14	0.3	8.7	434	461	0.59	17200	283	0.91	0.06
MAY										
21...	8.9	0.2	10	305	282	0.41	36200	--	0.59	0.18
JUN										
25...	6.9	0.2	9.2	--	225	0.31	12800	--	0.16	--
JUL										
26...	17	0.3	8.3	421	415	0.57	11000	--	1.0	0.03
AUG										
30...	21	0.3	9.6	--	550	0.75	8980	--	0.38	--
SEP										
25...	21	0.3	8.8	561	544	0.76	9540	--	0.23	<0.01

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
OCT 21...	--	--	--	--	--	--	--	--	0.01	0.03
NOV 22...	--	0.9	0.9	0.9	4.0	0.07	0.21	<0.00	0.02	0.06
DEC 19...	--	--	--	--	--	--	--	--	<0.01	0.03
MAR 23...	0.06	2.5	2.50	2.5	11	3.70	11	0.04	0.04	0.12
APR 24...	0.08	4.5	4.50	4.5	20	3.00	9.2	0.04	0.01	0.03
MAY 21...	0.23	0.4	0.4	0.4	1.8	0.45	--	0.09	<0.01	0.03
JUN 25...	--	--	--	--	--	--	--	--	0.07	0.21
JUL 26...	0.04	1.0	1.00	1.0	4.4	0.75	--	0.03	0.02	0.06
AUG 30...	--	--	--	--	--	--	--	--	0.03	0.09
SEP 25...	0.01	1.6	1.60	1.6	7.1	0.69	--	0.01	<0.01	0.03

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV 22...	1130	<10	1	70.00	<0.50	<1	<1	<3.00	<1	7.00	1
MAR 23...	1100	30	2	83.00	<0.50	<1	<1	<3.00	3	40	1
APR 24...	1130	20	1	69.00	<0.50	<1	<1	<3.00	4	10	<1
JUL 26...	1130	30	1	110	<1.00	<1	<1	<3.00	2	20	3
SEP 25...	1055	10	2	120	2.00	<1	1	<3.00	3	40	<1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV 22...	40	2	<0.1	<10	1	2	<1	700	<6.0	6.00
MAR 23...	40	1	<0.1	<10	2	2	<1	710	<6.0	20
APR 24...	30	<1	0.1	<10	4	3	<1	5300	<6.0	10
JUL 26...	30	2	0.2	<10	3	<1	<1	560	<6.0	40
SEP 25...	40	<1	<0.1	<10	<1	2	<1	800	<6.0	30

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
MAY 21...	1130	<7.6	96	4.7	52	4.1	45	0.13	2.7

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	740	---	770	670	800	910	730	375	390	730	---
2	900	750	670	690	670	---	900	730	370	420	730	---
3	900	750	620	670	710	800	---	800	370	415	730	810
4	780	780	---	---	690	800	900	840	370	410	730	810
5	---	760	610	650	710	790	900	840	370	415	750	810
6	780	760	640	720	690	790	890	850	375	415	710	810
7	780	760	620	700	770	820	920	850	375	410	760	830
8	---	770	---	700	710	830	---	770	400	425	750	830
9	780	760	640	700	760	820	950	750	430	440	730	830
10	780	750	680	730	760	840	940	770	445	445	740	820
11	790	---	710	700	760	840	930	760	455	495	740	830
12	780	760	690	670	770	810	930	720	455	500	730	850
13	760	760	630	710	760	800	930	710	465	520	730	910
14	760	---	650	---	760	---	900	710	475	520	740	920
15	760	770	660	710	760	820	810	650	475	490	750	920
16	760	780	---	710	750	---	870	640	465	520	770	920
17	760	780	---	700	740	820	870	570	450	540	790	890
18	740	770	610	680	---	820	900	560	425	560	810	890
19	740	760	600	700	750	920	870	500	405	580	920	860
20	---	770	620	730	780	920	890	470	390	570	930	---
21	740	760	610	720	---	880	890	470	380	650	980	860
22	---	760	620	750	780	---	840	450	380	600	970	880
23	740	---	700	700	780	880	700	440	380	650	1000	890
24	---	780	710	760	810	---	690	430	380	810	---	840
25	750	---	720	710	820	900	700	410	370	810	---	830
26	760	790	740	690	810	900	720	420	365	730	860	820
27	780	800	710	700	800	900	740	400	365	730	850	830
28	---	790	---	730	800	880	750	390	370	740	850	830
29	770	840	750	---	800	880	720	390	375	730	830	830
30	750	840	790	---	---	880	720	380	380	700	850	850
31	750	---	720	720	---	890	---	375	---	740	---	---
MEAN	---	770	670	710	750	850	850	610	400	560	800	850

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

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

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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	2760	54300	104	1750	102	1580	153	1740	210	2420	109	2100
2	2980	58600	94	1300	120	1970	137	1510	182	2140	110	2160
3	2950	60900	87	972	121	1930	120	1280	169	1990	136	2700
4	2590	56000	115	1500	104	1610	107	1240	163	2120	155	3130
5	1000	20500	140	2610	112	1840	97	1140	160	2140	163	3210
6	745	15600	127	2340	177	2920	101	1270	152	2040	168	3190
7	425	9110	102	1710	177	2470	124	1740	157	2040	200	3820
8	445	9580	95	1450	190	3090	137	1890	164	2240	208	4060
9	475	10200	107	1690	135	1890	181	2540	181	2560	209	4190
10	460	9850	162	2830	95	1160	249	3360	192	2910	330	6630
11	475	10200	195	3700	96	1200	302	4400	195	3370	465	9820
12	525	10900	193	3680	129	1810	235	3270	206	3350	525	11500
13	555	11400	177	3380	118	1900	221	2990	220	3800	600	13200
14	330	6610	158	3020	171	2950	222	3170	228	4020	630	13800
15	260	5240	135	2470	167	2910	235	2770	225	3890	1610	37100
16	245	4830	137	2520	148	2490	232	2370	230	3970	2200	52700
17	310	6600	161	3060	111	1820	228	1850	237	4110	2050	50000
18	275	5860	155	2960	179	2860	218	1650	243	4340	1850	44500
19	305	6180	138	2620	76	1280	179	1310	255	4460	1570	36800
20	240	4780	95	1730	120	2050	180	1240	262	4530	1420	32300
21	240	4720	84	1550	130	2240	165	1100	261	4520	1530	34300
22	375	7730	114	1940	134	2340	168	1860	255	4540	1730	40400
23	370	7600	191	3420	138	2310	205	2550	263	4860	1960	47100
24	322	6310	124	2240	120	1530	232	3250	224	3770	1900	44300
25	289	5170	117	1990	87	756	246	3530	160	2990	1820	40800
26	230	3320	120	1940	95	872	265	3990	157	2960	2120	45800
27	281	3430	109	1680	149	1690	278	3930	158	2910	1760	41100
28	205	3060	88	1120	155	1710	273	3830	131	2420	1700	42000
29	286	5550	85	1140	170	1830	268	3760	125	2370	1590	37400
30	208	3940	78	1100	178	1970	255	3370	---	---	1260	27300
31	141	2490	---	---	163	1900	232	2710	---	---	1000	20700
TOTAL	---	430560	---	65412	---	60878	---	76610	---	93780	---	758110

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	935	18800	1990	67700	1900	184000	1110	50600	2960	79200	420	6530
2	925	17700	1700	54600	1820	168000	1140	52300	1790	47300	200	2920
3	935	19300	1360	42200	1830	167000	1060	47800	1620	42300	280	3970
4	920	21800	1300	40700	1840	167000	1000	43200	1910	49900	240	3140
5	900	21200	1550	52300	2010	187000	1060	44400	1980	51200	360	4760
6	880	18400	2140	88400	1780	166000	1000	40000	2230	56500	240	2880
7	815	15800	2010	86800	2250	204000	880	33500	2820	71700	190	2210
8	795	15200	2170	101000	2400	216000	800	28900	1400	33800	260	3200
9	750	14500	2360	113000	2380	216000	740	27200	830	19600	200	2310
10	1060	23900	1800	83100	3130	286000	730	25600	730	16400	130	1520
11	1590	42600	1470	64300	2960	274000	1030	36400	650	14100	660	8640
12	1700	46800	1550	68600	2990	264000	1460	50900	460	9640	3740	54300
13	1840	54600	1940	99000	3400	264000	1560	55200	330	6760	4050	56300
14	2300	66400	3000	185000	3190	213000	1480	55500	300	5990	3610	47300
15	2110	56200	4020	278000	2750	172000	1220	44500	240	4740	2880	38300
16	1710	43800	4300	341000	2480	150000	870	29600	280	5470	2450	31600
17	1260	30400	3640	334000	2650	165000	700	22700	580	11300	2650	38000
18	1050	25300	3340	352000	2900	189000	630	19900	2740	56200	1710	23700
19	1060	26000	3230	380000	2800	191000	640	19500	2350	43500	1410	20500
20	1320	36000	2800	357000	2470	169000	620	17900	8280	182000	1240	16700
21	2240	77400	2500	319000	1800	118000	460	12700	8200	179000	900	11500
22	3810	180000	2480	310000	1680	104000	750	20500	9300	206000	695	9270
23	4190	196000	2700	330000	1620	97500	910	23800	9300	201000	950	15000
24	3600	145000	2840	327000	1460	85900	1020	27000	8450	164000	1050	19200
25	3010	106000	2400	273000	1530	87600	2600	70200	6040	115000	1000	18300
26	2260	75100	2370	287000	1480	83900	1740	45800	3300	67700	850	11800
27	1980	69500	1810	222000	1460	80000	3440	88400	1700	34500	300	4060
28	2400	103000	1430	170000	1440	75400	3420	88000	1620	32800	440	6910
29	2410	109000	1720	206000	1390	69100	2800	72400	820	14900	680	11300
30	2150	81900	2000	233000	1160	54500	2770	73400	1080	17300	460	6460
31	---	---	2000	210000	---	---	3350	90300	850	12700	---	---
TOTAL	---	1757600	---	6075700	---	4867900	---	1358100	---	1852500	---	482580

TOTAL LOAD FOR YEAR: 17879730 TONS.

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM
OCT							
21...	1130	7320	11.5	223	4410	32	42
NOV							
22...	1315	6220	4.5	76	1280	--	--
DEC							
19...	1120	6210	1.0	86	1440	--	--
MAR							
23...	1400	8970	6.5	1880	45500	48	58
APR							
24...	1355	14700	11.0	3770	150000	34	41
MAY							
21...	1430	43900	16.0	2180	258000	41	49
JUN							
25...	1330	21100	18.0	1230	70100	25	38
JUL							
26...	1400	9670	22.5	880	23000	44	58
AUG							
30...	1140	6050	21.0	1250	20400	54	69
SEP							
25...	1400	6300	15.5	1120	19100	35	49

DATE	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .125 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .250 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .500 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN 1.00 MM
OCT						
21...	67	95	100	--	--	--
NOV						
22...	--	99	100	--	--	--
DEC						
19...	--	99	100	--	--	--
MAR						
23...	86	97	100	--	--	--
APR						
24...	60	84	94	98	99	100
MAY						
21...	62	86	97	100	--	--
JUN						
25...	56	94	100	--	--	--
JUL						
26...	87	99	100	--	--	--
AUG						
30...	96	100	--	--	--	--
SEP						
25...	81	99	100	--	--	--

09316100 FLOY WASH NEAR GREEN RIVER, UT

LOCATION.--Lat 38°55'24", long 109°56'30", in SE1/4SW1/4 sec.4, T.22 S., R.18 E., Grand County, Hydrologic Unit 14060008, on left bank, 200 ft below Amtrak Railroad and 7.3 mi west of Crescent Junction.

DRAINAGE AREA.--56.6 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1983 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,590 ft from topographic map.

REMARKS.--Records fair. Diversions for irrigation of approximately 200 acres above gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,440 ft^3/s July 28, 1984, gage height, 10.1 ft, from rating curve extended above 700 ft^3/s on basis of slope-area measurement of peak flow; no flow several days in January 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,440 ft^3/s July 28, gage height, 10.10 ft, from rating curve extended above 700 ft^3/s on basis of slope-area measurement; no flow several days in January.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	.37	.36	.20	.02	.40	.61	.50	.46	.14	1.2	.58
2	5.2	.37	.37	.18	.03	.70	.71	.57	.40	.13	1.0	.58
3	.58	.39	.35	.16	.03	.64	.46	.45	.40	.13	.90	.68
4	.18	.43	.34	.14	.03	.51	.44	.57	.50	.13	1.0	.76
5	.18	.43	.33	.16	.03	.64	.44	.59	1.1	.13	.94	.80
6	.18	.56	.32	.18	.03	.71	.45	.46	1.2	.13	1.2	.78
7	.18	.57	.30	.19	.03	.84	.44	.48	3.4	.13	1.0	.76
8	.18	.39	.33	.20	.04	.72	.42	.50	.64	.13	.92	.57
9	.18	.35	.32	.20	.05	.62	.42	.55	.31	.13	.80	.62
10	.17	.36	.31	.19	.06	.48	.46	.54	.23	.14	.62	.59
11	.16	.39	.29	.20	.07	.60	.43	.51	.21	.14	.68	.94
12	.17	.39	.30	.23	.05	.56	.42	.46	.18	.14	.69	.52
13	.19	.42	.30	.21	.07	.52	.42	.41	.19	.16	.70	.50
14	.22	.39	.27	.25	.08	.44	.48	.39	.45	.17	.68	.55
15	.21	.35	.32	.16	.11	.48	.52	.41	.18	2.3	.71	.58
16	.21	.34	.31	.03	.10	.43	.53	.45	.16	1.6	.70	.66
17	.22	.34	.30	.01	.08	.45	.50	.41	.19	1.2	.70	.72
18	.23	.35	.32	.00	.10	.57	.40	.40	.17	1.1	.83	.68
19	.23	.34	.32	.00	.13	.41	.47	.40	.16	1.0	1.1	.68
20	.25	.34	.32	.00	.16	.40	1.1	.41	.14	.99	42	.76
21	.25	.35	.29	.00	.14	.43	.47	.39	.14	.98	29	.80
22	.26	.36	.28	.00	.24	.46	.41	.38	.14	1.1	1.1	.85
23	.29	.35	.28	.00	.22	.40	.40	.38	.13	1.4	.90	.86
24	.29	.37	.26	.00	.35	.40	.38	.39	.13	.85	.86	.93
25	.29	.35	.27	.01	.43	.39	.44	.38	.13	5.5	.80	1.1
26	.32	.35	.28	.01	.34	.44	.57	.38	.14	1.4	.84	1.1
27	.33	.36	.29	.01	.31	.44	.59	.37	.14	1.3	.90	1.2
28	.37	.35	.28	.01	.32	.39	.59	.36	.14	40	.60	1.1
29	.37	.36	.26	.01	.33	.41	.58	.31	.13	1.1	.54	1.2
30	.36	.33	.20	.02	---	.59	.49	.31	.13	1.5	.78	1.2
31	.39	---	.17	.02	---	.64	---	.35	---	1.4	.64	---
TOTAL	19.84	11.40	9.24	2.98	3.98	16.11	15.04	13.46	12.02	66.65	95.33	23.65
MEAN	.64	.38	.30	.10	.14	.52	.50	.43	.40	2.15	3.08	.79
MAX	7.2	.57	.37	.25	.43	.84	1.1	.59	3.4	40	42	1.2
MIN	.16	.33	.17	.00	.02	.39	.38	.31	.13	.13	.54	.50
ACFT	39	23	18	5.9	7.9	32	30	27	24	132	189	47

WTR YR 1984 TOTAL 289.70 MEAN .79 MAX 42 MIN .00 ACFT 575

09316100 FLOY WASH NEAR GREEN RIVER, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1983 to current year.
SEDIMENT DATA: April 1983 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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)
MAY 09...	0915	0.78	3120	8.5	15.0	13.0	880	18	87
JUN 19...	1045	0.18	3340	8.5	28.0	24.5	800	16	91
JUL 16...	1040	1.8	2080	8.6	31.0	22.5	600	12	74
AUG 14...	1135	0.68	3030	8.5	26.0	20.0	770	15	79
SEP 07...	1100	0.76	3090	8.6	25.5	18.0	870	17	84

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)
MAY 09...	160	460	53	6.8	3.4	270	1400	39
JUN 19...	140	480	56	7.5	4.0	260	1600	45
JUL 16...	100	280	50	5.1	4.0	430	700	25
AUG 14...	140	430	55	6.8	3.2	370	1300	37
SEP 07...	160	430	52	6.4	4.3	420	1400	36

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, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
MAY 09...	0.2	17	2330	3.2	4.9	<0.1	--	0.02
JUN 19...	0.3	17	2530	3.4	1.2	<0.1	--	<0.01
JUL 16...	0.2	16	1460	2.0	7.1	0.15	0.36	0.03
AUG 14...	0.2	17	2230	3.0	4.1	<0.1	--	0.19
SEP 07...	0.3	17	2390	3.2	4.9	<0.1	--	0.01

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
MAY 09...	0915	120
JUN 19...	1045	160
JUL 16...	1040	70
AUG 14...	1135	160
SEP 07...	1100	140

09316100 FLOY WASH NEAR GREEN RIVER, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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)
MAY					
09...	0915	0.78	13.0	1460	3.1
JUN					
19...	1045	0.18	24.5	218	0.11
JUL					
16...	1040	1.8	22.5	31800	155
AUG					
14...	1135	0.68	20.0	1050	1.9
SEP					
07...	1100	0.76	18.0	1380	2.8

09317919 CRANDALL CANYON AT MOUTH, NEAR HUNTINGTON, UT

LOCATION.--Lat 39°27'48", long 111°08'54", in NW1/4SE1/4NW1/4 sec.4, T.16 S., R.7 E., Emery County, Hydrologic Unit 14060009, on right bank 0.1 mi from State Highway 31, 15.5 mi northwest of Huntington.

DRAINAGE AREA.--5.7 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to September 1984 (seasonal records) (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 7,350 ft from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 97 ft^3/s May 24, 1984, gage height, 3.15 ft; minimum, 0.24 ft^3/s Mar. 10, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 97 ft^3/s May 24, gage height, 3.15 ft; minimum, 0.91 ft^3/s Apr. 11 (may have been lower during period of nonoperation).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	1.4				---	1.7	4.2	59	9.8	4.2	2.8
2	1.6	1.5				---	1.6	4.6	53	9.1	3.7	2.7
3	1.4	1.4				---	1.3	4.6	45	8.9	3.5	2.6
4	1.2	1.4				---	1.7	4.5	38	8.9	3.5	2.6
5	1.1	1.4				---	1.2	4.5	34	8.6	3.5	2.5
6	1.1	1.3				---	1.3	4.5	36	8.4	3.4	2.5
7	1.1	1.2				---	1.3	4.5	37	8.4	3.2	2.5
8	1.1	---				---	1.4	4.8	31	7.9	3.1	2.6
9	1.1	---				---	1.4	5.9	27	7.9	3.0	2.5
10	1.1	---				---	1.9	6.9	27	7.8	2.8	2.4
11	1.2	---				---	1.4	7.3	24	7.4	3.0	2.7
12	1.1	---				---	1.5	9.2	23	7.4	2.9	2.6
13	1.2	---				---	1.6	11	24	7.3	2.9	2.6
14	1.9	---				---	1.8	14	25	6.9	2.9	2.5
15	1.6	---				---	2.3	22	26	6.7	3.1	2.4
16	1.7	---				---	2.8	27	25	6.4	2.9	2.5
17	1.7	---				---	3.4	26	24	6.0	2.7	2.5
18	1.6	---				---	3.7	28	24	5.8	3.0	2.4
19	1.5	---				---	3.7	33	23	5.6	3.9	2.6
20	1.5	---				---	3.5	40	22	5.5	5.2	3.3
21	1.5	---				---	3.3	50	20	5.6	4.4	3.3
22	1.5	---				---	3.4	55	20	5.7	4.2	2.6
23	1.4	---				---	3.9	63	18	6.2	4.1	2.6
24	1.4	---				---	4.8	76	17	6.5	3.8	2.6
25	1.4	---				---	5.0	73	15	5.9	7.6	2.6
26	1.3	---				---	5.2	65	14	6.1	3.5	2.5
27	1.3	---				---	5.1	62	13	4.5	3.2	2.6
28	1.3	---				---	5.1	60	12	4.2	3.1	2.4
29	1.4	---				1.7	4.4	60	11	4.3	2.9	2.5
30	1.3	---				1.7	4.2	63	10	5.4	2.9	2.5
31	1.6	---				1.7	---	61	---	4.4	2.8	---
TOTAL	43.7	---				---	84.9	954.5	777	209.5	108.9	78.0
MEAN	1.41	---				---	2.83	30.8	25.9	6.76	3.51	2.60
MAX	2.5	---				---	5.2	76	59	9.8	7.6	3.3
MIN	1.1	---				---	1.2	4.2	10	4.2	2.7	2.4
ACFT	87	---				---	168	1890	1540	416	216	155

09317919 CRANDALL CANYON AT MOUTH, NEAR HUNTINGTON, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to August 1984 (discontinued).
SEDIMENT DATA: November 1978 to September 1981, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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)
JUN 13...	0905	24	460	8.3	9.5	5.5	9.5	581	250	5.1	62
JUL 11...	0920	7.3	440	8.2	18.5	8.0	8.7	586	260	5.3	61
AUG 16...	0930	2.8	475	8.5	19.5	11.0	8.2	585	260	5.2	56

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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
JUN 13...	24	4.6	4	0.1	1.2	22	3.6	0.2	5.4	258	123
JUL 11...	27	5.0	4	0.1	1.3	21	4.1	0.1	5.6	242	125
AUG 16...	29	5.3	4	0.1	1.3	28	4.8	0.1	5.8	--	131

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA 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, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
JUN 13...	0.35	16.7	0.2	0.01	0.49	0.5	<0.2	0.5	2.2	0.20	0.01
JUL 11...	0.33	4.8	<0.1	0.01	0.49	0.5	0.3	0.5	2.2	0.01	<0.01
AUG 16...	0.18	0.99	<0.1	<0.01	0.19	<0.2	0.2	0.2	0.89	0.02	0.01

GREEN RIVER BASIN

09317919 CRANDALL CANYON AT MOUTH, NEAR HUNTINGTON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)
JUN 13...	0905	<1	<1	<10.00	<1.00	10	1	<1	<10
JUL 11...	0920	--	--	--	--	20	--	--	--
AUG 16...	0930	<1	<1	<10.00	1.00	20	1	<1	<10

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL 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)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
JUN 13...	<10	3.00	1	420	7.00	<1.00	<1	10	2
JUL 11...	--	--	--	140	10	--	--	<10	2
AUG 16...	<10	2.00	1	420	5.00	<1.00	<1	10	9

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
JUN 13...	<0.1	0.3	10	<1	<1	<1	10	7.00
JUL 11...	--	--	--	--	--	--	--	--
AUG 16...	0.2	0.4	1.00	10	<1	<1	20	4.00

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
JUN 13...	0905	2.6
JUL 11...	0920	2.0
AUG 16...	0930	2.2

09319000 EPHRAIM TUNNEL NEAR EPHRAIM, UT
(Transmountain diversion)

LOCATION.--Lat 39°19'47", long 111°25'51", in SE1/4SE1/4SE1/4 sec.14, T.17 S., R.4 E., Sanpete County, Hydrologic Unit 14060009, at east tunnel portal, 9.0 mi east of Ephraim.

PERIOD OF RECORD.--September 1949 to current year. Monthly discharge only for September 1949 to September 1960; figures of daily discharge available in Salt Lake City District Office, Geological Survey. Seasonal records only since October 1971.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 9,694.9 ft NGVD of 1929. (Levels by U.S. Geological Survey, Topographic Division.)

REMARKS.--Records fair. Flow is seasonal. Tunnel diverts from Cottonwood Creek drainage in Colorado River Basin to San Pitch River in the Great Basin. Due to location of the gage, reported flow may not be actual flow through tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 142 ft^3/s June 6, 1964, gage height, 5.43 ft; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 50 ft^3/s July 29, gage height, 2.86 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	1.8	2.1	6.0	.83
2								---	1.4	2.6	11	.62
3								---	1.1	2.3	9.4	.62
4								---	.93	1.2	11	.60
5								---	.77	.48	11	.63
6								---	.39	.47	10	1.1
7								---	.28	.55	6.4	.78
8								---	.26	.49	5.8	.77
9								---	.20	.42	5.5	.74
10								---	.18	.26	5.0	.72
11								---	.13	.41	3.8	1.1
12								---	.13	.41	3.2	.90
13								---	.18	.21	2.8	.76
14								4.6	.35	1.1	3.0	.72
15								6.2	.37	.44	9.5	.72
16								10	.32	12	4.8	.66
17								14	.52	13	3.3	.62
18								14	.52	8.5	1.8	.62
19								18	.34	20	2.6	.76
20								22	.68	21	2.4	1.1
21								31	.98	23	2.9	2.0
22								24	1.1	22	4.0	1.0
23								2.3	1.4	22	2.2	1.0
24								2.1	1.2	23	1.9	1.5
25								1.9	.78	8.6	4.8	1.0
26								1.8	1.6	8.4	1.8	.90
27								2.0	2.1	15	1.5	.84
28								2.1	2.1	16	1.4	.78
29								2.0	2.2	21	1.2	.74
30								2.0	2.5	7.6	1.1	.70
31								2.1	---	.17	.94	---
TOTAL								---	26.81	254.71	142.04	25.83
MEAN								---	.89	8.22	4.58	.86
MAX								---	2.5	23	11	2.0
MIN								---	.13	.17	.94	.60
ACFT								---	53	505	282	51

09323000 SPRING CITY TUNNEL NEAR SPRING CITY, UT
(Transmountain diversion)

LOCATION.--Lat 39°25'34", long 111°21'51", in NW1/4SW1/4SE1/4 sec.16, T.16 S., R.5 E., Sanpete County, Hydrologic Unit 14060009, at west portal of tunnel, 11 mi east of Spring City.

PERIOD OF RECORD.--October 1949 to current year. Monthly discharges only for October 1949 to September 1960. Figures of daily discharge available from Salt Lake City District Office, Geological Survey. Seasonal records only since October 1971.

GAGE.--Water-stage recorder. Datum of gage is 9,838 ft NGVD of 1929. Prior to Aug. 24, 1960, at datum about 0.3 ft 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 ft^3/s July 23, 1965; possibly no flow at times in some years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	23	13	5.3	2.5
2								---	21	13	6.8	2.4
3								---	18	12	6.3	2.3
4								---	15	10	6.2	2.3
5								---	14	8.7	6.0	2.2
6								---	12	7.9	5.6	2.2
7								---	11	7.5	5.3	2.3
8								---	9.4	7.0	5.0	2.2
9								---	8.6	6.4	4.9	2.2
10								---	8.0	5.9	4.7	2.1
11								---	7.7	5.3	4.7	2.3
12								---	7.9	4.8	4.6	2.2
13								---	8.9	4.4	4.5	2.1
14								12	10	4.4	4.5	2.1
15								12	12	4.2	5.8	2.0
16								12	14	3.7	4.3	1.9
17								11	14	3.4	3.9	1.9
18								12	14	3.1	3.9	1.9
19								13	14	4.8	3.8	1.9
20								15	14	9.8	4.6	2.1
21								18	14	12	4.0	2.7
22								19	15	13	4.0	1.9
23								22	14	12	3.6	1.8
24								22	14	9.7	3.3	1.8
25								21	13	9.0	4.9	1.8
26								20	14	8.7	3.2	1.8
27								20	13	8.4	3.0	1.7
28								20	13	8.0	2.8	1.7
29								20	12	12	2.7	1.5
30								21	13	3.9	2.7	1.5
31								21	---	1.5	2.6	---
TOTAL								---	391.5	237.5	137.5	61.3
MEAN								---	13.1	7.66	4.44	2.04
MAX								---	23	13	6.8	2.7
MIN								---	7.7	1.5	2.6	1.5
ACFT								---	777	471	273	122

09323900 JOES VALLEY RESERVOIR NEAR ORANGEVILLE, UT

LOCATION.--Lat 39°17'20", long 111°16'10", in NW1/4NE1/4 sec.5, T.18 S., R.6 E., Emery County, Hydrologic Unit 14060009, on Seeley Creek 5.2 mi upstream from Cottonwood Creek, and 12.6 mi west of Orangeville.

DRAINAGE AREA.--146 mi^2.

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

GAGE.--Mercury gage in control house at downstream end of outlet tunnel. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill rock-faced dam. Storage began Nov. 3, 1965. Usable capacity, 54,610 acre-ft between elevations 6,910.0 and 6,989.7 ft above mean sea level. Dead storage, 870 acre-ft between elevations 6,817.0 and 6,866.5 ft. Inactive storage, 6,980 acre-ft between elevations 6,866.5 and 6,910.0 ft. Figures given herein represent total contents. Water is used for irrigation. Huntington North Reservoir, a small off-channel reservoir near Huntington, is operated in conjunction with Joes Valley Reservoir; records not included.

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 66,030 acre-ft June 20, 21, 1983; minimum observed since reservoir was first filled, 7,710 acre-ft Oct. 1, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 65,430 acre-ft June 4, elevation, 6,992.2 ft; minimum observed, 29,300 acre-ft, May 11, elevation, 6,954.0 ft.

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

6,953	28,600	6,965	37,710	6,985	57,090
6,954	29,300	6,970	42,010	6,990	62,810
6,955	30,010	6,975	46,660	6,992	65,190
6,960	33,720	6,980	51,700	6,993	66,390

RESERVOIR STORAGE (ACRE-FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	47250	---	---	---	49230	---	---	64470	---	---	---
2	---	---	48230	---	---	49130	43460	---	---	65190	---	---
3	48730	---	---	---	49030	---	---	---	---	---	63050	---
4	---	47350	---	---	---	---	---	31530	65430	---	---	56870
5	---	---	---	---	---	48830	41920	---	---	---	---	---
6	48330	---	---	---	49130	---	42010	---	64950	64590	62930	56430
7	48330	47440	---	---	---	---	---	30370	---	---	62930	56320
8	---	---	48330	---	---	48530	42190	---	64830	---	---	56320
9	---	---	---	48930	---	48330	41650	29650	---	64230	---	---
10	---	47640	---	---	49130	---	41040	---	---	---	62350	56100
11	48030	---	---	---	---	---	---	29300	64110	---	---	55990
12	---	47640	48430	---	---	47740	---	---	---	---	---	---
13	---	---	---	---	49130	47540	39560	---	64110	63870	61650	55330
14	47840	47840	---	---	---	47250	---	30370	---	---	---	54890
15	---	---	---	---	---	---	---	---	64590	---	---	---
16	---	---	---	---	---	46180	38130	---	---	63760	---	---
17	47640	47840	---	---	49230	---	---	33490	---	---	60610	53600
18	47640	47940	---	---	---	45040	---	34340	64830	---	---	---
19	---	---	---	48930	---	45040	37050	---	---	---	---	---
20	47640	---	---	---	49130	---	---	---	---	63520	59800	52530
21	47540	48030	---	---	---	---	---	38880	---	---	59580	52220
22	---	---	---	---	---	---	---	---	65070	---	---	---
23	---	---	48630	49030	---	45130	35440	43730	---	63280	---	---
24	47350	---	---	---	---	---	---	46470	---	---	59120	51180
25	---	---	---	---	---	---	---	48930	65190	---	---	50660
26	---	---	---	---	---	45320	---	---	---	---	---	---
27	---	---	---	49030	49130	45420	34180	---	---	63280	58550	---
28	47050	---	---	---	49130	45420	---	---	---	---	---	49840
29	---	48130	48730	---	49130	45320	---	58210	65190	---	58100	---
30	---	a48130	---	49030	---	44940	33030	60610	a65190	63170	---	49230
31	47150	---	48630	a49030	---	a44470	---	62930	---	a63170	57770	---
(#)	6975.5	---	6977.0	---	6977.4	---	6959.1	6990.1	---	---	6985.6	6977.6
(*)	-2290	+980	+500	+400	+100	-4660	-11440	+29900	+2260	-2020	-5400	-8540

CAL YR 1983 . . . . . (*) -6260
WTR YR 1984 . . . . . (*) -210

(#) ELEVATION, IN FEET, AT END OF MONTH.
(*) CHANGE IN CONTENTS, IN ACRE-FEET.
(a) NO GAGE READING, CONTENTS INTERPOLATED.

09324500 COTTONWOOD CREEK NEAR ORANGEVILLE, UT

LOCATION.--Lat 39°16'00", long 111°07'45", in NE1/4SW1/4SW1/4 sec.10, T.18 S., R.7 E., Emery County, Hydrologic Unit 14060009, on left bank 2 mi upstream from Grimes Wash, and 5 mi northwest of Orangeville.

DRAINAGE AREA.--208 mi^2.

PERIOD OF RECORD.--May 1909 to July 1921, October 1921 to September 1927, May 1932 to September 1970, October 1975 to September 1984 (discontinued). Monthly discharge only for some periods, published in WSP 1313.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,050 ft from topographic map. Prior to Aug. 11, 1921 staff gages, and Aug. 11, 1921 to Sept. 30, 1970, water-stage recorder, at several sites in vicinity of present gage at different datums.

REMARKS.--Records poor. Flow regulated by Joes Valley Reservoir, 09323900, (see preceding page) 8 mi upstream, constructed by Bureau of Reclamation in fall of 1965. Small diversions for irrigation above station. Ephraim and Spring City Tunnels (see stations 09319000, 09323000) constructed by Bureau of Reclamation in 1936 and 1938, respectively, and several small tunnels and ditches divert from headwaters of Cottonwood Creek to the Great Basin for irrigation in San Pitch River basin.

AVERAGE DISCHARGE.--64 years (1909-20, 1921-27, 1932-70, 1975-84), 100 ft^3/s, 72,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,220 ft^3/s Aug. 1, 1964, gage height, 9.05 ft from high-water mark, at site then in use, from slope-area measurement of peak flow; minimum observed, 1.2 ft^3/s Apr. 8, 1966.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 03	1900	*1,980	5.05
June 22	2400	1,540	4.67

Minimum daily, 15.0 ft^3/s several days in March.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	310	30	39	30	40	68	329	400	1300	1420	220	188
2	250	30	39	28	40	68	329	404	1680	1360	201	186
3	150	30	39	30	40	68	329	410	1770	1310	193	184
4	149	30	39	31	41	68	330	415	1580	1210	179	184
5	148	30	39	32	41	106	330	422	1380	1060	179	184
6	100	30	39	33	40	106	16	422	1230	926	155	70
7	102	30	38	33	41	106	16	422	1240	843	252	42
8	99	30	38	33	40	145	325	430	1080	778	195	129
9	99	30	38	33	40	145	325	437	958	727	195	130
10	101	30	38	30	40	145	325	443	841	673	208	200
11	100	30	39	33	40	145	330	446	732	597	215	271
12	100	32	39	32	40	145	346	448	676	539	214	273
13	96	35	39	30	40	195	354	457	671	489	217	298
14	88	36	39	33	41	295	358	460	755	450	234	308
15	83	35	40	29	40	341	366	475	907	441	224	306
16	83	35	40	27	40	341	377	469	995	411	225	314
17	86	36	40	26	41	341	379	465	1010	368	223	307
18	89	40	40	24	40	231	384	448	1070	338	226	306
19	90	38	40	23	40	15	381	452	1130	308	240	308
20	91	39	40	25	39	15	379	454	1220	285	230	311
21	92	40	35	24	39	15	383	465	1360	269	218	292
22	90	39	35	29	39	15	389	467	1440	254	208	284
23	90	38	36	33	39	15	400	470	1430	255	246	286
24	90	38	37	39	39	15	403	477	1430	201	200	266
25	90	39	38	39	40	15	401	483	1430	195	228	244
26	89	38	40	42	41	15	401	485	1410	197	210	230
27	89	38	40	41	40	66	400	485	1470	188	209	230
28	89	38	40	41	40	66	401	480	1440	181	207	219
29	89	39	33	41	47	180	396	484	1390	176	197	207
30	89	39	34	40	---	330	396	483	1390	231	188	211
31	26	---	35	40	---	330	---	653	---	223	189	---
TOTAL	3337	1042	1185	1004	1168	4151	10278	14211	36415	16903	6525	6968
MEAN	108	34.7	38.2	32.4	40.3	134	343	458	1214	545	210	232
MAX	310	40	40	42	47	341	403	653	1770	1420	252	314
MIN	26	30	33	23	39	15	16	400	671	176	155	42
ACFT	6620	2070	2350	1990	2320	8230	20390	28190	72230	33530	12940	13820

CAL YR 1983	TOTAL	91617	MEAN	251	MAX	2000	MIN	26	ACFT	181700
WTR YR 1984	TOTAL	103187	MEAN	282	MAX	1770	MIN	15	ACFT	204700

09326500 FERRON CREEK (UPPER STATION) NEAR FERRON, UT

LOCATION.--Lat 39°06'15", long 111°12'47", in NE1/4SE1/4SW1/4 sec.2, T.20 S., R.6 E., Emery County, Hydrologic Unit 14060009, on right bank 1.8 mi upstream from Dry Wash and 4.5 mi west of Ferron.

DRAINAGE AREA.--138 mi^2.

PERIOD OF RECORD.--May 1911 to September 1923, October 1947 to current year. Monthly discharge only for some periods, published in WSP 1313. Records for station at site 2 mi downstream published as Ferron Creek near Ferron, Apr. 1909 to Oct. 1911, not equivalent because of diversions 1.5 mi downstream from present site.

REVISED RECORDS.--WSP 1243: 1951(P). WSP 1313: 1920(M).

GAGE.--Water-stage recorder. Altitude of gage is 6,210 ft from topographic map. May 6, 1911 to Sept. 30, 1923, nonrecording gages in vicinity of present site at different datums. Dec. 19, 1947 to Sept. 30, 1966, at site 1.5 mi downstream at different datum.

REMARKS.--Records poor. Slight regulation by small reservoir above station (capacity not known). Small diversions above station for irrigation, including a transmountain diversion to tributary of San Pitch River (Sevier Lake basin). Greater part of flow diverted during irrigation season by Upper North and Upper South Canals, 1.5 mi below station.

AVERAGE DISCHARGE.--49 years, 69.3 ft^3/s, 50,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,180 ft^3/s Aug. 27, 1952, gage height, 9.71 ft, site and datum then in use, from rating table extended above 400 ft^3/s on basis of slope-area measurements at gage heights 8.70 ft and 9.71 ft; site and datum then in use; no flow Oct. 19-21, 1976.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 24	2130	1,000	6.15
June 07	0430	*1,970	7.20
June 14	2230	882	6.65

Minimum daily, 8.0 ft^3/s Jan 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	29	15	14	14	19	17	52	1070	487	148	43
2	53	28	17	13	15	17	17	73	1100	465	131	40
3	40	27	16	13	16	14	18	87	1150	431	123	38
4	39	26	19	15	16	13	20	130	1060	388	124	35
5	36	26	18	16	17	12	21	150	1070	348	141	31
6	35	26	13	18	18	12	22	130	1040	310	164	32
7	35	26	14	19	17	14	21	120	1240	291	160	30
8	33	26	16	18	17	15	24	140	909	276	135	28
9	37	21	21	19	16	16	24	170	676	267	104	28
10	33	24	22	18	16	15	21	240	528	252	100	38
11	31	25	22	18	15	15	22	370	423	225	93	35
12	30	24	24	17	15	16	21	450	444	210	104	36
13	30	25	21	15	15	19	26	420	523	197	133	38
14	32	22	19	16	15	19	34	400	622	192	130	33
15	32	22	21	13	13	22	50	420	665	190	115	33
16	32	20	17	10	14	20	71	400	643	174	89	34
17	32	19	20	9.0	15	20	87	440	676	163	74	35
18	32	21	18	8.0	16	18	99	478	681	156	82	35
19	30	20	19	9.0	13	16	87	523	681	151	105	36
20	30	21	21	10	12	17	57	566	698	151	114	42
21	30	20	18	9.0	11	19	50	659	727	147	180	47
22	29	19	16	10	13	21	57	606	721	153	103	34
23	29	19	17	10	14	19	82	617	709	150	64	33
24	29	17	19	11	15	17	99	721	638	145	60	32
25	27	22	21	13	15	18	74	744	542	141	67	30
26	26	21	20	15	15	19	52	692	561	137	58	31
27	27	20	22	15	16	20	44	659	561	135	55	30
28	27	13	20	14	16	17	43	627	542	135	53	29
29	28	14	17	13	17	18	42	687	528	136	49	29
30	27	14	14	14	---	20	46	738	523	146	48	28
31	28	---	15	13	---	17	---	793	---	136	46	---
TOTAL	1019	657	572	425.0	437	534	1348	13302	21951	6885	3152	1023
MEAN	32.9	21.9	18.5	13.7	15.1	17.2	44.9	429	732	222	102	34.1
MAX	60	29	24	19	18	22	99	793	1240	487	180	47
MIN	26	13	13	8.0	11	12	17	52	423	135	46	28
ACFT	2020	1300	1130	843	867	1060	2670	26380	43540	13660	6250	2030

CAL YR 1983	TOTAL	49556	MEAN	136	MAX	801	MIN	10	ACFT	98290
WTR YR 1984	TOTAL	51305.0	MEAN	140	MAX	1240	MIN	8.0	ACFT	101800

NOTE.--No gage height record Dec. 16 to Mar. 30.

09327550 FERRON CREEK BELOW PARADISE RANCH, NEAR CLAWSON, UT

LOCATION.--Lat 39°07'09", long 110°59'20", in SW1/4SW1/4SE1/4 sec.35, T.19 S., R.8 E., Emery County, Hydrologic Unit 14060009, on left bank 5.5 mi southeast of Clawson.

DRAINAGE AREA.--221 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

REVISED RECORDS.--WDR UT-77-1: 1976(M).

GAGE.--Water-stage recorder. Altitude of gage is 5,600 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--9 years, 62.4 ft^3/s, 45,210 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,440 ft^3/s July 23, 1984, gage height, 7.16 ft from rating curve extended above 1,840 ft^3/s on basis of slope-area measurement of peak flow; no flow on many days.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 140 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 01	1530	1,870	7.25
June 07	1200	2,150	7.01
June 24	0930	1,050	6.09
July 23	2030	*2,440	7.16

Minimum daily, 2.0 ft^3/s Jan. 19.

REVISIONS.--Average discharge and acre-ft/yr for the years 1980-83 are revised as follows, and supersede figures previously published in corresponding annual reports.

Year	Average discharge (ft^3/s)	Acre-ft/yr
1980	36.3	26,300
1981	31.9	23,110
1982	32.4	23,470
1983	51.6	37,380

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	16	10	6.0	9.0	14	9.4	101	1670	636	90	24
2	200	17	10	5.0	9.0	13	10	102	1590	521	86	25
3	90	18	10	6.0	10	11	37	91	1350	447	80	25
4	75	18	11	7.0	9.0	9.0	46	73	1380	365	76	24
5	60	18	8.0	7.0	8.0	7.0	46	106	1020	285	74	24
6	52	19	8.0	6.0	8.0	9.0	48	80	1010	220	100	24
7	43	20	8.0	5.0	9.0	10	62	79	1630	190	86	22
8	38	20	9.0	5.0	10	10	61	79	1020	175	70	22
9	33	18	10	8.0	7.0	9.0	67	76	664	164	66	21
10	31	19	8.0	6.0	8.0	10	81	65	506	145	62	19
11	30	19	9.0	6.0	11	12	82	57	394	119	60	26
12	27	19	10	7.0	8.0	10	82	62	356	99	58	24
13	25	19	11	6.0	10	11	82	70	382	86	65	24
14	23	19	11	6.0	10	12	81	67	501	76	90	25
15	22	18	8.0	6.0	9.0	10	81	58	711	77	60	25
16	21	18	5.0	5.0	11	9.0	80	54	718	74	51	28
17	21	18	5.0	6.0	12	8.0	89	46	684	71	52	31
18	21	20	6.0	5.0	11	9.0	101	49	777	66	52	26
19	21	20	7.0	2.0	9.0	11	86	51	690	61	54	27
20	21	21	7.0	3.0	7.0	14	85	69	639	60	160	29
21	21	22	5.0	4.0	11	12	83	697	733	67	75	31
22	21	20	6.0	4.0	9.0	11	84	1140	885	73	56	29
23	21	18	7.0	5.0	7.0	12	85	1380	903	350	52	28
24	20	16	7.0	5.0	9.0	13	101	1420	879	130	53	28
25	20	12	8.0	6.0	10	11	100	1540	808	100	66	29
26	20	11	8.0	6.0	12	9.0	101	1550	766	78	52	31
27	19	10	9.0	6.0	8.0	8.0	101	1530	831	76	35	31
28	17	11	7.0	8.0	9.0	9.0	101	1380	733	76	32	29
29	17	12	5.0	7.0	9.0	7.7	101	1330	672	80	27	27
30	17	11	5.0	8.0	---	9.3	102	1390	646	76	24	27
31	17	---	5.0	8.0	---	9.8	---	1400	---	120	24	---
TOTAL	1138	517	243.0	180.0	269.0	319.8	2275.4	16192	25548	5163	1988	785
MEAN	36.7	17.2	7.84	5.81	9.28	10.3	75.8	522	852	167	64.1	26.2
MAX	200	22	11	8.0	12	14	102	1550	1670	636	160	31
MIN	17	10	5.0	2.0	7.0	7.0	9.4	46	356	60	24	19
ACFT	2260	1030	482	357	534	634	4510	32120	50670	10240	3940	1560

CAL YR 1983	TOTAL	68360.0	MEAN	187	MAX	2000	MIN	5.0	ACFT	135600
WTR YR 1984	TOTAL	54618.2	MEAN	149	MAX	1670	MIN	2.0	ACFT	108300

09328000 SAN RAFAEL RIVER NEAR CASTLE DALE, UT

LOCATION.--Lat 39°08'37", long 110°53'50", in SE1/4SE1/4NW1/4 sec.27, T.19 S., R.9 E., Emery County, Hydrologic Unit 14060009, on left bank 1.7 mi downstream from Ferron Creek and 8.3 mi southeast of Castle Dale.

DRAINAGE AREA.--930 mi2.

PERIOD OF RECORD.--October 1947 to September 1964, August 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,320 ft from topographic map. Prior to July 11, 1956, at site 0.7 mi upstream at different datum. July 11, 1956 to Sept. 30, 1964, at site 0.6 mi upstream at different datum.

REMARKS.--Records poor. Diversions for irrigation above station, including transmountain diversions to Sevier Lake basin.

AVERAGE DISCHARGE.--29 years (1947-64, 1972-84), 127 ft^3/s, 92,010 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,510 ft^3/s June 3, 1952, gage height, 7.56 ft, site and datum then in use; no flow several days in 1977.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 07	unknown	*3,960	9.34
Aug. 20	unknown	1,520	6.70
Aug. 23	2130	1,050	5.95

Minimum daily, 38 ft^3/s Jan. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	534	106	74	54	90	84	383	516	2130	1610	440	173
2	543	96	76	50	84	80	380	495	2680	1500	330	173
3	340	100	74	52	88	74	396	468	2720	1350	260	173
4	287	104	76	54	88	76	387	423	2530	1200	255	170
5	260	101	70	56	80	66	338	451	2370	1050	270	158
6	242	98	70	58	80	68	141	384	2320	900	380	140
7	198	98	76	56	84	72	142	373	3170	820	220	94
8	190	98	84	54	88	74	180	382	2480	680	170	77
9	178	100	90	54	76	80	405	380	2400	740	155	78
10	163	96	86	50	80	86	455	362	2300	560	145	68
11	160	96	88	52	84	90	458	362	2190	450	140	111
12	161	95	92	50	74	80	444	429	2030	380	133	121
13	158	94	96	48	82	84	433	556	2080	380	180	113
14	152	105	100	50	74	99	430	659	2180	620	230	127
15	146	92	100	45	64	94	432	755	2290	450	200	126
16	146	86	80	41	74	90	445	890	2240	330	190	136
17	145	91	74	45	79	86	471	900	2140	320	210	173
18	147	114	76	42	76	100	521	820	2240	270	240	172
19	141	99	80	38	72	105	540	860	1950	245	285	178
20	136	111	80	47	64	110	527	920	1830	240	640	191
21	148	120	62	54	73	104	544	1160	1740	245	330	231
22	157	109	64	56	70	96	546	1580	1730	255	310	218
23	153	92	66	60	62	102	544	1780	1750	315	403	206
24	149	90	66	64	66	109	542	1880	1770	960	490	194
25	146	82	68	76	72	102	568	2000	1720	570	408	194
26	142	72	70	80	76	96	594	2180	1720	425	322	200
27	138	70	70	78	66	106	594	2100	1710	405	274	197
28	132	68	64	84	76	115	561	1940	1680	350	260	191
29	121	72	50	84	76	198	544	1780	1600	355	231	176
30	126	74	50	86	---	327	539	1700	1540	350	201	172
31	129	---	52	84	---	375	---	1720	---	500	188	---
TOTAL	5968	2829	2324	1802	2218	3428	13484	31205	63230	18825	8490	4731
MEAN	193	94.3	75.0	58.1	76.5	111	449	1007	2108	607	274	158
MAX	543	120	100	86	90	375	594	2180	3170	1610	640	231
MIN	121	68	50	38	62	66	141	362	1540	240	133	68
ACFT	11840	5610	4610	3570	4400	6800	26750	61900	125400	37340	16840	9380

CAL YR 1983	TOTAL	152850	MEAN	419	MAX	3300	MIN	27	ACFT	303200
WTR YR 1984	TOTAL	158534	MEAN	433	MAX	3170	MIN	38	ACFT	314500

09328100 SAN RAFAEL RIVER AT SAN RAFAEL BRIDGE CAMPGROUND, NEAR CASTLE DALE, UT

LOCATION.--Lat 39°04'51", long 110°39'56", in NE1/4NE1/4SE1/4 sec.15, T.20 S., R.11 E., Emery County, Hydrologic Unit 14060009, on left bank 80 ft downstream from San Rafael River Bridge, 21 mi southeast of Castle Dale, 52 mi northwest of Green River.

DRAINAGE AREA.--1,284 mi^2.

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,100 ft from topographic map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--9 years, 161 ft^3/s, 116,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,630 ft^3/s Sept. 10, 1980, gage height, 11.08 ft, from slope-area measurement of peak; no flow several days in 1977-78.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 26	1900	2,220	8.07
June 07	unknown	*3,550	9.85
July 14	1930	1,870	7.52
July 24	0530	2,010	7.74
Aug. 05	2400	1,040	5.97
Aug. 20	unknown	2,400	8.34

Minimum daily, 40 ft^3/s Jan. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	411	110	76	56	92	86	395	487	2110	1660	448	180
2	571	100	78	52	86	82	391	471	2730	1550	337	180
3	387	105	76	54	90	76	398	443	2780	1410	271	180
4	274	110	78	56	90	78	398	394	2590	1250	264	175
5	248	105	72	58	82	70	390	418	2430	1100	280	165
6	236	105	72	60	82	72	206	373	2380	918	393	150
7	206	105	78	58	86	74	162	346	3200	835	234	100
8	188	103	86	56	90	78	160	353	2510	695	177	82
9	183	105	92	56	78	84	348	357	2450	800	161	82
10	171	104	88	52	84	88	439	342	2330	570	153	75
11	162	102	90	54	86	92	446	336	2230	460	149	120
12	162	102	94	52	78	84	439	380	2080	390	141	130
13	162	99	98	50	84	88	420	478	2130	390	185	125
14	156	107	102	52	76	102	417	580	2230	700	235	135
15	150	105	102	47	68	96	418	656	2340	495	205	135
16	149	94	82	43	76	94	428	809	2290	350	195	145
17	148	99	76	47	82	90	448	884	2190	330	215	185
18	149	109	78	44	78	96	485	802	2290	277	245	180
19	147	117	82	40	74	100	517	851	1990	255	290	185
20	143	113	82	49	66	102	511	900	1860	247	740	200
21	150	128	64	56	76	100	510	1170	1740	255	350	240
22	160	125	66	58	72	94	523	1580	1770	263	270	225
23	155	106	68	62	66	100	518	1760	1810	323	254	215
24	152	92	68	66	70	103	513	1830	1860	998	473	205
25	150	84	70	78	74	96	529	1950	1830	583	376	205
26	145	74	72	82	78	92	543	2130	1780	438	357	210
27	140	72	72	80	70	96	555	2050	1780	415	293	205
28	135	70	66	86	78	105	528	1900	1730	358	273	200
29	125	74	52	88	78	170	511	1750	1650	368	246	185
30	130	76	52	88	---	300	500	1650	1580	357	215	180
31	135	---	54	86	---	385	---	1680	---	516	200	---
TOTAL	5980	3000	2386	1866	2290	3373	13046	30110	64670	19556	8625	4979
MEAN	193	100	77.0	60.2	79.0	109	435	971	2156	631	278	166
MAX	571	128	102	88	92	385	555	2130	3200	1660	740	240
MIN	125	70	52	40	66	70	160	336	1580	247	141	75
ACFT	11860	5950	4730	3700	4540	6690	25880	59720	128300	38790	17110	9880

CAL YR 1983	TOTAL	158736	MEAN	435	MAX	3580	MIN	29	ACFT	314900
WTR YR 1984	TOTAL	159881.	MEAN	437	MAX	3200	MIN	40	ACFT	317100

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT

LOCATION.--Lat 38°51'30", long 110°22'10", in SE1/4SE1/4NW1/4 sec.34, T.22 S., R.14 E., Emery County, Hydrologic Unit 14060009, on left bank 300 ft upstream from bridge on State Highway 24, 14.0 mi southwest of Green River, and 34.3 mi upstream from mouth.

DRAINAGE AREA.--1,628 mi2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1909 to September 1918, September 1919 to July 1920 (gage heights only), October 1945 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,190 ft from topographic map. May 5, 1909 to Sept. 10, 1918, staff gage, and Sept. 10, 1919 to July 10, 1920, tape-weight gage. Nov. 29, 1945 to July 7, 1976, water-stage recorder at various sites and datums about 1 mi upstream.

REMARKS.--Records poor. Diversions above station for irrigation of about 42,000 acres. Several small transmountain diversions from tributaries for irrigation in Sevier Lake basin, and some storage since Nov. 3, 1965, in Joes Valley Reservoir (see station 09323900).

AVERAGE DISCHARGE.--48 years (1909-18, 1945-84), 159 ft^3/s, 115,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,000 ft^3/s Sept. 2, 1909, gage height, 12.7 ft, site and datum then in use, from rating curve extended above 3,100 ft^3/s; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 26	unknown	2,620	11.68
June 8	1900	*3,910	13.22
Aug. 21	unknown	1,340	9.02

Minimum daily, 41 ft^3/s Jan. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	560	140	78	58	84	75	377	589	2160	1760	540	200
2	800	110	80	60	80	78	381	574	2570	1650	350	190
3	700	110	81	56	84	74	390	520	2980	1510	300	190
4	350	110	80	58	86	73	395	490	3200	1350	286	185
5	300	115	82	60	78	74	401	540	3100	1200	273	175
6	290	110	79	62	79	75	362	500	2830	1020	300	170
7	240	110	83	64	81	76	211	450	2700	940	440	120
8	230	110	89	62	82	80	210	420	3290	800	200	98
9	220	110	94	60	74	88	222	415	2790	800	175	88
10	200	110	98	60	77	91	400	410	2530	950	170	80
11	180	105	94	56	79	96	477	400	2420	560	160	110
12	180	105	98	58	72	98	470	460	2300	490	155	120
13	180	105	100	56	77	94	465	540	2350	490	150	135
14	170	115	105	54	70	100	470	680	2400	600	220	145
15	160	120	110	56	65	108	480	780	2450	820	260	150
16	160	105	105	54	64	100	500	880	2400	400	200	160
17	170	105	87	49	75	96	510	920	2300	370	220	170
18	160	120	81	52	70	110	541	1000	2400	310	270	200
19	160	130	83	43	67	115	592	920	2090	290	340	205
20	155	120	85	41	61	120	608	1000	1960	285	400	210
21	155	135	78	45	68	160	604	1200	1840	290	850	220
22	160	160	69	52	64	150	624	1680	1870	300	550	250
23	170	120	71	56	61	145	630	1820	1910	420	320	220
24	160	110	72	60	60	150	632	1940	1960	700	420	210
25	155	100	74	70	66	159	651	2100	1950	1300	580	210
26	150	88	74	72	69	144	670	2280	1980	500	400	215
27	150	78	75	74	62	142	645	2260	1990	390	340	210
28	145	76	72	78	66	135	640	2100	2000	375	300	171
29	140	76	65	80	67	140	630	1900	1980	380	270	161
30	135	80	56	81	---	203	609	1810	1880	370	235	155
31	135	---	56	80	---	321	---	1960	---	410	220	---
TOTAL	7220	3288	2554	1867	2088	3670	14797	33538	70580	22030	9894	5123
MEAN	233	110	82.4	60.2	72.0	118	493	1082	2353	711	319	171
MAX	800	160	110	81	86	321	670	2280	3290	1760	850	250
MIN	135	76	56	41	60	73	210	400	1840	285	150	80
ACFT	14320	6520	5070	3700	4140	7280	29350	66520	140000	43700	19620	10160

CAL YR 1983 TOTAL 177288 MEAN 486 MAX 3600 MIN 26 ACFT 351700
WTR YR 1984 TOTAL 176649 MEAN 483 MAX 3290 MIN 41 ACFT 350400

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 1982 to current year, bi-weekly.
WATER TEMPERATURES: July to September 1949, October 1950 to September 1962, October 1964 to September 1978, daily.
SUSPENDED-SEDIMENT DISCHARGE: March 1948 to September 1949, October 1950 to September 1959, daily, October 1975 to current year, periodically.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily (water years 1949, 1951-70, 1974-76), 7,230 micromhos July 15, 1954, and June 29, 1977; minimum daily (water years 1949, 1951-76), 689 micromhos June 29, 1957.
WATER TEMPERATURES: Maximum (water years 1949, 1951-61, 1966-76), 35.0°C July 11, 1954; minimum, 0.0°C on many days during winter period each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 3,100 micromhos Dec. 4, 10; minimum, 650 micromhos June 29.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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 19...	1340	159	2110	8.1	18.5	12.5	8.9	653	760	15
NOV 29...	1400	76	2500	8.2	4.5	0.5	12.4	650	1100	22
DEC 21...	1400	78	2910	8.1	0.0	0.0	12.4	649	1100	21
MAR 21...	1430	172	1490	8.3	20.0	10.5	9.8	648	580	11
APR 26...	1400	673	840	8.3	7.5	9.5	10.0	646	340	6.8
MAY 31...	1430	1980	700	8.3	27.5	17.0	8.0	653	290	5.9
JUN 29...	1315	2070	650	8.2	37.0	20.5	7.4	656	280	5.6
JUL 27...	1315	354	1940	8.3	32.0	24.5	6.7	657	680	14
SEP 27...	1330	221	1770	8.3	23.5	14.5	8.4	657	660	13

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 19...	140	100	220	38	3.6	5.0	220	980	29	0.3
NOV 29...	210	140	290	36	3.9	6.0	300	1300	47	0.3
DEC 21...	190	140	370	43	5.1	5.9	320	1500	47	0.3
MAR 21...	120	67	140	34	2.6	3.1	260	600	21	0.2
APR 26...	71	39	63	29	1.5	2.1	210	240	12	0.2
MAY 31...	68	30	44	24	1.2	2.5	190	190	7.9	0.2
JUN 29...	65	29	34	21	0.9	1.8	190	150	6.3	0.2
JUL 27...	150	74	200	39	3.4	5.8	210	860	24	0.4
SEP 27...	130	82	180	37	3.1	4.7	240	770	19	0.3

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
OCT 19...	6.3	1710	1620	2.3	734	0.3	0.31	0.03	0.01
NOV 29...	7.5	--	2180	3.0	448	0.6	0.59	0.07	0.05
DEC 21...	8.4	2620	2450	3.6	552	0.9	0.81	0.07	0.04
MAR 21...	5.5	1180	1110	1.6	548	0.3	0.26	0.08	0.04
APR 26...	4.7	517	557	0.7	939	0.2	0.13	0.08	0.09
MAY 31...	5.1	444	459	0.6	2370	0.3	0.34	0.03	0.06
JUN 29...	4.5	416	406	0.57	2330	0.2	0.23	0.12	0.09
JUL 27...	8.3	1530	1450	2.1	1460	0.2	0.2	0.04	0.05
SEP 27...	6.0	1460	1340	2.0	871	0.2	0.18	0.04	<0.01

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
OCT 19...	0.01	0.57	0.6	0.9	4.0	0.01	0.03	0.02	0.06
NOV 29...	0.06	0.83	0.9	1.5	6.6	0.09	0.28	0.01	0.03
DEC 21...	0.05	0.23	0.3	1.2	5.3	0.03	0.09	<0.01	0.03
MAR 21...	0.05	0.32	0.4	0.7	3.1	0.48	1.5	0.04	0.12
APR 26...	0.12	0.92	1.00	1.2	5.3	0.89	2.7	0.04	0.12
MAY 31...	0.08	0.57	0.6	0.9	4.0	0.40	--	<0.01	0.03
JUN 29...	0.12	0.58	0.7	0.9	4.0	1.10	--	0.08	0.25
JUL 27...	0.06	1.5	1.50	1.7	7.5	3.10	--	<0.01	0.03
SEP 27...	0.01	0.76	0.8	1.0	4.4	0.52	--	<0.01	0.03

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)
MAY 31...	1430	28000	2	<10.00	<1	50	40	46000

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)
MAY 31...	30	60	1300	0.2	3	60	2	170

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT		
19...	1340	180
NOV		
29...	1400	190
DEC		
21...	1400	220
MAR		
21...	1430	100
APR		
26...	1400	60
MAY		
31...	1430	50
JUN		
29...	1315	40
JUL		
27...	1315	200
SEP		
27...	1330	150

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
MAR			
21...	1430	3.3	1.4
MAY			
31...	1430	4.9	--

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---			---	---	---	---	---	---	---
2	---	---	---			---	---	---	---	---	1980	---
3	---	---	---			---	---	---	---	---	---	---
4	---	---	3100			---	1200	---	---	---	---	1740
5	---	---	---			---	---	---	---	---	---	---
6	---	---	---			---	---	---	---	---	---	---
7	---	---	---			---	---	---	---	---	2010	---
8	---	---	---			---	---	---	---	---	---	---
9	---	---	---			1920	910	---	---	910	---	---
10	---	---	3100			---	---	---	---	---	---	1780
11	---	---	---			---	---	---	---	---	---	---
12	---	---	---			---	---	---	---	---	---	---
13	---	---	---			---	---	---	---	---	2210	---
14	---	---	---			1880	---	---	---	---	---	---
15	---	---	2450			---	---	---	---	---	---	---
16	---	---	---			---	900	---	---	1520	---	---
17	---	---	---			---	---	---	---	---	---	2360
18	---	---	---			---	---	---	---	---	---	---
19	2110	---	---			---	---	---	---	---	---	---
20	---	---	---			2160	---	---	---	---	---	---
21	---	---	2910			1490	---	---	---	---	1860	---
22	---	---	2740			---	---	---	---	2620	---	---
23	---	---	---			---	830	---	---	---	---	---
24	---	---	---			---	---	---	---	---	---	---
25	---	---	---			---	---	---	---	---	---	---
26	---	---	---			---	840	---	---	---	---	1750
27	---	---	---			---	---	---	---	1940	1850	1770
28	---	---	---			---	---	---	---	---	---	---
29	---	2500	---			---	---	---	650	2030	1540	---
30	---	---	---			---	---	---	---	---	---	---
31	---	---	---			---	---	700	---	---	---	---

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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					
19...	1340	159	12.5	322	138
NOV					
29...	1400	76	0.5	182	37
MAR					
21...	1430	172	10.5	704	327
APR					
26...	1400	673	9.5	2350	4270
MAY					
31...	1430	1980	17.0	5090	27200
JUN					
29...	1315	2070	20.5	2640	14800
JUL					
27...	1315	354	24.5	4440	4240
AUG					
29...	1410	274	22.5	1710	1270
SEP					
27...	1330	221	14.5	814	486

09329050 SEVEN MILE CREEK NEAR FISH LAKE, UT

LOCATION.--Lat 38°37'40", long 111°38'50", in SE1/4SW1/4SW1/4 sec.13, T.25 S., R.2 E., Sevier County, Hydrologic Unit 14070003, on left bank 0.4 mi upstream from bridge on State Highway 25, about 0.7 mi upstream from Johnson Valley Reservoir, and 3.5 mi northeast of north end of Fish Lake.

DRAINAGE AREA.--24.0 mi^2.

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

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

GAGE.--Water-stage recorder. Altitude of gage is 9,200 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--20 years, 15.8 ft^3/s, 11,450 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 369 ft^3/s June 1, 1984, gage height, 4.03 ft; minimum, 1.9 ft^3/s Nov. 16, 17, 1978.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 22	2100	309	3.99
June 01	0200	*369	4.03
July 14	2000	97	2.25

Minimum daily, 6.0 ft^3/s Nov. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	13	11	11	10	9.6	9.8	35	227	56	33	21
2	20	14	12	11	10	9.7	9.8	37	144	50	30	21
3	18	13	12	12	9.9	9.8	9.8	40	130	48	29	21
4	17	13	11	11	10	10	10	50	122	47	31	20
5	16	12	8.6	11	9.9	8.7	10	59	137	45	33	20
6	16	12	10	10	9.0	9.4	10	56	118	44	31	20
7	16	13	10	10	9.0	9.5	10	56	117	43	29	20
8	17	13	10	9.9	9.1	9.6	11	62	119	41	28	20
9	16	10	11	9.8	9.5	9.9	11	70	97	41	27	20
10	15	12	12	9.7	9.9	9.7	11	76	100	39	27	20
11	15	12	12	9.6	10	9.5	12	82	97	37	27	21
12	15	12	12	9.7	11	9.6	13	86	103	37	28	20
13	15	12	12	9.8	10	9.8	15	90	110	38	28	20
14	18	11	11	9.8	10	9.9	17	93	118	48	36	20
15	17	13	8.6	9.8	11	9.7	20	100	107	40	43	19
16	16	15	10	9.9	10	9.6	22	111	97	35	35	19
17	16	11	14	9.9	9.9	9.6	25	107	94	32	28	20
18	15	6.0	13	8.4	9.8	9.8	27	107	93	31	28	19
19	15	13	12	8.9	9.7	9.9	33	124	85	30	29	20
20	14	10	12	9.6	9.7	9.9	29	150	81	34	32	20
21	14	9.6	12	9.8	9.8	10	28	180	75	34	28	23
22	14	8.6	11	10	9.7	9.9	29	209	71	35	27	18
23	14	9.5	9.7	10	9.0	9.8	30	212	69	35	27	17
24	14	9.3	10	11	8.5	10	36	199	66	39	30	16
25	14	9.2	10	10	8.2	10	35	190	64	35	32	17
26	13	8.9	11	10	8.7	10	31	185	64	34	25	17
27	14	11	11	9.8	9.2	10	31	173	61	34	23	17
28	13	12	11	9.8	9.3	10	31	167	58	37	23	16
29	13	12	11	11	9.5	10	32	171	55	34	22	16
30	14	12	11	14	---	10	33	177	59	35	21	16
31	14	---	11	13	---	9.9	---	193	---	34	21	---
TOTAL	479	342.1	342.9	319.2	279.3	302.8	631.4	3647	2938	1202	891	574
MEAN	15.5	11.4	11.1	10.3	9.63	9.77	21.0	118	97.9	38.8	28.7	19.1
MAX	21	15	14	14	11	10	36	212	227	56	43	23
MIN	13	6.0	8.6	8.4	8.2	8.7	9.8	35	55	30	21	16
ACFT	950	679	680	633	554	601	1250	7230	5830	2380	1770	1140

CAL YR 1983	TOTAL	10029.9	MEAN	27.5	MAX	222	MIN	6.0	ACFT	19890
WTR YR 1984	TOTAL	11948.7	MEAN	32.6	MAX	227	MIN	6.0	ACFT	23700

NOTE.--No gage height record Jan. 31 to May 14.

09330000 FREMONT RIVER NEAR BICKNELL, UT

LOCATION.--Lat 38°18'25", long 111°31'03", in SW1/4NE1/4NW1/4 sec.7, T.29 S., R.4 E., Wayne County, Hydrologic Unit 14070003, on left bank at upstream side of county road bridge, 2.9 mi southeast of Bicknell along Highway U-24.

DRAINAGE AREA.--751 mi^2.

PERIOD OF RECORD.--May 1909 to December 1912, published as "near Thurber", October 1937 to September 1958 (1944-46, fragmentary), October 1976 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,920 ft from topographic map. May 1909 to December 1912, staff gage near present site at different datum. October 1937 to June 28, 1949, staff gages on two canals and river station about 0.25 mi downstream at different datums. June 28, 1949 to Apr. 29, 1958, water-stage recorders replaced staff gages on river and canal site using same datum. Apr. 29 to Sept. 30, 1958, staff gage on river at site 600 ft farther downstream from water-stage recorder at datum 1.67 ft lower.

REMARKS.--Records fair. Diversions for irrigation of about 10,600 acres above station. Flow regulated by Fish Lake and Johnson, Forsythe, and Mill Meadow Reservoirs.

AVERAGE DISCHARGE.--29 years (1909-12, 1937-43, 1946-58, 1976-84), 87.5 ft^3/s, 63,390 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,200 ft^3/s Apr. 5, 1942, gage height, 5.8 ft, site and datum in use (from floodmarks), from rating curve extended above 700 ft^3/s; minimum observed, 18 ft^3/s June 2, 4, 13-15, 17, 18, 1912.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 307 ft^3/s June 4, 5; minimum daily, 75 ft^3/s Jan. 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	105	93	110	136	134	155	98	243	120	141	157
2	91	100	95	107	135	133	152	98	256	105	135	163
3	100	99	97	105	137	135	147	95	276	100	92	161
4	108	97	89	102	132	120	136	90	307	98	77	160
5	108	97	80	109	132	112	133	89	307	92	80	151
6	108	97	77	107	133	117	125	87	278	96	94	145
7	108	102	78	109	132	116	99	97	246	102	86	133
8	108	107	91	111	129	122	100	100	245	107	95	131
9	108	101	99	110	135	124	118	98	259	110	95	131
10	110	112	99	106	137	127	119	88	260	113	87	127
11	110	111	100	100	139	127	119	100	213	117	79	119
12	110	110	98	94	140	118	121	127	177	131	77	110
13	116	110	97	90	140	116	119	150	139	160	86	104
14	120	109	98	90	140	117	117	151	117	210	93	98
15	125	108	99	90	140	116	114	142	114	190	118	94
16	123	108	97	84	142	114	116	131	115	170	168	87
17	131	113	98	76	145	112	118	128	135	130	183	87
18	137	119	97	75	146	102	112	151	125	123	175	91
19	136	108	97	75	159	116	112	176	120	116	168	93
20	141	120	85	82	130	116	122	186	117	104	181	105
21	144	115	90	97	132	117	117	184	113	110	201	122
22	145	99	97	110	132	115	111	184	105	108	184	115
23	146	101	96	117	134	114	107	211	110	105	171	116
24	148	106	91	121	132	118	103	230	115	143	177	108
25	147	93	89	126	130	115	98	247	122	167	193	102
26	144	102	87	127	121	118	97	265	130	214	196	113
27	151	86	92	117	123	117	103	257	125	235	187	120
28	139	93	88	124	128	97	103	255	115	172	178	113
29	107	91	86	129	132	119	100	251	110	153	168	103
30	102	92	95	129	---	134	98	225	135	144	165	108
31	106	---	110	127	---	154	---	223	---	143	166	---
TOTAL	3786	3111	2885	3256	3923	3712	3491	4914	5229	4188	4296	3567
MEAN	122	104	93.1	105	135	120	116	159	174	135	139	119
MAX	151	120	110	129	159	154	155	265	307	235	201	163
MIN	91	86	77	75	121	97	97	87	105	92	77	87
ACFT	7510	6170	5720	6460	7780	7360	6920	9750	10370	8310	8520	7080

CAL YR 1983	TOTAL	38180	MEAN	105	MAX	374	MIN	38	ACFT 75730
WTR YR 1984	TOTAL	46358	MEAN	127	MAX	307	MIN	75	ACFT 91950

09330230 FREMONT RIVER NEAR CAINEVILLE, UT

LOCATION.--Lat 38°16'40", long 111°04'00", in NE1/4NE1/4NE1/4 sec.20, T.29 S., R.8 E., Wayne County, Hydrologic Unit 14070003, on right bank 2.0 mi downstream from Pleasant Creek, 4.5 mi southwest of Caineville, and 9.8 mi east of Fruita, Utah.

DRAINAGE AREA.--1,208 mi^2.

PERIOD OF RECORD.--March 1967 to current year.

GAGE.--Water-stage recorder and bubble gage. Altitude of gage is 4,750 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--17 years, 71.6 ft^3/s, 51,870 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,800 ft^3/s July 24, 1984, gage height, 10.20 ft, from rating curve extended above 4,000 ft^3/s on basis of slope-conveyance study; minimum observed, 10 ft^3/s June 9, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 14	1900	892	3.56
July 24	0130	*8,800	10.20
Aug. 20	1500	2,190	5.20
Aug. 23	1830	980	3.72
Sep. 16	1630	592	3.14

Minimum daily, 44 ft^3/s Aug. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	107	98	100	153	152	150	111	175	52	97	173
2	88	106	102	99	130	132	150	112	200	56	93	170
3	79	113	103	98	130	152	148	114	210	61	75	172
4	85	110	106	97	130	127	145	115	259	58	51	168
5	88	107	81	99	130	125	141	115	262	57	64	160
6	95	105	77	103	132	127	138	108	250	49	89	140
7	95	105	104	104	155	125	125	108	227	55	63	127
8	96	106	104	100	151	125	108	108	194	60	52	119
9	98	106	106	98	122	125	119	110	204	65	54	119
10	102	106	105	96	122	125	122	112	218	67	53	116
11	110	108	107	95	123	125	125	118	185	70	45	113
12	111	107	106	99	122	124	120	135	154	78	44	105
13	114	107	98	103	122	125	120	150	104	88	46	97
14	114	107	103	112	123	126	118	158	83	157	52	96
15	113	103	109	118	125	150	115	158	75	96	71	95
16	115	100	98	98	124	134	108	155	70	90	91	150
17	120	102	99	107	125	158	112	155	86	86	135	84
18	130	108	107	90	128	137	112	149	81	77	121	75
19	130	106	104	110	130	127	111	147	66	74	159	76
20	132	104	103	113	129	150	120	150	62	67	305	84
21	136	109	103	118	126	154	132	153	52	63	171	102
22	140	99	102	135	126	135	130	157	50	70	159	104
23	140	87	103	145	127	128	121	160	49	73	237	93
24	141	91	103	142	125	150	104	182	55	630	128	91
25	140	100	95	137	124	132	99	198	66	75	205	82
26	136	104	85	130	123	150	101	229	68	95	194	83
27	140	90	95	130	125	135	111	255	59	176	165	93
28	144	100	99	130	127	115	124	233	49	143	172	95
29	125	94	99	132	130	120	125	257	45	104	173	91
30	107	94	102	135	---	138	121	224	45	106	171	85
31	107	---	100	135	---	151	---	212	---	102	173	---
TOTAL	3558	3091	3104	3508	3677	4015	3669	4804	3661	3100	3706	3358
MEAN	115	103	100	113	127	130	122	155	122	100	120	111
MAX	144	113	109	145	155	151	150	237	262	630	305	173
MIN	79	87	77	90	122	115	99	108	45	49	44	75
ACFT	7060	6130	6160	6960	7290	7960	7280	9530	7260	6150	7350	6620

CAL YR 1983	TOTAL	37459	MEAN	103	MAX	351	MIN	35	ACFT	74260
WTR YR 1984	TOTAL	45231	MEAN	118	MAX	630	MIN	44	ACFT	85750

09330410 BULL CREEK NEAR HANKSVILLE, UT

LOCATION.--Lat 38°07'19", long 110°45'32", in SE1/4NE1/4SW1/4 sec.12, T.31 S., R.10 E., Garfield County, Hydrologic Unit 14070003, on left bank 1 mi downstream from BLM recreation area "Lonesome Beaver Campground" and 21 mi south of Hanksville.

DRAINAGE AREA.--7.53 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1983 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,600 ft from topographic map.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 200 ft^3/s July 25, gage height, 2.08 ft; minimum daily, 0.19 ft^3/s Mar. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	2.0	.87	.54	.27	.25	.31	2.6	12	13	2.7	2.4
2	3.0	1.6	.87	.48	.25	.27	.34	2.7	9.3	6.8	2.6	2.3
3	1.8	1.5	.83	.46	.25	.25	.35	3.4	9.0	3.7	2.7	2.0
4	1.6	2.8	.71	.50	.25	.20	.36	3.8	8.5	4.0	2.8	2.1
5	1.5	2.7	.69	.54	.25	.38	.39	4.2	12	3.4	2.9	2.4
6	1.5	2.6	.83	.54	.27	.29	.41	4.9	9.4	3.4	2.8	3.3
7	2.0	2.6	.87	.54	.31	.25	.41	5.2	6.7	3.2	2.4	4.5
8	1.6	2.5	.88	.54	.27	.27	.44	5.9	6.1	3.0	2.3	4.4
9	1.5	1.9	.87	.54	.25	.28	.48	7.0	6.4	2.9	2.3	4.4
10	1.5	1.0	.87	.50	.27	.22	.51	7.5	5.9	2.8	2.6	4.9
11	1.8	1.1	.87	.54	.30	.19	.56	11	5.4	2.7	2.5	5.9
12	1.2	1.1	.87	.42	.28	.21	.53	18	5.4	2.6	2.3	6.2
13	1.4	.81	.75	.38	.31	.22	.56	21	5.4	2.4	2.3	5.7
14	1.2	.82	.75	.42	.30	.27	.61	20	5.4	2.3	2.3	5.2
15	1.6	.69	.83	.46	.31	.21	.69	17	5.4	2.1	3.1	4.8
16	2.0	.73	.65	.38	.31	.23	.79	20	5.0	2.0	1.6	4.6
17	1.8	.79	.81	.38	.31	.20	.88	21	4.6	1.9	1.7	4.4
18	2.0	.84	.75	.40	.30	.20	.95	18	4.6	1.8	1.6	4.2
19	3.7	.58	.75	.34	.31	.25	1.3	16	4.6	1.7	1.5	3.9
20	3.2	.85	.75	.31	.30	.25	1.4	14	4.6	1.6	1.5	3.8
21	2.7	.81	.68	.31	.29	.30	1.4	22	4.5	1.5	1.5	3.7
22	2.8	.65	.64	.27	.31	.25	1.4	18	4.5	1.4	1.5	3.7
23	2.1	.68	.64	.25	.32	.25	1.5	20	4.2	1.5	1.3	3.7
24	1.0	.87	.63	.25	.31	.25	1.7	20	4.1	1.4	1.2	3.4
25	.97	1.1	.54	.25	.31	.27	1.8	21	3.7	15	1.1	3.3
26	1.1	1.0	.55	.25	.26	.25	2.0	19	3.5	4.7	1.1	3.3
27	1.3	1.0	.60	.25	.31	.28	2.2	20	3.5	3.9	1.2	2.5
28	1.4	.96	.46	.25	.32	.28	2.2	19	3.5	2.8	1.2	2.3
29	1.9	.90	.40	.27	.27	.29	2.5	20	3.5	2.5	1.6	2.3
30	2.8	.88	.54	.31	---	.31	2.4	16	3.4	2.3	1.7	2.2
31	2.5	---	.54	.33	---	.29	---	14	---	2.7	2.1	---
TOTAL	62.27	38.36	22.29	12.20	8.37	7.91	31.37	432.2	174.1	107.0	62.0	111.8
MEAN	2.01	1.28	.72	.39	.29	.26	1.05	13.9	5.80	3.45	2.00	3.73
MAX	5.8	2.8	.88	.54	.32	.38	2.5	22	12	15	3.1	6.2
MIN	.97	.58	.40	.25	.25	.19	.31	2.6	3.4	1.4	1.1	2.0
ACFT	124	76	44	24	17	16	62	857	345	212	123	222

WTR YR 1984 TOTAL 1069.87 MEAN 2.92 MAX 22 MIN .19 ACFT 2120

09330410 BULL CREEK NEAR HANKSVILLE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1983 to current year.
SEDIMENT DATA: June 1983 to current year, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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									
12...	1610	1.0	445	8.2	12.5	8.5	8.7	570	230
NOV									
16...	1615	0.73	450	7.6	1.0	2.5	8.8	565	250
JAN									
04...	1600	0.75	555	7.5	2.0	3.5	10.4	627	280
FEB									
07...	1450	0.74	640	7.5	9.0	9.5	9.2	618	330
MAR									
13...	1500	0.25	710	8.2	19.0	16.0	7.7	614	330
APR									
17...	1530	1.1	450	8.0	11.0	12.0	8.4	562	250
MAY									
22...	1510	12	235	7.7	23.0	11.0	8.2	569	120
JUN									
11...	1610	5.3	315	7.7	18.0	11.0	8.0	564	160
JUL									
17...	1615	1.9	420	8.0	28.0	17.0	7.1	568	210
AUG									
28...	1430	1.1	405	8.8	24.0	17.0	--	--	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									
12...	4.5	69	13	8.3	7	0.3	0.8	170	75
NOV									
16...	4.9	76	14	8.9	7	0.3	0.8	180	82
JAN									
04...	5.7	86	17	19	13	0.5	0.8	190	130
FEB									
07...	6.6	100	19	28	16	0.7	0.9	230	170
MAR									
13...	6.6	100	20	32	17	0.8	0.9	220	180
APR									
17...	5.0	78	14	8.7	7	0.2	0.7	170	94
MAY									
22...	2.4	39	5.4	4.2	7	0.2	0.9	95	30
JUN									
11...	3.3	52	8.5	5.9	7	0.2	0.6	120	47
JUL									
17...	4.1	65	11	7.3	7	0.2	0.5	160	68
AUG									
28...	4.1	65	10	6.8	7	0.2	1.3	150	62

09330410 BULL CREEK NEAR HANKSVILLE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)
OCT 12...	3.1	0.2	13	285	0.39	0.77	<0.1	0.03
NOV 16...	3.6	0.2	13	305	0.42	0.6	2.9	<0.01
JAN 04...	5.3	0.2	12	385	0.52	0.78	<0.1	0.05
FEB 07...	6.2	0.3	14	473	0.64	0.95	<0.1	0.01
MAR 13...	6.8	0.3	14	486	0.66	0.33	<0.1	0.09
APR 17...	3.3	0.2	12	314	0.43	0.94	<0.1	0.01
MAY 22...	1.3	0.2	9.9	148	0.2	4.8	0.13	0.02
JUN 11...	1.7	0.2	11	201	0.27	2.9	<0.1	0.01
JUL 17...	2.9	0.2	12	260	0.35	1.3	<0.1	0.04
AUG 28...	2.2	0.2	12	249	0.34	0.75	<0.1	<0.01

DATE	TIME	BORON, DISSOLVED (UG/L AS B)
OCT 12...	1610	30
NOV 16...	1615	40
JAN 04...	1600	40
FEB 07...	1450	50
MAR 13...	1500	60
APR 17...	1530	30
MAY 22...	1510	20
JUN 11...	1610	20
JUL 17...	1615	30
AUG 28...	1430	40

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
OCT 12...	1610	1.0	8.5	23	0.06
NOV 16...	1615	0.73	2.5	39	0.08
JAN 04...	1600	0.75	3.5	2	0.00
FEB 07...	1450	0.74	9.5	8	0.02
MAR 13...	1500	0.25	16.0	42	0.03
APR 17...	1530	1.1	12.0	132	0.4
MAY 22...	1510	12	11.0	70	2.3
JUN 11...	1610	5.3	11.0	21	0.3
AUG 28...	1430	1.1	17.0	47	0.14

09330500 MUDDY CREEK NEAR EMERY, UT

LOCATION.--Lat 38°58'55", long 111°14'55", in NE1/4NW1/4NE1/4 sec.21, T.21 S., R.6 E., Emery County, Hydrologic Unit 14070002, on left bank 100 ft upstream from Emery Canal and 4.1 mi north of Emery.

DRAINAGE AREA.--105 mi^2.

PERIOD OF RECORD.--April to July 1909, July 1910 to July 1914, June 1949 to current year.

REVISED RECORDS.--WSP 1633: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,400 ft from topographic map. Apr. 29 to July 31, 1909, reference point. July 23, 1910 to July 16, 1914, staff gages, at sites about 1 mi upstream at different datums. June 29, 1949 to May 1, 1957, water-stage recorder at site 100 ft upstream at datum 2.89 ft higher prior to Mar. 20, 1953, and at datum 1.89 ft higher thereafter.

REMARKS.--Records poor. One small diversion for irrigation and two storage reservoirs (total capacity 700 acre-ft) above station.

AVERAGE DISCHARGE.--38 years (1910-13, 1949-84), 40.1 ft^3/s, 29,050 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,340 ft^3/s May 10, 1952, gage height, 11.14 ft, present datum from rating curve extended above 400 ft^3/s on basis of slope-area measurement of peak flow; no flow Apr. 13-16, 1911.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 12	1830	499	4.44
May 22	2030	*523	4.40
June 01	0230	451	4.10
June 07	0330	487	4.25
July 14	1700	449	4.20

Minimum daily, 6.0 ft^3/s Jan. 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	24	13	12	13	17	15	36	392	238	125	63
2	48	24	15	11	14	15	15	46	357	233	109	61
3	35	24	14	11	14	14	17	56	340	228	102	60
4	34	24	17	13	14	11	18	66	319	222	104	58
5	31	24	16	14	15	10	19	73	319	210	122	56
6	31	24	11	16	16	10	21	65	322	207	145	55
7	30	24	12	17	15	12	18	58	360	197	145	54
8	28	20	14	16	15	13	20	75	293	192	120	53
9	32	15	19	17	14	14	20	103	273	186	89	54
10	28	24	20	16	14	13	18	150	256	178	85	65
11	26	24	20	16	14	13	19	236	240	172	82	65
12	25	25	22	15	13	14	17	301	235	167	95	64
13	25	25	21	13	13	17	25	285	239	163	126	62
14	30	22	20	14	13	17	30	266	241	177	126	61
15	28	21	22	11	11	20	45	274	241	166	116	61
16	28	19	19	8.0	12	18	54	255	237	157	88	61
17	28	17	20	7.0	13	18	68	257	237	152	73	60
18	27	19	18	6.0	14	16	76	276	241	144	81	59
19	26	18	17	6.0	11	14	63	287	242	138	115	60
20	26	19	18	7.0	10	15	40	305	245	129	126	61
21	25	18	16	7.0	9.0	17	36	340	246	128	152	64
22	25	17	14	8.0	11	19	41	369	248	131	119	58
23	25	17	15	8.0	12	17	62	383	250	127	82	57
24	25	15	17	9.0	13	15	75	392	245	122	78	56
25	24	20	19	11	13	16	60	394	247	118	85	54
26	24	19	18	13	13	17	44	373	251	114	76	55
27	24	18	20	13	13	18	40	353	250	112	73	54
28	24	10	18	12	14	15	37	335	249	112	71	53
29	24	11	15	12	15	14	34	332	242	113	67	53
30	24	11	12	13	---	16	36	349	243	123	66	52
31	25	---	13	12	---	13	---	354	---	113	64	---
TOTAL	890	592	525	364.0	381.0	468	1083	7444	8100	4969	3107	1749
MEAN	28.7	19.7	16.9	11.7	13.1	15.1	36.1	240	270	160	100	58.3
MAX	55	25	22	17	16	20	76	394	392	238	152	65
MIN	24	10	11	6.0	9.0	10	15	36	235	112	64	52
ACFT	1770	1170	1040	722	756	928	2150	14770	16070	9860	6160	3470

CAL YR 1983	TOTAL	31156.0	MEAN	85.4	MAX	451	MIN	6.0	ACFT	61800
WTR YR 1984	TOTAL	29672.0	MEAN	81.1	MAX	394	MIN	6.0	ACFT	58850

09331850 CONVULSION CANYON NEAR EMERY, UT

LOCATION.--Lat 38°54'23", long 111°24'40", in NE1/4SW1/4SE1/4 sec.12, T.22 S., R.4 E., Sevier County, Hydrologic Unit 14070002, on left bank about 3.5 mi downstream from Acord Lake junction, 9.5 mi to I-70, 30 mi southwest of Emery.

DRAINAGE AREA.--21.5 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to September 1984 (seasonal records) (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 7,120 ft from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34 ft^3/s July 30, 1984, gage height, 2.65 ft; minimum daily, 0.01 ft^3/s Sept. 22-25, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 34 ft^3/s July 30, gage height, 2.65 ft; minimum, 0.63 ft^3/s Aug. 22, may have been lower during period of nonoperation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	.26						---	2.2	1.2	.75	.81
2	.46	.28						---	1.8	.81	.66	1.1
3	.40	.26						---	1.8	.75	.66	.81
4	.40	.23						---	1.7	.72	.66	.85
5	.42	.26						---	2.0	.69	.66	.66
6	.41	.28						---	1.9	.66	.66	.72
7	.39	.28						---	3.6	.66	.63	.55
8	.44	.28						---	2.1	.60	.63	.66
9	.47	.26						9.7	1.8	.58	.72	.88
10	.56	.26						9.7	1.8	.55	.66	.85
11	.64	.28						9.0	1.6	.63	.66	.88
12	.70	.28						9.1	1.5	.63	.63	.78
13	1.0	.31						6.5	1.4	.58	.60	.85
14	1.0	.28						5.7	1.2	.58	.55	1.0
15	.66	---						6.7	1.0	.58	.60	1.0
16	.70	---						5.4	1.1	.55	.55	1.2
17	.51	---						5.3	.99	.50	.72	.95
18	.58	---						4.0	.99	.50	.78	1.2
19	.58	---						4.5	.99	.50	.60	1.1
20	.41	---						4.6	.95	.55	2.0	1.5
21	.28	---						4.9	.92	.53	.75	1.2
22	.28	---						4.0	.88	.58	.95	1.3
23	1.0	---						3.6	.81	.53	1.4	1.3
24	.34	---						3.3	.85	.50	7.5	1.2
25	.28	---						2.4	.81	.53	1.1	1.1
26	.23	---						2.2	.81	.50	.66	1.2
27	.28	---						1.9	.78	.50	.99	1.1
28	.26	---						1.8	.72	.50	.99	1.1
29	.28	---						1.8	.69	.55	.85	1.1
30	.28	---						1.7	.66	2.1	.69	1.2
31	.26	---						1.9	---	.81	1.1	---
TOTAL	15.00	---						---	40.35	20.45	31.36	30.15
MEAN	.48	---						---	1.34	.66	1.01	1.00
MAX	1.0	---						---	3.6	2.1	7.5	1.5
MIN	.23	---						---	.66	.50	.55	.55
ACFT	30	---						---	80	41	62	60

09331850 CONVULSION CANYON NEAR EMERY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1980 to current year.
SEDIMENT DATA: October 1980 to September 1981, July, September, 1984, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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)
JUL 20...	1600	0.55	1330	8.1	21.0	14.5	7.3	660	640	13	110
SEP 06...	1400	0.55	1300	8.2	21.0	14.5	7.6	580	620	12	100

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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
JUL 20...	88	48	14	0.8	4.8	240	97	0.2	12	858	600
SEP 06...	90	49	15	0.9	5.3	220	90	0.2	13	796	568

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA 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, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
JUL 20...	1.2	1.3	1.1	0.07	0.63	0.7	0.5	0.7	3.1	0.05	0.01
SEP 06...	1.1	1.2	1.1	0.03	0.27	0.3	0.2	0.3	1.3	0.04	<0.01

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)
JUL 20...	1600	1	<1	<10.00	<1.00	180	<1	<1	<10
SEP 06...	1400	<1	<1	<10.00	<1.00	180	1	<1	<10

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL 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)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
JUL 20...	<10	4.00	2	820	9.00	3.00	<1	70	37
SEP 06...	<10	6.00	<1	540	9.00	<1.00	2	50	36

09331850 CONVULSION CANYON NEAR EMERY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
JUL 20...	0.2	<0.1	7.00	2	5	4	40	8.00
SEP 06...	<0.1	<0.1	9.00	2	5	<1	20	<3.00

DATE	TIME	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
SEP 06...	1400	<1.00	2.00	<10	1.00	1100	<10	60	0.12	<1	7.00

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
JUL 20...	1600	0.55	14.5	79	67	0.12
SEP 06...	1400	0.55	14.5	43	86	0.06

09331950 CHRISTIANSEN WASH NEAR EMERY, UT

LOCATION.--Lat 38°51'41", long 111°15'07", in NE1/4SE1/4NW1/4 sec.33, T.22 S., R.6 E., Emery County, Hydrologic Unit 14070002, on right bank 0.3 mi upstream from mouth, at the Consol coal mine, 4.5 mi south of Emery.

DRAINAGE AREA.--13.6 mi2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1978 to September 1984 (discontinued).

REVISED RECORDS.--WDR UT-81-1: 1979-80(P), 1979-80.

GAGE.--Water-stage recorder. Altitude of gage is 5,920 ft from topographic map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--6 years, 3.97 ft^3/s, 2,880 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,540 ft^3/s Sept. 8, 1981, gage height, 8.83 ft; minimum, 0.29 ft^3/s July 21-23, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 40 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 01	1100	107	3.63
July 15	1900	49	2.53
July 22	2100	62	2.85
Aug. 13	1900	67	2.87
Aug. 22	2030	*291	4.89

Minimum daily, 0.50 ft^3/s Jan. 19, 20, 22, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	5.5	2.1	1.4	.60	.80	5.6	8.0	8.0	11	19	7.0
2	14	5.0	2.1	1.4	.70	.80	6.8	6.2	6.6	11	21	6.3
3	13	5.3	2.3	1.5	.60	.70	4.2	7.2	6.0	7.3	18	6.5
4	16	5.9	2.2	1.6	.60	.60	3.5	5.0	7.0	11	17	7.3
5	14	4.8	1.4	1.8	.60	.60	4.0	5.6	7.9	12	16	7.9
6	16	5.6	1.4	1.9	.70	.70	4.5	6.0	7.4	10	17	7.1
7	12	4.9	1.8	1.9	.60	.80	3.5	4.0	16	9.6	18	5.5
8	8.3	4.0	2.1	1.9	.70	.90	7.2	4.9	10	7.0	18	6.1
9	8.3	3.3	2.0	1.7	.70	1.1	9.0	5.3	8.9	8.1	16	6.7
10	8.6	4.6	2.1	1.5	.80	1.1	7.4	6.0	11	7.2	11	7.3
11	9.1	5.0	2.2	1.6	1.0	2.1	10	3.2	13	11	13	11
12	9.9	5.8	2.2	1.6	.70	1.6	3.7	2.6	14	11	15	8.9
13	8.6	5.6	1.8	1.4	.90	1.7	2.7	4.0	12	13	21	9.3
14	9.4	4.5	1.9	1.2	1.1	2.3	3.7	4.5	12	12	17	9.6
15	8.4	1.5	2.0	1.0	.80	1.9	8.0	7.0	10	19	10	7.4
16	6.4	1.8	1.6	.80	.90	2.2	5.6	3.2	7.8	20	10	8.0
17	8.0	2.2	1.8	.70	1.3	1.6	4.0	2.9	6.3	17	9.8	7.9
18	9.0	2.4	1.6	.60	1.0	1.4	2.5	3.7	9.3	15	14	6.5
19	8.9	1.6	1.7	.50	.80	1.7	2.1	3.5	16	14	20	7.2
20	8.9	3.6	1.9	.50	.70	1.3	1.7	3.0	19	17	25	9.7
21	7.1	2.6	1.3	.60	.60	1.4	2.2	4.0	17	19	27	10
22	8.2	2.5	1.5	.50	.80	2.3	2.9	5.0	18	24	35	8.6
23	9.2	1.5	1.6	.50	.70	1.9	2.1	4.0	21	22	27	9.9
24	8.8	1.4	1.6	.70	.80	1.6	4.0	3.5	17	16	7.5	9.7
25	7.5	1.9	1.6	.80	.80	3.0	3.2	4.5	16	16	7.8	9.0
26	7.0	2.4	1.7	.90	.70	3.5	6.0	7.0	14	13	8.4	8.0
27	7.2	2.1	1.9	.60	.60	2.8	5.0	5.0	11	17	7.6	8.5
28	6.8	2.0	1.8	.70	.60	2.5	5.6	4.5	8.0	15	6.8	7.2
29	6.2	1.8	1.3	.70	.70	3.5	4.0	5.9	7.1	12	6.2	8.6
30	5.7	1.8	1.5	.60	---	4.0	3.2	8.0	11	15	6.6	8.8
31	6.0	---	1.6	.60	---	3.6	---	6.9	---	16	6.1	---
TOTAL	296.5	102.9	55.6	33.70	22.10	56.00	137.9	154.1	348.3	428.2	471.8	241.5
MEAN	9.56	3.43	1.79	1.09	.76	1.81	4.60	4.97	11.6	13.8	15.2	8.05
MAX	20	5.9	2.3	1.9	1.3	4.0	10	8.0	21	24	35	11
MIN	5.7	1.4	1.3	.50	.60	.60	1.7	2.6	6.0	7.0	6.1	5.5
ACFT	588	204	110	67	44	111	274	306	691	849	936	479

CAL YR 1983	TOTAL	2239.15	MEAN	6.13	MAX	29	MIN	.90	ACFT	4440
WTR YR 1984	TOTAL	2348.60	MEAN	6.42	MAX	35	MIN	.50	ACFT	4660

09331950 CHRISTIANSEN WASH NEAR EMERY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to August 1984 (discontinued).
SEDIMENT DATA: December 1978 to September 1981, periodically.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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)
JUN 13...	1245	11	1350	8.4	28.5	16.0	7.8	614	550	11	94
JUL 11...	1245	12	1850	8.4	32.5	21.0	7.1	617	640	13	92
AUG 16...	1245	13	1340	8.5	3.0	19.5	7.1	617	540	11	100

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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
JUN 13...	76	120	32	2.3	4.1	480	17	0.4	8.8	1020	801
JUL 11...	100	220	43	3.9	5.1	710	35	0.4	10	1430	1170
AUG 16...	71	110	30	2.1	4.0	480	17	0.5	9.1	--	793

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA 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, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
JUN 13...	1.4	30.3	1.6	0.01	0.99	1.00	1.0	1.0	4.4	0.30	0.03
JUL 11...	1.9	46.3	1.4	0.03	1.4	1.40	1.1	1.4	6.2	0.39	0.01
AUG 16...	1.1	27.8	2.2	0.31	2.2	2.50	0.8	2.5	11	1.20	0.02

DIRTY DEVIL RIVER BASIN

09331950 CHRISTIANSEN WASH NEAR EMERY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)
JUN 13...	1245	2	<1	<10.00	<1.00	130	<1	<1	<10
JUL 11...	1245	--	--	--	--	210	--	--	--
AUG 16...	1245	4	1	<10.00	<1.00	130	<1	<1	40

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL 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)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
JUN 13...	<10	10	1	8700	20	3.00	5	180	19
JUL 11...	--	--	--	5200	40	--	--	140	18
AUG 16...	<10	30	2	22000	30	20	<1	450	30

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
JUN 13...	0.8	<0.1	20	4	4	3	40	20
JUL 11...	--	--	--	--	--	--	--	--
AUG 16...	0.4	0.1	30	13	6	5	100	70

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	PHENOLS (UG/L)
JUN 13...	1245	9.3	1.3	--
JUL 11...	1245	12	1.0	<1
AUG 16...	1245	7.3	>4.0	4

09332100 MUDDY CREEK BELOW INTERSTATE HIGHWAY I-70, NEAR EMERY, UT

LOCATION.--Lat 38°48'44", long 111°11'53", in SW1/4NE1/4SW1/4 sec.13, T.23 S., R.6 E., Emery County, Hydrologic Unit 14070002, on left bank 0.1 mi downstream from bridge on Interstate Highway I-70, 0.2 mi downstream from Ivie Creek, and 12.2 mi southeast of Emery.

DRAINAGE AREA.--418 mi^2.

PERIOD OF RECORD.--October 1973 to current year.

REVISED RECORDS.--WDR UT-76-1: 1974(M), 1975.

GAGE.--Water-stage recorder. Altitude of gage is 5,630 ft from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--22 years, 22.9 ft^3/s, 16,600 acre-ft/yr, includes record for station 09332500, 1950-61, 11 years, 15.4 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,400 ft^3/s Sept. 5, 1981, gage height, 11.25 ft from floodmark, from slope-area measurement of peak flow; no flow several days in 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 290 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 02	unknown	449	4.71
May 13	0230	593	4.95
May 22	0430	556	5.10
June 01	1100	399	4.58
June 07	1300	668	5.04
July 23	1900	1,780	7.18
July 31	2300	*2,780	8.39
Aug. 13	2200	472	4.66
Aug. 21	2000	2,370	7.93

Minimum daily, 13 ft^3/s Jan. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	30	18	24	27	33	32	51	346	249	82	30
2	140	30	20	20	29	32	30	50	308	223	74	29
3	60	30	19	19	30	29	28	62	286	213	61	30
4	45	28	22	21	31	24	30	75	266	204	56	29
5	39	27	21	23	32	23	33	98	249	194	50	30
6	37	26	14	26	30	31	34	93	231	181	76	26
7	35	25	17	28	29	32	34	68	479	170	53	24
8	30	27	21	27	29	30	38	63	421	160	49	24
9	28	24	25	29	28	31	42	100	344	180	45	26
10	26	25	27	28	29	30	35	168	304	160	42	25
11	26	22	26	28	29	32	42	291	282	140	37	45
12	28	25	27	27	27	27	36	338	260	120	45	25
13	31	24	26	22	28	29	44	384	255	150	87	22
14	34	23	25	23	29	32	48	375	255	230	57	21
15	36	22	27	20	25	30	57	393	267	190	47	18
16	33	21	24	16	27	29	70	381	265	110	47	18
17	34	22	26	15	29	26	84	312	256	72	36	20
18	34	24	24	14	27	21	90	304	261	60	47	17
19	32	22	24	15	23	23	106	327	259	56	57	23
20	33	24	27	13	22	29	76	368	264	51	112	29
21	31	23	24	14	21	31	67	417	256	51	196	35
22	30	22	22	14	24	30	64	423	255	64	144	24
23	30	21	23	15	22	26	70	405	256	175	174	22
24	32	21	25	18	23	26	96	405	256	79	60	23
25	32	25	27	21	24	29	94	412	252	58	53	21
26	30	24	26	26	23	30	66	364	256	54	61	22
27	29	21	28	26	23	26	63	344	253	55	49	24
28	31	14	26	25	24	22	60	300	246	45	48	20
29	31	15	23	24	30	28	56	252	241	43	38	20
30	28	16	22	25	---	30	56	303	244	60	36	23
31	31	---	23	28	---	30	---	277	---	95	34	---
TOTAL	1176	703	729	674	774	881	1681	8203	8373	3892	2053	745
MEAN	37.9	23.4	23.5	21.7	26.7	28.4	56.0	265	279	126	66.2	24.8
MAX	140	30	28	29	32	33	106	423	479	249	196	45
MIN	26	14	14	13	21	21	28	50	231	43	34	17
ACFT	2330	1390	1450	1340	1540	1750	3330	16270	16610	7720	4070	1480

CAL YR 1983	TOTAL	29575.6	MEAN	81.0	MAX	650	MIN	7.4	ACFT	58660
WTR YR 1984	TOTAL	29884	MEAN	81.7	MAX	479	MIN	13	ACFT	59270

09332700 MUDDY CREEK AT DELTA MINE, NEAR HANKSVILLE, UT

LOCATION.--Lat 38°33'47", long 110°57'13", in SW1/4SE1/4NE1/4 sec.8, T.26 S., R.9 E., Emery County, Hydrologic Unit 14070002, on left bank 19 mi northwest of Hanksville and 70 mi southwest of Green River.

DRAINAGE AREA.--841 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,650 ft from topographic map.

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

AVERAGE DISCHARGE.--9 years, 32.7 ft^3/s, 23,690 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,840 ft^3/s Sept. 10, 1980, gage height, 9.60 ft from rating curve extended on basis of slope-area measurement of peak flow; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,030 ft^3/s Aug. 1, gage height, 4.81 ft; no peak above base of 1,500 ft^3/s; minimum daily, 10 ft^3/s Jan. 18, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	27	13	16	23	40	27	41	245	169	88	23
2	121	27	13	15	25	30	28	40	260	160	83	19
3	52	26	13	15	26	26	24	56	239	150	68	16
4	36	27	13	17	27	22	21	66	227	145	59	16
5	35	26	12	19	28	20	23	80	209	138	55	16
6	30	25	12	22	26	28	25	56	214	139	57	16
7	31	25	13	24	25	30	25	47	254	131	84	16
8	26	21	15	23	25	26	25	40	304	121	53	16
9	22	21	19	25	24	29	26	44	247	111	47	16
10	23	19	21	24	25	28	29	87	216	117	43	16
11	21	19	21	24	25	29	25	140	204	99	39	16
12	20	21	23	23	23	24	27	181	193	91	35	32
13	22	20	22	18	24	29	22	219	183	85	41	23
14	22	19	21	19	25	29	27	212	183	119	70	18
15	26	18	23	16	21	34	30	228	184	188	58	16
16	28	17	20	12	23	29	49	243	186	78	49	16
17	26	18	22	12	25	28	56	220	186	66	50	15
18	27	20	20	10	23	24	62	205	180	55	44	15
19	27	19	22	11	19	20	74	216	176	47	108	16
20	26	20	23	10	18	22	80	235	176	39	316	19
21	27	19	20	11	17	27	58	260	177	47	130	24
22	25	18	18	11	20	29	52	275	172	46	190	29
23	24	18	19	12	18	27	50	274	173	71	83	20
24	25	16	21	14	19	23	69	271	174	174	113	15
25	26	21	23	17	20	24	62	278	171	60	57	16
26	28	20	22	22	19	27	53	267	172	55	57	15
27	26	19	24	22	19	28	50	256	171	57	48	15
28	25	13	22	21	20	23	47	239	169	47	40	18
29	26	13	19	20	26	20	45	219	164	43	37	15
30	26	13	16	21	---	26	43	221	163	63	29	15
31	25	---	17	24	---	30	---	227	---	99	27	---
TOTAL	972	605	582	550	658	831	1234	5443	5972	3010	2258	538
MEAN	31.4	20.2	18.8	17.7	22.7	26.8	41.1	176	199	97.1	72.8	17.9
MAX	121	27	24	25	28	40	80	278	304	188	316	32
MIN	20	13	12	10	17	20	21	40	163	39	27	15
ACFT	1930	1200	1150	1090	1310	1650	2450	10800	11850	5970	4480	1070

CAL YR 1983	TOTAL	27016.5	MEAN	74.0	MAX	595	MIN	4.5	ACFT	53590
WTR YR 1984	TOTAL	22653	MEAN	61.9	MAX	316	MIN	10	ACFT	44930

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 1983 TO SEPTEMBER 1984

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)
OCT									
14...	1230	23	2440	8.3	16.0	11.5	670	13	120
NOV									
09...	1230	21	2710	8.2	8.5	4.5	760	15	140
DEC									
08...	1100	12	3180	8.2	5.0	0.0	840	17	170
APR									
12...	1210	29	2760	8.3	11.0	8.5	790	16	150
MAY									
09...	1300	44	1670	8.2	23.0	13.0	500	9.9	96
JUN									
18...	1250	181	890	8.2	35.0	17.0	320	6.4	66
JUL									
19...	1305	49	1650	8.3	36.0	25.5	490	9.8	100
AUG									
24...	1155	131	3220	7.8	29.0	18.5	1700	34	540
SEP									
12...	1320	63	3320	8.3	30.5	20.0	1100	21	230

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)
OCT								
14...	90	290	48	5.0	5.4	200	890	160
NOV								
09...	100	310	47	5.0	4.5	220	880	220
DEC								
08...	100	400	51	6.2	4.7	280	1000	300
APR								
12...	100	340	48	5.4	4.4	210	1000	210
MAY								
09...	62	170	43	3.4	4.1	250	490	--
JUN								
18...	38	66	31	1.6	2.2	210	200	30
JUL								
19...	59	170	43	3.4	3.2	190	540	86
AUG								
24...	87	230	22	2.5	17	150	1900	62
SEP								
12...	120	380	43	5.2	7.0	150	1400	270

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, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
OCT								
14...	0.4	8.7	1690	2.3	105	0.6	--	<0.01
NOV								
09...	0.4	8.2	1790	2.4	103	0.83	--	<0.01
DEC								
08...	0.4	11	2160	2.9	69.9	1.1	--	<0.01
APR								
12...	0.4	9.7	1940	2.6	152	1.5	--	0.01
MAY								
09...	0.3	9.1	979	1.3	116	0.43	--	0.03
JUN								
18...	0.3	7.0	535	0.73	262	0.53	--	<0.01
JUL								
19...	0.4	8.7	1080	1.5	143	0.5	<1.00	0.13
AUG								
24...	0.4	9.4	2940	4.0	1040	0.87	--	<0.01
SEP								
12...	0.4	10	2510	3.4	430	0.78	--	<0.01

DIRTY DEVIL RIVER BASIN

09332700 MUDDY CREEK AT DELTA MINE, NEAR HANKSVILLE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT 14...	1230	230
NOV 09...	1230	200
DEC 08...	1100	240
APR 12...	1210	230
MAY 09...	1300	140
JUN 18...	1250	60
JUL 19...	1305	160
AUG 24...	1155	240
SEP 12...	1320	350

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .125 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .250 MM
NOV 09...	1230	21	4.5	196	11	--	--	--	--	--	--
DEC 08...	1100	12	0.0	369	12	--	--	--	--	--	--
APR 12...	1210	29	8.5	1420	111	39	47	68	89	99	100
MAY 09...	1300	44	13.0	2730	324	--	--	--	--	--	--
JUN 18...	1250	181	17.0	1500	733	26	38	56	82	98	100
JUL 19...	1305	49	25.5	836	111	--	--	--	--	--	--
AUG 24...	1155	131	18.5	76900	27200	--	--	--	--	--	--
SEP 12...	1320	63	20.0	10000	1710	--	--	--	--	--	--

09333500 DIRTY DEVIL RIVER ABOVE POISON SPRING WASH, NEAR HANKSVILLE, UT

LOCATION.--Lat 38°05'50", long 110°24'27", in NE1/4SW1/4SE1/4 sec.20, T.31 S., R.14 E., Garfield County, Hydrologic Unit 14070004, on right bank 0.25 mi upstream from Poison Spring Wash and 25.5 mi southeast of Hanksville.

DRAINAGE AREA.--4,159 mi^2.

PERIOD OF RECORD.--June 1948 to current year. Prior to October 1968 published as "near Hite."

REVISED RECORDS.--WDR UT-77-1: Drainage area. WDR UT-80-1: 1979, 1977-79(P).

GAGE.--Water-stage recorder. Altitude of gage is 3,850 ft from topographic map. Prior to July 15, 1964, at site 28 mi downstream at different datum. July 15, 1964 to Dec. 14, 1976, approximately 1,200 ft upstream at datum 4.83 ft higher. Dec. 15, 1976 to Sept. 30, 1980 at site 400 ft upstream at datum 4.28 ft higher.

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

AVERAGE DISCHARGE.--36 years, 101 ft^3/s, 73,170 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 35,000 ft^3/s Nov. 4, 1957, gage height, 28.1 ft from floodmarks, site and datum then in use, from rating curve extended above 9,000 ft^3/s on basis of slope-area measurement at gage height 20.65 ft; no flow at times many years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,700 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 24	2230	*5,630	11.01
Aug. 20	unknown	3,150	9.30

Minimum daily, 42 ft^3/s, May 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	586	135	95	111	139	111	185	81	389	160	423	146
2	683	130	92	112	138	117	185	70	440	158	643	148
3	415	128	88	115	139	112	165	66	453	166	355	126
4	219	127	85	119	138	101	154	50	417	139	285	133
5	146	129	84	125	139	93	135	51	430	136	90	123
6	160	128	80	124	138	96	114	55	473	131	110	115
7	139	127	86	146	138	78	111	78	450	127	140	91
8	152	125	89	139	138	91	102	83	490	121	105	82
9	188	122	93	146	137	92	104	60	532	116	65	76
10	171	121	95	146	134	176	86	42	406	167	58	65
11	83	121	96	157	134	156	114	62	343	177	54	57
12	104	121	96	153	140	156	111	136	298	99	48	49
13	121	120	97	131	158	148	113	237	241	86	64	44
14	134	124	99	84	160	182	114	298	208	104	74	58
15	138	127	104	87	150	197	115	310	183	229	95	49
16	140	130	107	95	150	201	117	351	164	502	105	223
17	142	133	108	109	161	191	118	381	179	226	130	341
18	145	141	108	80	169	195	119	340	183	147	150	140
19	150	158	108	100	129	181	127	309	191	134	300	90
20	152	147	109	110	124	162	251	333	185	100	820	110
21	157	134	108	130	117	186	183	375	163	107	250	130
22	159	143	108	140	121	171	127	425	133	86	280	140
23	160	138	107	150	122	151	109	462	137	148	330	119
24	161	111	106	160	107	153	112	444	133	480	280	105
25	160	140	105	160	107	163	100	451	149	588	240	98
26	160	154	101	151	116	150	109	457	165	788	250	103
27	160	162	98	146	108	172	125	490	164	309	235	102
28	161	118	105	143	104	159	90	483	176	385	230	102
29	160	95	108	140	106	150	87	445	175	312	190	101
30	155	95	109	139	---	124	80	406	157	260	196	101
31	148	---	110	139	---	165	---	378	---	458	164	---
TOTAL	5909	3884	3084	3987	3861	4580	3762	8209	8207	7146	6759	3367
MEAN	191	129	99.5	129	133	148	125	265	274	231	218	112
MAX	683	162	110	160	169	201	251	490	532	788	820	341
MIN	83	95	80	80	104	78	80	42	133	86	48	44
ACFT	11720	7700	6120	7910	7660	9080	7460	16280	16280	14170	13410	6680

CAL YR 1983	TOTAL	68209	MEAN	187	MAX	948	MIN	13	ACFT	135300
WTR YR 1984	TOTAL	62755	MEAN	171	MAX	820	MIN	42	ACFT	124500

09337000 PINE CREEK NEAR ESCALANTE, UT

LOCATION.--Lat 37°51'45", long 111°38'07", in SW1/4NE1/4SW1/4 sec.12, T.34 S., R.2 E., Garfield County, Hydrologic Unit 14070005, on right bank 0.2 mi upstream from unnamed right bank tributary and 7 mi north of Escalante.

DRAINAGE AREA.--68.1 mi^2.

PERIOD OF RECORD.--July 1950 to September 1955, July 1957 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,400 ft from topographic map.

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

AVERAGE DISCHARGE.--32 years, 4.90 ft^3/s, 3,550 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,010 ft^3/s Aug. 2, 1967, gage height, 7.72 ft, from rating curve extended above 35 ft^3/s on basis of slope-area measurement at gage height 7.70 ft; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 100 ft^3/s, 126 ft^3/s Aug. 18, gage height, 3.47 ft; minimum daily, 2.8 ft^3/s Jan. 16-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	7.6	5.8	5.2	6.5	6.9	5.4	8.3	8.9	12	8.9	4.4
2	13	7.9	6.0	4.8	6.4	6.9	5.2	8.0	8.0	12	5.4	4.1
3	11	7.7	5.5	5.1	6.5	6.6	5.2	8.6	7.7	11	4.9	4.7
4	10	7.5	5.0	5.4	6.5	6.0	5.4	9.8	7.5	10	4.9	6.3
5	9.7	7.4	4.5	5.6	6.4	6.6	5.7	15	8.6	9.8	5.2	6.4
6	9.4	7.4	4.0	5.7	6.3	7.5	5.7	16	8.0	9.7	6.3	6.0
7	9.2	7.4	8.7	5.7	6.3	7.7	5.4	15	8.9	9.8	5.7	5.5
8	9.2	8.5	8.8	5.7	6.5	7.5	6.0	15	7.5	10	5.2	5.6
9	8.9	5.8	8.7	5.0	6.8	6.9	6.3	21	6.0	10	5.2	5.7
10	8.8	7.8	7.8	3.8	6.4	6.9	5.7	38	5.4	9.5	4.9	5.9
11	8.6	7.7	7.3	3.3	6.3	6.6	6.6	47	5.2	6.5	4.9	6.7
12	8.6	7.7	7.0	3.0	7.2	6.3	6.0	43	4.5	5.9	5.4	6.7
13	8.7	7.6	6.7	3.0	7.1	6.6	6.9	31	4.3	6.4	7.7	6.5
14	8.9	7.2	6.8	3.0	6.3	6.9	7.2	32	3.7	7.5	8.0	6.4
15	8.9	6.7	7.3	3.0	6.0	6.9	7.7	35	3.5	15	9.8	6.3
16	8.9	7.5	6.5	2.8	7.1	6.9	8.6	28	3.7	9.5	6.6	9.7
17	8.9	7.8	7.3	2.8	6.8	6.6	10	19	3.8	7.2	6.0	7.5
18	8.9	7.8	6.9	2.8	6.9	4.5	11	16	3.8	6.9	28	7.3
19	8.1	6.1	6.5	3.3	6.5	6.3	11	13	3.3	6.9	22	7.4
20	7.9	8.1	6.2	3.7	6.9	6.6	9.8	9.2	3.1	6.6	14	12
21	7.8	7.3	6.7	3.9	7.2	6.9	9.2	8.3	4.5	6.9	11	8.6
22	7.9	5.0	4.3	4.5	6.7	6.6	8.6	7.5	6.6	7.5	11	7.5
23	7.9	3.2	5.0	4.0	7.3	6.3	8.9	6.3	8.9	7.2	8.3	7.1
24	7.8	3.7	5.8	5.5	7.1	6.9	9.5	6.0	9.5	6.6	8.0	6.8
25	7.8	4.5	5.2	7.2	6.5	6.9	11	5.4	11	6.6	17	6.8
26	7.7	4.1	6.4	6.9	7.2	6.9	9.2	5.2	11	6.3	7.1	5.4
27	7.8	3.9	6.6	6.6	6.7	6.3	8.6	4.7	11	5.7	6.9	4.3
28	7.7	4.7	6.1	6.6	6.7	4.9	8.3	4.7	9.5	7.2	9.1	3.9
29	7.7	5.1	3.8	6.6	7.2	6.6	8.9	7.5	11	6.6	5.2	3.6
30	7.7	5.5	4.7	6.5	---	6.9	8.9	7.7	13	5.4	4.7	3.7
31	7.7	---	5.8	6.7	---	5.4	---	8.6	---	12	4.6	---
TOTAL	282.1	196.2	193.7	147.7	194.3	204.3	231.9	499.8	211.4	260.2	261.9	188.8
MEAN	9.10	6.54	6.25	4.76	6.70	6.59	7.73	16.1	7.05	8.39	8.45	6.29
MAX	21	8.5	8.8	7.2	7.3	7.7	11	47	13	15	28	12
MIN	7.7	3.2	3.8	2.8	6.0	4.5	5.2	4.7	3.1	5.4	4.6	3.6
ACFT	560	389	384	293	385	405	460	991	419	516	519	374

CAL YR 1983	TOTAL	4729.5	MEAN	13.0	MAX	84	MIN	2.7	ACFT	9380
WTR YR 1984	TOTAL	2872.3	MEAN	7.85	MAX	47	MIN	2.8	ACFT	5700

09337500 ESCALANTE RIVER NEAR ESCALANTE, UT

LOCATION.--Lat 37°46'41", long 111°34'26", in NE1/4NW1/4SE1/4 sec.9, T.35 S., R.3 E., Garfield County, Hydrologic Unit 14070005, on left bank 150 ft downstream from Pine Creek and 2 mi northeast of Escalante.

DRAINAGE AREA.--320 mi^2.

PERIOD OF RECORD.--August 1909 to April 1913, October 1942 to September 1955, December 1971 to current year. Published as Escalante Creek near Escalante 1909-13.

REVISED RECORDS.--WSP 1149: 1943(M), 1944, 1945(M). WRD UT-73-1: 1972.

GAGE.--Water-stage recorder. Altitude of gage, 5,670 ft from topographic map. Prior to Apr. 30, 1913, staff gage at approximately same site at different datum.

REMARKS.--Records fair. Diversions above station for irrigation of about 2,300 acres of crop and pastureland.

AVERAGE DISCHARGE.--28 years (1909-12, 1942-55, 1972-84), 15.4 ft^3/s, 11,160 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,450 ft^3/s August 1953, day unknown, gage height, 9.9 ft from outside high-water mark, from rating curve extended above 540 ft^3/s on basis of slope-area measurements at gage heights, 5.50 ft and 7.34 ft from inside gage and 7.59 ft from outside high-water mark; minimum, 0.07 ft^3/s Dec. 24, 1978, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,000 ft^3/s Aug. 6, from slope-area measurement at gage height 5.31 ft; minimum daily, 1.4 ft^3/s Aug. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	12	10	14	18	9.5	18	10	15	4.7	11	11
2	19	12	11	12	17	9.0	12	9.4	15	4.2	3.4	10
3	12	12	11	11	17	8.4	5.0	8.1	13	6.6	1.6	5.6
4	10	12	13	14	16	8.2	5.0	7.4	12	2.8	1.4	6.3
5	9.0	11	12	18	16	8.5	7.4	7.7	15	2.4	9.9	5.6
6	9.2	11	12	18	15	9.0	7.4	8.6	13	3.2	100	2.2
7	9.2	11	18	17	14	8.5	7.4	8.6	14	3.2	19	3.9
8	9.7	10	19	19	15	8.4	5.0	9.0	15	3.0	4.4	4.1
9	9.9	9.0	20	21	17	8.2	5.3	13	14	3.6	2.8	4.7
10	10	11	21	20	14	8.1	4.4	24	13	3.0	1.7	5.0
11	11	12	19	22	13	9.0	5.3	50	9.4	2.4	2.4	4.4
12	11	13	19	23	14	5.3	3.9	59	13	2.0	20	4.4
13	11	14	19	20	15	6.6	5.0	51	15	4.0	17	9.0
14	11	11	21	15	16	16	5.0	54	8.6	40	42	6.6
15	10	9.6	24	12	19	18	4.7	68	5.9	10	77	7.0
16	9.6	10	20	10	15	18	5.3	84	3.9	3.6	17	31
17	9.8	11	19	9.0	14	25	5.0	68	3.2	3.7	15	12
18	10	12	17	8.2	13	30	5.0	38	2.6	2.9	12	2.8
19	9.0	11	20	8.8	10	12	5.0	34	2.2	2.7	11	4.4
20	9.0	12	10	9.9	11	12	5.6	32	2.0	2.0	10	8.0
21	8.6	11	8.2	11	11	16	7.0	30	2.0	3.6	12	5.0
22	9.9	10	10	13	12	13	5.3	34	2.0	3.2	35	4.1
23	8.6	8.6	13	16	11	8.1	4.7	30	2.2	3.2	58	3.8
24	9.9	10	13	16	10	9.4	4.2	23	2.0	17	24	3.8
25	11	11	13	17	9.9	14	7.4	20	2.0	4.2	40	4.0
26	11	10	12	18	10	16	4.4	18	2.8	5.6	24	5.0
27	11	9.6	15	20	9.9	18	3.9	18	2.8	30	31	3.9
28	12	9.3	17	17	9.7	8.1	4.7	15	1.9	19	29	3.9
29	13	10	15	19	9.6	9.4	7.0	16	2.2	18	17	3.8
30	12	10	13	20	---	18	11	15	2.2	28	12	3.7
31	12	---	15	20	---	12	---	15	---	25	11	---
TOTAL	368.4	326.1	479.2	488.9	392.1	379.7	186.3	877.8	226.9	266.8	671.6	189.0
MEAN	11.9	10.9	15.5	15.8	13.5	12.2	6.21	28.3	7.56	8.61	21.7	6.30
MAX	50	14	24	23	19	30	18	84	15	40	100	31
MIN	8.6	8.6	8.2	8.2	9.6	5.3	3.9	7.4	1.9	2.0	1.4	2.2
ACFT	731	647	950	970	778	753	370	1740	450	529	1330	375

CAL YR 1983	TOTAL	10548.0	MEAN	28.9	MAX	192	MIN	4.0	ACFT	20920
WTR YR 1984	TOTAL	4852.8	MEAN	13.3	MAX	100	MIN	1.4	ACFT	9630

NOTE.--No gage height record Nov. 8 to Mar. 9.

09368000 SAN JUAN RIVER AT SHIPROCK, NM
(National stream-quality accounting network, surveillance network, and radiochemical network station)

LOCATION.--Lat 36°47'32", long 108°43'54", in NW1/4 sec.27, T.30 N., R.18 W., San Juan County, Hydrologic Unit 14080105, on left bank 3 mi west of Shiprock, 6 mi downstream from Chaco River, and at mile 215.0.

DRAINAGE AREA.--12,900 mi^2, approximately.

PERIOD OF RECORD.--January to October 1911, February 1927 to current year. Monthly or yearly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1243: 1931, 1934-38, 1951. WSP 1313: 1911, 1933. WDR NM-78-1: 1977.

GAGE.--Water-stage recorder. Datum of gage is 4,848.68 ft NGVD of 1929 (river-profile survey). Prior to Apr. 6, 1922, nonrecording gage and Apr. 7, 1922, to Oct. 25, 1933, water-stage recorder, at site 3 mi upstream at different datum. Oct. 26, 1933, to Sept. 30, 1936, water-stage recorder at present site at datum 3.31 ft higher and Oct. 1, 1936, to Sept. 30, 1952, at datum 1.77 ft higher. Supplementary water-stage recorders at nearby sites, same datum, used at times.

REMARKS.--Records good. Since 1962 flow partly regulated by Navajo Reservoir (station 09355100). Diversions for irrigation of about 118,000 acres above station. Ungaged canals bypass station on both right and left bank, though some of bypass flow is returned to river below gage.

AVERAGE DISCHARGE.--58 years (water years 1927-84), 2,184 ft^3/s, 1,582,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD (SINCE 1927).--Maximum discharge, about 80,000 ft^3/s Aug. 11, 1929, gage height, 5.7 ft, site and datum then in use; minimum daily, 8 ft^3/s Aug. 25, 26, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood occurred Oct. 6, 1911, and reached a stage of 22 ft, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 6,000 ft^3/s, 10,400 ft^3/s May 26, gage height, 7.97 ft; minimum daily, 739 ft^3/s Nov. 5-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2670	1330	1500	1510	2360	2730	2090	2250	6440	3200	1800	2300
2	3540	1060	1520	1500	2350	2700	2160	2090	5870	2890	1550	3030
3	2720	756	1550	1420	2340	2720	2150	2110	5100	2970	1420	2030
4	2310	741	1550	1450	2370	2850	2100	2090	4670	2940	1330	1630
5	2000	739	1550	1520	2390	2820	2100	2150	4100	2710	1230	1420
6	1880	739	1500	1790	2400	2730	2030	2280	3970	2500	1950	1250
7	1760	739	1440	2120	2610	2810	2090	2340	3220	2280	2620	1030
8	1700	920	1440	2270	2640	2550	2170	2390	3070	2130	2060	983
9	1700	1400	1450	2300	2640	2390	2230	2340	2810	2130	1530	924
10	1680	1450	1480	2310	2660	2440	2440	2690	2600	2270	1370	844
11	1670	1400	1490	2360	2690	2610	2420	3290	2540	2320	1230	886
12	1670	1340	1500	2340	2660	2750	2340	4120	2570	2310	1060	1040
13	1760	1390	1490	2410	2650	2650	2340	5170	2860	2030	1360	1120
14	1790	1350	1490	2470	2610	2660	2310	5300	3380	2400	1130	1020
15	1700	1280	1500	2480	2660	2710	2380	5570	3820	2220	1210	1010
16	1720	1330	1510	2440	2610	2430	2500	6380	3970	2170	1370	1040
17	1690	1330	1470	2430	2650	2190	2710	5890	3990	2210	3050	1230
18	1630	1500	1490	2390	2720	2130	2920	5530	3580	1920	3490	1360
19	1620	1490	1490	2330	2700	2140	3250	5340	3390	1700	2360	1260
20	1600	1510	1490	2380	2660	2100	3480	4990	3080	1530	2010	1190
21	1580	1540	1480	2370	2670	2130	3190	5710	3180	1530	2140	1170
22	1570	1630	1470	2390	2650	2210	2720	6500	3470	1480	1750	1160
23	1570	1550	1450	2380	2650	2360	2490	7410	3640	1530	3110	1150
24	1500	1500	1490	2430	2620	2260	2320	8420	3410	1540	3590	1110
25	1420	1520	1520	2410	2630	2210	2190	9380	3190	1430	2890	1130
26	1450	1550	1750	2420	2780	2280	2410	9880	3310	1600	2530	1320
27	1420	1520	2010	2400	2760	2360	2360	9670	3680	1610	2340	1450
28	1390	1450	2510	2390	2650	2240	2290	9030	3750	1550	1850	1480
29	1390	1420	2120	2390	2680	2140	2300	8130	3380	1650	1580	1420
30	1400	1480	1560	2370	---	2120	2260	7420	3190	2100	1380	1340
31	1390	---	1510	2380	---	2140	---	6950	---	2000	1320	---
TOTAL	54890	38954	48770	68550	75460	75560	72740	162810	109230	64850	59610	39327
MEAN	1771	1298	1573	2211	2602	2437	2425	5252	3641	2092	1923	1311
MAX	3540	1630	2510	2480	2780	2850	3480	9880	6440	3200	3590	3030
MIN	1390	739	1440	1420	2340	2100	2030	2090	2540	1430	1060	844
ACFT	108900	77270	96740	136000	149700	149900	144300	322900	216700	128600	118200	78010

CAL YR 1983 TOTAL 964683 MEAN 2643 MAX 8020 MIN 739 ACFT 1913000
WTR YR 1984 TOTAL 870751 MEAN 2379 MAX 9880 MIN 739 ACFT 1727000

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for New Mexico, 1984."

09378100 NORTH CREEK ABOVE RANGER STATION, NEAR MONTICELLO, UT

LOCATION.--Lat 37°52'23", long 109°21'57", in SE1/4SW1/4 sec.26, T.33 S., R.23 E., San Juan County, Hydrologic Unit 14080203, on left bank 0.5 mi northwest of Baker Ranger Station, 1.3 mi west of Monticello.

DRAINAGE AREA.--8.68 mi^2.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,180 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--5 years, 2.02 ft^3/s, 1,460 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 91 ft^3/s June 2, 1983, gage height, 5.64 ft; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20 ft^3/s May 15, gage height, 4.84 ft, no peak above base of 30 ft^3/s; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	1.1	.61	.41	.31	.21	.77	.40	4.9	.13	.00	.00
2	.00	1.2	.63	.43	.31	.21	.69	.35	4.5	.11	.00	.00
3	.00	1.0	.51	.44	.31	.21	.67	.35	3.9	.09	.00	.00
4	.00	1.1	.55	.47	.31	.21	.66	.34	4.1	.08	.00	.00
5	.00	1.0	.60	.49	.31	.21	.69	.33	3.7	.07	.00	.00
6	.31	1.0	.50	.51	.31	.21	.71	.31	4.3	.06	.00	.00
7	.88	1.0	.52	.45	.32	.22	.55	.31	5.6	.06	.00	.00
8	.95	1.1	.65	.44	.31	.22	.66	.27	5.2	.06	.00	.00
9	1.2	.98	.74	.57	.30	.23	.84	.27	4.5	.05	.00	.00
10	1.0	1.0	.70	.43	.31	.25	.60	.25	4.0	.04	.00	.00
11	.56	.96	.62	.49	.31	.27	.78	2.3	2.5	.04	.00	.00
12	1.2	.86	.64	.40	.30	.28	.60	7.4	1.1	.03	.00	.00
13	1.2	.98	.61	.37	.33	.30	.73	6.9	.85	.02	.00	.00
14	1.4	.94	.59	.36	.32	.33	.89	9.2	.68	.01	.00	.00
15	1.6	.72	.63	.37	.30	.47	1.2	14	.88	.00	.00	.00
16	1.2	.91	.44	.36	.28	.61	1.7	17	.78	.00	.00	.00
17	1.4	1.0	.56	.35	.29	.58	2.1	15	.39	.00	.00	.00
18	1.4	.95	.56	.34	.27	.51	2.1	11	.70	.00	.00	.00
19	1.6	.75	.56	.32	.25	.57	1.7	5.9	.43	.00	.00	.00
20	1.3	.93	.48	.31	.24	.53	1.5	4.3	.41	.00	.00	.00
21	1.5	.81	.44	.31	.24	.63	1.5	5.7	.95	.00	.00	.00
22	1.4	.73	.45	.35	.24	.70	1.4	8.1	.90	.00	.00	.00
23	1.4	.73	.41	.35	.24	.68	1.2	9.1	.59	.00	.00	.00
24	1.2	.73	.53	.35	.24	.61	1.2	11	.52	.00	.00	.00
25	1.4	.63	.60	.35	.24	.65	1.4	11	.44	.00	.00	.00
26	1.2	.77	.61	.35	.24	.72	1.1	9.1	.36	.00	.00	.00
27	1.2	.67	.60	.35	.22	.76	.81	7.4	.30	.00	.00	.00
28	1.3	.68	.42	.35	.21	.74	.68	6.1	.24	.00	.00	.00
29	1.2	.60	.41	.35	.21	.76	.72	5.2	.19	.00	.00	.00
30	1.5	.72	.38	.35	---	.77	.76	4.8	.17	.00	.00	.00
31	1.2	---	.38	.34	---	.75	---	4.7	---	.00	.00	---
TOTAL	31.70	26.55	16.93	12.11	8.07	14.40	30.91	178.38	58.08	.85	.00	.00
MEAN	1.02	.88	.55	.39	.28	.46	1.03	5.75	1.94	.03	.00	.00
MAX	1.6	1.2	.74	.57	.33	.77	2.1	17	5.6	.13	.00	.00
MIN	.00	.60	.38	.31	.21	.21	.55	.25	.17	.00	.00	.00
ACFT	63	53	34	24	16	29	61	354	115	1.7	.00	.00

CAL YR 1983	TOTAL	2012.08	MEAN	5.51	MAX	73	MIN	.00	ACFT 3990
WTR YR 1984	TOTAL	377.98	MEAN	1.03	MAX	17	MIN	.00	ACFT 750

09378200 MONTEZUMA CREEK AT GOLF COURSE, AT MONTICELLO, UT

LOCATION.--Lat 37°51'38", long 109°20'30", in SW1/4SE1/4 sec.36, T.33 S., R.23 E., San Juan County, Hydrologic Unit 14080203, on left bank 1,000 ft west of State Highway 163 and 0.8 mi south of Monticello.

DRAINAGE AREA.--17.6 mi^2.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,900 ft from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 537 ft^3/s Apr. 24, 1983, gage height, 5.77 ft; no flow many days each year.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 24	2000	*537	5.77
May 30	0100	214	5.33

No flow Sept. 28 and 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	.33	.20	.27	.58	1.7	15	103	182	20	.42	.16
2	.23	.27	.20	.33	.58	2.1	13	96	155	17	.42	.15
3	.24	.22	.22	.35	.44	1.7	11	98	103	15	.42	.14
4	.22	.27	.24	.38	.38	1.4	7.5	116	73	15	.42	.13
5	.22	.27	.24	.42	.46	1.3	6.4	132	68	16	.34	.13
6	.22	.29	.23	.42	.50	1.3	5.0	92	63	15	.27	.12
7	.22	.27	.21	.39	.26	2.0	4.8	80	65	14	.27	.12
8	.22	.33	.19	.36	.32	2.7	4.6	110	68	11	.24	.14
9	.22	.43	.20	.33	.34	3.0	5.0	116	69	10	.22	.15
10	.22	.47	.18	.54	.37	3.3	6.4	112	62	9.4	.20	.15
11	.22	.36	.16	.47	.40	6.6	6.9	96	59	8.4	.19	.13
12	.22	.36	.12	.45	.44	15	5.2	84	66	6.0	.19	.12
13	.15	.33	.11	.43	.44	17	5.0	72	52	4.0	.19	.11
14	.16	.38	.10	.32	.54	18	5.2	53	40	2.5	.19	.11
15	.16	.43	.09	.32	.60	14	24	40	32	2.2	.19	.11
16	.16	.40	.07	.35	.80	6.1	6.4	36	30	1.8	.18	.11
17	.16	.43	.07	.24	.68	5.0	10	32	33	1.5	.18	.11
18	.16	.43	.07	.23	.43	4.4	32	28	44	1.3	.18	.11
19	.16	.47	.06	.26	.60	4.4	54	24	55	1.2	.18	.11
20	.16	.43	.06	.26	.60	3.5	69	21	54	1.0	.18	.11
21	.16	.43	.05	.26	1.1	2.8	84	21	49	.80	.18	.11
22	.19	.43	.11	.26	1.3	2.8	88	27	46	.68	.18	.11
23	.16	.36	.22	.30	2.0	2.2	114	37	43	.90	.18	.11
24	.16	.47	.19	.38	2.8	1.6	248	72	45	.70	.16	.13
25	.16	.47	.17	.38	2.8	4.2	296	80	38	.64	.16	.11
26	.29	.36	.22	.43	2.0	2.8	252	83	36	.62	.15	.11
27	.59	.38	.36	.47	1.4	2.0	233	154	32	.62	.16	.16
28	.36	.38	.27	.52	1.2	1.6	210	187	28	.62	.19	.09
29	.29	.36	.22	.54	---	1.7	178	180	26	.50	.26	.15
30	.29	.27	.21	.54	---	3.8	178	200	23	.50	.22	8.5
31	.36	---	.21	.58	---	14	---	202	---	.50	.19	---
TOTAL	6.98	11.08	5.25	11.78	24.36	154.0	2177.4	2784	1739	179.38	7.10	12.10
MEAN	.23	.37	.17	.38	.87	4.97	72.6	89.8	58.0	5.79	.23	.40
MAX	.59	.47	.36	.58	2.8	18	296	202	182	20	.42	8.5
MIN	.15	.22	.05	.23	.26	1.3	4.6	21	23	.50	.15	.09
AC-FT	14	22	10	23	48	305	4320	5520	3450	356	14	24

CAL YR 1982	TOTAL	137.45	MEAN	.38	MAX	4.2	MIN	.00	AC-FT	273
WTR YR 1983	TOTAL	7112.43	MEAN	19.5	MAX	296	MIN	.05	AC-FT	14110

NOTE.--Data for 1983 water year was inadvertently omitted from 1983 report.

09378200 MONTEZUMA CREEK AT GOLF COURSE, AT MONTICELLO, UT

LOCATION.--Lat 37°51'38", long 109°20'30", in SW1/4SE1/4 sec.36, T.33 S., R.23 E., San Juan County, Hydrologic Unit 14080203, on left bank 1,000 ft west of State Highway 163 and 0.8 mi south of Monticello.

DRAINAGE AREA.--17.6 mi2.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,900 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--5 years, 6.94 ft^3/s. 5,030 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 537 ft^3/s Apr. 24, 1983, gage height, 5.77 ft; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29 ft^3/s May 15, gage height, 4.46 ft, no peak above base of 100 ft^3/s; minimum daily, .02 ft^3/s Sept. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	.94	.98	.82	.77	.98	3.8	1.3	1.6	.29	.15	.10
2	1.2	.90	1.0	.79	.79	1.3	3.3	.56	1.3	.29	.14	.10
3	.68	.94	.87	.75	.84	1.2	3.9	.38	1.6	.25	.13	.09
4	.56	.97	.93	.83	.84	1.0	3.9	.25	1.7	.30	.13	.08
5	.58	.95	.91	.87	.84	1.0	5.2	.30	3.0	.30	.16	.08
6	.78	.95	1.1	.93	.80	1.1	6.3	.25	4.4	.29	.25	.08
7	.75	.97	.92	.96	.77	1.4	6.6	.24	11	.29	.13	.03
8	.84	.99	1.0	1.0	.77	1.4	6.8	.27	7.7	.32	.14	.05
9	.84	.97	1.1	1.0	.77	1.5	8.6	.39	7.2	.38	.13	.09
10	.80	.99	1.1	1.0	.84	1.7	7.1	.97	6.9	.37	.10	.10
11	.86	.95	1.0	.98	.80	1.7	6.5	2.8	6.1	.33	.10	.07
12	.93	.95	1.1	.95	.84	1.8	4.8	7.9	4.7	.31	.12	.05
13	.95	.97	1.0	.95	.90	2.3	5.4	9.1	2.4	.31	.15	.02
14	.98	.95	1.0	.98	.96	3.0	5.8	12	1.2	.37	.12	.05
15	1.0	.97	1.1	.93	.90	3.5	4.6	23	.89	.64	.14	.08
16	.98	.95	.90	.88	.92	4.5	4.5	23	.80	.60	.13	.13
17	.98	.93	.97	.92	.91	3.8	4.8	23	.71	.35	.14	.10
18	1.0	.95	.99	.72	.93	3.1	5.3	18	.63	.27	.11	.11
19	1.2	.81	.99	.80	.90	2.9	5.6	12	.59	.35	.10	.13
20	1.7	.96	.96	.90	.93	3.6	5.0	9.5	.54	.24	.15	.17
21	.96	.93	.92	.90	.93	5.5	4.1	11	.54	.42	.15	.16
22	.98	1.0	.97	.95	1.0	6.0	3.7	12	.53	.43	.11	.12
23	.98	.95	.95	.90	.96	3.4	3.1	15	.52	.43	.11	.11
24	.96	1.0	.98	.84	.96	4.0	3.2	19	.50	.27	.09	.18
25	1.0	.92	1.0	.79	.96	4.5	3.9	18	.49	.22	.10	.22
26	.84	.91	1.1	.79	1.0	4.0	3.8	12	.38	.25	.09	.35
27	.96	.90	1.2	.79	.96	3.7	3.9	5.6	.35	.21	.09	.30
28	.96	1.1	.92	.79	.90	3.2	3.2	3.4	.31	.20	.12	.25
29	.94	.96	.77	.84	.93	3.5	2.2	2.0	.30	.17	.12	.25
30	.97	1.1	.80	.84	---	4.0	1.8	2.3	.31	.20	.09	.20
31	.96	---	.83	.96	---	3.6	---	1.5	---	.17	.10	---
TOTAL	30.22	28.73	30.36	27.35	25.62	88.18	140.7	247.01	69.19	9.82	3.89	3.85
MEAN	.97	.96	.98	.88	.88	2.84	4.69	7.97	2.31	.32	.13	.13
MAX	2.1	1.1	1.2	1.0	1.0	6.0	8.6	23	11	.64	.25	.35
MIN	.56	.81	.77	.72	.77	.98	1.8	.24	.30	.17	.09	.02
ACFT	60	57	60	54	51	175	279	490	137	19	7.7	7.6

CAL YR 1983	TOTAL	7178.43	MEAN	19.7	MAX	296	MIN	.09	ACFT	14240
WTR YR 1984	TOTAL	704.92	MEAN	1.93	MAX	23	MIN	.02	ACFT	1400

09378630 RECAPTURE CREEK NEAR BLANDING, UT

LOCATION.--Lat 37°45'20", long 109°28'33", in NW1/4NE1/4NW1/4 sec.11, T.35 S., R.22 E., San Juan County, Hydrologic Unit 14080201, on right bank 100 ft below road fork, 1.9 mi north of Manti-LaSal National Forest boundary, and 9.4 mi north of Blanding.

DRAINAGE AREA.--3.77 mi^2.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,200 ft from topographic map.

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

AVERAGE DISCHARGE.--19 years, 1.44 ft^3/s, 1,040 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 142 ft^3/s Oct. 20, 1972, gage height, 2.14 ft; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 8.0 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 19	1230	13	1.19
May 15	1700	*15	1.22

No flow many days in September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.39	.06	.06	.07	.05	.07	.61	2.2	.75	.18	.03	.03
2	.28	.04	.06	.06	.06	.10	.63	2.4	.60	.17	.03	.02
3	.16	.07	.05	.05	.06	.09	.65	2.4	.48	.14	.03	.02
4	.10	.08	.05	.06	.07	.08	.71	3.1	.42	.14	.03	.02
5	.07	.07	.04	.07	.07	.08	.85	3.7	1.2	.13	.04	.02
6	.07	.07	.03	.07	.06	.09	1.0	4.4	1.4	.11	.03	.01
7	.07	.10	.05	.06	.05	.13	1.1	4.8	1.4	.11	.02	.01
8	.07	.15	.06	.06	.05	.13	1.5	4.6	1.0	.12	.02	.02
9	.07	.11	.08	.07	.05	.30	1.9	5.3	.83	.11	.02	.01
10	.07	.13	.08	.05	.06	.50	1.9	7.0	.73	.09	.02	.01
11	.07	.07	.07	.06	.05	.45	2.0	9.0	.64	.08	.02	.02
12	.07	.07	.07	.05	.05	.60	2.0	10	.56	.07	.02	.02
13	.07	.09	.06	.05	.06	.80	2.3	10	.51	.08	.03	.02
14	.07	.07	.06	.06	.07	.70	2.9	11	.46	.08	.03	.01
15	.07	.09	.06	.05	.06	.70	3.9	12	.44	.11	.03	.02
16	.07	.07	.05	.04	.08	.80	5.3	8.6	.45	.11	.02	.03
17	.07	.06	.07	.05	.07	.80	7.0	7.5	.42	.08	.02	.05
18	.07	.07	.06	.02	.08	.70	8.3	6.1	.38	.08	.02	.03
19	.07	.07	.06	.04	.07	.90	8.4	4.6	.35	.07	.06	.02
20	.07	.07	.05	.04	.08	1.0	7.1	3.8	.33	.05	.07	.01
21	.07	.07	.04	.04	.08	1.3	5.2	3.6	.32	.05	.04	.03
22	.06	.07	.03	.05	.07	1.4	4.1	3.2	.32	.07	.02	.02
23	.04	.06	.06	.05	.05	1.0	3.9	2.8	.29	.08	.02	.02
24	.04	.05	.07	.06	.05	.99	4.1	2.5	.28	.05	.02	.02
25	.07	.05	.05	.06	.05	1.0	5.2	2.2	.28	.05	.04	.02
26	.07	.04	.05	.07	.05	1.0	5.0	1.8	.26	.05	.02	.07
27	.07	.04	.06	.06	.04	.84	5.1	1.4	.24	.04	.02	.06
28	.07	.04	.05	.07	.05	.78	3.8	1.1	.21	.04	.02	.04
29	.07	.04	.04	.08	.06	.76	3.0	.88	.21	.04	.02	.04
30	.07	.05	.07	.07	---	.79	2.6	.74	.20	.05	.02	.03
31	.07	---	.08	.06	---	.65	---	.67	---	.04	.02	---
TOTAL	2.75	2.12	1.77	1.75	1.75	19.53	102.05	143.39	15.96	2.67	.85	.75
MEAN	.09	.07	.06	.06	.06	.63	3.40	4.63	.53	.09	.03	.02
MAX	.39	.15	.08	.08	.08	1.4	8.4	12	1.4	.18	.07	.07
MIN	.04	.04	.03	.02	.04	.07	.61	.67	.20	.04	.02	.01
ACFT	5.5	4.2	3.5	3.5	3.5	39	202	284	32	5.3	1.7	1.5

CAL YR 1983	TOTAL	1680.03	MEAN	4.60	MAX	44	MIN	.01	ACFT	3330
WTR YR 1984	TOTAL	295.34	MEAN	.81	MAX	12	MIN	.01	ACFT	586

09378650 RECAPTURE CREEK BELOW JOHNSON CREEK, NEAR BLANDING, UT

LOCATION.--Lat 37°40'51", long 109°27'43", in SW1/4SW1/4SE1/4 sec.2, T.36 S., R.22 E., San Juan County, Hydrologic Unit 14080201, on left bank 0.2 mi downstream from Johnson Creek, 1.5 mi upstream from U.S. Highway 163 and 4.3 mi northwest of Blanding.

DRAINAGE AREA.--50.2 mi^2.

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,120 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--9 years, 9.68 ft^3/s, 7,010 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 695 ft^3/s Mar. 14, 1981, gage height, 5.67 ft; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32 ft^3/s May 15, gage height, 2.52 ft, no peak above base of 230 ft^3/s; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	.15	.10	.24	.10	.25	7.0	6.3	15	.07	.00	.01
2	7.6	.07	.10	.22	.11	.35	7.7	2.3	14	.06	.00	.00
3	9.7	.10	.09	.11	.11	.30	8.0	2.3	13	.07	.00	.00
4	8.4	.12	.09	.11	.13	.25	8.3	5.3	12	.06	.00	.00
5	6.8	.10	.08	.11	.13	.27	8.6	7.7	18	.05	.00	.00
6	5.1	.10	.05	.15	.10	.33	9.9	10	21	.04	.00	.00
7	4.9	.12	.09	.21	.07	.50	9.9	13	22	.03	.00	.00
8	4.3	.15	.15	.28	.07	.57	11	16	22	.03	.00	.00
9	4.3	.10	.19	.35	.06	1.2	12	20	17	.03	.00	.00
10	3.2	.12	.20	.27	.07	2.4	10	25	6.3	.02	.00	.00
11	2.5	.06	.19	.20	.05	3.8	11	25	5.8	.02	.00	.00
12	2.4	.06	.20	.12	.05	2.6	11	28	11	.03	.00	.00
13	2.4	.08	.23	.09	.09	3.3	12	25	16	.02	.00	.00
14	2.2	.06	.19	.09	.10	3.4	14	27	15	.03	.00	.00
15	1.2	.08	.19	.07	.07	3.9	17	31	14	.02	.00	.00
16	.70	.06	.15	.05	.08	3.8	21	28	14	.04	.00	.00
17	.58	.05	.17	.06	.06	2.3	19	27	14	.03	.00	.00
18	.52	.07	.13	.03	.07	1.1	19	23	13	.02	.00	.00
19	.37	.05	.12	.06	.05	.77	18	19	12	.01	.00	.00
20	.40	.05	.10	.06	.08	1.0	14	18	12	.01	.00	.00
21	.40	.05	.09	.06	.08	1.9	11	17	11	.01	.00	.00
22	.25	.04	.14	.09	.07	2.1	15	17	11	.00	.00	.00
23	.15	.04	.14	.09	.05	1.0	16	16	11	.01	.00	.00
24	.17	.05	.11	.12	.05	.90	17	16	11	.00	.02	.00
25	.20	.07	.17	.12	.05	1.3	20	15	12	.00	.01	.00
26	.20	.05	.74	.15	.05	1.1	18	14	21	.00	.00	.00
27	.20	.04	1.8	.13	.04	.79	18	14	1.5	.00	.00	.00
28	.20	.05	1.0	.15	.10	.43	15	13	.18	.00	.00	.00
29	.20	.04	.40	.17	.15	.49	15	13	.12	.00	.00	.00
30	.20	.06	.46	.13	---	.55	11	14	.07	.00	.00	.00
31	.20	---	.28	.12	---	1.5	---	12	---	.00	.00	---
TOTAL	78.04	2.24	8.14	4.21	2.29	44.45	404.4	519.9	365.97	.71	.03	.01
MEAN	2.52	.07	.26	.14	.08	1.43	13.5	16.8	12.2	.02	.00	.00
MAX	9.7	.15	1.8	.35	.15	3.9	21	31	22	.07	.02	.01
MIN	.15	.04	.05	.03	.04	.25	7.0	2.3	.07	.00	.00	.00
ACFT	155	4.4	16	8.4	4.5	88	802	1030	726	1.4	.06	.02

CAL YR 1983	TOTAL	8465.40	MEAN	23.2	MAX	212	MIN	.00	ACFT	16790
WTR YR 1984	TOTAL	1430.39	MEAN	3.91	MAX	31	MIN	.00	ACFT	2840

09378700 COTTONWOOD WASH NEAR BLANDING, UT

LOCATION.--Lat 37°33'38", long 109°34'41", in SW1/4NE1/4NW1/4 sec.23, T.37 S., R.21 E., San Juan County, Hydrologic Unit 14080201, on downstream end of center pier of highway bridge on State Highway 95, about 2.1 mi downstream from Brushy Basin Canyon, and 7.0 mi southwest of Blanding.

DRAINAGE AREA.--205 mi^2.

PERIOD OF RECORD.--October 1964 to current year. Annual maximum only December 1958 to September 1964 at crest-stage site.

GAGE.--Water-stage recorder. Datum of gage is 5,137.73 ft NGVD of 1929. Prior to October 1964, crest-stage gage only at site 300 ft upstream at different datum; October 1964 to July 13, 1966, at site 50 ft upstream at different datum. July 14, 1966 to Aug. 15, 1968, at same site at different datum.

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

AVERAGE DISCHARGE.--20 years, 8.91 ft^3/s, 6,450 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,500 ft^3/s Aug. 1, 1968, gage height, 20.68 ft; no flow during some periods each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 486 ft^3/s July 15, gage height, 3.59 ft, no peak above base of 900 ft^3/s; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	3.0	5.0	5.2	4.0	4.3	5.0	10	4.4	.00	.00	.35
2	53	3.1	5.2	4.4	4.3	4.1	6.2	9.0	4.5	.00	.00	.03
3	63	3.0	4.5	5.3	4.5	4.4	5.3	7.0	3.4	.00	.00	.00
4	51	3.0	13	8.6	4.7	3.7	4.5	5.0	2.9	.00	.00	.00
5	30	3.1	4.2	6.5	4.7	4.8	4.2	7.0	5.0	.00	.00	.00
6	20	3.0	8.8	5.8	4.3	4.0	4.2	9.0	21	.00	.00	.00
7	18	3.0	6.0	5.4	4.1	4.0	4.2	10	19	.00	.00	.00
8	15	3.8	5.0	5.2	4.1	4.1	3.5	12	10	.00	.00	.00
9	15	5.4	6.7	5.1	4.0	4.0	4.2	14	5.0	.00	.00	.00
10	10	3.1	6.9	4.6	4.2	4.1	4.6	14	3.0	.00	.00	.00
11	7.0	3.0	5.0	4.8	3.5	4.7	4.0	16	2.0	.00	.00	.00
12	6.0	3.0	4.9	5.5	3.5	4.8	4.1	14	1.0	.00	.00	.00
13	6.0	3.0	4.4	4.4	3.9	4.2	3.8	13	.50	.00	.00	.00
14	5.0	2.9	5.1	3.4	4.1	4.0	4.5	15	.40	.00	13	.00
15	3.0	2.8	4.5	3.2	3.9	4.2	5.7	16	.30	52	12	.00
16	2.7	2.8	3.8	2.8	4.1	4.1	7.5	15	.20	48	12	9.1
17	2.6	3.1	4.9	2.5	3.5	3.9	11	14	.10	10	4.3	3.0
18	2.5	3.8	4.1	2.1	3.7	3.9	16	12	.15	5.0	.23	.20
19	2.4	3.6	4.6	3.1	3.5	3.9	18	11	.10	2.5	.10	.12
20	2.6	3.5	4.5	3.5	3.7	3.7	21	10	.10	1.0	14	.05
21	2.6	4.4	3.5	3.3	3.6	3.7	17	9.0	.07	.70	22	.00
22	2.7	4.3	8.3	3.5	3.3	3.8	12	9.0	.06	.70	16	.00
23	2.7	3.3	10	3.7	3.1	3.8	12	8.0	.04	3.0	2.6	.00
24	2.8	3.4	5.6	3.9	3.1	3.5	14	8.0	.03	.50	110	.00
25	2.6	4.1	5.6	3.7	3.1	3.6	17	6.0	.02	.40	5.0	.00
26	2.7	4.1	9.0	4.0	3.1	4.2	17	5.0	.01	.45	3.0	.00
27	2.8	3.7	13	3.9	2.7	5.9	12	5.0	.00	.25	1.0	.00
28	2.8	5.7	17	4.5	3.1	4.2	10	4.0	.00	.12	.00	.00
29	2.8	6.0	5.2	4.9	3.5	3.9	10	4.0	.00	.05	.00	.00
30	2.9	6.0	8.2	4.6	---	4.7	9.3	3.5	.00	.01	.00	.00
31	2.9	---	8.3	4.5	---	5.4	---	3.5	---	.00	.00	---
TOTAL	457.1	110.0	204.8	135.9	108.9	129.6	271.8	298.0	83.28	124.68	215.23	12.85
MEAN	14.7	3.67	6.61	4.38	3.76	4.18	9.06	9.61	2.78	4.02	6.94	.43
MAX	112	6.0	17	8.6	4.7	5.9	21	16	21	52	110	9.1
MIN	2.4	2.8	3.5	2.1	2.7	3.5	3.5	3.5	.00	.00	.00	.00
ACFT	907	218	406	270	216	257	539	591	165	247	427	25

CAL YR 1983	TOTAL	9112.69	MEAN	25.0	MAX	270	MIN	.00	ACFT	18080
WTR YR 1984	TOTAL	2152.14	MEAN	5.88	MAX	112	MIN	.00	ACFT	4270

09379500 SAN JUAN RIVER NEAR BLUFF, UT

LOCATION.--Lat 37°08'49", long 109°51'51", in SE1/4NE1/4NW1/4 sec.7, T.42 S., R.19 E., San Juan County, Hydrologic Unit 14080205, on left bank 1,600 ft downstream from Gypsum Creek, 1,800 ft upstream from highway bridge, 20 mi southwest of Bluff, at mile 113.5.

DRAINAGE AREA.--23,000 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1914 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1213: 1940. WSP 1313: 1917, 1929. WSP 1343: 1945.

GAGE.--Water-stage recorder. Datum of gage is 4,048 ft from levels of Topographic Division, U.S. Geological Survey. Prior to Mar. 16, 1927, chain gages at sites about 1,700 ft downstream at different datums.

REMARKS.--Records good. Diversions for irrigation of approximately 200,000 acres above station. No diversion between station and mouth of river. Flow regulated by Navajo Reservoir since June 28, 1962 (see station 09355100 in New Mexico report).

AVERAGE DISCHARGE.--70 years, 2,542 ft^3/s, 1,842,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--1914-17, 1927-84; maximum discharge, 70,000 ft^3/s Sept. 10, 1927, gage height, 32.0 ft from rating curve extended above 31,000 ft^3/s and slope-area measurement at gage height 26.62 ft; no flow July 3-13, 1934, Aug. 24-27, 29, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 6, 1911, which is greatest known at Shiprock, NM, probably exceeded that of Sept. 10, 1927 at this station but stage was not accurately determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 8,000 ft^3/s, 9,260 ft^3/s May 26, gage height, 10.03 ft; minimum, 853 ft^3/s Nov. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3380	1440	1450	1580	2420	2810	2420	2760	6450	3290	2320	1910
2	3680	1370	1470	1580	2430	2870	2400	2670	6100	3210	1980	3920
3	4120	1340	1540	1580	2400	2920	2470	2530	5740	2860	1710	5850
4	2800	1020	1840	1530	2400	3230	2410	2560	5140	2860	1550	2660
5	2350	905	1810	1520	2430	3320	2290	2610	4790	2810	1480	2040
6	2040	889	1730	1600	2470	3220	2260	2770	4470	2570	1580	1760
7	2000	864	1530	1760	2470	3020	2260	2960	4320	2350	1880	1620
8	1890	874	1430	2060	2810	2990	2490	2960	3540	2160	2620	1430
9	1810	906	1450	2150	2920	2760	2630	2880	3360	2000	2070	1370
10	1760	1360	1500	2170	2950	2660	2660	2820	2990	1980	1770	1350
11	1730	1480	1530	2180	3000	2890	2760	3250	2590	2030	1540	1330
12	1700	1460	1540	2190	3050	3190	2610	3900	2330	2050	1470	1240
13	1670	1340	1540	2150	2940	3210	2570	4980	2220	2040	1340	1560
14	1680	1390	1540	2260	2920	2980	2520	5910	2390	1870	1500	1520
15	1710	1410	1500	2330	2930	3110	2520	6150	3140	2440	1640	1420
16	1610	1380	1490	2330	2930	3210	2660	6840	3910	2120	1650	1440
17	1600	1420	1520	2280	2870	2910	3000	7370	4130	2010	1760	1840
18	1570	1570	1480	2260	2950	2590	3310	6590	4010	2070	3240	1650
19	1550	1890	1480	2190	2890	2420	3660	6450	3470	1850	4100	1880
20	1510	1820	1510	2140	2820	2360	4230	6230	3080	1680	2970	1660
21	1500	1620	1550	2260	2820	2260	4310	6160	2790	1550	3680	1490
22	1510	1610	1510	2210	2830	2350	3820	6790	2830	1540	3020	1440
23	1490	1700	1510	2240	2830	2420	3340	7490	3090	1730	2190	1370
24	1530	1580	1490	2310	2820	2490	3100	7960	3300	2180	3400	1390
25	1480	1510	1600	2350	2810	2440	2960	8600	3110	1950	4840	1380
26	1440	1530	1680	2360	2840	2410	3040	9030	3110	1630	3390	1330
27	1450	1550	1920	2370	2840	2490	3320	8930	3340	1720	2750	1490
28	1450	1500	2380	2380	2830	2500	3140	8560	3640	1720	2600	1650
29	1420	1450	2720	2420	2830	2550	2940	8030	3530	1650	2210	1640
30	1400	1430	2200	2400	---	2700	2920	7400	3230	1900	2010	1610
31	1420	---	1570	2400	---	2700	---	6870	---	2410	1850	---
TOTAL	58250	41608	51010	65540	80450	85980	87020	171010	110140	66230	72110	54240
MEAN	1879	1387	1645	2114	2774	2774	2901	5516	3671	2136	2326	1808
MAX	4120	1890	2720	2420	3050	3320	4310	9030	6450	3290	4840	5850
MIN	1400	864	1430	1520	2400	2260	2260	2530	2220	1540	1340	1240
ACFT	115500	82530	101200	130000	159600	170500	172600	339200	218500	131400	143000	107600

CAL YR 1983	TOTAL	1147567	MEAN	3144	MAX	8410	MIN	864	ACFT	2276000
WTR YR 1984	TOTAL	943588	MEAN	2578	MAX	9030	MIN	864	ACFT	1872000

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1929 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1941 to September 1977, October 1980 to current year.
WATER TEMPERATURES: May 1944 to September 1961, October 1964 to current year.
SUSPENDED-SEDIMENT DISCHARGE: July 1929 to September 1980.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 2,790 micromhos Sept. 19, 1959; minimum daily, 208 micromhos June 17, 1952.
WATER TEMPERATURES: Maximum, 33.0°C July 31, 1959; minimum, 0.0°C on many days during winter period of most years.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 383,000 mg/L Sept. 21, 1929; minimum daily mean, no flow on several days in 1934 and 1939.
SEDIMENT LOADS: Maximum daily, 15,700,000 tons Oct. 20, 1972; minimum daily, 0 tons on several days in 1934 and 1939.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 1,030 micromhos Dec. 29; minimum recorded, 221 micromhos May 30.
WATER TEMPERATURES: Maximum recorded, 28.5°C Aug. 3; minimum recorded, 0.5°C Dec. 22, Jan. 18-24.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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 20...	1230	1530	660	8.1	25.0	13.0	--	8.9	661	--
NOV 21...	1300	1670	820	8.1	8.5	5.0	--	10.6	643	<1
DEC 20...	1215	1500	760	8.2	5.0	4.0	--	11.0	650	--
JAN 23...	1300	2280	500	8.2	4.0	0.5	--	12.6	650	--
FEB 21...	1230	2990	490	8.2	10.0	3.5	150	11.7	660	--
MAR 27...	1235	2580	610	8.1	13.0	8.0	--	9.7	659	--
APR 23...	1230	3410	520	8.3	23.0	12.0	--	--	--	--
MAY 23...	1200	7200	280	8.0	31.0	17.0	40	8.2	661	<1
JUN 28...	1230	3420	360	8.3	34.5	22.5	--	7.2	661	--
JUL 24...	1200	1510	560	8.0	30.0	25.0	240	6.9	662	--
AUG 28...	1215	2630	620	8.2	34.5	22.5	--	7.1	650	--
SEP 24...	1300	1380	660	8.3	29.0	18.5	--	7.7	658	--

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)
OCT 20...	--	270	5.3	74	20	45	27	1.2	2.6	130
NOV 21...	<1	--	--	--	--	--	--	--	--	--
DEC 20...	--	280	5.6	73	24	50	28	1.3	2.1	130
JAN 23...	--	200	3.9	52	16	35	28	1.1	2.4	110
FEB 21...	--	200	3.9	52	16	34	27	1.1	2.0	110
MAR 27...	--	240	4.8	62	21	39	26	1.1	2.3	120
APR 23...	--	200	3.9	52	16	38	30	1.2	1.0	110
MAY 23...	<1	120	2.4	35	7.3	13	19	0.5	1.6	72
JUN 28...	--	140	2.8	42	9.1	18	21	0.7	1.9	72
JUL 24...	--	210	4.2	60	15	35	26	1.1	2.0	110
AUG 28...	--	190	3.8	54	13	38	30	1.3	3.1	100
SEP 24...	--	240	4.8	67	18	41	27	1.2	2.7	120

DATE	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN. NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN. AMMONIA DISSOLVED (MG/L AS N)
OCT 20...	220	12	0.3	9.8	--	459	0.62	1900	0.27	--
NOV 21...	--	--	--	--	--	0.09	0.00	0.39	0.47	0.02
DEC 20...	240	17	0.3	9.3	--	494	0.67	2000	0.38	--
JAN 23...	150	9.6	0.3	11	--	343	0.47	2110	0.33	0.05
FEB 21...	160	10	0.3	10	345	351	0.47	2790	0.26	0.01
MAR 27...	200	13	0.3	8.5	--	416	0.57	2900	0.29	--
APR 23...	160	10	0.3	11	--	353	0.48	3250	0.37	--
MAY 23...	64	3.8	0.2	6.8	161	175	0.22	3130	0.18	0.03
JUN 28...	91	5.8	0.3	7.2	--	219	0.3	2020	0.13	--
JUL 24...	160	11	0.4	7.5	367	358	0.5	1500	0.16	0.04
AUG 28...	170	9.4	0.4	9.1	--	359	0.49	2550	0.36	--
SEP 24...	190	10	0.3	11	--	413	0.56	1540	0.19	--

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO. DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO. DISSOLVED (MG/L AS PO4)
OCT 20...	--	--	--	--	--	--	--	--	0.03	0.09
NOV 21...	0.03	3.0	3.00	3.0	13	0.90	2.8	0.00	0.02	0.06
DEC 20...	--	--	--	--	--	--	--	--	<0.01	0.03
JAN 23...	0.06	--	--	--	--	--	--	--	0.14	0.43
FEB 21...	0.01	0.4	0.4	0.4	1.8	0.29	0.89	0.01	0.02	0.06
MAR 27...	--	--	--	--	--	--	--	0.04	--	--
APR 23...	--	--	--	--	--	--	--	0.02	--	--
MAY 23...	0.04	0.3	0.3	0.3	1.3	0.25	--	0.11	<0.01	0.03
JUN 28...	--	--	--	--	--	--	--	--	0.10	0.31
JUL 24...	0.05	1.0	1.00	1.0	4.4	0.45	--	0.03	0.03	0.09
AUG 28...	--	--	--	--	--	--	--	--	0.10	0.31
SEP 24...	--	--	--	--	--	--	--	--	0.02	0.06

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
FEB 21...	1230	20	<1	83.00	<0.50	<1	<1	<3.00	3	20	<1
MAY 23...	1200	40	<1	57.00	<1.00	<1	<1	<3.00	3	40	<1
JUL 24...	1200	20	<1	100	<1.00	<1	4	<3.00	3	20	3

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
FEB 21...	20	2	<0.1	<10	<1	1	<1	640	<6.0	30
MAY 23...	20	3	<0.1	<10	6	<1	1	360	<6.0	10
JUL 24...	30	4	0.1	<10	5	<1	<1	830	<6.0	50

DATE	TIME	BORON, DISSOLVED (UG/L AS B)
OCT 20...	1230	50
DEC 20...	1215	60
JAN 23...	1300	40
MAR 27...	1235	40
APR 23...	1230	60
JUN 28...	1230	20
AUG 28...	1215	80
SEP 24...	1300	50

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1				---	---	---	---	---	---	730	713	690
2				---	---	---	---	---	---	730	707	690
3				---	---	---	---	---	---	730	707	680
4				---	---	---	---	---	---	700	685	670
5				---	---	---	---	---	---	680	667	650
6				---	---	---	---	---	---	690	670	630
7				---	---	---	---	---	---	680	660	640
8				---	---	---	---	---	---	---	---	---
9				---	---	---	---	---	---	---	---	---
10				---	---	---	---	---	---	---	---	---
11				---	---	---	---	---	---	---	---	---
12				---	---	---	---	---	---	---	---	---
13				---	---	---	---	---	---	---	---	---
14				---	---	---	---	---	---	---	---	---
15				---	---	---	---	---	---	---	---	---
16				---	---	---	---	---	---	---	---	---
17				---	---	---	---	---	---	---	---	---
18				---	---	---	---	---	---	---	---	---
19				---	---	---	---	---	---	---	---	---
20				---	---	---	770	760	750	---	---	---
21				830	821	800	760	757	750	---	---	---
22				790	743	710	760	752	740	---	---	---
23				730	723	710	740	720	690	---	---	---
24				790	754	720	760	733	700	---	---	---
25				770	740	710	780	763	740	---	---	---
26				---	---	---	810	795	780	530	498	480
27				---	---	---	840	807	790	540	525	510
28				---	---	---	1000	902	850	560	521	490
29				---	---	---	1030	989	930	530	514	500
30				---	---	---	990	901	810	---	---	---
31				---	---	---	810	780	730	---	---	---
MONTH				---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1				---	---	---	660	652	640	570	558	550
2				---	---	---	700	673	660	570	562	550
3				---	---	---	710	697	690	570	560	550
4				---	---	---	740	723	710	570	558	540
5				---	---	---	740	731	710	550	544	540
6				---	---	---	720	707	690	540	455	340
7				---	---	---	710	695	680	510	454	340
8				---	---	---	710	688	660	470	453	420
9				---	---	---	670	650	620	440	365	300
10				---	---	---	670	652	640	410	380	290
11				---	---	---	650	638	630	470	423	390
12				---	---	---	640	624	610	470	437	410
13				---	---	---	640	624	610	440	418	400
14				---	---	---	610	586	570	400	376	360
15				---	---	---	600	582	570	370	345	320
16				---	---	---	580	564	540	340	330	320
17				---	---	---	560	543	530	380	328	300
18				---	---	---	540	525	510	330	311	290
19				---	---	---	530	508	480	320	315	310
20				---	---	---	500	485	480	310	301	290
21				---	---	---	500	478	460	310	302	300
22				---	---	---	520	496	470	300	289	280
23				---	---	---	540	525	520	290	277	260
24				---	---	---	540	525	520	290	271	260
25				---	---	---	540	528	520	290	273	260
26				---	---	---	540	530	520	280	267	250
27				630	621	610	540	530	510	270	257	250
28				650	638	620	520	508	500	260	245	240
29				750	686	640	600	553	510	250	226	220
30				730	680	650	550	520	515	230	221	210
31				670	650	640	---	---	---	240	224	210
MONTH				---	---	---	740	478	576	570	221	340

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	230	226	220	370	340	351				---	---	---
2	250	235	230	460	370	408				---	---	---
3	300	263	240	400	380	384				---	---	---
4	270	263	260	480	390	423				---	---	---
5	280	271	270	400	370	384				---	---	---
6	310	290	270	380	370	378				---	---	---
7	370	346	310	410	380	393				---	---	---
8	390	365	280	430	390	410				---	---	---
9	---	---	---	440	410	429				---	---	---
10	---	---	---	460	430	445				---	---	---
11	---	---	---	460	440	451				---	---	---
12	---	---	---	460	440	446				---	---	---
13	420	408	400	450	430	443				---	---	---
14	420	408	390	450	430	440				---	---	---
15	390	376	360	940	450	598				---	---	---
16	400	360	330	730	500	593				---	---	---
17	330	322	310	660	510	567				---	---	---
18	320	310	300	560	500	521				---	---	---
19	320	314	310	570	510	534				---	---	---
20	330	317	310	580	520	551				---	---	---
21	330	325	320	560	540	548				---	---	---
22	340	332	330	570	550	558				---	---	---
23	380	356	330	770	540	613				---	---	---
24	360	336	320	650	540	570				---	---	---
25	340	328	320	---	---	---				730	699	680
26	350	341	330	---	---	---				710	695	680
27	380	358	340	---	---	---				680	668	640
28	380	364	362	---	---	---				680	665	640
29	340	330	335	---	---	---				680	676	660
30	340	320	328	---	---	---				690	673	660
31	---	---	---	---	---	---				---	---	---
MONTH	420	226	312	---	---	---				---	---	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.0	15.0	15.5	---	---	---	---	---	---	2.5	1.5	2.0
2	15.0	14.5	15.0	---	---	---	---	---	---	2.5	1.5	2.0
3	15.0	13.5	14.5	---	---	---	---	---	---	2.0	1.0	1.5
4	15.5	14.0	15.0	---	---	---	---	---	---	2.5	1.5	2.0
5	15.5	14.5	15.0	---	---	---	---	---	---	2.5	2.0	2.5
6	16.5	15.0	15.5	---	---	---	---	---	---	3.0	2.0	2.5
7	16.5	15.5	16.0	---	---	---	---	---	---	3.0	2.0	2.5
8	16.5	16.0	16.0	---	---	---	---	---	---	3.5	3.0	3.0
9	18.0	16.0	17.0	---	---	---	---	---	---	3.5	3.0	3.5
10	18.0	16.5	17.5	---	---	---	---	---	---	3.5	2.5	3.0
11	18.0	16.0	16.5	---	---	---	---	---	---	3.5	3.0	3.0
12	16.0	14.5	15.5	---	---	---	---	---	---	3.0	2.0	2.5
13	15.0	14.0	14.5	---	---	---	---	---	---	2.5	2.0	2.0
14	15.0	13.5	14.0	---	---	---	---	---	---	2.5	2.0	2.5
15	14.0	13.5	13.0	---	---	---	---	---	---	2.5	2.0	2.5
16	13.5	12.5	11.5	---	---	---	---	---	---	2.5	1.5	2.0
17	13.5	12.5	13.0	---	---	---	---	---	---	1.5	1.0	1.0
18	14.5	13.0	13.5	---	---	---	---	---	---	.5	.5	.5
19	14.5	13.0	14.0	---	---	---	---	---	---	.5	.5	.5
20	13.5	12.5	13.0	---	---	---	4.5	3.5	4.0	.5	.5	.5
21	---	---	---	5.5	5.0	5.5	3.5	2.0	2.5	.5	.5	.5
22	---	---	---	5.0	4.5	5.0	2.0	.5	1.0	.5	.5	.5
23	---	---	---	4.5	4.0	4.0	2.0	1.0	1.5	.5	.5	.5
24	---	---	---	4.0	3.0	3.5	3.5	2.0	2.5	1.5	.5	1.0
25	---	---	---	5.0	4.0	4.0	5.0	3.5	4.5	2.5	1.0	1.5
26	---	---	---	---	---	---	6.5	5.0	5.5	3.0	2.0	2.5
27	---	---	---	---	---	---	7.0	6.5	6.5	3.0	2.0	3.0
28	---	---	---	---	---	---	6.5	4.5	5.5	3.5	2.5	3.0
29	---	---	---	---	---	---	4.0	2.0	3.0	3.5	2.5	3.0
30	---	---	---	---	---	---	2.0	1.5	1.5	---	---	---
31	---	---	---	---	---	---	2.0	1.0	1.5	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	3.5	.5	2.0

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1				---	---	---	10.5	8.5	9.5	14.5	12.0	13.0
2				---	---	---	10.0	8.5	9.0	15.0	13.0	14.0
3				---	---	---	10.5	8.5	9.5	16.5	13.5	15.0
4				---	---	---	11.5	8.5	10.0	17.0	15.5	16.0
5				---	---	---	12.5	10.0	11.5	17.5	15.5	16.5
6				---	---	---	12.5	11.5	12.0	17.0	15.0	16.0
7				---	---	---	13.5	10.5	12.0	16.0	14.0	15.0
8				---	---	---	14.0	11.5	13.0	16.0	13.0	14.5
9				---	---	---	13.0	11.5	12.0	17.5	14.0	16.0
10				---	---	---	12.5	10.0	11.5	18.5	15.5	17.0
11				---	---	---	13.0	11.5	12.0	19.5	17.0	18.0
12				---	---	---	12.5	10.0	11.5	20.5	17.5	19.0
13				---	---	---	14.0	11.5	13.0	20.5	18.0	19.0
14				---	---	---	14.5	12.0	13.5	20.0	18.0	19.0
15				---	---	---	14.5	12.5	13.5	18.5	16.5	17.5
16				---	---	---	15.5	12.5	14.0	17.5	15.0	16.0
17				---	---	---	16.0	14.0	15.0	17.0	14.5	16.0
18				---	---	---	16.5	14.5	15.5	17.5	15.0	16.5
19				---	---	---	15.5	12.5	13.5	18.0	15.5	17.0
20				---	---	---	12.5	11.0	12.0	18.5	16.0	17.5
21				---	---	---	12.5	11.0	12.0	19.0	16.5	17.5
22				---	---	---	13.0	10.5	12.0	19.0	16.5	18.0
23				---	---	---	14.5	11.5	13.0	19.0	17.0	18.0
24				---	---	---	15.5	13.0	14.5	19.0	17.0	18.0
25				---	---	---	14.5	11.0	12.5	19.0	17.0	18.0
26				---	---	---	11.0	9.0	10.0	19.0	16.5	18.0
27				9.0	---	8.5	11.0	8.5	9.5	19.0	16.5	18.0
28				9.5	7.0	8.5	11.0	9.0	9.5	18.5	16.0	17.5
29				11.0	8.5	10.0	11.0	8.0	9.5	19.0	16.5	17.5
30				11.0	9.0	10.0	13.0	10.0	11.5	19.0	17.0	18.0
31				11.5	9.5	10.5	---	---	---	18.5	17.5	18.0
MONTH				---	---	---	16.5	8.0	12.0	20.5	12.0	17.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.0	17.0	18.0	25.0	22.0	23.5	25.5	24.0	24.5	23.0	22.5	22.5
2	19.0	16.5	18.0	25.0	22.5	24.0	25.5	24.5	25.0	23.0	21.5	22.5
3	18.5	17.0	18.0	25.5	24.0	24.5	28.5	24.5	26.0	22.0	19.5	21.0
4	19.0	16.5	17.5	25.0	23.0	24.0	27.5	25.0	26.0	22.0	20.5	21.0
5	18.0	16.0	16.5	25.0	22.5	24.0	25.5	24.5	25.0	22.0	21.0	21.5
6	16.5	15.0	16.0	26.0	23.0	24.5	26.5	23.0	24.5	22.5	21.5	22.0
7	18.0	15.0	16.5	26.0	24.0	25.0	27.0	23.5	25.0	22.0	20.0	21.0
8	18.5	16.0	17.5	26.0	24.5	25.5	25.0	23.5	24.0	22.0	19.5	21.0
9	18.5	16.0	17.5	26.5	24.5	25.5	24.5	23.5	24.0	22.5	19.5	21.5
10	19.0	17.0	18.5	27.0	24.0	25.5	26.5	24.0	25.0	23.0	20.5	22.0
11	20.5	17.0	19.0	26.5	24.5	26.0	26.5	24.0	25.0	23.0	21.0	22.0
12	21.5	19.5	20.5	26.5	25.0	26.0	26.0	24.0	25.0	23.5	20.0	22.0
13	22.5	20.0	21.0	26.0	24.5	25.5	26.5	23.5	25.0	23.0	20.5	22.0
14	23.0	20.0	21.5	26.5	24.0	25.5	27.0	24.5	25.5	23.5	20.5	22.0
15	23.0	21.0	21.5	26.5	24.0	25.5	26.0	24.5	25.5	23.5	21.5	22.5
16	22.0	20.5	21.0	26.5	24.5	25.5	27.0	24.5	25.5	23.5	20.5	22.0
17	21.5	18.5	20.0	27.0	25.0	26.0	26.0	24.5	25.0	22.5	20.5	21.5
18	21.5	19.5	20.5	27.5	24.5	26.0	25.5	24.0	24.5	23.0	21.0	22.0
19	22.0	20.0	21.0	27.0	24.5	26.0	24.5	23.5	24.0	23.0	21.5	22.0
20	22.5	20.0	21.0	28.0	25.5	27.0	24.0	23.0	23.5	22.0	21.5	22.0
21	22.0	20.0	21.5	27.5	26.0	27.0	23.0	22.5	23.0	22.0	20.5	21.0
22	23.0	20.0	22.0	26.5	24.5	25.5	23.0	22.5	22.5	21.0	19.5	20.5
23	24.0	21.0	22.5	27.0	24.5	26.0	23.0	22.5	22.5	20.0	18.5	19.5
24	24.0	21.5	22.5	26.5	24.5	26.0	23.0	22.0	22.5	19.5	18.0	18.5
25	23.5	22.0	23.0	26.0	24.5	25.5	23.0	22.0	22.5	18.0	16.5	17.5
26	24.0	22.0	23.0	26.5	24.5	26.0	23.5	22.0	23.0	17.5	15.5	16.0
27	24.0	21.5	23.0	26.5	24.5	26.0	23.5	22.5	23.0	18.0	15.0	16.5
28	24.5	21.5	23.0	27.0	25.0	26.0	23.0	22.5	23.0	18.5	16.5	18.0
29	24.5	23.0	24.0	27.0	24.5	26.0	23.0	22.5	23.0	18.0	16.0	17.0
30	24.5	22.5	23.5	27.0	24.5	26.0	23.0	22.5	22.5	16.5	15.0	15.5
31	---	---	---	26.0	24.0	25.0	23.0	22.5	23.0	---	---	---
MONTH	24.5	15.0	20.5	28.0	22.0	25.5	28.5	22.0	24.0	23.5	15.0	20.5

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT						
20...	1230	1530	13.0	--	235	971
NOV						
21...	1300	1670	5.0	87	1940	8750
DEC						
20...	1215	1500	4.0	--	283	1150
JAN						
23...	1300	2280	0.5	--	2410	14800
FEB						
21...	1230	2990	3.5	--	1350	10900
MAR						
27...	1235	2580	8.0	--	963	6710
APR						
23...	1230	3410	12.0	--	3880	35700
MAY						
23...	1200	7200	17.0	53	2120	41200
JUN						
28...	1230	3420	22.5	--	1200	11100
JUL						
24...	1200	1510	25.0	86	964	3930
AUG						
28...	1215	2630	22.5	--	5840	41500
SEP						
24...	1300	1380	18.5	--	727	2710

09379900 LAKE POWELL AT GLEN CANYON DAM, AZ

LOCATION.--Lat 36°56'12", long 111°29'00", in sec.24, T.41 N., R.8 E., Coconino County, Hydrologic Unit 14070006, at Glen Canyon Dam on Colorado River, 900 ft upstream from bridge on U.S. Highway 89, 1.4 mi downstream from Wahweap Creek, 2 mi northwest of Page, and 12 mi downstream from Utah-Arizona State line.

DRAINAGE AREA.--111,700 mi^2, approximately, including 3,959 mi^2 in Great Divide Basin in southern Wyoming, which is noncontributing.

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

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Sept. 1, 1964, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by concrete-arch gravity dam; storage began Mar. 13, 1963; dam completed September 1963. Total capacity, 27,000,000 acre-ft, consisting of the following: Dead storage, 1,998,000 acre-ft below elevation 3,370 ft--sill of outlet gates usable contents, 25,002,000 acre-ft between elevations 3,370 ft and 3,700 ft--top of conservation pool. Reservoir is used for power development, to provide storage replacement for upstream irrigation development, and to meet downstream requirements under the Colorado River Compact of 1922. Figures given herein represent usable contents; prior to Oct. 1, 1968, figures of total contents were published (prior to sealing of diversion tunnel July 7, 1965, all storage was usable).

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES (at 2400) FOR PERIOD OF RECORD.--Maximum contents, 26,373,000 acre-ft July 14, 1983, elevation, 3,708.34 ft; minimum since power pool level was reached (Aug. 16, 1964), 4,166,000 acre-ft Mar. 18, 1965, elevation, 3,490.76 ft.

EXTREMES (at 2400) FOR CURRENT YEAR.--Maximum contents, 25,400,000 acre-ft July 7,8, elevation, 3,702.46 ft; minimum, 20,898,000 acre-ft Apr. 18, 19, elevation, 3,672.99 ft.

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

3,670	20,474,000	3,690	23,424,000
3,675	21,187,000	3,695	24,204,000
3,680	21,916,000	3,700	25,002,000
3,685	22,662,000	3,705	25,818,000

RESERVOIR STORAGE, IN THOUSANDS OF ACRE-FEET, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24790	24058	23372	22674	21970	21468	21045	21075	23206	25237	25361	25053
2	24772	24027	23352	22649	21952	21451	21031	21081	23318	25263	25361	25035
3	24755	23997	23322	22620	21934	21430	21022	21084	23429	25306	25364	25027
4	24739	23961	23308	22594	21915	21416	21009	21079	23534	25332	25361	25014
5	24713	23923	23286	22572	21900	21391	20995	21065	23644	25369	25358	25001
6	24691	23895	23263	22546	21880	21374	20979	21065	23727	25385	25356	24973
7	24664	23869	23237	22522	21860	21359	20963	21049	23819	25400	25350	24964
8	24643	23852	23219	22501	21843	21339	20949	21042	23911	25400	25345	24936
9	24614	23851	23188	22479	21828	21320	20948	21029	24011	25395	25338	24901
10	24595	23802	23168	22461	21805	21301	20925	21019	24107	25397	25328	24872
11	24569	23777	23151	22441	21793	21290	20929	21021	24181	25377	25319	24848
12	24553	23755	23124	22428	21772	21275	20918	21029	24254	25379	25265	24819
13	24530	23727	23095	22413	21756	21261	20918	21049	24307	25390	25219	24798
14	24510	23716	23070	22387	21739	21248	20913	21102	24361	25366	25195	24772
15	24490	23699	23058	22374	21725	21221	20913	21156	24412	25354	25145	24747
16	24469	23679	23034	22351	21703	21222	20908	21231	24465	25354	25137	24734
17	24447	23658	23014	22326	21692	21206	20908	21323	24526	25361	25124	24700
18	24425	23648	22985	22305	21683	21210	20898	21436	24592	25351	25109	24672
19	24401	23623	22958	22278	21665	21200	20898	21551	24667	25345	25103	24648
20	24379	23612	22944	22247	21649	21190	20915	21659	24716	25338	25103	24628
21	24356	23589	22921	22216	21635	21184	20932	21769	24776	25351	25116	24604
22	24336	23567	22898	22179	21621	21166	20948	21886	24833	25340	25114	24571
23	24311	23545	22876	22146	21595	21157	20970	21999	24891	25330	25111	24539
24	24287	23525	22865	22121	21575	21146	20991	22125	24949	25332	25106	24515
25	24258	23511	22836	22101	21553	21137	20999	22259	24994	25335	25103	24480
26	24231	23494	22809	22079	21537	21118	21021	22389	25036	25341	25108	24461
27	24203	23466	22785	22063	21516	21110	21038	22534	25088	25340	25104	24433
28	24172	23440	22769	22047	21500	21100	21042	22682	25130	25364	25096	24406
29	24142	23422	22747	22032	21478	21088	21051	22825	25159	25350	25090	24379
30	24112	23395	22723	22013	---	21069	21067	22971	25208	25361	25078	24347
31	24082	---	22697	21993	---	21056	---	23090	---	25350	25059	---
MAX	24790	24058	23372	22674	21970	21468	21067	23090	25208	25400	25364	25053
MIN	24082	23395	22697	21993	21478	21056	20898	21019	23206	25237	25059	24347
(#)	3694.23	3689.82	3685.24	3680.53	3677.02	3674.10	3674.17	3687.83	3701.28	3702.15	3700.36	3695.91
(*)	-735	-687	-698	-704	-515	-422	+11	+2023	+2118	+142	-291	-712

CAL YR 1983 . . . . . (*) +75
WTR YR 1984 . . . . . (*) -470

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

09403600 KANAB CREEK NEAR KANAB, UT

LOCATION.--Lat 37°06'02", long 112°32'50", in NE1/4NE1/4SW1/4 sec.5, T.43 S., R.6 W., Kane County, Hydrologic Unit 15010003, at upstream edge of left bridge pier on U.S. Highway 89, 300 ft upstream from Tiny Canyon and 3.5 mi north of Kanab.

DRAINAGE AREA.--198 mi^2.

PERIOD OF RECORD.--July 1959 to September 1968 (peaks only). January 1979 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,060 ft from topographic map. A crest-stage gage was in operation at this site from July 22, 1959 to Sept. 30, 1968 at different datum.

REMARKS.--Records poor. No diversion above station for irrigation.

AVERAGE DISCHARGE.--5 years, 18.2 ft^3/s, 13,190 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,130 ft^3/s Aug. 20, 1984, maximum gage height, 8.50 ft Aug. 20, 1984; minimum recorded, 0.90 ft^3/s June 23, 26, 29, 1983.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge recorded by crest-stage gage, 3,030 ft^3/s Sept. 8, 1961, gage height, 19.80 ft at different datum.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 21	1630	268	3.20
Aug. 20	unknown	*1,130	8.50

Minimum daily, 3.6 ft^3/s June 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	11	13	11	19	19	16	8.0	10	6.8	8.0	11
2	36	11	16	11	19	18	16	8.1	10	7.6	8.0	11
3	35	11	14	11	19	18	16	8.7	8.5	7.6	8.0	11
4	32	11	15	12	19	24	18	9.6	9.0	8.4	8.0	11
5	29	12	19	13	19	26	13	8.7	8.1	8.4	8.0	11
6	26	11	19	13	19	24	16	11	7.2	9.6	8.0	11
7	24	13	16	12	19	23	16	7.6	7.1	8.4	7.6	11
8	23	12	15	15	19	21	17	8.2	8.3	8.8	7.4	11
9	20	12	15	14	19	20	17	7.3	7.2	10	7.4	10
10	20	13	15	19	19	19	17	10	4.7	9.2	7.4	10
11	18	13	15	15	19	21	13	11	6.7	9.2	7.4	10
12	14	13	15	14	19	24	15	11	4.4	7.2	7.4	10
13	13	11	15	16	19	23	12	12	4.4	8.0	7.4	10
14	10	14	15	16	22	21	15	10	5.2	7.2	7.4	10
15	9.6	10	15	19	20	21	15	9.0	5.4	7.2	7.4	10
16	8.8	14	15	17	19	22	12	8.8	4.7	7.9	10	10
17	12	10	13	15	17	23	12	11	4.2	8.0	7.9	10
18	11	13	15	13	20	25	13	11	4.2	8.0	8.3	10
19	12	13	14	15	20	21	14	11	3.6	8.0	8.8	10
20	13	12	12	16	22	20	9.9	9.6	4.7	8.0	100	15
21	12	11	13	17	19	20	12	12	5.2	19	14	11
22	11	12	12	16	23	21	11	13	5.0	15	12	10
23	10	14	11	16	22	23	11	11	6.0	10	11	10
24	12	12	10	17	18	21	9.5	11	4.7	9.0	11	10
25	10	12	11	22	20	19	11	12	6.4	8.0	11	9.4
26	12	13	13	20	18	21	11	10	6.4	8.0	11	9.4
27	11	14	15	19	18	19	8.3	12	6.8	8.0	11	9.0
28	13	15	16	18	22	20	7.8	12	6.0	9.6	11	9.0
29	13	12	16	19	17	19	7.9	10	5.0	8.0	11	9.0
30	10	13	12	19	---	18	7.9	11	4.7	8.0	11	9.0
31	13	---	11	19	---	19	---	9.2	---	8.0	11	---
TOTAL	526.4	368	441	489	564	653	390.3	314.8	183.8	274.1	374.8	308.8
MEAN	17.0	12.3	14.2	15.8	19.4	21.1	13.0	10.2	6.13	8.84	12.1	10.3
MAX	36	15	19	22	23	26	18	13	10	19	100	15
MIN	8.8	10	10	11	17	18	7.8	7.3	3.6	6.8	7.4	9.0
ACFT	1040	730	875	970	1120	1300	774	624	365	544	743	613

CAL YR 1983	TOTAL	7969.8	MEAN	21.8	MAX	116	MIN	3.8	ACFT	15810
WTR YR 1984	TOTAL	4888.0	MEAN	13.4	MAX	100	MIN	3.6	ACFT	9700

09404450 EAST FORK VIRGIN RIVER NEAR GLENDALE, UT

LOCATION.--Lat 37°20'19", long 112°36'13", in SE1/4NE1/4NW1/4 sec.14, T.40 S., R.7 W., Kane County, Hydrologic Unit 15010008, on right bank 50 ft downstream from Lydia's Creek, and 1.0 mi north of the town of Glendale on U.S. Highway 89.

DRAINAGE AREA.--69.2 mi^2.

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder and artificial concrete control. Altitude of gage is 5,900 ft from topographic map.

REMARKS.--Records good. A few small diversions above station.

AVERAGE DISCHARGE.--18 years, 21.8 ft^3/s, 15,790 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 640 ft^3/s July 27, 1976, gage height, 4.14 ft; minimum, 6.3 ft^3/s June 18, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 90 ft^3/s, 100 ft^3/s Oct. 3, gage height, 2.06 ft; minimum daily, 9.7 ft^3/s Sept. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	20	23	26	25	25	26	21	15	12	13	13
2	18	21	23	23	24	26	28	21	14	12	13	12
3	52	21	24	23	24	26	26	21	13	13	13	12
4	35	21	27	26	25	24	26	20	13	12	13	12
5	42	21	23	26	24	23	25	19	15	11	12	11
6	32	21	22	27	24	24	25	18	14	11	12	11
7	26	21	23	27	24	24	25	18	13	11	12	10
8	23	68	23	26	24	25	24	17	13	10	12	11
9	23	25	23	26	24	25	24	16	14	10	12	11
10	21	24	23	25	24	25	23	16	13	10	12	12
11	21	23	23	25	24	25	24	16	13	11	13	15
12	20	24	23	24	24	25	24	16	13	11	13	11
13	20	23	23	24	24	25	24	15	12	11	12	10
14	19	22	23	26	24	28	23	15	12	11	12	11
15	19	22	23	25	24	27	22	16	12	12	13	9.8
16	18	22	22	25	24	26	22	16	11	12	12	9.7
17	18	22	23	24	25	26	21	15	12	12	12	10
18	18	28	23	25	24	25	21	15	12	10	19	10
19	18	23	23	25	23	24	21	15	12	11	19	12
20	19	24	23	24	23	24	21	15	12	14	16	13
21	21	26	22	24	23	24	21	14	12	21	15	13
22	20	24	22	24	23	24	20	14	11	18	15	13
23	20	24	23	24	22	23	20	14	11	13	14	13
24	20	23	23	25	23	24	21	13	11	13	16	13
25	20	27	28	28	23	24	22	14	11	14	18	13
26	20	25	33	26	22	28	21	14	12	14	15	13
27	20	24	41	25	23	27	21	13	12	14	13	13
28	19	23	30	25	24	25	21	13	12	16	11	13
29	19	23	25	25	24	24	21	13	12	15	13	13
30	20	23	26	25	---	27	21	13	12	14	13	13
31	19	---	27	24	---	26	---	13	---	13	13	---
TOTAL	698	738	763	777	688	778	684	489	374	392	421	356.5
MEAN	22.5	24.6	24.6	25.1	23.7	25.1	22.8	15.8	12.5	12.6	13.6	11.9
MAX	52	68	41	28	25	28	28	21	15	21	19	15
MIN	18	20	22	23	22	23	20	13	11	10	11	9.7
ACFT	1380	1460	1510	1540	1360	1540	1360	970	742	778	835	707

CAL YR 1983	TOTAL	15417	MEAN	42.2	MAX	215	MIN	14	ACFT	30580
WTR YR 1984	TOTAL	7158.5	MEAN	19.6	MAX	68	MIN	9.7	ACFT	14200

VIRGIN RIVER BASIN

09405420 NORTH FORK VIRGIN RIVER BELOW BULLOCH CANYON, NEAR GLENDALE, UT

LOCATION.--Lat 37°25'06", long 112°47'59", in SW1/4NW1/4SE1/4 sec.13, T.39 S., R.9 W., Kane County, Hydrologic Unit 15010008, on left bank 200 ft below Bulloch Canyon, 7.5 mi south of Navajo Lake, 19 road mi from Navajo Lake turnoff at U-14 and 10 mi northwest of Glendale.

DRAINAGE AREA.--29.6 mi^2.

PERIOD OF RECORD.--October 1974 to September 1984 (discontinued).

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

GAGE.--Water-stage recorder. Altitude of gage is 6,420 ft from topographic map.

REMARKS.--Records good. Diversions for irrigation of about 600 acres above station.

AVERAGE DISCHARGE.--10 years, 20.1 ft^3/s, 14,560 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 272 ft^3/s May 31, 1983, gage height, 5.98 ft, may have been exceeded by flood of Aug. 17, 1983 discharge and gage height unknown; minimum, 2.6 ft^3/s Aug. 3, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge determined before station was installed, 1,740 ft^3/s Sept. 9, 1974 on basis of slope-area measurement at gage height 7.44 ft from high-water marks.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Aug. 15	unknown	*188	6.05
Aug. 18	2200	105	5.77

Minimum daily, 9.4 ft^3/s Sept. 11-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	22	26	27	30	29	20	22	18	16	19	10
2	42	22	26	26	28	30	22	20	18	16	19	9.9
3	27	23	26	26	28	24	21	20	17	15	19	9.9
4	25	22	27	28	28	23	21	20	17	15	19	9.8
5	25	22	26	29	28	23	21	19	22	14	19	9.8
6	24	22	27	29	28	26	20	18	19	14	18	9.6
7	24	23	27	30	27	26	21	18	19	14	18	9.6
8	24	22	28	30	26	27	22	18	18	14	18	9.6
9	23	23	28	28	26	27	22	18	17	15	18	9.5
10	23	24	28	26	27	25	20	18	17	15	18	9.5
11	22	22	28	26	27	26	20	20	17	15	17	9.4
12	22	24	28	27	30	26	19	21	17	14	17	9.4
13	22	23	29	26	32	25	19	22	16	16	17	9.4
14	23	22	29	27	32	27	19	23	16	20	22	9.4
15	22	23	30	27	30	25	18	21	16	16	25	9.4
16	22	23	28	28	26	24	21	18	16	16	22	9.8
17	23	23	27	28	26	23	21	19	16	16	17	10
18	23	23	28	25	27	24	21	20	16	16	20	9.8
19	23	23	27	28	27	24	22	20	16	16	15	10
20	22	24	27	29	28	26	24	20	16	16	24	10
21	22	25	24	29	28	25	23	19	16	17	19	9.8
22	22	25	24	29	27	25	22	19	16	39	16	9.8
23	21	24	26	29	26	23	21	19	15	26	15	9.8
24	21	25	25	29	27	22	15	18	16	17	15	10
25	21	27	25	29	27	22	16	18	16	22	14	11
26	22	24	25	27	28	23	17	17	16	17	14	11
27	22	25	25	28	27	24	19	16	16	17	13	11
28	22	25	26	29	27	22	20	17	16	19	12	11
29	22	26	27	28	29	22	20	17	15	18	12	11
30	22	26	28	29	---	22	21	17	16	27	11	12
31	23	---	28	30	---	21	---	17	---	23	11	---
TOTAL	745	707	833	866	807	761	608	589	502	551	533	300.2
MEAN	24.0	23.6	26.9	27.9	27.8	24.5	20.3	19.0	16.7	17.8	17.2	10.0
MAX	44	27	30	30	32	30	24	23	22	39	25	12
MIN	21	22	24	25	26	21	15	16	15	14	11	9.4
ACFT	1480	1400	1650	1720	1600	1510	1210	1170	996	1090	1060	595

CAL YR 1983	TOTAL	12515.5	MEAN	34.3	MAX	161	MIN	9.2	ACFT	24820
WTR YR 1984	TOTAL	7802.2	MEAN	21.3	MAX	44	MIN	9.4	ACFT	15480

09405450 NORTH FORK VIRGIN RIVER ABOVE ZION NARROWS, NEAR GLENDALE, UT

LOCATION.--Lat 37°23'26", long 112°49'30", in NW1/4NW1/4SW1/4 sec.26, T.39 S., R.9 W., Kane County, Hydrologic Unit 15010008, on left bank 300 ft below diversion, 10 mi south of Navajo Lake, 22.5 road mi from Navajo Lake turnoff at U-14 and 13.5 mi northwest of Glendale.

DRAINAGE AREA.--45.5 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to September 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,000 ft from topographic map.

REMARKS.--Records good. Several small diversions for irrigation of about 800 acres above station.

AVERAGE DISCHARGE.--6 years, 25.6 ft^3/s, 18,550 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 560 ft^3/s July 22, 1984; minimum daily, 2.2 ft^3/s Aug. 12, 1981.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 22	1930	*560	4.08
July 27	unknown	unknown	unknown
Aug. 18	2130	128	2.30

Minimum daily, 6.5 ft^3/s Sept. 22-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	21	26	27	30	26	26	25	13	11	17	9.7
2	40	21	26	27	28	27	28	25	13	11	17	8.9
3	26	21	27	27	28	26	29	25	12	11	16	8.2
4	23	21	27	29	28	24	27	26	12	9.7	16	7.5
5	22	20	27	30	28	23	25	25	16	9.3	15	7.2
6	21	20	27	30	27	25	25	23	14	9.2	15	7.3
7	21	21	28	30	26	25	25	24	13	9.3	15	6.9
8	23	21	27	29	26	26	24	25	13	9.1	15	6.8
9	24	21	27	28	25	26	24	25	12	9.4	14	6.8
10	23	21	26	28	25	26	23	25	11	10	13	7.7
11	22	20	26	27	25	25	23	25	11	9.7	14	7.5
12	22	23	26	27	25	26	23	21	11	10	14	7.2
13	22	26	27	26	25	26	23	18	11	11	13	7.1
14	22	25	26	27	26	28	23	19	11	16	13	7.2
15	22	24	26	28	24	27	23	20	11	12	18	6.8
16	21	24	26	27	25	26	23	19	11	11	21	7.1
17	21	25	26	27	25	26	23	18	11	11	20	7.7
18	21	26	26	25	24	26	23	19	11	12	22	7.6
19	21	26	26	27	23	26	25	18	11	15	19	7.6
20	20	26	26	28	24	26	26	17	11	11	23	8.3
21	21	27	25	28	24	26	26	16	11	31	18	7.2
22	20	27	27	28	25	26	25	15	11	45	21	6.5
23	20	28	26	28	24	26	23	15	10	28	16	6.5
24	20	27	26	28	24	26	18	14	11	20	15	6.5
25	20	28	27	27	24	26	21	14	11	21	12	6.5
26	20	26	26	26	24	28	22	13	11	21	12	6.5
27	20	28	26	27	24	29	23	13	11	40	12	6.8
28	21	28	27	28	25	26	25	12	11	24	12	6.8
29	21	29	29	27	26	26	24	12	10	20	11	6.8
30	21	26	27	28	---	28	25	12	11	26	11	6.8
31	21	---	28	29	---	27	---	13	---	22	11	---
TOTAL	700	727	823	858	737	810	723	591	347	515.7	481	218.0
MEAN	22.6	24.2	26.5	27.7	25.4	26.1	24.1	19.1	11.6	16.6	15.5	7.27
MAX	40	29	29	30	30	29	29	26	16	45	23	9.7
MIN	20	20	25	25	23	23	18	12	10	9.1	11	6.5
ACFT	1390	1440	1630	1700	1460	1610	1430	1170	688	1020	954	432

CAL YR 1983	TOTAL	13744.9	MEAN	37.7	MAX	147	MIN	6.0	ACFT	27260
WTR YR 1984	TOTAL	7530.7	MEAN	20.6	MAX	45	MIN	6.5	ACFT	14940

09405450 NORTH FORK VIRGIN RIVER ABOVE ZION NARROWS, NEAR GLENDALE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to September 1984 (discontinued).

PERIOD OF DAILY RECORD.--October 1978 to September 1984 (discontinued).

REMARKS.--Unpublished daily records of sediment are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 20,100 mg/L Sept 7, 1983; minimum daily mean, 3 mg/L July 17, 21, 1982.
SEDIMENT LOADS: Maximum daily, 1,440 tons May 9, 1983; minimum daily 0.10 ton July 21, 1982.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean recorded, 4,300 mg/L Aug. 18; minimum daily mean recorded, 8 mg/L July 10, 12.
SEDIMENT LOADS: Maximum daily recorded, 255 tons Aug. 18; minimum daily recorded, 0.18 ton Sept. 6.

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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	1280	131	37	2.1								
2	1200	130	27	1.5								
3	140	9.8	14	.79								
4	90	5.6	15	.85								
5	67	4.0	16	.86								
6	54	3.1	21	1.1								
7	51	2.9	25	1.4								
8	50	3.1	82	4.6								
9	47	3.0	40	2.3								
10	39	2.4	38	2.2								
11	30	1.8	40	2.2								
12	27	1.6	51	3.2								
13	23	1.4	49	3.4								
14	18	1.1	49	3.3								
15	21	1.2	48	3.1								
16	21	1.2	46	3.0								
17	17	.96	37	2.5								
18	17	.96	52	3.7								
19	17	.96	35	2.5								
20	16	.86	36	2.5								
21	17	.96	35	2.6								
22	14	.76	35	2.6								
23	27	1.5	50	3.8								
24	25	1.4	41	3.0								
25	20	1.1	30	2.3								
26	16	.86	28	2.0								
27	17	.92	52	3.9								
28	17	.96	50	3.8								
29	19	1.1	57	4.5								
30	26	1.5	31	2.2								
31	29	1.6	---	---								
TOTAL	---	319.60	---	77.80		40.00		45.00		87.00		168.0

09405450 NORTH FORK VIRGIN RIVER ABOVE ZION NARROWS, NEAR GLENDALE, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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			56	3.8	88	3.1	15	.45	600	28	45	1.2
2			57	3.8	91	3.2	15	.45	260	12	35	.84
3			75	5.1	84	2.7	18	.49	257	11	14	.31
4			111	7.8	71	2.3	17	.40	200	8.6	20	.41
5			100	6.8	85	3.7	16	.37	167	6.8	17	.33
6			82	5.1	68	2.6	13	.30	148	6.0	9	.18
7			65	4.2	48	1.7	19	.44	160	6.5	14	.26
8			58	3.9	28	.98	21	.48	244	9.9	16	.29
9			88	5.9	35	1.1	16	.38	150	5.7	28	.51
10			95	6.4	40	1.2	8	.20	119	4.2	90	1.9
11			81	5.5	41	1.2	10	.25	115	4.3	232	4.7
12			69	3.9	27	.80	8	.21	113	4.3	82	1.6
13			71	3.5	23	.68	16	.42	113	4.0	46	.88
14			85	4.4	17	.50	100	3.8	129	4.5	54	1.0
15			99	5.3	23	.68	70	2.1	1400	68	48	.88
16			104	5.3	21	.62	46	1.4	1610	91	38	.73
17			92	4.5	21	.62	45	1.3	1680	91	48	1.0
18			73	3.7	23	.68	300	9.7	4300	255	36	.75
19			80	3.9	28	.83	810	33	645	33	42	.86
20			83	3.8	32	.95	240	7.1	490	30	160	3.6
21			65	2.8	27	.80	325	27	405	20	80	1.6
22			67	2.7	18	.49	930	113	520	29	65	1.1
23			76	3.1	25	.68	820	62	182	7.9	60	1.1
24			75	2.8	37	1.1	250	13	177	7.2	41	.72
25			66	2.5	43	1.3	385	22	180	5.8	27	.47
26			58	2.0	41	1.2	370	21	167	5.4	23	.40
27			53	1.9	36	1.1	1050	60	125	4.1	17	.31
28			48	1.6	13	.39	3550	230	116	3.8	28	.51
29			42	1.4	11	.30	2980	161	116	3.4	30	.55
30			42	1.4	16	.43	3000	211	80	2.4	30	.55
31			68	2.4	---	---	1620	96	53	1.6	---	---
TOTAL		92.00	---	121.2	---	37.93	---	1079.24	---	774.4	---	29.54

TOTAL LOAD FOR YEAR: 2439.71 TONS.

09405500 NORTH FORK VIRGIN RIVER NEAR SPRINGDALE, UT

LOCATION.--Lat 37°12'35", long 112°58'40", in NW1/4SW1/4NW1/4 sec.22, T.41 S., R.10 W., Washington County, Hydrologic Unit 15010008, on right bank in Zion National Park, 0.2 mi downstream from point of diversion of Springdale Canal, 0.5 mi downstream from Pine Creek, and 1.9 mi northeast of Springdale.

DRAINAGE AREA.--344 mi^2.

PERIOD OF RECORD.--May 1913 to June 1914, June to November 1923, April to June, August and September 1925 (fragmentary), October 1925 to current year. Published as Zion Creek near Springdale 1913-14 (flow of Springdale Canal not included) and as Mukuntuweap River near Springdale 1923, 1925-32.

GAGE.--Water-stage recorder. Altitude of gage is 3,970 ft from topographic map. May 13, 1913 to June 30, 1914, nonrecording gage at site 3.2 mi downstream at different datum. June 6, 1923 to Dec. 14, 1949, nonrecording gages at several sites within 0.8 mi of present site at various datums.

REMARKS.--Records fair. Figures given herein include Springdale Canal, which diverts water in NW1/4NW1/4 sec.22, T.41 S., R.10 W., for irrigation in vicinity of Springdale. Diversion for irrigation of about 1,400 acres above station.

AVERAGE DISCHARGE.--59 years, 105 ft^3/s, 76,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,150 ft^3/s Dec. 6, 1966, gage height, 12.98 ft, from rating curve extended above 2,000 ft^3/s on basis of drift measurement at gage height 6.7 ft, and a slope-area measurement at gage height 10.25 ft; minimum observed, 20 ft^3/s July 31, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,090 ft^3/s Aug. 18, gage height, 5.60 ft; minimum daily, 41 ft^3/s Sept. 6, 7, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	198	71	74	83	78	75	183	162	96	73	76	47
2	279	78	75	70	73	75	203	172	91	69	71	45
3	225	76	137	73	73	80	203	218	84	70	70	44
4	90	71	125	84	74	75	193	268	81	59	69	42
5	84	72	75	84	75	68	203	291	114	56	68	42
6	84	71	66	84	76	73	212	297	108	53	61	41
7	80	72	72	83	75	74	191	267	96	51	61	41
8	80	300	74	82	70	80	181	268	88	48	59	49
9	78	164	76	81	73	83	171	299	84	51	55	57
10	75	72	76	73	78	86	155	313	79	55	53	78
11	74	69	75	81	72	88	159	327	80	66	66	77
12	73	71	76	66	70	91	169	318	82	63	61	63
13	73	73	73	78	70	89	178	293	82	107	58	45
14	75	69	75	80	69	94	194	276	80	82	64	42
15	75	67	77	75	69	91	212	349	69	80	146	42
16	74	67	73	72	69	93	220	247	79	88	108	42
17	73	68	79	71	68	94	225	202	80	58	77	45
18	72	126	78	55	68	79	225	189	80	57	177	48
19	70	72	74	65	71	87	212	180	66	64	264	44
20	70	75	75	70	72	94	192	169	58	68	165	49
21	70	88	69	68	71	113	185	163	60	99	95	45
22	68	71	72	74	73	125	177	158	59	250	76	43
23	69	69	81	73	66	109	174	146	58	88	61	43
24	69	75	76	72	72	114	212	140	57	85	57	41
25	68	92	169	78	70	136	255	132	60	97	113	42
26	68	76	272	78	69	139	215	126	60	75	61	43
27	69	72	352	68	66	149	193	120	60	68	53	42
28	69	75	131	75	71	138	176	114	59	160	51	42
29	69	71	76	75	73	128	161	106	60	99	48	43
30	70	75	81	73	---	147	160	99	60	118	46	43
31	70	---	91	71	---	162	---	94	---	78	47	---
TOTAL	2761	2568	3075	2315	2074	3129	5789	6503	2270	2535	2537	1410
MEAN	89.1	85.6	99.2	74.7	71.5	101	193	210	75.7	81.8	81.8	47.0
MAX	279	300	352	84	78	162	255	349	114	250	264	78
MIN	68	67	66	55	66	68	155	94	57	48	46	41
ACFT	5480	5090	6100	4590	4110	6210	11480	12900	4500	5030	5030	2800

CAL YR 1983	TOTAL	90240	MEAN	247	MAX	1730	MIN	48	ACFT	179000
WTR YR 1984	TOTAL	36966	MEAN	101	MAX	352	MIN	41	ACFT	73320

09406000 VIRGIN RIVER AT VIRGIN, UT

LOCATION.--Lat 37°11'53", long 113°12'22", in SE1/4NW1/4NE1/4 sec.28, T.41 S., R.12 W., Washington County, Hydrologic Unit 15010008, on left bank 1.1 mi west of Virgin and 2.3 mi downstream from North Creek.

DRAINAGE AREA.--934 mi^2.

PERIOD OF RECORD.--April 1909 to September 1971, October 1978 to current year. Fragmentary prior to 1926, monthly discharge published in WSP 1313.

REVISED RECORDS.--WSP 1313: 1942-43(M), 1947-48(M). WSP 1633: 1921(M), 1950-51.

GAGE.--Water-stage recorder. Altitude of gage is 3,440 ft from topographic map. At present location Oct. 1, 1978, from Dec. 19, 1949 to September 1971, directly across on right bank at different datum. Prior to Dec. 19, 1949, nonrecording gages at several sites within 3 mi of present site at various datums.

REMARKS.--Records fair. Diversions for irrigation of about 2,800 acres above station.

AVERAGE DISCHARGE.--68 years, 208 ft^3/s, 150,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,800 ft^3/s Dec. 6, 1966, gage height, 18.00 ft from rating curve extended above 5,000 ft^3/s on basis of one slope-area measurement and one float measurement; minimum observed, 22 ft^3/s July 10, 1920 and June 11, 1921.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 22	unknown	2,510	5.59
July 28	unknown	unknown	unknown
Aug. 18	unknown	unknown	unknown
Sep. 10	2130	*4,580	7.07

Minimum, 56 ft^3/s Sept. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	469	128	183	156	167	155	173	205	125	116	120	89
2	620	141	182	138	168	156	175	213	123	117	102	93
3	219	140	213	132	164	163	173	257	124	120	92	86
4	175	136	363	149	169	156	165	315	124	100	80	95
5	162	132	173	157	171	145	165	337	125	82	86	97
6	161	125	160	155	168	150	192	355	180	70	80	91
7	168	132	175	153	167	150	178	312	130	67	84	96
8	176	404	181	151	161	160	170	308	128	62	86	109
9	174	201	182	153	158	161	178	335	120	62	88	121
10	169	192	185	154	163	158	170	343	115	65	86	151
11	171	194	179	160	154	157	189	359	110	70	90	227
12	180	185	185	154	152	154	195	369	106	80	108	138
13	244	189	179	155	164	149	219	356	106	76	92	91
14	185	183	178	175	179	160	244	346	105	150	97	73
15	177	170	182	162	161	170	293	412	100	110	105	70
16	167	165	174	165	164	162	322	346	100	117	300	67
17	173	167	178	161	168	163	322	279	115	108	160	66
18	177	320	172	146	152	154	322	257	118	102	150	64
19	155	181	171	151	150	152	303	246	116	97	620	62
20	142	180	175	168	149	156	251	235	107	110	260	68
21	142	210	169	162	155	176	238	220	100	120	220	76
22	142	198	161	172	157	188	232	210	98	420	160	66
23	137	176	173	175	149	164	225	200	100	150	140	68
24	135	177	175	172	149	169	264	195	110	200	130	64
25	133	238	285	181	149	182	322	190	102	170	280	64
26	134	204	447	182	148	181	251	180	103	190	130	64
27	129	182	735	170	144	197	225	162	106	150	110	66
28	128	183	270	172	146	150	216	152	103	340	95	68
29	132	179	146	179	149	168	198	140	100	250	87	73
30	128	182	154	168	---	192	202	132	112	240	82	72
31	132	---	167	161	---	167	---	129	---	270	85	---
TOTAL	5736	5594	6652	4989	4595	5065	6772	8095	3411	4381	4405	2635
MEAN	185	186	215	161	158	163	226	261	114	141	142	87.8
MAX	620	404	735	182	179	197	322	412	180	420	620	227
MIN	128	125	146	132	144	145	165	129	98	62	80	62
ACFT	11380	11100	13190	9900	9110	10050	13430	16060	6770	8690	8740	5230

CAL YR 1983	TOTAL	142725	MEAN	391	MAX	1900	MIN	63	ACFT	283100
WTR YR 1984	TOTAL	62330	MEAN	170	MAX	735	MIN	62	ACFT	123600

09408000 LEEDS CREEK NEAR LEEDS, UT

LOCATION.--Lat 37°16'03", long 113°22'12", in SW1/4SE1/4NE1/4 sec.36, T.40 S., R.14 W., Washington County, Hydrologic Unit 15010008, on left bank 1,150 ft upstream from Leeds Ditch diversion, 2.1 mi north of Leeds, and 4.4 mi upstream from mouth.

DRAINAGE AREA.--15.5 mi^2.

PERIOD OF RECORD.--October 1915 to June 1920 (fragmentary) in reports of Geological Survey; October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,000 ft from topographic map. Prior to June 1920, at various sites and datums about 600 ft downstream; Oct. 28, 1964 to Aug. 20, 1967, water-stage recorder at site 1,000 ft downstream at different datum.

REMARKS.--Records good except for periods of no gage height record, which are fair. One diversion above station for domestic use.

AVERAGE DISCHARGE.--20 years, 7.85 ft^3/s, 5,690 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,710 ft^3/s Aug. 6, 1967, gage height, 5.78 ft, site and datum then in use; minimum recorded, 0.23 ft^3/s Jan. 3, 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 12, 1964, reached a stage of 6.00 ft former site and datum, discharge 2,980 ft^3/s from slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 50 ft^3/s, 712 ft^3/s Sept. 11, gage height 4.26 ft; minimim, 2.5 ft^3/s Sept. 7-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	7.9	7.0	5.9	6.4	5.2	5.2	5.2	5.5	4.1	3.9	2.9
2	12	7.9	8.0	5.9	6.3	5.2	5.2	5.2	5.4	4.2	3.8	2.9
3	11	7.9	7.1	5.9	6.3	5.1	5.2	5.1	5.3	4.1	3.8	2.9
4	11	7.9	7.0	5.9	6.3	5.0	5.2	5.0	5.3	3.9	3.7	2.9
5	10	7.7	6.9	5.9	6.3	4.9	5.2	5.0	5.7	3.8	3.7	2.8
6	9.9	7.7	6.9	5.9	6.3	4.9	5.2	5.0	5.5	3.7	3.7	2.8
7	9.7	7.9	6.8	6.0	6.2	4.8	5.2	5.0	5.4	3.7	3.6	2.8
8	9.6	10	6.8	6.0	6.2	4.8	5.2	5.0	5.3	3.7	3.5	2.8
9	9.6	7.8	6.7	6.0	6.2	4.7	5.2	5.0	5.3	3.7	3.4	2.8
10	9.6	7.4	6.7	6.0	6.3	4.6	5.2	4.9	5.1	3.6	3.4	4.4
11	9.4	7.4	6.6	6.6	6.1	4.6	5.3	4.9	5.1	3.8	3.6	5.4
12	9.3	7.3	6.6	6.2	6.1	4.6	5.3	4.9	5.1	3.9	3.5	3.3
13	9.2	7.2	6.6	6.2	6.1	4.5	5.3	4.9	4.9	4.1	3.4	3.1
14	9.1	7.2	6.5	7.0	6.2	4.5	5.2	5.2	4.8	4.6	3.4	3.0
15	9.0	7.2	6.5	6.6	6.1	4.5	5.2	5.2	4.8	4.3	3.5	3.0
16	8.9	7.2	6.5	6.4	6.1	4.5	5.2	5.3	4.8	4.3	3.4	3.1
17	8.8	7.3	6.5	6.3	6.0	4.5	5.3	5.3	4.6	4.0	3.3	3.1
18	8.8	9.5	6.5	6.3	5.9	4.5	5.3	5.3	4.5	4.0	3.3	3.0
19	8.6	7.6	6.5	6.3	5.9	4.5	5.3	5.3	4.5	4.1	3.6	2.9
20	8.6	7.4	6.5	6.3	5.9	4.5	5.3	5.3	4.3	4.0	4.0	2.9
21	8.5	7.4	6.5	6.4	5.9	4.5	5.3	5.3	4.3	4.4	3.6	3.0
22	8.3	7.3	6.3	6.4	5.8	4.6	5.3	5.3	4.2	7.4	3.5	3.0
23	8.3	7.3	6.3	6.4	5.7	4.6	5.3	5.3	4.2	6.6	3.4	3.0
24	8.1	7.3	6.3	6.4	5.7	4.5	5.2	5.4	4.3	4.3	3.3	3.0
25	8.1	7.8	7.1	6.4	5.6	4.6	5.2	5.4	4.2	4.1	3.3	3.0
26	8.1	9.5	5.9	7.8	5.5	5.6	5.3	5.4	4.3	5.5	3.3	3.0
27	8.0	9.0	5.9	6.4	5.4	5.2	5.3	5.4	4.3	4.5	3.1	3.0
28	7.9	7.4	5.9	6.4	5.3	4.9	5.3	5.4	4.1	4.5	3.1	3.0
29	7.9	7.2	5.9	6.4	5.3	5.9	5.3	5.4	4.0	4.3	3.0	2.9
30	7.9	7.1	5.9	6.4	---	5.3	5.2	5.5	4.0	4.3	3.0	2.9
31	7.9	---	5.9	6.3	---	5.2	---	5.5	---	4.1	2.9	---
TOTAL	284.1	232.7	203.1	195.3	173.4	149.3	157.4	161.3	143.1	133.6	107.0	92.6
MEAN	9.16	7.76	6.55	6.30	5.98	4.82	5.25	5.20	4.77	4.31	3.45	3.09
MAX	13	10	8.0	7.8	6.4	5.9	5.3	5.5	5.7	7.4	4.0	5.4
MIN	7.9	7.1	5.9	5.9	5.3	4.5	5.2	4.9	4.0	3.6	2.9	2.8
ACFT	564	462	403	387	344	296	312	320	284	265	212	184

CAL YR 1983	TOTAL	6726.3	MEAN	18.4	MAX	366	MIN	4.2	ACFT	13340
WTR YR 1984	TOTAL	2032.9	MEAN	5.55	MAX	13	MIN	2.8	ACFT	4030

NOTE.--No gage height record Nov. 8 to Dec. 18, Dec. 27 to Jan. 29, and Mar. 8 to Apr. 13.

09408150 VIRGIN RIVER NEAR HURRICANE, UT

LOCATION.--Lat 37°09'45", long 113°23'42", in NE1/4NE1/4SW1/4 sec.2, T.42 S., R.14 W., Washington County, Hydrologic Unit 15010008, on left bank at downstream side of bridge on State Highway 17, 1.8 mi downstream from Quail Creek and 6.2 mi west of Hurricane.

DRAINAGE AREA.--1,499 mi^2.

PERIOD OF RECORD.--March 1967 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 2,760 ft from topographic map.

REMARKS.--Records fair. Diversions for irrigation of about 9,400 acres above station.

AVERAGE DISCHARGE.--17 years, 249 ft^3/s, 180,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,700 ft^3/s Mar. 5, 1978, gage height, 16.28 ft; minimum, 23 ft^3/s Aug. 22, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1909, 17.34 ft Dec. 6, 1966, from floodmarks; discharge, 20,100 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 23	0030	*5,660	7.83
July 28	2000	4,350	6.86
Aug. 19	0400	2,570	5.34
Sep. 10	2400	5,160	7.47

Minimum daily, 66 ft^3/s July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	384	158	254	292	229	208	257	236	120	101	136	85
2	740	169	253	277	230	213	264	237	117	102	121	91
3	315	179	255	267	226	208	269	262	119	108	111	87
4	244	172	478	280	228	209	253	296	112	84	96	96
5	219	165	266	284	229	202	265	318	135	79	102	88
6	226	161	235	285	229	208	278	326	156	72	96	83
7	223	166	249	285	221	203	259	300	127	71	96	75
8	217	382	251	289	223	207	255	297	122	67	98	68
9	212	234	250	281	220	212	242	311	110	66	102	75
10	209	204	251	275	228	214	219	315	106	74	100	98
11	202	213	248	266	229	215	225	327	101	74	102	631
12	195	208	248	256	229	217	247	328	98	100	128	207
13	193	204	247	243	229	213	261	313	98	93	114	134
14	190	205	240	264	224	218	283	300	94	170	130	144
15	195	194	239	253	222	226	308	333	88	131	200	144
16	177	192	240	241	218	199	336	298	84	122	500	143
17	175	194	234	235	222	193	349	255	100	130	190	96
18	171	355	240	217	221	195	347	236	101	92	330	177
19	165	242	242	214	216	178	329	225	101	114	1300	96
20	174	220	242	233	214	173	298	215	88	126	240	88
21	179	257	234	229	219	177	273	208	86	196	210	104
22	182	265	230	231	222	197	275	203	84	687	190	108
23	180	244	236	233	212	188	271	196	80	977	170	100
24	177	240	233	231	215	179	287	193	85	129	160	90
25	176	306	261	242	218	189	317	184	83	98	160	116
26	179	279	508	237	210	188	287	161	85	116	350	90
27	168	246	831	237	207	227	263	156	87	68	160	92
28	165	253	404	228	207	200	241	142	85	488	141	92
29	160	252	283	233	204	174	235	135	82	275	126	81
30	162	255	283	235	---	220	230	126	101	271	113	83
31	168	---	292	226	---	233	---	125	---	304	93	---
TOTAL	6722	6814	8957	7799	6401	6283	8223	7557	3035	5585	6165	3662
MEAN	217	227	289	252	221	203	274	244	101	180	199	122
MAX	740	382	831	292	230	233	349	333	156	977	1300	631
MIN	160	158	230	214	204	173	219	125	80	66	93	68
ACFT	13330	13520	17770	15470	12700	12460	16310	14990	6020	11080	12230	7260

CAL YR 1983	TOTAL	182705	MEAN	501	MAX	2540	MIN	100	ACFT	362400
WTR YR 1984	TOTAL	77203	MEAN	211	MAX	1300	MIN	66	ACFT	153100

09408400 SANTA CLARA RIVER NEAR PINE VALLEY, UT

LOCATION.--Lat 37°23'00" long 113°28'57", in NW1/4SE1/4NE1/4 sec.24, T.39 S., R.15 W., Washington County, Hydrologic Unit 15010008, in Dixie National Forest, on right bank 150 ft upstream from highway bridge, 0.6 mi downstream from Pine Valley Reservoir, 1.6 mi southeast of town of Pine Valley, and 2.5 mi upstream from Grass Valley Creek.

DRAINAGE AREA.--18.7 mi^2.

PERIOD OF RECORD.--July 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,640 ft from topographic map.

REMARKS.--Records good except for the period Jan. 15 to June 25, which is fair. Flow slightly regulated by Pine Valley Reservoir. No diversion above station.

AVERAGE DISCHARGE.--25 years, 10.7 ft^3/s, 7,750 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 776 ft^3/s Dec. 6, 1966, gage height, 6.85 ft; minimum, 0.37 ft^3/s Mar. 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 36 ft^3/s Oct. 1, gage height, 2.10 ft, no peak above base of 60 ft^3/s; minimum, 1.5 ft^3/s Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	7.4	6.3	5.6	3.9	4.1	7.1	13	8.7	4.1	4.9	2.6
2	21	7.1	6.2	5.5	3.9	3.8	7.5	11	8.4	4.0	4.4	2.6
3	16	6.9	6.6	6.1	3.8	3.9	7.6	11	8.0	3.8	4.1	2.5
4	13	6.7	6.2	5.3	3.7	3.9	8.6	10	7.8	3.7	3.9	2.5
5	12	6.7	5.9	5.2	3.7	4.1	9.0	11	8.6	3.6	3.8	2.4
6	12	6.7	6.7	5.2	3.7	4.2	8.5	11	7.8	3.5	3.7	2.3
7	11	6.7	6.0	5.2	3.7	4.1	8.4	13	7.2	3.5	3.6	2.3
8	11	7.3	6.0	5.3	3.7	4.2	8.8	14	6.8	3.4	3.5	2.3
9	11	6.6	6.0	5.2	3.7	4.1	9.4	18	6.4	3.5	3.4	2.2
10	10	6.5	6.0	5.1	3.6	4.1	9.4	16	6.1	3.4	3.5	2.3
11	9.9	6.4	6.0	5.1	3.6	4.1	9.8	14	5.7	3.4	3.9	2.6
12	9.6	6.3	6.0	5.0	3.5	4.3	14	13	5.5	3.4	3.9	2.3
13	9.4	6.2	5.9	5.1	3.6	4.3	14	11	5.3	3.7	3.4	2.2
14	9.4	6.2	5.8	4.9	3.7	4.3	13	11	5.2	4.6	3.5	2.1
15	9.1	6.1	5.6	4.8	3.6	4.3	14	11	5.0	3.8	3.5	2.1
16	9.1	6.4	5.5	4.8	3.6	4.9	13	11	4.8	3.6	3.3	2.3
17	8.9	6.4	5.6	4.8	3.7	4.9	14	10	4.7	3.5	3.3	2.3
18	8.8	6.3	5.4	4.8	3.5	5.1	14	10	4.5	3.4	3.3	2.2
19	8.7	6.3	5.4	4.9	3.5	5.4	18	9.9	4.4	3.5	3.6	2.2
20	8.6	6.2	5.3	5.0	3.5	5.2	17	10	4.3	3.8	4.1	2.2
21	8.4	6.2	5.2	4.9	3.5	5.2	20	10	4.2	3.9	3.8	2.2
22	8.3	6.1	5.2	4.4	3.7	5.2	20	11	4.0	6.9	3.4	2.0
23	8.2	6.1	5.2	4.3	4.0	5.4	23	11	3.9	7.1	3.3	1.9
24	8.2	6.2	5.4	4.4	3.5	5.5	20	11	3.9	4.5	3.2	2.1
25	8.1	6.9	6.2	4.3	3.6	6.0	20	11	3.9	5.2	3.1	2.1
26	7.9	6.3	6.5	4.0	3.8	6.2	19	11	3.9	8.5	3.0	2.1
27	7.8	6.3	6.5	4.1	3.9	6.6	19	11	3.9	5.1	3.0	2.1
28	7.6	6.3	6.0	4.0	3.8	6.6	17	10	3.9	4.7	2.9	2.0
29	7.6	6.3	6.0	4.0	3.8	6.7	16	9.6	3.8	4.7	2.8	2.0
30	7.5	6.3	5.8	3.9	---	6.9	14	9.4	3.9	5.7	2.7	1.9
31	7.5	---	5.8	3.9	---	7.0	---	9.0	---	6.2	2.6	---
TOTAL	316.6	194.4	182.2	149.1	106.8	154.6	413.1	352.9	164.5	135.7	108.4	66.9
MEAN	10.2	6.48	5.88	4.81	3.68	4.99	13.8	11.4	5.48	4.38	3.50	2.23
MAX	21	7.4	6.7	6.1	4.0	7.0	23	18	8.7	8.5	4.9	2.6
MIN	7.5	6.1	5.2	3.9	3.5	3.8	7.1	9.0	3.8	3.4	2.6	1.9
ACFT	628	386	361	296	212	307	819	700	326	269	215	133

CAL YR 1983	TOTAL	11016.5	MEAN	30.2	MAX	212	MIN	3.2	ACFT	21850
WTR YR 1984	TOTAL	2345.2	MEAN	6.41	MAX	23	MIN	1.9	ACFT	4650

NOTE.--No gage height record May 23 to June 25.

09408500 SANTA CLARA-PINTO DIVERSION NEAR PINTO, UT
(Transmountain diversion)

LOCATION.--Lat 37°28'04", long 113°28'21", in SW1/4SE1/4NW1/4 sec.19, T.38 S., R.14 W., Washington County, Hydrologic Unit 15010008, on right bank 0.2 mi downstream from outlet of diversion tunnel and 6 mi southeast of Pinto.

PERIOD OF RECORD.--October 1953 to September 1962 (monthly discharge only, October 1953 to September 1960), October 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,820 ft from topographic map. Prior to September 1962, at site 600 ft upstream at different datum.

REMARKS.--Records good. Flow at this station is seasonal occurring during the snowmelt period and heavy storm periods. This is a transmountain diversion from a tributary of Santa Clara River in Colorado River Basin to Pinto Creek in Escalante Valley in the Great Basin.

AVERAGE DISCHARGE.--24 years (1953-62, 1969-84), 3.76 ft^3/s, 2,720 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 229 ft^3/s May 24, 1983, gage height, 2.58 ft; no flow for part of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 146 ft^3/s May 11, gage height, 2.30 ft; no flow for extended periods during year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.3	.96	1.1	2.0	5.8	2.9	7.9	2.1	.05	11	.00
2	2.8	1.3	1.0	1.2	1.9	5.4	2.8	7.8	2.0	.00	11	.00
3	1.7	1.2	1.0	1.4	1.9	4.1	3.2	8.3	1.8	.00	11	.00
4	1.6	1.1	1.0	1.7	1.9	3.3	4.6	9.7	1.8	.00	11	.00
5	1.5	1.2	.90	1.8	1.8	2.9	5.9	12	2.6	.00	11	.00
6	1.5	1.1	.82	1.8	1.8	2.6	7.5	13	2.1	.00	11	.00
7	1.4	1.1	.84	1.9	1.7	2.3	7.2	13	2.0	.00	11	.00
8	1.3	1.0	.88	1.9	1.7	2.0	6.9	11	1.9	.00	11	.00
9	1.3	.96	.90	1.9	1.6	1.8	7.9	10	1.8	.00	11	.00
10	1.2	1.0	.90	1.9	1.6	1.6	8.5	11	1.6	.00	11	.00
11	1.1	1.1	.90	1.9	1.6	1.5	16	13	1.5	.00	11	.00
12	1.4	1.2	.90	1.9	1.6	1.4	17	15	1.4	.00	11	.00
13	1.7	1.2	.90	1.9	1.6	1.4	20	15	1.2	.00	11	.00
14	1.7	1.2	.84	1.8	1.6	1.3	22	17	1.1	.00	11	.00
15	1.6	1.2	.86	1.5	1.6	1.3	26	17	.92	.00	11	.00
16	1.6	1.2	.95	1.2	1.6	1.3	29	15	.82	.00	11	.00
17	1.6	1.1	1.0	1.0	1.6	1.3	32	13	.76	.00	11	.00
18	1.0	1.1	1.2	.80	1.6	1.2	27	10	.38	.00	11	.00
19	1.1	1.1	1.6	.86	1.6	1.1	23	9.0	.01	.00	11	.00
20	1.2	1.1	1.5	.98	1.6	1.1	18	7.9	.00	.00	11	.00
21	1.2	1.1	1.3	1.1	1.6	1.3	13	6.9	.00	.00	11	.00
22	1.1	1.1	.95	1.3	1.7	1.5	11	6.5	.00	.08	11	.00
23	1.1	1.1	.99	1.6	1.9	1.6	10	6.2	.00	1.8	2.0	.00
24	1.2	1.1	1.1	1.6	2.4	1.7	11	5.4	.00	.67	1.1	.00
25	1.3	1.1	1.2	1.6	2.9	2.0	15	5.2	.00	.34	.94	.00
26	1.3	1.0	1.2	1.6	3.3	2.4	12	4.6	.00	.67	.66	.00
27	1.3	1.1	1.3	1.6	4.0	2.7	11	3.9	.00	3.7	.35	.00
28	1.3	1.1	1.2	1.6	4.7	2.6	10	3.6	.00	11	.15	.00
29	1.3	.94	1.1	1.6	5.2	2.9	9.7	3.5	.00	11	.00	.00
30	1.3	.94	1.0	1.7	---	2.9	8.6	2.6	.00	12	.00	.00
31	1.3	---	1.0	1.9	---	2.9	---	1.9	---	11	.00	---
TOTAL	43.8	33.34	32.19	47.64	61.6	69.2	398.7	285.9	27.79	52.31	247.20	.00
MEAN	1.41	1.11	1.04	1.54	2.12	2.23	13.3	9.22	.93	1.69	7.97	.00
MAX	2.8	1.3	1.6	1.9	5.2	5.8	32	17	2.6	12	11	.00
MIN	1.0	.94	.82	.80	1.6	1.1	2.8	1.9	.00	.00	.00	.00
ACFT	87	66	64	94	122	137	791	567	55	104	490	.00

CAL YR 1983	TOTAL	5139.78	MEAN	14.1	MAX	180	MIN	.00	ACFT	10190
WTR YR 1984	TOTAL	1299.67	MEAN	3.55	MAX	32	MIN	.00	ACFT	2580

09409880 SANTA CLARA RIVER AT GUNLOCK, UT

LOCATION.--Lat 37°16'55", long 113°46'00", in SW1/4SW1/4NW1/4 sec.28, T.40 S., R.17 W., Washington County, Hydrologic Unit 15010008, on right bank at downstream side of bridge on county road at Gunlock, 0.5 mi below tailrace of powerhouse.

DRAINAGE AREA.--271 mi^2.

PERIOD OF RECORD.--August 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,628 ft from topographic map.

REMARKS.--Records good. Many diversions for irrigation above station. Flow regulated by several reservoirs and powerplant above station.

AVERAGE DISCHARGE.--15 years, 28.6 ft^3/s, 20,720 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,810 ft^3/s Feb. 14, 1980, gage height, 5.74 ft from rating curve extended above 1,580 ft^3/s; no flow several days during 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 484 ft^3/s July 30, gage height, 4.94 ft; minimum daily, 3.1 ft^3/s July 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	24	25	24	17	14	25	10	6.3	3.8	18	12
2	80	23	25	24	17	14	23	11	7.4	4.5	20	11
3	40	23	25	26	16	17	26	9.7	7.9	4.4	18	12
4	34	22	27	26	17	19	25	11	7.3	3.9	20	12
5	28	21	25	26	19	17	25	10	8.3	3.1	17	13
6	27	20	25	26	22	17	24	10	7.3	3.5	15	13
7	25	19	25	26	22	18	26	13	6.9	4.2	14	13
8	23	20	25	24	21	17	22	10	6.5	5.1	13	12
9	21	22	25	22	20	17	23	9.0	7.9	4.7	12	12
10	23	22	24	22	20	17	19	10	7.4	4.1	11	12
11	23	21	24	24	20	16	16	12	6.5	4.3	12	12
12	23	21	24	24	17	16	13	11	6.1	4.7	12	12
13	23	22	24	24	17	16	15	13	5.4	4.5	13	13
14	23	23	24	25	17	15	14	14	4.2	3.8	13	14
15	22	24	24	25	18	17	13	17	4.2	4.5	8.6	13
16	21	25	24	24	17	18	16	17	4.8	12	8.9	12
17	21	25	24	24	18	16	19	12	5.2	7.4	8.4	14
18	22	26	24	25	20	20	19	9.1	5.1	5.2	8.4	14
19	22	24	24	24	20	19	19	9.0	5.6	10	8.4	14
20	24	23	24	24	18	17	20	8.3	5.1	18	8.8	14
21	21	24	23	22	18	14	20	10	5.5	45	9.3	13
22	22	24	23	21	17	15	17	9.6	4.9	86	8.7	11
23	23	23	24	20	17	14	17	9.5	4.1	52	9.7	11
24	23	23	24	18	17	12	15	7.8	5.5	24	9.7	11
25	25	27	24	16	17	16	12	6.6	5.6	20	9.7	11
26	25	25	26	16	17	16	12	6.6	5.1	18	10	11
27	24	26	27	16	17	19	11	6.8	6.4	18	10	8.4
28	23	26	25	16	17	18	12	7.3	4.5	18	10	6.3
29	24	27	24	17	15	18	13	7.2	3.8	18	11	6.6
30	24	27	24	18	---	23	12	6.5	3.2	25	12	7.8
31	24	---	24	17	---	22	---	5.7	---	16	12	---
TOTAL	867	702	759	686	525	524	543	309.7	174.0	455.7	371.6	351.1
MEAN	28.0	23.4	24.5	22.1	18.1	16.9	18.1	9.99	5.80	14.7	12.0	11.7
MAX	84	27	27	26	22	23	26	17	8.3	86	20	14
MIN	21	19	23	16	15	12	11	5.7	3.2	3.1	8.4	6.3
ACFT	1720	1390	1510	1360	1040	1040	1080	614	345	904	737	696

CAL YR 1983	TOTAL	21035.6	MEAN	57.6	MAX	1010	MIN	7.5	ACFT	41720
WTR YR 1984	TOTAL	6268.1	MEAN	17.1	MAX	86	MIN	3.1	ACFT	12430

09410100 SANTA CLARA RIVER BELOW WINSOR DAM, NEAR SANTA CLARA, UT

LOCATION.--Lat 37°11'24", long 113°46'03", in SW1/4SW1/4NW1/4 sec.28, T.41 S., R.17 W., Washington County, Hydrologic Unit 15010008, on left bank 900 ft downstream from Winsor Dam, 0.6 mi northwest of Shivwits Indian Village, and 78.5 mi northwest of Santa Clara.

DRAINAGE AREA.--378 mi^2.

PERIOD OF RECORD.--December 1971 to current year.

REVISED RECORDS.--WRD UT-73-1: 1972(M).

GAGE.--Water-stage recorder. Altitude of gage is 3,210 ft from topographic map, prior to July 11, 1979 at several sites downstream at different datums.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--12 years, 31.8 ft^3/s, 23,040 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,770 ft^3/s Mar. 3, 1983, gage height, 6.07 ft from rating curve extended above 980 ft^3/s on basis of slope-area measurement; no flow several days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 188 ft^3/s Nov. 17, gage height, 2.45 ft; minimum, 5.4 ft^3/s Nov. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	48	43	29	42	17	11	23	22	22	18	20
2	33	51	43	29	41	16	12	20	22	23	17	19
3	25	53	43	29	40	12	12	17	22	21	17	19
4	24	52	43	29	34	12	12	16	24	20	17	19
5	24	39	43	28	35	11	11	18	23	19	17	19
6	24	8.2	43	27	32	13	12	19	20	19	17	19
7	24	19	43	27	33	11	12	20	17	18	17	19
8	24	33	43	27	30	15	12	20	17	18	17	19
9	24	37	43	27	29	22	15	20	17	18	17	19
10	24	38	43	27	30	22	14	21	18	18	17	19
11	24	39	43	27	22	18	18	22	16	18	17	19
12	24	50	44	56	21	15	15	22	16	19	17	19
13	25	34	44	70	20	13	17	20	24	19	17	19
14	25	31	44	43	20	14	24	21	22	20	17	18
15	25	35	44	38	20	14	25	15	21	20	50	18
16	25	57	44	35	19	14	26	15	18	20	36	18
17	25	90	39	33	17	15	29	14	18	20	15	18
18	25	85	33	31	21	15	27	14	21	18	13	18
19	25	50	31	30	17	16	24	13	21	19	16	18
20	26	41	30	30	20	17	35	13	22	18	23	17
21	25	41	29	31	17	15	33	15	21	34	34	17
22	25	42	27	29	18	17	31	15	21	27	33	18
23	25	42	25	27	19	17	32	15	21	21	22	17
24	25	42	24	26	19	17	31	20	20	18	22	18
25	31	41	23	47	19	16	25	21	21	21	22	18
26	28	42	22	88	16	17	16	25	21	23	22	18
27	26	42	21	38	16	16	18	22	21	28	22	19
28	26	42	20	29	17	16	25	20	21	40	22	21
29	34	42	20	25	18	17	25	19	22	21	22	15
30	38	43	27	23	---	18	20	21	23	23	21	10
31	43	---	28	29	---	15	---	23	---	34	20	---
TOTAL	839	1309.2	1092	1064	702	483	619	579	613	677	654	544
MEAN	27.1	43.6	35.2	34.3	24.2	15.6	20.6	18.7	20.4	21.8	21.1	18.1
MAX	43	90	44	88	42	22	35	25	24	40	50	21
MIN	24	8.2	20	23	16	11	11	13	16	18	13	10
ACFT	1660	2600	2170	2110	1390	958	1230	1150	1220	1340	1300	1080

CAL YR 1983	TOTAL	27238.81	MEAN	74.6	MAX	1530	MIN	.00	ACFT	54030
WTR YR 1984	TOTAL	9175.2	MEAN	25.1	MAX	90	MIN	8.2	ACFT	18200

09413200 VIRGIN RIVER NEAR BLOOMINGTON, UT

LOCATION.--Lat 37°04'14", long 113°34'55", in SE1/4NW1/4SW1/4 sec.6, T.43 S., R.15 W., Washington County, Hydrologic Unit 15010010, on left bank 2.5 mi south of St. George.

DRAINAGE AREA.--3,831 mi^2.

PERIOD OF RECORD.--September 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,530 ft from topographic map, prior to Sept. 19, 1978 at site 1.5 mi downstream at different datum.

REMARKS.--Records fair. Diversions for irrigation of about 19,600 acres above station.

AVERAGE DISCHARGE.--7 years, 351 ft^3/s, 254,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 10,000 ft^3/s Feb. 15, 1980; minimum, 5.8 ft 3/s Sept. 21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,790 ft^3/s Sept. 11, gage height, 8.48 ft from highwater mark; minimum, 22 ft^3/s June 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	551	182	320	310	259	188	277	199	67	31	210	52
2	1320	176	330	290	265	193	308	174	65	31	113	49
3	760	165	350	285	251	177	306	195	66	31	73	47
4	440	165	640	285	260	194	289	250	67	31	55	46
5	350	165	330	285	267	193	259	279	71	31	49	45
6	340	165	292	285	261	189	299	320	104	31	50	45
7	350	165	292	278	252	191	236	295	101	31	46	44
8	335	420	292	270	249	192	223	272	84	31	46	44
9	315	452	292	261	278	203	210	268	74	31	44	44
10	300	265	292	260	271	189	177	280	64	35	40	62
11	285	260	292	255	257	208	148	299	66	60	39	760
12	272	250	292	250	261	191	167	301	47	120	42	350
13	260	248	292	250	261	200	178	287	37	108	37	68
14	248	248	292	253	255	213	207	287	36	200	35	53
15	235	248	292	265	240	202	247	320	43	150	35	50
16	225	252	293	270	217	169	282	303	42	137	110	52
17	210	255	294	274	240	155	304	217	51	81	154	53
18	195	525	286	279	230	178	315	193	45	81	240	56
19	187	340	286	282	226	216	297	182	42	153	200	58
20	195	315	287	285	219	205	300	174	47	94	1280	58
21	265	320	288	288	204	198	258	158	44	695	250	58
22	265	330	288	290	211	208	245	141	39	967	190	56
23	265	330	288	292	208	207	218	124	45	1530	158	61
24	265	320	300	296	198	156	235	114	31	272	148	53
25	265	390	330	292	190	124	272	118	32	160	140	34
26	255	350	650	290	215	134	279	111	34	204	250	34
27	230	330	900	292	194	178	235	113	26	169	90	34
28	230	320	550	280	175	172	192	98	27	499	70	33
29	207	320	314	285	167	143	194	76	27	711	62	62
30	182	320	310	270	---	204	183	74	31	427	59	74
31	182	---	310	260	---	231	---	71	---	419	57	---
TOTAL	9984	8591	10864	8607	6781	5801	7340	6293	1555	7551	4372	2535
MEAN	322	286	350	278	234	187	245	203	51.8	244	141	84.5
MAX	1320	525	900	310	278	231	315	320	104	1530	1280	760
MIN	182	165	286	250	167	124	148	71	26	31	35	33
ACFT	19800	17040	21550	17070	13450	11510	14560	12480	3080	14980	8670	5030

CAL YR 1983	TOTAL	206094	MEAN	565	MAX	2800	MIN	49	ACFT	408800
WTR YR 1984	TOTAL	80274	MEAN	219	MAX	1530	MIN	26	ACFT	159200

GREAT SALT LAKE BASIN

10010000 GREAT SALT LAKE AT STATE PARK SALTAIR BEACH BOAT HARBOR, UT

LOCATION.--Lat 40°44'05", long 112°12'45", in NE1/4SW1/4NW1/4 sec.17, T.1 S., R.3 W., Salt Lake County, Hydrologic Unit 16020310, at State Park Saltair Beach Boat Harbor on southeast shore of lake, 17.1 mi west of Salt Lake City. (Gage temporarily located 0.4 mi to the southeast, from Apr. 13, 1984 to present, because of problems associated with highwater.)

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 in WSP 1314.

REVISED RECORDS.--WSP 1314: 1877. WRD-UT-74-1: 1967-73. WDR-UT-83-1: 1981-82.

GAGE.--Water-stage recorder at Boat Harbor since October 1938. Datum at gage since September 15, 1970 is 4,186.80 ft NGVD of 1929. October 1938 to April 15, 1967, at datum 4,186.9 ft and April 15, 1967 to September 15, 1970, at datum 4,186.85 ft. Prior to October 1938, staff gages at sites and datums as follows: September 1875 to October 1877 at Black Rock at 4,208.4 ft NGVD of 1929, November 1877 to November 1879 at Farmington Bay at 4,206.9 ft NGVD of 1929, November 1879 to April 1881 near Black Rock at 4,203.1 ft NGVD of 1929, April 1881 to December 1899 at Garfield Landing at 4,198.5 ft NGVD of 1929, October 1902 to July 1903, at Midlake on Lucin cutoff of Southern Pacific Railroad, 30 mi west of Ogden, at 4,197.9 ft NGVD of 1929, and July 1903 to October 1938 at Saltair at 4,196.9 ft NGVD of 1929.

REMARKS.--To compensate for wind effect and seiches, elevations given for the gage are taken from a mean-slope line defined by several days' gage-height graph, preceding and following 0001 hours, for the 1st and 15th of each month. Wind effects may cause substantial changes in elevations, which are not shown in the published elevations.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 4,210.9 ft June 30, 1876; minimum, 4,191.35 ft Oct. 15, Nov. 1, 1963. Maximum elevation since 1847, 4,211.6 ft in 1873, computed from traditional data by G. K. Gilbert and E. C. LaRue.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4209.25 ft July 1-3; minimum, 4204.35 ft Oct. 1.

GAGE HEIGHT AND ELEVATION, IN FEET, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Day		Gage height	Elevation
Oct.	1	17.55	4,204.35
	15	17.75	4,204.55
Nov.	1	17.90	4,204.70
	15	17.95	4,204.75
Dec.	1	18.25	4,205.05
	15	18.60	4,205.40
Jan.	1	19.10	4,205.90
	15	19.35	4,206.15
Feb.	1	19.50	4,206.30
	15	19.70	4,206.50
Mar.	1	19.90	4,206.70
	15	20.10	4,206.90
Apr.	1	20.55	4,207.35
	15	20.95	4,207.75
May	1	21.30	4,208.10
	15	21.55	4,208.35
June	1	22.00	4,208.80
	15	22.35	4,209.15
July	1	22.45	4,209.25
	15	22.30	4,209.10
Aug.	1	22.25	4,209.05
	15	21.75	4,208.55
Sept.	1	21.35	4,208.15
	15	21.20	4,208.00

10010100 GREAT SALT LAKE NEAR SALINE, UT

LOCATION (REVISED).--Lat 41°15'09", long 112°29'40", in SE1/4NE1/4NW1/4 sec.14, T.6 N., R.6 W., Box Elder County, Hydrologic Unit 16020310, 3.4 mi northwest of Saline at the Little Valley boat harbor, 30 mi west of Ogden and 27 mi south of Promontory.

PERIOD OF RECORD.--April 1966 to current year.

REVISED RECORDS.--WDR UT-75-1: 1966-75. WDR UT-83-1: 1966-82, gage datum.

GAGE.--Water-stage recorder on pier of boat harbor. Datum of gage, 4,189.80 ft NGVD of 1929.

REMARKS.--To compensate for wind effect and seiches, elevations given for the gage are taken from a mean-slope line defined by several days' gage-height graph, preceding and following 0001 hours, for the 1st and 15th of each month. Wind effects may cause substantial changes in elevations, which are not shown in the published elevations.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 4,206.90 ft Sept. 30, 1984; minimum, 4,192.65 ft Oct. 15, Nov. 1, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4,206.90 ft Sept. 30; minimum, 4,201.85 ft Oct. 1.

GAGE HEIGHT AND ELEVATION, IN FEET, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Day		Gage height	Elevation
Oct.	1	12.05	4,201.85
	15	12.20	4,202.00
Nov.	1	12.35	4,202.15
	15	12.45	4,202.25
Dec.	1	12.70	4,202.50
	15	12.95	4,202.75
Jan.	1	13.30	4,203.10
	15	13.60	4,203.40
Feb.	1	13.80	4,203.60
	15	14.00	4,203.80
Mar.	1	14.30	4,204.10
	15	14.40	4,204.20
Apr.	1	14.65	4,204.45
	15	14.80	4,204.60
May	1	15.00	4,204.80
	15	15.05	4,204.85
June	1	15.25	4,205.05
	15	15.50	4,205.30
July	1	15.55	4,205.35
	15	15.60	4,205.40
Aug.	1	15.80	4,205.60
	15	16.40	4,206.20
Sept.	1	16.80	4,206.60
	15	17.05	4,206.85

10010400 EAST FORK BEAR RIVER NEAR EVANSTON, WY

LOCATION.--Lat 40°52'25", long 110°47'00", in SE1/4SE1/4SW1/4 sec.26, T.2 N., R.10 E., Summit County, Utah, Hydrologic Unit 16010101, Wasatch National Forest, on right bank 4.1 mi upstream from mouth, 11.5 mi upstream from Utah-Wyoming State line, and 28.7 mi south of Evanston.

DRAINAGE AREA.--34.6 mi^2.

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,760 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--11 years, 57.0 ft^3/s, 41,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 857 ft^3/s June 18, 1983, gage height, 4.33 ft; minimum, 4.5 ft^3/s Apr. 17, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 560 ft^3/s May 30; minimum daily, 9.0 ft^3/s Jan. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	28	18	22	10	11	13	17	480	345	106	54
2	42	26	18	22	10	11	14	17	450	312	97	50
3	43	25	18	23	10	11	12	16	470	286	89	47
4	42	25	19	22	11	11	10	16	400	265	85	45
5	42	23	20	20	11	11	11	15	370	239	96	42
6	39	24	21	19	11	11	11	16	330	220	92	70
7	39	25	21	20	11	11	11	15	300	211	79	54
8	38	24	21	20	11	10	12	15	270	230	75	48
9	39	23	20	22	11	10	13	22	240	300	70	45
10	48	25	20	20	13	10	12	24	220	257	68	42
11	47	26	20	21	13	11	14	28	210	199	68	45
12	43	24	20	17	13	11	13	42	200	179	66	66
13	43	25	19	15	12	11	13	70	205	184	61	56
14	45	24	19	12	12	11	15	127	220	163	65	52
15	42	23	19	11	13	10	16	215	235	151	64	50
16	39	26	20	10	14	10	18	186	242	142	66	48
17	38	23	21	11	13	11	22	157	253	133	64	47
18	38	24	19	10	12	11	22	202	270	124	69	43
19	35	24	18	9.0	11	12	20	262	290	117	85	42
20	34	22	17	9.5	10	11	19	312	305	116	97	53
21	33	20	16	11	10	11	20	445	330	131	75	92
22	32	19	16	12	11	12	22	445	340	159	69	63
23	32	20	17	13	11	12	23	402	340	142	72	55
24	32	19	18	13	11	11	23	446	340	129	72	62
25	30	18	19	13	11	10	22	548	350	138	82	62
26	29	20	20	13	10	10	20	443	350	145	72	60
27	28	20	21	12	10	10	19	366	350	142	65	56
28	27	20	21	12	10	11	18	392	348	122	61	53
29	26	20	21	11	11	11	18	376	345	145	58	50
30	27	19	22	11	---	13	17	560	377	122	54	48
31	27	---	23	10	---	11	---	540	---	116	56	---
TOTAL	1143	684	602	466.5	327	338	493	6737	9430	5664	2298	1600
MEAN	36.9	22.8	19.4	15.0	11.3	10.9	16.4	217	314	183	74.1	53.3
MAX	48	28	23	23	14	13	23	560	480	345	106	92
MIN	26	18	16	9.0	10	10	10	15	200	116	54	42
ACFT	2270	1360	1190	925	649	670	978	13360	18700	11230	4560	3170

CAL YR 1983	TOTAL	28603.5	MEAN	78.4	MAX	690	MIN	9.0	ACFT	56740
WTR YR 1984	TOTAL	29782.5	MEAN	81.4	MAX	560	MIN	9.0	ACFT	59070

10011200 WEST FORK BEAR RIVER AT WHITNEY DAM, NEAR OAKLEY, UT

LOCATION.--Lat 40°50'30", long 110°55'35", in NE1/4 sec.9, T.1 N., R.9 E., Summit County, Hydrologic Unit 16010101, Wasatch National Forest, on left bank 1,380 ft downstream from Whitney Dam, 7 mi upstream from Deer Creek, and 21.5 mi northeast of Oakley.

DRAINAGE AREA.--6.79 mi^2.

PERIOD OF RECORD.--October 1963 to current year. Prior to October 1965 published as, "at Whitney Dam Site."

REVISED RECORD.--WRD UT-73-1: Drainage area.

GAGE.--Water-stage recorder and concrete control with V-notch sharp-crested weir since Aug. 4, 1966. Altitude of gage is 9,120 ft from topographic map.

REMARKS.--Records poor. Flow regulated by Whitney Reservoir, total capacity, 4,700 acre-ft since July 1966.

AVERAGE DISCHARGE.--18 years (water years 1967-84), 8.18 ft^3/s, 5,930 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 145 ft^3/s June 13, 1965; maximum gage height, 3.08 ft June 26, 1967; no flow July 24 to Sept. 30, Nov. 16-29, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 95 ft^3/s June 3, gage height, 2.70 ft; minimum daily, 0.16 ft^3/s Jan. 31, Feb. 1, 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	20	.52	.34	.16	.22	.50	1.4	77	40	8.5	6.9
2	40	20	.50	.33	.17	.22	.50	1.3	84	36	7.4	6.9
3	43	20	.50	.33	.17	.22	.53	1.3	91	32	7.3	6.7
4	44	16	.50	.35	.17	.23	.55	1.3	79	29	7.0	6.6
5	39	2.0	.50	.37	.17	.25	.51	1.3	76	27	6.8	6.6
6	31	1.8	.50	.35	.16	.25	.49	1.3	68	25	6.5	6.6
7	26	1.7	.52	.30	.17	.24	.50	1.3	57	14	6.2	6.6
8	25	1.6	.54	.32	.17	.25	.51	1.3	49	15	5.9	6.6
9	25	1.7	.54	.35	.18	.26	.52	1.3	42	20	5.6	6.6
10	24	1.8	.52	.33	.18	.26	.60	1.3	39	22	5.4	6.6
11	24	1.6	.48	.32	.19	.25	.56	1.3	37	19	5.3	6.6
12	24	1.4	.45	.34	.18	.26	.60	1.3	35	17	5.3	6.6
13	24	1.4	.42	.32	.18	.28	.56	1.3	34	15	5.4	6.6
14	24	1.7	.42	.25	.17	.29	.58	1.3	34	11	8.4	6.6
15	24	1.5	.41	.23	.18	.31	.60	1.3	40	12	8.9	6.6
16	24	1.3	.40	.20	.18	.33	1.1	1.3	46	12	7.9	6.6
17	24	1.2	.38	.18	.19	.34	1.2	1.3	51	12	7.2	6.6
18	24	1.0	.35	.19	.18	.36	1.4	1.3	60	11	7.8	6.6
19	23	.86	.33	.20	.17	.38	1.4	1.3	66	10	11	6.6
20	23	.78	.30	.19	.18	.41	1.4	1.5	65	10	14	6.7
21	23	.74	.29	.17	.18	.41	1.3	1.8	69	12	11	6.6
22	23	.64	.29	.17	.19	.42	1.3	1.9	68	12	9.1	23
23	23	.60	.29	.18	.20	.44	1.3	2.0	63	10	9.0	76
24	23	.56	.30	.19	.21	.45	1.4	2.1	59	9.9	8.6	79
25	22	.56	.29	.20	.23	.44	1.4	2.3	53	11	8.2	79
26	22	.56	.29	.19	.22	.42	1.4	2.4	48	12	8.1	79
27	22	.56	.29	.19	.22	.40	1.3	2.6	49	12	7.4	78
28	21	.56	.30	.18	.23	.43	1.3	2.5	48	11	7.0	75
29	21	.56	.32	.18	.22	.45	1.3	13	45	9.9	6.9	78
30	21	.54	.34	.17	---	.47	1.3	21	43	9.6	6.9	73
31	21	---	.35	.16	---	.51	---	40	---	8.9	6.9	---
TOTAL	818	105.22	12.43	7.77	5.40	10.45	27.91	117.9	1675	507.3	236.9	779.4
MEAN	26.4	3.51	.40	.25	.19	.34	.93	3.80	55.8	16.4	7.64	26.0
MAX	44	20	.54	.37	.23	.51	1.4	40	91	40	14	79
MIN	21	.54	.29	.16	.16	.22	.49	1.3	34	8.9	5.3	6.6
ACFT	1620	209	25	15	11	21	55	234	3320	1010	470	1550

CAL YR 1983	TOTAL	4151.15	MEAN	11.4	MAX	96	MIN	.29	ACFT	8230
WTR YR 1984	TOTAL	4303.68	MEAN	11.8	MAX	91	MIN	.16	ACFT	8540

10011400 WEST FORK BEAR RIVER BELOW DEER CREEK, NEAR EVANSTON, WY

LOCATION.--Lat 40°56'26", long 110°51'30", in NE1/4SE1/4NW1/4 sec.6, T.2 N., R.10 E., Summit County, Utah, Hydrologic Unit 16010101, on left bank 0.8 mi downstream from Deer Creek, 2.1 mi upstream from mouth, and 22.9 mi south of Evanston.

DRAINAGE AREA.--52.2 mi^2.

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,190 ft from topographic map.

REMARKS.--Records fair except those for winter months, which are poor. Flow regulated by Whitney Reservoir, total capacity, 4,700 acre-ft since July 1966.

AVERAGE DISCHARGE.--11 years, 47.5 ft^3/s, 32,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,020 ft^3/s May 15, 1984, gage height, 4.20 ft; minimum, 2.0 ft^3/s Aug. 11, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,020 ft^3/s May 15, gage height, 4.20 ft; minimum daily, 9.5 ft^3/s Jan. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	38	21	23	11	17	12	26	512	144	44	31
2	67	37	20	22	12	16	15	27	403	130	40	29
3	70	36	20	23	13	14	16	26	457	118	38	28
4	70	33	21	23	13	14	18	26	347	108	36	27
5	65	20	21	22	14	14	13	26	395	100	36	27
6	57	19	22	20	14	14	12	24	337	92	36	46
7	46	18	23	19	14	14	12	26	314	81	34	38
8	45	17	23	22	14	14	13	31	287	79	32	32
9	44	17	23	20	14	13	14	49	239	96	30	30
10	57	16	22	19	14	14	15	75	224	94	30	28
11	56	16	22	20	15	12	14	108	210	78	30	28
12	50	16	22	21	15	13	20	163	192	70	31	31
13	48	17	22	17	14	14	14	273	194	69	30	33
14	49	18	22	14	14	12	16	405	200	63	34	30
15	47	15	20	12	15	15	16	630	210	57	35	30
16	46	16	21	11	16	15	20	585	220	54	34	30
17	46	19	23	10	16	16	26	459	233	51	32	29
18	46	21	22	12	14	17	32	475	251	48	38	28
19	44	26	21	10	14	18	33	499	267	47	68	28
20	43	22	19	9.5	13	17	29	587	259	47	68	29
21	42	21	19	11	13	17	28	602	262	55	45	55
22	42	22	18	12	14	18	29	515	246	55	38	46
23	41	22	18	13	14	19	31	562	225	49	43	89
24	43	21	18	13	14	18	35	503	213	48	46	97
25	41	21	19	13	14	17	35	368	205	50	42	96
26	40	22	19	12	15	13	32	344	187	53	40	98
27	39	21	20	11	14	14	30	347	178	55	35	98
28	38	21	21	12	14	17	29	311	167	49	32	91
29	38	21	20	11	15	17	29	328	155	47	31	91
30	37	21	20	11	---	14	26	361	156	47	30	87
31	38	---	23	11	---	16	---	489	---	46	31	---
TOTAL	1502	650	645	479.5	406	473	664	9250	7745	2180	1169	1460
MEAN	48.5	21.7	20.8	15.5	14.0	15.3	22.1	298	258	70.3	37.7	48.7
MAX	70	38	23	23	16	19	35	630	512	144	68	98
MIN	37	15	18	9.5	11	12	12	24	155	46	30	27
ACFT	2980	1290	1280	951	805	938	1320	18350	15360	4320	2320	2900

CAL YR 1983	TOTAL	26742	MEAN	73.3	MAX	611	MIN	10	ACFT	53040
WTR YR 1984	TOTAL	26623.5	MEAN	72.7	MAX	630	MIN	9.5	ACFT	52810

10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE

LOCATION.--Lat 40°57'55", long 110°51'10", in SE1/4NW1/4SE1/4 sec.30, T.3 N., R.10 E., Summit County, Utah Hydrologic Unit 16010101, on left bank 400 ft downstream from West Fork and 2.8 mi upstream from Utah-Wyoming State line.

DRAINAGE AREA.--172 mi^2.

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

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

GAGE.--Water-stage recorder. Altitude of gage is 7,965 ft from river-profile map.

REMARKS.--Records fair. Flow regulated slightly by Whitney Reservoir, total capacity, 4,700 acre-ft since 1966. Three diversions above station for irrigation of about 265 acres above and 2,600 acres below station.

AVERAGE DISCHARGE.--42 years, 194 ft^3/s, 140,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,980 ft^3/s June 6, 1968, gage height, 3.79 ft; maximum gage height, 4.28 ft June 19, 1983; minimum, 6.8 ft^3/s Apr. 12, 1984, result of upstream ice jam.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 15	2100	2,020	3.43
May 24	0330	*2,650	3.94
May 31	2350	2,540	3.85

Minimum, 6.8 ft^3/s Apr. 12, result of upstream ice jam.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	222	129	100	104	52	65	66	102	1950	999	252	149
2	211	129	104	100	54	65	65	102	1550	914	225	126
3	212	124	102	108	60	65	68	102	1660	824	206	118
4	199	121	97	113	63	65	61	101	1340	773	195	112
5	197	111	100	105	68	65	66	101	1330	709	199	107
6	177	108	100	97	68	65	67	102	1190	646	213	216
7	158	108	100	93	71	65	67	100	1100	590	173	173
8	152	113	106	95	68	65	68	106	952	603	155	135
9	152	89	106	90	66	65	73	148	818	784	143	122
10	206	113	102	107	66	65	63	259	773	747	138	113
11	222	109	100	92	64	65	68	346	712	557	137	115
12	180	106	100	99	62	65	44	499	667	488	151	209
13	177	105	101	80	61	65	66	833	739	517	132	198
14	190	101	105	64	60	65	59	1220	903	447	148	167
15	179	98	100	58	64	65	72	1620	1090	393	144	162
16	167	107	100	50	70	66	86	1600	1080	364	156	155
17	167	105	108	45	74	67	103	1360	1080	334	145	145
18	169	104	106	54	72	67	123	1380	1180	306	163	133
19	154	98	100	48	66	66	128	1420	1230	285	248	131
20	153	104	83	44	60	67	106	1660	1200	279	341	141
21	151	100	80	48	62	67	102	1980	1270	321	211	354
22	149	93	78	54	62	67	109	1820	1250	394	183	241
23	145	103	76	58	64	67	110	1920	1200	354	201	252
24	150	103	74	60	64	65	120	2040	1170	336	205	270
25	139	103	78	61	65	65	115	1600	1160	343	218	262
26	135	99	82	56	65	66	103	1430	1160	347	208	268
27	132	100	88	54	64	69	99	1540	1100	341	171	253
28	128	100	90	53	65	70	97	1500	1050	282	153	228
29	127	100	84	52	65	69	100	1610	1030	326	143	217
30	126	100	82	52	---	67	102	1750	1070	299	133	209
31	128	---	110	50	---	66	---	2020	---	273	139	---
TOTAL	5154	3183	2942	2244	1865	2046	2576	32371	34004	15175	5629	5481
MEAN	166	106	94.9	72.4	64.3	66.0	85.9	1044	1133	490	182	183
MAX	222	129	110	113	74	70	128	2040	1950	999	341	354
MIN	126	89	74	44	52	65	44	100	667	273	132	107
ACFT	10220	6310	5840	4450	3700	4060	5110	64210	67450	30100	11170	10870

CAL YR 1983	TOTAL	113572	MEAN	311	MAX	2130	MIN	40	ACFT	225300
WTR YR 1984	TOTAL	112670	MEAN	308	MAX	2040	MIN	44	ACFT	223500

10015700 SULPHUR CREEK ABOVE RESERVOIR, NEAR EVANSTON, WY

LOCATION.--Lat 41°08'38", long 110°48'19", in NE1/4SE1/4SW1/4 sec.35, T.14 N., R.119 W., Uinta County, Hydrologic Unit 16010101, on right bank 1.2 mi downstream from Willow Creek, 2 mi upstream from Sulphur Creek Dam, and 11.5 mi southeast of Evanston.

DRAINAGE AREA.--64.2 mi^2.

PERIOD OF RECORD.--October 1957 to current year. Monthly discharge only for October and November 1957, published in WSP 1734.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,180 ft from topographic map.

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

AVERAGE DISCHARGE.--27 years, 18.1 ft^3/s, 13,110 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,400 ft^3/s June 1, 1983, gage height, 9.10 ft, from rating curve extended above 1,200 ft^3/s on basis of slope-area measurement of peak flow. Flood was result of released water from temporary blockage of upstream road culverts; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,230 ft^3/s May 16, gage height, 6.02 ft; minimum daily, 3.4 ft^3/s Jan. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	8.8	8.7	11	3.9	7.0	13	99	202	24	20	8.2
2	8.8	8.8	8.6	10	3.8	7.0	13	121	113	22	17	8.6
3	11	8.8	8.3	11	3.7	7.0	13	137	110	20	13	7.8
4	10	9.2	8.0	11	3.8	7.4	13	162	92	17	10	7.1
5	8.4	9.2	8.0	11	3.8	8.0	12	152	140	16	15	6.4
6	8.0	9.2	8.0	10	4.0	9.0	13	117	123	12	14	12
7	7.3	9.6	7.8	9.4	4.0	9.2	13	106	139	8.9	11	17
8	6.9	12	7.8	9.8	4.1	9.2	14	172	147	9.7	10	12
9	6.9	10	7.6	9.2	4.4	9.4	15	412	135	18	10	8.6
10	24	11	8.0	10	4.1	9.6	14	582	96	21	9.3	6.8
11	20	14	8.0	10	3.9	10	14	670	99	17	9.3	6.1
12	12	16	8.0	9.4	4.0	10	15	674	73	14	10	7.5
13	10	19	8.0	10	3.9	10	15	742	63	17	10	8.9
14	10	15	8.6	10	3.8	10	15	760	59	15	10	8.6
15	11	17	8.4	7.0	3.9	10	14	806	62	9.7	12	5.8
16	9.2	17	8.6	5.0	4.0	11	15	643	45	10	16	6.8
17	8.8	19	8.8	4.0	4.0	11	20	369	32	10	16	7.1
18	8.4	20	8.6	3.8	4.1	11	30	320	36	9.3	11	6.4
19	8.4	20	8.4	3.4	4.5	11	45	334	41	9.3	21	6.1
20	8.8	17	8.4	3.6	4.8	11	70	401	39	10	36	6.8
21	8.4	13	8.2	3.8	5.0	12	110	465	30	18	20	29
22	8.0	11	8.4	3.5	5.0	12	114	273	27	28	14	22
23	7.7	9.5	8.8	3.5	5.0	11	140	292	25	31	17	14
24	8.8	9.0	9.0	3.8	5.0	11	203	301	24	30	18	15
25	9.2	8.8	10	4.0	5.4	11	171	166	23	24	17	21
26	8.4	8.8	10	4.5	6.0	11	119	139	22	26	17	26
27	8.4	8.8	10	4.6	6.0	12	96	145	22	36	13	17
28	8.0	8.7	9.2	4.5	6.0	12	86	118	20	30	10	12
29	8.0	8.7	9.8	4.4	6.4	12	79	113	20	52	8.9	11
30	8.4	8.7	10	4.1	---	11	78	112	20	34	8.2	12
31	8.8	---	11	4.0	---	12	---	134	---	23	7.5	---
TOTAL	297.3	365.6	269.0	213.3	130.3	314.8	1582	10037	2079	621.9	431.2	343.6
MEAN	9.59	12.2	8.68	6.88	4.49	10.2	52.7	324	69.3	20.1	13.9	11.5
MAX	24	20	11	11	6.4	12	203	806	202	52	36	29
MIN	6.9	8.7	7.6	3.4	3.7	7.0	12	99	20	8.9	7.5	5.8
ACFT	590	725	534	423	258	624	3140	19910	4120	1230	855	682

CAL YR 1983	TOTAL	16205.3	MEAN	44.4	MAX	691	MIN	3.0	ACFT	32140
WTR YR 1984	TOTAL	16685.0	MEAN	45.6	MAX	806	MIN	3.4	ACFT	33090

BEAR RIVER BASIN

10015900 SULPHUR CREEK BELOW RESERVOIR, NEAR EVANSTON, WY

LOCATION.--Lat 41°09'21", long 110°50'05", in SE1/4SE1/4SE1/4 sec.28, T.14 N., R.119 W., Uinta County, Hydrologic Unit 16010101, on left bank 400 ft downstream from Sulphur Creek Dam, 6.3 mi upstream from mouth, and 10.5 mi southeast of Evanston.

DRAINAGE AREA.--69.2 mi^2.

PERIOD OF RECORD.--April 1958 to current year.

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

GAGE.--Water-stage recorder and concrete V-notch control. Altitude of gage is 7,120 ft from topographic map.

REMARKS.--Records poor. Flow regulated by Sulphur Creek Reservoir, capacity, 7,100 acre-ft. Records prior to 1965 do not include flow over spillway of the dam.

AVERAGE DISCHARGE.--20 years (water years 1965-84), 26.6 ft^3/s, 19,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD (SINCE 1966).--Maximum daily discharge, 740 ft^3/s May 15, 1984; no flow at times each year, except 1972.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 740 ft^3/s May 15; no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	.00	.00	25	37	49	61	64	231	9.4	50	7.2
2	39	.00	.00	26	38	49	62	64	170	13	46	6.9
3	39	.00	.00	26	38	49	62	64	170	16	44	6.4
4	38	.00	.00	26	39	49	62	64	170	18	44	6.2
5	38	.00	.00	27	39	50	62	64	170	18	44	4.3
6	38	.00	.00	27	40	50	62	90	170	18	44	4.3
7	38	.00	.00	27	40	50	62	120	170	17	8.0	7.7
8	38	.00	.00	28	40	50	62	140	170	15	.25	8.0
9	6.9	.00	.00	28	41	51	62	170	170	18	.23	7.4
10	.07	.00	.20	28	41	51	62	230	92	24	.23	6.2
11	.05	.00	1.0	29	42	52	62	450	51	28	.26	48
12	.05	.00	3.0	29	43	52	62	570	52	30	.26	83
13	.04	.00	6.0	29	44	53	62	680	36	28	.26	82
14	.04	.00	10	30	44	54	63	700	8.5	28	.26	83
15	.04	.00	20	30	44	54	63	740	8.5	27	.26	82
16	.00	.00	20	30	44	54	63	580	8.5	27	.29	82
17	.00	.00	20	31	45	54	63	446	8.5	27	.29	82
18	.00	.00	21	31	45	55	63	396	8.5	26	.42	82
19	.00	.00	21	32	45	55	63	362	8.5	22	1.2	82
20	.00	.00	22	32	45	56	63	357	8.5	19	8.8	81
21	.00	.00	22	32	46	56	63	398	8.8	24	24	81
22	.00	.00	22	33	46	57	63	360	8.8	30	28	80
23	.00	.00	23	33	46	57	63	328	8.8	51	25	80
24	.00	.00	23	34	47	57	64	323	8.8	80	24	79
25	.00	.00	23	34	47	58	64	289	8.8	74	19	79
26	.00	.00	24	34	48	58	64	270	8.8	74	11	79
27	.00	.00	24	35	48	59	64	268	8.8	76	11	78
28	.00	.00	24	35	48	59	64	268	8.5	71	11	78
29	.00	.00	25	36	48	60	64	266	8.5	76	10	77
30	.00	.00	25	36	---	60	64	264	8.8	79	9.1	77
31	.00	---	25	37	---	61	---	259	---	67	8.0	---
TOTAL	314.19	.00	404.20	950	1258	1679	1883	9644	1968.9	1130.4	473.11	1639.6
MEAN	10.1	.00	13.0	30.6	43.4	54.2	62.8	311	65.6	36.5	15.3	54.7
MAX	39	.00	25	37	48	61	64	740	231	80	50	83
MIN	.00	.00	.00	25	37	49	61	64	8.5	9.4	.23	4.3
ACFT	623	.00	802	1880	2500	3330	3730	19130	3910	2240	938	3250

CAL YR 1983	TOTAL	18261.46	MEAN	50.0	MAX	600	MIN	.00	ACFT	36220
WTR YR 1984	TOTAL	21344.40	MEAN	58.3	MAX	740	MIN	.00	ACFT	42340

NOTE.--No gage height record Dec. 5 to Feb. 14.

10016900 BEAR RIVER AT EVANSTON, WY

LOCATION.--Lat 41°16'13", long 110°57'47", in NE1/4NW1/4NW1/4 sec.21, T.15 N., R.120 W., Uinta County, Hydrologic Unit 16010101, on left bank 100 ft downstream from bridge on State Highway 89, in the City of Evanston, WY.

DRAINAGE AREA.--433 mi^2.

PERIOD OF RECORD.--May to September 1984.

GAGE.--Water-stage recorder. Altitude of gage is 6,730 ft, from topographic map.

REMARKS.--Records good.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,680 ft^3/s May 16, gage height, 7.35 ft; minimum daily during period of operation, 82 ft^3/s Aug. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	2860	988	277	131
2								---	2190	882	253	124
3								---	2090	771	230	111
4								---	1880	695	202	106
5								---	1830	625	204	102
6								---	1660	559	203	134
7								---	1640	487	179	239
8								---	1460	420	125	172
9								---	1240	545	108	148
10								---	1100	650	85	132
11								---	1030	475	82	137
12								---	973	450	101	205
13								---	883	400	94	269
14								2400	947	350	93	243
15								2780	1140	310	110	224
16								3160	1190	270	147	222
17								2430	1150	240	127	217
18								2370	1220	180	112	200
19								2300	1290	149	229	188
20								2390	1250	134	433	185
21								2890	1320	145	304	329
22								2810	1300	207	228	369
23								2730	1230	245	211	296
24								2890	1190	273	228	323
25								2400	1140	291	222	341
26								1970	1170	294	246	360
27								2090	1100	358	192	344
28								2020	1000	305	166	313
29								2090	951	329	149	296
30								2250	951	401	138	300
31								2470	---	316	123	---
TOTAL								---	40375	12744	5601	6760
MEAN								---	1346	411	181	225
MAX								---	2860	988	433	369
MIN								---	883	134	82	102
ACFT								---	80080	25280	11110	13410

10019500 CHAPMAN CANAL AT STATE LINE, NEAR EVANSTON, WY

LOCATION.--Lat 41°24'24", long 111°02'26", in SE1/4 sec.36, T.17 N., R.121 W., Uinta County, Hydrologic Unit 16010101, on left bank at highway bridge, 6.5 mi downstream from headgates, and 10 mi of Evanston.

PERIOD OF RECORD.--April 1942 to current year (prior to October 1944, irrigation seasons only). Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder and flashboard control. Altitude of gage is 6,570 ft from river-profile map. Prior to Oct. 11, 1946, nonrecording gage, and Oct. 11, 1946 to Aug. 2, 1961, water-stage recorder at site 20 ft downstream at same datum.

REMARKS.--Records fair. Canal diverts water from Bear River in NW1/4 sec.36, T.16 N., R.121 W. Many diversions above station for irrigation in Wyoming. Flow at station is for storage in Neponset Reservoir, Utah, and irrigation in Saleratus basin, Utah.

AVERAGE DISCHARGE.--40 years (water years 1945-84), 19.4 ft^3/s, 14,060 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 143 ft^3/s June 24, 1970; no flow at times each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	.00	.00	.00	.00	.00	.00	7.7	26	26	4.2	2.9
2	9.9	.00	.00	.00	.00	.00	.00	7.4	26	24	6.4	2.8
3	9.9	.00	.00	.00	.00	.00	.00	7.7	25	21	2.3	1.8
4	9.5	.00	.00	.00	.00	.00	.00	7.1	26	17	3.4	1.6
5	9.5	.00	.00	.00	.00	.00	.00	6.7	20	14	2.6	.71
6	9.1	.00	.00	.00	.00	.00	.00	6.4	22	12	1.1	.71
7	9.1	.00	.00	.00	.00	.00	.00	6.4	16	10	.53	.91
8	9.1	.00	.00	.00	.00	.00	.00	6.1	12	5.8	.00	2.0
9	9.1	.00	.00	.00	.00	.00	.00	5.8	12	6.4	.00	1.6
10	11	.00	.00	.00	.00	.00	.00	5.8	6.7	12	.00	1.1
11	11	.00	.00	.00	.00	.00	.00	5.8	5.1	9.1	.00	1.1
12	10	.00	.00	.00	.00	.00	.00	9.5	2.4	11	.00	1.1
13	9.9	.00	.00	.00	.00	.00	.00	12	6.1	10	.00	1.3
14	9.5	.00	.00	.00	.00	.00	.00	11	6.1	9.5	9.2	1.3
15	9.5	.00	.00	.00	.00	.00	.00	11	5.1	8.8	11	1.3
16	9.5	.00	.00	.00	.00	.00	.00	12	9.1	8.7	13	1.1
17	9.5	.00	.00	.00	.00	.00	.00	14	11	24	11	1.1
18	9.1	.00	.00	.00	.00	.00	.00	14	12	35	5.4	1.1
19	7.9	.00	.00	.00	.00	.00	.00	14	14	34	9.9	.71
20	2.3	.00	.00	.00	.00	.00	.00	12	20	32	21	.53
21	2.0	.00	.00	.00	.00	.00	.00	16	18	32	20	8.8
22	1.3	.00	.00	.00	.00	.00	.00	53	18	36	6.1	11
23	1.1	.00	.00	.00	.00	.00	.00	55	19	41	7.7	11
24	.91	.00	.00	.00	.00	.00	.00	54	18	42	2.8	11
25	.91	.00	.00	.00	.00	.00	.00	.05	25	41	2.0	12
26	.91	.00	.00	.00	.00	.00	.00	37	31	34	2.3	13
27	.91	.00	.00	.00	.00	.00	.32	36	27	12	1.6	14
28	.53	.00	.00	.00	.00	.00	7.1	33	27	12	.08	12
29	.21	.00	.00	.00	.00	.00	6.7	29	25	12	.00	12
30	.00	.00	.00	.00	---	.00	6.7	25	22	16	.00	14
31	.00	---	.00	.00	---	.00	---	25	---	8.1	.00	---
TOTAL	192.68	.00	.00	.00	.00	.00	20.82	545.45	512.6	616.4	143.61	145.57
MEAN	6.22	.00	.00	.00	.00	.00	.69	17.6	17.1	19.9	4.63	4.85
MAX	11	.00	.00	.00	.00	.00	7.1	55	31	42	21	14
MIN	.00	.00	.00	.00	.00	.00	.00	.05	2.4	5.8	.00	.53
ACFT	382	.00	.00	.00	.00	.00	41	1080	1020	1220	285	289

CAL YR 1983	TOTAL	5519.17	MEAN	15.1	MAX	89	MIN	.00	ACFT	10950
WTR YR 1984	TOTAL	2177.13	MEAN	5.95	MAX	55	MIN	.00	ACFT	4320

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°26'04", long 111°01'01", in NW1/4NW1/4 sec.29, T.17 N., R.120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, on right bank 9.3 mi upstream from Woodruff Narrows Dam and 10 mi southeast of Woodruff.

DRAINAGE AREA.--752 mi^2.

PERIOD OF RECORD.--October 1961 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,455 ft from river-profile map.

REMARKS.--Records good except those for winter months, which are poor. Diversion for irrigation of about 43,500 acres above station.

AVERAGE DISCHARGE.--23 years, 256 ft^3/s, 185,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,150 ft^3/s June 2, 1983, gage height, 6.17 ft; minimum, 0.1 ft^3/s Aug. 24, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,570 ft^3/s May 16, gage height, 5.96 ft; minimum, 86 ft^3/s Aug. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	260	183	188	184	120	140	270	539	2580	864	339	126
2	270	186	190	182	120	150	262	629	2670	774	300	141
3	285	183	188	187	110	140	262	749	2260	676	274	126
4	295	173	185	202	118	145	270	951	2230	612	242	116
5	285	163	186	190	121	150	278	924	2170	550	230	111
6	275	154	186	180	128	155	317	825	2180	491	230	132
7	255	157	185	170	132	152	339	768	2070	455	226	211
8	245	176	190	170	127	152	326	768	2010	381	175	200
9	245	169	190	164	120	155	376	978	1870	430	144	171
10	280	148	188	191	130	160	344	1380	1580	556	117	144
11	350	186	187	170	124	152	321	1650	1270	491	105	144
12	305	204	187	180	120	158	308	1890	1110	410	111	178
13	270	216	187	150	120	158	295	2120	964	353	119	250
14	260	224	190	120	130	152	292	2280	937	344	94	254
15	265	183	187	110	131	160	308	2640	1050	308	105	238
16	245	183	187	100	132	150	386	3120	1220	266	135	234
17	232	200	190	105	131	160	545	3180	1220	246	141	242
18	220	204	190	113	130	168	787	2640	1190	207	132	230
19	220	186	170	110	130	177	1150	2460	1270	171	178	207
20	208	180	160	110	128	190	1020	2450	1330	144	381	203
21	204	180	160	120	122	190	768	2620	1250	138	391	266
22	197	175	168	130	120	180	676	3020	1350	178	291	415
23	190	185	171	140	120	200	712	2760	1290	234	242	321
24	190	190	160	148	130	220	971	2720	1190	250	250	348
25	197	190	180	140	137	220	1260	2970	1150	282	258	367
26	190	185	176	132	140	190	937	2430	1140	291	266	386
27	186	185	168	130	140	200	712	2240	1020	362	238	381
28	183	186	160	128	140	220	623	2240	904	381	200	344
29	173	186	174	132	140	240	534	2240	851	372	182	321
30	169	186	185	140	---	260	496	2240	799	465	158	308
31	169	---	200	130	---	265	---	2250	---	400	144	---
TOTAL	7318	5506	5613	4558	3691	5509	16145	60671	44125	12082	6398	7115
MEAN	236	184	181	147	127	178	538	1957	1471	390	206	237
MAX	350	224	200	202	140	265	1260	3180	2670	864	391	415
MIN	169	148	160	100	110	140	262	539	799	138	94	111
ACFT	14520	10920	11130	9040	7320	10930	32020	120300	87520	23960	12690	14110

CAL YR 1983	TOTAL	186700	MEAN	512	MAX	3900	MIN	70	ACFT	370300
WTR YR 1984	TOTAL	178731	MEAN	488	MAX	3180	MIN	94	ACFT	354500

10020200 WOODRUFF NARROWS RESERVOIR NEAR WOODRUFF, UT

LOCATION.--Lat 41°30'10", long 111°00'55", in SE1/4NW1/4NW1/4 sec.32, T.18 N., R.120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, in gate house at Woodruff Narrows Dam on Bear River, 5.6 mi upstream from Wyoming-Utah State line, and 7.7 mi east of Woodruff.

DRAINAGE AREA.--784 mi^2.

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

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

GAGE.--Water-stage recorder. Datum of gage is 6,405 ft from levels by Bureau of Reclamation.

REMARKS.--Records good except those of no gage height record, Nov. 22 to Mar. 25, which are poor. Reservoir formed by earthfill, rock-faced dam. Storage began Jan. 5, 1962. Total capacity, 28,000 acre-ft below spillway crest. Total capacity increased to 57,300 in 1980. Gage height of spillway is 50.4 ft. Figures given herein represent total contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 64,310 acre-ft June 2, gage height, 53.5 ft; minimum observed, 880 acre-ft Sept. 15-25, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 62,280 acre-ft May 17, 22, 23, 25, gage height, 52.6 ft; minimum observed, 44,100 acre-ft July 30.

Capacity table (gage height, in feet, and total contents, in acre-feet)

44	43,720	50	56,400
45	45,660	52	60,920
46	47,620	53	63,180
48	51,920		

RESERVOIR STORAGE (ACRE-FT), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58880	51920	---	---	---	---	51270	49980	61600	55720	45080	---
2	58880	51700	---	---	---	---	50410	49980	61820	55040	45270	---
3	58880	51270	---	---	---	---	49770	50410	61140	54360	45660	---
4	58880	50410	---	---	---	---	49120	51060	60920	53250	45850	---
5	59110	50410	---	---	---	---	48480	51700	60690	52360	46050	---
6	59110	49770	---	---	---	57980	48050	52140	60470	51060	46050	48480
7	59110	49550	---	---	---	---	47620	52360	60240	49980	46250	48690
8	58880	---	---	---	---	---	47230	52800	60240	48480	46250	48690
9	58880	---	---	---	---	---	46840	53470	60010	47420	46250	48910
10	59110	---	---	---	---	---	46440	54810	59560	46440	46250	48910
11	59110	---	---	---	---	---	46050	56170	59110	45460	46250	48910
12	59110	---	---	---	---	---	45660	57300	58660	---	46250	48910
13	58430	---	---	---	56400	---	45660	58430	58200	---	46250	49120
14	58430	---	---	---	---	---	45660	59560	57980	---	46250	49340
15	58200	46840	---	---	---	---	45660	60920	57750	---	---	49550
16	57300	46440	---	---	---	---	45660	61820	57980	---	---	49770
17	57070	46250	---	---	---	---	45660	62280	57980	---	---	49980
18	56850	46050	---	---	---	---	45660	61600	57980	---	---	50200
19	56400	45850	48910	---	---	---	45660	61370	58200	---	---	50200
20	56170	45850	---	---	---	---	45660	61370	58200	---	---	50410
21	55720	45660	---	---	---	---	46840	61600	58200	---	---	50840
22	55490	---	---	---	---	---	46840	62280	58430	---	---	51700
23	55040	---	---	---	---	---	47030	62280	58430	---	---	52140
24	55040	---	---	54130	---	---	47420	62050	58200	---	---	52580
25	54360	---	---	---	---	56170	49120	62280	58200	---	---	53030
26	53910	---	---	---	---	55490	49980	61600	57980	---	---	53470
27	53690	---	---	---	---	54810	50200	61140	57750	---	---	54130
28	53250	---	---	---	---	54130	50200	60920	57070	---	---	54590
29	52800	---	---	---	a57530	53470	50200	60690	56620	---	---	54810
30	52360	a46640	---	---	---	52580	49980	60690	55940	44100	---	55260
31	52360	---	a50630	a55040	---	51920	---	61140	---	44690	a47840	---
MAX	59110	---	---	---	---	---	51270	62280	61820	---	---	---
MIN	52360	---	---	---	---	---	45660	49980	55940	---	---	---
(#)	48.2	---	---	---	---	48.0	47.1	52.1	49.8	44.5	---	49.5
(*)	-6520	-5720	+3990	+4410	+2490	-5610	-1940	+11160	-5200	-11250	+3150	+7420

CAL YR 1983 . . . . . (*) +14630
WTR YR 1984 . . . . . (*) -3620

(#) GAGE HEIGHT, IN FEET, AT END OF MONTH.
(*) CHANGE IN CONTENTS, IN ACRE-FEET.
(a) NO GAGE READING, CONTENTS INTERPOLATED.

10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°30'20", long 111°00'50", in NW1/4NW1/4 sec.32, T.18 N., R.120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, on right bank 1,100 ft downstream from Woodruff Narrows Dam, 1.6 mi upstream from Salt Creek, 5.4 mi upstream from Wyoming-Utah State line, and 7.7 mi east of Woodruff.

DRAINAGE AREA.--784 mi^2.

PERIOD OF RECORD.--October 1961 to current year.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6,398.96 ft NGVD of 1929 (levels by Utah Water Resources Division from Bureau of Reclamation bench mark). Prior to Sept. 26, 1962, at site 175 ft upstream at same datum.

REMARKS.--Records good. Flow regulated by Woodruff Narrows Reservoir (station 10020200) beginning January 1962. Diversions for irrigation of about 43,500 acres above station.

AVERAGE DISCHARGE.--23 years, 249 ft^3/s, 180,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,820 ft^3/s June 2, 1983, gage height, 8.26 ft; no flow July 4, 5, 1962, Aug. 30, 31, Sept. 1, 2, 6, 7, 1979, Oct. 30, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,590 ft^3/s May 17, gage height, 8.11 ft; minimum daily, 94 ft^3/s Nov. 23-25, Dec. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	214	359	94	100	102	157	608	610	2420	1080	121	128
2	241	358	94	100	102	159	607	609	2770	1080	121	128
3	252	357	95	100	102	163	604	610	2570	1070	122	127
4	257	357	95	101	103	166	603	612	2320	1070	122	127
5	264	357	96	100	103	166	601	614	2140	1070	123	127
6	264	356	96	100	103	166	600	614	2020	1070	123	127
7	253	355	96	101	103	165	599	615	1920	1060	123	127
8	244	355	96	101	103	166	598	618	1850	1050	123	127
9	240	355	97	101	102	176	597	619	1760	1040	123	127
10	267	353	96	101	102	189	595	620	1590	1020	123	125
11	285	352	96	101	102	206	595	816	1410	1010	123	126
12	425	351	96	102	102	219	593	1060	1280	1000	124	126
13	515	351	97	102	102	222	591	1090	1200	992	124	126
14	426	350	97	101	102	241	590	1450	1200	670	123	125
15	381	350	97	102	103	249	589	2060	1100	454	123	126
16	366	349	98	103	103	265	588	2750	1200	451	124	127
17	365	347	98	103	103	268	588	3390	1300	450	124	127
18	365	347	98	103	103	271	592	3190	1400	333	124	127
19	363	349	98	103	105	270	596	2840	1400	120	124	128
20	362	346	98	103	106	271	598	2670	1400	120	124	128
21	363	261	98	103	106	282	602	2680	1500	120	125	128
22	361	95	98	103	105	493	602	3010	1500	120	125	128
23	362	94	98	102	106	654	602	3140	1400	120	126	129
24	360	94	98	103	106	625	605	3030	1400	120	125	130
25	360	94	98	102	113	624	608	3160	1300	120	127	130
26	358	95	98	103	136	621	613	3010	1200	120	127	130
27	359	95	98	103	150	619	613	2460	1100	119	127	132
28	358	95	99	103	152	617	612	2260	1100	120	127	132
29	358	95	99	104	154	614	613	2160	1080	120	127	133
30	358	95	99	102	---	613	608	2110	1080	120	127	134
31	361	---	100	102	---	610	---	2200	---	121	127	---
TOTAL	10307	8167	3011	3158	3184	10527	18010	56677	46910	17530	3851	3842
MEAN	332	272	97.1	102	110	340	600	1828	1564	565	124	128
MAX	515	359	100	104	154	654	613	3390	2770	1080	127	134
MIN	214	94	94	100	102	157	588	609	1080	119	121	125
ACFT	20440	16200	5970	6260	6320	20880	35720	112400	93050	34770	7640	7620

CAL YR 1983	TOTAL	175800	MEAN	482	MAX	3630	MIN	12	ACFT	348700
WTR YR 1984	TOTAL	185174	MEAN	506	MAX	3390	MIN	94	ACFT	367300

10020900 WOODRUFF CREEK BELOW RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°28'06", long 111°18'50", in NE1/4SE1/4SW1/4 sec.31, T.9 N., R.6 E., Rich County, Hydrologic Unit 16010101, on left bank 0.2 mi downstream from Woodruff Creek Dam, 4.8 mi upstream from Birch Creek, and 8.5 mi southwest of Woodruff.

DRAINAGE AREA.--50.0 mi^2.

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

REVISED RECORDS.--WRD UT-74-1: Drainage area. WRD UT-72-1: 1971. WDR UT-82-1: 1971 (M).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,770 ft from topographic map.

REMARKS.--Records good. Flow regulated by Woodruff Creek reservoir, total capacity, 4,100 acre-ft since Nov. 2, 1970.

AVERAGE DISCHARGE.--14 years, 29.6 ft^3/s, 21,440 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 783 ft^3/s May 29, 1983, gage height, 4.09 ft; no flow during winter months each year except 1972, 1973, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 590 ft^3/s May 16, gage height, 3.64 ft; minimum daily, 0.20 ft^3/s Sept. 8-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	12	14	8.0	8.5	7.5	15	41	460	76	14	11
2	21	11	13	7.7	7.5	7.5	15	43	278	76	14	11
3	19	11	14	9.0	8.5	8.0	13	45	232	75	14	11
4	16	11	14	10	8.0	6.8	14	45	190	74	14	10
5	15	11	11	11	8.0	9.1	15	67	175	74	13	10
6	14	12	13	9.7	8.5	8.5	18	86	164	72	13	10
7	14	13	14	9.3	9.1	8.0	20	85	147	72	13	4.2
8	15	13	14	9.0	9.1	8.0	23	85	137	71	13	.20
9	15	9.1	14	10	9.1	9.6	25	85	128	71	13	.20
10	20	11	14	9.6	9.6	9.6	24	85	124	68	12	.20
11	16	12	13	12	8.5	9.6	22	85	115	67	12	.20
12	15	11	14	10	8.0	9.6	23	92	112	66	12	.20
13	15	13	14	8.0	9.1	9.6	22	313	112	64	12	.20
14	15	11	14	8.3	9.6	13	20	416	126	63	12	.20
15	15	9.5	14	8.5	7.5	11	21	491	132	61	11	.20
16	14	10	13	7.6	9.6	11	32	515	124	61	11	.20
17	14	12	13	7.9	9.1	11	49	322	112	60	11	.20
18	13	12	11	6.0	8.0	11	65	267	104	58	11	.20
19	13	10	15	6.4	6.2	9.6	68	295	97	57	11	.20
20	12	12	11	6.7	8.0	11	55	381	91	56	11	.20
21	12	12	12	6.9	8.5	15	46	543	85	55	11	.20
22	12	8.0	14	7.2	8.5	14	43	409	78	54	11	.20
23	12	12	12	7.5	6.8	13	50	412	72	53	11	.20
24	12	12	9.4	7.8	8.0	15	60	543	68	43	11	.20
25	11	14	9.7	8.0	8.0	15	63	398	66	36	11	.20
26	11	12	11	8.5	7.5	15	57	307	63	36	11	.20
27	11	10	12	7.5	6.2	15	52	332	61	36	11	.20
28	11	13	8.1	8.0	7.5	15	46	298	57	35	11	.20
29	11	13	10	7.5	7.5	15	44	292	63	35	11	.20
30	11	11	12	6.2	---	15	42	332	76	34	11	.20
31	13	---	11	8.0	---	14	---	419	---	22	11	---
TOTAL	433	343.6	388.2	257.8	238.0	350.0	1062	8129	3849	1781	368	71.80
MEAN	14.0	11.5	12.5	8.32	8.21	11.3	35.4	262	128	57.5	11.9	2.39
MAX	21	14	15	12	9.6	15	68	543	460	76	14	11
MIN	11	8.0	8.1	6.0	6.2	6.8	13	41	57	22	11	.20
ACFT	859	682	770	511	472	694	2110	16120	7630	3530	730	142

CAL YR 1983	TOTAL	18311.64	MEAN	50.2	MAX	694	MIN	.20	ACFT	36320
WTR YR 1984	TOTAL	17271.40	MEAN	47.2	MAX	543	MIN	.20	ACFT	34260

10026500 BEAR RIVER NEAR RANDOLPH, UT

LOCATION.--Lat 41°48'02", long 111°04'20", in SE1/4NE1/4 sec.7, T.12 N., R.8 E., Rich County, Hydrologic Unit 16010101, on left bank 3.7 mi upstream from Twin Creek, 5.0 mi upstream from Utah-Wyoming State line, and 11 mi northeast of Randolph.

DRAINAGE AREA.--1,616 mi^2.

PERIOD OF RECORD.--October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft from river-profile map. Prior to Aug. 17, 1971, 0.2 mi upstream at different datum.

REMARKS.--Records fair. Diversion for irrigation of about 94,500 acres above station. Flow regulated by upstream reservoirs.

AVERAGE DISCHARGE.--41 years, 213 ft^3/s, 154,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,630 ft^3/s June 4, 1983, gage height, 8.58 ft; minimum, 1.6 ft^3/s Nov. 12, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,050 ft^3/s May 26, gage height, 8.30 ft; minimum daily, 120 ft^3/s Jan. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	297	439	180	145	150	165	801	840	2030	843	274	209
2	319	438	170	145	150	165	813	850	1980	850	278	208
3	334	435	170	140	155	170	839	820	2040	848	280	207
4	344	435	160	140	155	175	877	760	2270	854	277	207
5	338	435	150	150	160	180	899	740	2390	883	275	203
6	336	435	155	150	160	180	941	750	2320	876	273	204
7	336	438	160	145	155	170	968	760	2250	861	266	201
8	335	450	160	145	155	170	1000	791	2180	875	260	197
9	335	445	155	145	160	175	1040	814	2110	870	253	194
10	368	442	150	145	160	180	1050	843	2000	927	246	192
11	365	448	150	145	155	180	1060	846	1910	983	239	199
12	371	453	150	140	155	170	1050	874	1800	1090	238	215
13	389	463	150	140	160	180	1040	977	1680	1090	234	220
14	515	466	150	140	160	190	1030	1120	1520	1080	231	227
15	525	460	155	135	155	190	1080	1210	1340	1090	227	218
16	485	459	155	130	160	200	1120	1290	1160	969	232	215
17	455	463	155	130	160	210	1170	1440	1040	724	236	212
18	443	463	150	125	160	220	1170	1760	1000	602	235	209
19	435	462	145	120	155	230	1100	2320	995	593	237	205
20	429	463	145	125	155	240	1040	2550	993	438	252	202
21	431	450	140	130	160	260	980	2540	969	374	259	210
22	433	400	130	130	165	300	1000	2530	958	474	246	223
23	434	300	130	140	160	320	950	2600	959	425	244	235
24	440	260	130	145	160	330	900	2720	967	403	236	237
25	438	290	125	150	160	350	830	2780	1020	362	232	243
26	435	250	130	155	165	470	760	2840	999	336	236	240
27	436	220	135	165	170	763	720	2860	923	313	233	235
28	435	210	135	165	170	846	710	2790	892	298	227	231
29	436	200	130	160	170	825	740	2580	865	292	213	224
30	435	190	135	155	---	800	790	2380	842	285	213	220
31	435	---	140	150	---	799	---	2160	---	277	211	---
TOTAL	12542	11762	4575	4425	4615	9803	28468	51135	44402	21185	7593	6442
MEAN	405	392	148	143	159	316	949	1650	1480	683	245	215
MAX	525	466	180	165	170	846	1170	2860	2390	1090	280	243
MIN	297	190	125	120	150	165	710	740	842	277	211	192
ACFT	24880	23330	9070	8780	9150	19440	56470	101400	88070	42020	15060	12780

CAL YR 1983	TOTAL	204676	MEAN	561	MAX	3500	MIN	100	ACFT	406000
WTR YR 1984	TOTAL	206947	MEAN	565	MAX	2860	MIN	120	ACFT	410500

10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY

LOCATION.--Lat 41°56'20", long 110°59'05", in SE1/4SE1/4 sec.25, T.23 N., R.120 W., Lincoln County, Hydrologic Unit 16010102, 800 ft downstream from Pixley Dam, 11 mi south of Cokeville, and 17.5 mi downstream from Twin Creek.

DRAINAGE AREA.--2,032 mi^2.

PERIOD OF RECORD.--October 1941 to November 1943 (published as Bear River near Cokeville), October 1952 to September 1956, May 1958 to current year (irrigation seasons only). Monthly discharge only for some periods, published in WSP 1314.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,185 ft from river-profile map. Oct. 31, 1941 to Nov. 30, 1943, at site 200 ft downstream at different datum.

REMARKS.--Records 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 ft^3/s Mar. 25, 1956; minimum recorded, 0.24 ft^3/s Apr. 26, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,580 ft^3/s May 27, 28; minimum recorded, 228 ft^3/s Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								918	1400	796	338	246
2								932	1350	784	344	242
3								961	1330	786	361	242
4								999	1340	784	334	240
5								1000	1390	764	326	237
6								977	1450	772	320	246
7								937	1470	767	312	244
8								908	1450	762	303	240
9								922	1420	772	299	235
10								949	1400	774	290	228
11								977	1370	786	284	235
12								994	1330	813	278	260
13								968	1300	852	280	264
14								1030	1270	980	273	262
15								1080	1220	980	269	256
16								1110	1170	980	271	251
17								1130	1100	850	299	249
18								1160	1020	700	282	246
19								1220	953	600	280	242
20								1400	925	550	293	239
21								1520	906	450	312	244
22								1530	885	520	297	256
23								1530	838	535	290	275
24								1540	754	503	290	286
25								1540	756	468	288	293
26								1560	779	423	291	295
27								1580	794	403	284	288
28								1580	806	382	275	266
29								1560	794	369	262	266
30								1520	808	359	256	242
31								1460	---	365	249	---
TOTAL								37492	33778	20629	9130	7615
MEAN								1209	1126	665	295	254
MAX								1580	1470	980	361	295
MIN								908	754	359	249	228
ACFT								74370	67000	40920	18110	15100

10032000 SMITHS FORK NEAR BORDER, WY

LOCATION.--Lat 42°17'16", long 110°52'14", in NW1/4 sec.33, T.27 N., R.118 W., Lincoln County, Hydrologic Unit 16010102, on left bank 4.5 mi upstream from Howland Creek, 6 mi downstream from Hobble Creek, and 12 mi northeast of Border.

DRAINAGE AREA.--165 mi^2.

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

REVISED RECORDS.--WSP 1734: 1952(M).

GAGE.--Water-stage recorder. Altitude of gage is 6,680 ft from topographic map. Prior to Oct. 16, 1945, at site 0.8 mi downstream at different datum.

REMARKS.--Records poor. One diversion for irrigation of about 200 acres above station.

AVERAGE DISCHARGE.--42 years, 200 ft^3/s, 144,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,870 ft^3/s May 29, 1983, gage height, 5.45 ft; minimum, 21 ft^3/s Mar. 29, 1975, Jan. 24, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,820 ft^3/s May 16, gage height, 5.52 ft; minimum, 64 ft^3/s Feb. 27, Mar. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	116	90	82	73	88	87	167	1600	704	297	165
2	150	114	88	80	75	84	87	174	1390	669	293	164
3	151	114	88	84	72	84	83	185	1250	640	286	158
4	140	113	88	92	76	82	84	189	1140	620	273	148
5	136	115	89	100	76	81	88	201	1110	600	267	142
6	134	116	90	88	73	87	91	197	1050	579	265	155
7	131	118	90	80	77	86	91	194	1020	558	245	165
8	130	119	86	80	73	82	91	214	956	544	226	165
9	131	108	84	84	72	84	95	270	890	533	219	158
10	143	114	84	80	73	83	93	339	840	526	212	142
11	134	114	85	80	80	84	93	387	823	506	206	143
12	130	113	86	80	90	84	89	535	783	486	212	179
13	128	115	86	78	100	83	92	818	755	470	203	173
14	134	113	86	76	95	85	89	1080	761	458	198	160
15	132	105	84	70	90	84	96	1370	804	437	198	153
16	128	109	80	70	90	86	109	1530	872	422	212	147
17	127	113	79	70	96	82	136	1130	919	406	222	138
18	125	111	78	70	90	85	179	1030	935	384	203	132
19	123	109	78	70	85	82	210	1060	923	368	204	133
20	122	109	78	70	84	86	206	1210	913	362	280	137
21	120	106	74	76	82	85	179	1330	907	372	248	130
22	120	100	70	82	80	86	173	1160	888	407	232	160
23	120	104	69	88	84	83	177	1150	859	407	233	150
24	124	105	68	94	80	84	179	1450	830	370	229	180
25	119	109	68	98	82	86	182	1340	805	352	218	170
26	119	104	70	90	86	87	175	1230	790	369	223	155
27	117	107	71	84	83	81	165	1110	779	344	208	145
28	116	105	70	80	89	82	163	1080	762	335	195	140
29	116	106	68	78	94	86	167	1110	738	334	183	140
30	114	94	72	70	---	85	161	1220	722	323	172	135
31	116	---	86	71	---	86	---	1470	---	308	166	---
TOTAL	3970	3298	2483	2495	2400	2613	3910	25930	27814	14193	7028	4562
MEAN	128	110	80.1	80.5	82.8	84.3	130	836	927	458	227	152
MAX	151	119	90	100	100	88	210	1530	1600	704	297	180
MIN	114	94	68	70	72	81	83	167	722	308	166	130
ACFT	7870	6540	4930	4950	4760	5180	7760	51430	55170	28150	13940	9050

CAL YR 1983	TOTAL	103627	MEAN	284	MAX	1800	MIN	58	ACFT	205500
WTR YR 1984	TOTAL	100696	MEAN	275	MAX	1600	MIN	68	ACFT	199700

10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY

LOCATION.--Lat 42°07'36", long 110°58'21", in SE1/4NE1/4 sec.28, T.25 N., R.119 W., Lincoln County, Hydrologic Unit 16010102, on left bank 1.1 mi upstream from Wyman Dam, 2.8 mi northwest of Cokeville, and 3.8 mi downstream from Smiths Fork.

DRAINAGE AREA.--2,447 mi^2.

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

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

GAGE.--Water-stage recorder. Altitude of gage is 6,140 ft from river-profile map.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by diversion for irrigation, return flow from irrigated areas, and regulation by upstream reservoirs.

AVERAGE DISCHARGE.--30 years, 469 ft^3/s, 339,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,620 ft^3/s June 7, 1983, gage height, 8.75 ft; minimum, 31 ft^3/s Oct. 4, 5, 6, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,630 ft^3/s May 25, gage height, 8.09 ft; minimum daily, 300 ft^3/s Jan. 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	566	690	390	340	360	384	1330	1370	4540	1700	632	472
2	588	690	386	340	370	399	1260	1390	4360	1640	615	463
3	644	690	375	340	370	402	1230	1440	4060	1550	644	459
4	638	684	370	350	380	407	1260	1490	3900	1590	621	461
5	638	684	370	360	380	432	1290	1550	3810	1520	604	460
6	621	684	380	350	380	395	1360	1520	3780	1510	594	477
7	621	678	392	350	370	393	1430	1450	3850	1490	573	467
8	615	690	381	350	380	408	1510	1410	3850	1450	554	459
9	621	678	370	350	370	412	1610	1480	3780	1450	544	451
10	655	678	370	350	380	427	1650	1640	3660	1450	538	439
11	706	690	370	350	380	406	1660	1770	3590	1440	531	456
12	691	690	370	340	370	407	1660	1900	3400	1410	529	527
13	681	708	370	340	380	437	1650	2170	3250	1460	523	528
14	707	720	370	330	370	449	1640	2470	3140	1540	523	496
15	824	702	370	320	380	462	1610	2700	3030	1610	515	491
16	844	690	370	310	380	483	1600	3090	3000	1580	522	474
17	802	702	370	310	380	494	1640	3030	2940	1530	545	462
18	770	714	370	300	380	513	1720	2840	2830	1260	538	451
19	744	702	370	300	370	533	1810	2820	2690	1050	545	443
20	732	708	350	310	370	539	1880	2930	2540	963	596	436
21	726	702	330	320	380	560	1850	3250	2410	850	586	458
22	714	655	330	330	381	589	1770	3660	2290	909	572	474
23	702	437	320	340	370	609	1700	3870	2190	956	556	496
24	720	442	310	350	375	641	1660	4110	1970	896	559	571
25	720	544	310	370	379	737	1680	4570	1840	812	552	555
26	708	437	320	390	381	826	1650	4450	1780	774	547	551
27	702	442	330	390	401	849	1570	4420	1760	720	536	540
28	702	452	320	380	384	898	1480	4450	1750	708	521	517
29	696	428	320	380	400	1060	1420	4440	1710	678	506	492
30	684	428	340	370	---	1300	1370	4440	1710	667	484	480
31	690	---	350	360	---	1510	---	4480	---	655	477	---
TOTAL	21472	18839	11044	10670	10951	18361	46950	86600	89410	37818	17182	14506
MEAN	693	628	356	344	378	592	1565	2794	2980	1220	554	484
MAX	844	720	392	390	401	1510	1880	4570	4540	1700	644	571
MIN	566	428	310	300	360	384	1230	1370	1710	655	477	436
ACFT	42590	37370	21910	21160	21720	36420	93130	171800	177300	75010	34080	28770

CAL YR 1983	TOTAL	369988	MEAN	1014	MAX	5400	MIN	250	ACFT	733900
WTR YR 1984	TOTAL	383803	MEAN	1049	MAX	4570	MIN	300	ACFT	761300

10039500 BEAR RIVER AT BORDER, WY

LOCATION.--Lat 42°12'40", long 111°03'11", in NE1/4NE1/4NE1/4 sec.15, T.14 S., R.46 E., Bear Lake County, Idaho, Hydrologic Unit 16010102, on left bank 0.2 mi west of Wyoming-Idaho State line, 0.5 mi west of Border, and 2.1 mi upstream from Thomas Fork.

DRAINAGE AREA.--2,486 mi^2.

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 6,051.63 ft NGVD of 1929, unadjusted.

REMARKS.--Records fair. Natural flow of stream affected by regulation of upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--47 years, 448 ft^3/s, 324,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,880 ft^3/s June 7, 1983, gage height, 9.69 ft; minimum, 24 ft^3/s Apr. 29, 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,430 ft^3/s May 31, gage height, 9.51 ft; minimum daily, 310 ft^3/s Jan. 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	584	687	400	350	370	400	1290	1380	4390	1640	684	477
2	596	684	400	350	380	410	1220	1400	4340	1590	661	466
3	644	684	390	350	380	420	1190	1440	4150	1530	667	455
4	641	684	380	360	390	430	1190	1490	3980	1520	661	455
5	635	680	380	370	390	440	1210	1530	3910	1490	638	455
6	622	680	390	360	390	410	1260	1540	3880	1460	622	474
7	609	687	400	360	380	400	1330	1490	3910	1450	600	470
8	600	707	390	360	390	420	1420	1440	3950	1410	581	462
9	600	694	380	360	380	420	1480	1460	3890	1400	566	448
10	625	697	380	360	390	440	1510	1570	3820	1410	556	434
11	667	704	380	360	390	420	1520	1690	3740	1390	547	437
12	667	714	380	350	380	430	1520	1800	3600	1380	544	515
13	651	748	380	350	390	450	1520	1950	3470	1400	535	532
14	657	745	380	340	380	460	1520	2290	3360	1450	529	500
15	748	728	380	330	390	480	1510	2770	3260	1510	526	492
16	794	711	380	320	390	490	1510	3100	3200	1500	526	462
17	762	721	380	320	390	510	1550	3350	3140	1470	541	452
18	738	738	380	310	390	540	1660	3260	3040	1300	550	437
19	717	731	380	310	380	560	1770	3200	2900	1120	541	423
20	711	734	360	320	380	570	1840	3210	2720	1050	600	416
21	700	734	340	330	390	590	1820	3320	2500	969	584	441
22	690	690	340	340	390	620	1750	3620	2350	1000	578	466
23	687	500	330	350	380	640	1690	3860	2200	1070	559	496
24	697	500	320	370	390	680	1650	4000	2030	984	566	572
25	704	600	320	390	390	760	1640	4230	1850	900	556	572
26	700	500	330	400	390	870	1620	4260	1750	863	553	559
27	694	526	340	400	410	880	1570	4230	1740	801	544	547
28	694	572	330	390	400	920	1480	4260	1710	790	529	535
29	687	562	340	390	410	1000	1430	4300	1660	755	515	506
30	684	450	350	380	---	1100	1400	4300	1640	731	492	496
31	687	---	360	370	---	1370	---	4360	---	707	489	---
TOTAL	20892	19792	11370	11000	11250	18530	45070	86100	92080	38040	17640	14452
MEAN	674	660	367	355	388	598	1502	2777	3069	1227	569	482
MAX	794	748	400	400	410	1370	1840	4360	4390	1640	684	572
MIN	584	450	320	310	370	400	1190	1380	1640	707	489	416
ACFT	41440	39260	22550	21820	22310	36750	89400	170800	182600	75450	34990	28670

CAL YR 1983	TOTAL	380170	MEAN	1042	MAX	4840	MIN	270	ACFT	754100
WTR YR 1984	TOTAL	386216	MEAN	1055	MAX	4390	MIN	310	ACFT	766100

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.
WATER TEMPERATURES: October 1965 to September 1976, January 1978 to September 1981.

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 1983 TO SEPTEMBER 1984

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)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 25...	0820	704	--	--	4.5	9.0	--	--	--	--	--
NOV 10...	1000	697	510	8.0	-3.0	2.0	17	9.0	614	140	50
JAN 19...	1100	256	730	8.0	-15.0	0.0	4.0	7.9	615	75	22
MAR 06...	1100	244	650	8.1	2.0	0.0	4.7	7.7	613	250	140
MAY 24...	1030	3980	600	8.0	8.5	9.0	--	8.7	610	220	320
JUL 31...	1140	704	560	7.9	20.0	19.0	48	5.3	614	1200	500
SEP 27...	1130	547	520	7.8	9.5	8.5	35	--	615	25	75

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)
OCT 25...	230	4.6	55	22	18	15	0.5	0.8	200	43
NOV 10...	240	4.7	57	23	20	15	0.6	1.9	200	38
JAN 19...	320	6.3	76	31	31	17	0.8	2.0	270	67
MAR 06...	270	5.3	65	25	23	16	0.6	2.1	240	58
MAY 24...	280	5.6	60	31	30	19	0.8	3.9	230	53
JUL 31...	280	5.5	64	28	26	17	0.7	2.2	220	58
SEP 27...	240	4.8	55	25	27	19	0.8	2.2	200	72

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
OCT 25...	20	0.2	3.6	--	283	0.38	537	--	0.00	--
NOV 10...	22	0.2	4.2	291	286	0.4	548	--	<0.1	0.04
JAN 19...	36	0.2	9.6	406	412	0.55	281	--	0.24	0.08
MAR 06...	27	0.2	7.6	347	350	0.47	229	26	0.21	0.12
MAY 24...	35	0.2	9.2	357	358	0.49	4940	--	<0.1	0.05
JUL 31...	24	0.2	8.7	345	346	0.47	656	--	<0.1	0.16
SEP 27...	31	0.2	5.9	363	339	0.49	536	--	<0.1	<0.01

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
OCT 25...	--	--	--	--	--	0.00	--	--	--	--
NOV 10...	0.05	0.4	0.4	0.4	1.8	0.05	0.15	0.05	0.00	--
JAN 19...	0.1	0.2	0.2	0.2	0.89	0.04	0.12	0.04	0.01	0.03
MAR 06...	0.15	0.9	0.9	0.9	4.0	0.04	0.12	0.02	<0.01	0.03
MAY 24...	0.06	1.0	1.00	1.0	4.4	0.12	--	0.03	0.03	0.09
JUL 31...	0.21	0.8	0.8	0.8	3.5	0.60	--	0.44	<0.01	0.03
SEP 27...	0.01	0.5	0.5	0.5	2.2	0.12	--	0.03	0.02	0.06

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV 10...	1000	20	1	130	0.60	<1	<1	<3.00	2	20	11
MAR 06...	1100	10	<1	130	<0.50	1	<1	<3.00	7	20	5
MAY 24...	1000	20	1	140	<1.00	<1	<1	<3.00	3	30	4
JUL 31...	1140	20	<1	140	1.00	<1	<1	<3.00	5	30	5

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV 10...	20	7	<0.1	<10	2	2	<1	390	<6.0	10
MAR 06...	20	11	0.3	<10	1	<1	<1	430	<6.0	40
MAY 24...	30	12	0.8	<10	2	<1	<1	440	<6.0	40
JUL 31...	30	4	<0.1	<10	3	<1	<1	490	<6.0	10

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
SEP 27...	1130	547	8.5	95	512	756

10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE

LOCATION.--Lat 42°24'10", long 111°01'30", in SE1/4NW1/4 sec.19, T.28 N., R.119 W., Lincoln County, Wyoming, Hydrologic Unit 16010102, on right bank 1.3 mi upstream from Wyoming-Idaho State line, 1.5 mi downstream from Giraffe Creek, and 3.5 mi northeast of Geneva, Idaho.

DRAINAGE AREA.--113 mi^2.

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,280 ft from topographic map. Prior to Aug. 23, 1957, at site 0.2 mi upstream at different datum.

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

AVERAGE DISCHARGE.--35 years, 57.5 ft^3/s, 41,660 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,860 ft^3/s May 15, 1984, gage height, 5.00 ft; minimum, 2.6 ft^3/s Mar. 2, 1956, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 150 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 19	1800	177	1.86
May 15	2200	*1,860	5.00

Minimum daily, 12 ft^3/s Jan. 16-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	28	23	25	19	16	32	152	373	119	59	37
2	47	28	26	23	17	18	32	176	332	115	58	36
3	43	28	27	24	18	19	33	200	329	111	57	34
4	37	27	27	27	18	17	37	212	303	108	54	33
5	34	29	25	29	17	16	36	226	329	105	53	34
6	32	29	25	25	17	19	41	212	313	102	52	38
7	32	32	24	26	19	19	42	215	300	99	49	35
8	32	32	27	24	17	20	45	257	294	98	47	35
9	33	28	27	25	17	21	48	333	267	96	46	34
10	41	28	27	24	17	21	47	411	262	96	46	32
11	34	30	26	26	18	22	44	473	262	92	45	35
12	32	30	25	22	18	21	43	620	240	90	45	52
13	31	30	24	20	20	25	43	879	229	89	43	35
14	33	30	27	17	18	23	46	1200	218	85	43	32
15	32	31	27	16	17	23	53	1450	211	82	44	32
16	31	33	27	12	19	22	72	1320	206	79	45	32
17	30	30	25	12	20	22	98	976	201	77	46	31
18	30	30	25	12	19	22	133	874	194	75	42	30
19	29	28	25	13	18	22	163	868	184	74	51	30
20	28	28	25	15	17	23	150	897	177	74	52	30
21	28	27	24	18	18	24	128	850	168	78	43	40
22	28	25	23	22	19	25	137	709	160	80	41	33
23	28	24	23	25	18	25	154	674	156	76	43	47
24	30	28	23	25	17	26	161	762	149	68	41	47
25	28	28	23	26	20	26	161	630	144	67	41	40
26	28	25	25	25	17	26	145	538	140	66	40	39
27	27	24	23	22	14	26	136	487	135	65	39	38
28	27	27	23	21	14	33	138	455	131	69	38	36
29	27	26	23	20	15	27	139	424	127	67	37	34
30	27	23	25	17	---	29	134	405	124	62	36	32
31	29	---	29	18	---	31	---	436	---	60	37	---
TOTAL	986	846	778	656	512	709	2671	18321	6658	2624	1413	1073
MEAN	31.8	28.2	25.1	21.2	17.7	22.9	89.0	591	222	84.6	45.6	35.8
MAX	47	33	29	29	20	33	163	1450	373	119	59	52
MIN	27	23	23	12	14	16	32	152	124	60	36	30
ACFT	1960	1680	1540	1300	1020	1410	5300	36340	13210	5200	2800	2130

CAL YR 1983	TOTAL	35349	MEAN	96.8	MAX	1010	MIN	13	ACFT	70110
WTR YR 1984	TOTAL	37247	MEAN	102	MAX	1450	MIN	12	ACFT	73880

10044000 BEAR RIVER AT HARER, ID

LOCATION.--Lat 42°11'50", long 111°10'05", in NW1/4NW1/4NW1/4 sec.23, T.14 S., R.45 E., Bear Lake County, Hydrologic Unit 16010102, on right bank 400 ft downstream from Sheep Creek, 0.8 mi north of Harer siding on Union Pacific (Oregon Short Line) Railroad, and 5 mi southeast of Dingle.

DRAINAGE AREA.--2,839 mi^2.

PERIOD OF RECORD.--June 1913 to current year. Monthly discharge only October 1916 to December 1918 published in WSP 1314.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,000 ft from topographic map. Prior to Aug. 24, 1914, staff gage at site 1,500 ft downstream at different datum.

REMARKS.--Records good except those for winter period, which are poor. 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.--71 years, 539 ft^3/s, 390,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,140 ft^3/s June 9, 1983; minimum daily, 26 ft^3/s Aug. 21-27, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4,820 ft^3/s May 26; minimum daily, 338 ft^3/s Jan. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	360	770	684	445	419	415	1160	1720	4550	1970	824	569
2	409	737	713	440	399	436	1210	1720	4540	1910	789	561
3	483	737	673	338	398	455	1250	1770	4520	1840	772	554
4	536	737	686	418	390	500	1300	1850	4370	1790	795	546
5	550	736	623	411	388	508	1340	1910	4300	1770	776	552
6	569	734	568	405	382	490	1390	1950	4250	1730	749	564
7	581	750	608	391	378	679	1430	1910	4240	1700	723	560
8	602	768	561	372	381	685	1470	1840	4240	1670	697	555
9	623	762	493	364	388	689	1510	1820	4220	1650	675	543
10	681	764	547	364	392	711	1550	1910	4200	1650	660	527
11	760	770	561	412	405	726	1580	2060	4160	1620	648	528
12	792	783	503	419	418	732	1630	2210	4090	1590	644	591
13	766	807	502	339	428	718	1680	2340	4010	1600	638	645
14	757	828	529	444	458	689	1730	2500	3950	1630	629	617
15	814	816	444	388	449	714	1790	2820	3890	1680	629	596
16	926	803	434	352	419	730	1840	3420	3840	1720	635	576
17	918	798	455	352	421	738	1880	3920	3800	1690	647	563
18	866	822	513	353	422	751	2010	4150	3760	1620	662	549
19	826	806	514	358	440	704	2220	4100	3710	1410	650	530
20	808	800	505	359	464	697	2330	4010	3620	1240	711	528
21	798	790	497	442	435	684	2360	4000	3480	1180	727	549
22	789	782	488	372	418	704	2290	4060	3290	1170	709	571
23	783	785	479	382	428	738	2200	4240	3080	1290	684	621
24	792	787	471	405	426	754	2120	4380	2820	1230	681	695
25	800	790	462	422	438	771	2090	4520	2470	1120	679	746
26	796	793	453	429	439	868	2070	4820	2240	1030	674	723
27	790	796	445	427	432	917	2020	4800	2140	972	667	700
28	786	808	437	435	418	970	1910	4710	2090	933	649	679
29	789	748	428	437	415	1020	1810	4650	2040	944	629	644
30	790	698	428	419	---	1070	1760	4580	1980	906	602	621
31	799	---	442	419	---	1110	---	4580	---	857	594	---
TOTAL	22339	23305	16146	12313	12088	22373	52930	99270	107890	45112	21248	17803
MEAN	721	777	521	397	417	722	1764	3202	3596	1455	685	593
MAX	926	828	713	445	464	1110	2360	4820	4550	1970	824	746
MIN	360	698	428	338	378	415	1160	1720	1980	857	594	527
ACFT	44310	46230	32030	24420	23980	44380	105000	196900	214000	89480	42150	35310

CAL YR 1983	TOTAL	442039	MEAN	1211	MAX	5140	MIN	287	ACFT	876800
WTR YR 1984	TOTAL	452817	MEAN	1237	MAX	4820	MIN	338	ACFT	898200

10046000 RAINBOW INLET CANAL NEAR DINGLE, ID

LOCATION.--Lat 42°13'48", long 111°17'43", in NW1/4SW1/4SE1/4 sec.3, T.14 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 1.5 mi west of Dingle and 1.8 mi downstream from headworks at Stewart Dam.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only prior to October 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Elevation of gage datum is 5,922.0 ft NGVD of 1929 (by topographic survey). Prior to Oct. 1, 1923, at site 300 ft downstream at different datum; Oct. 1, 1923 to Oct. 27, 1944, at site 0.5 mi downstream at different datum.

REMARKS.--Records good. Canal diverts from Bear River at Stewart Dam in NE1/4 sec.34, T.13 S., R.44 E., for storage in Bear Lake. At times flow in canal is augmented by surplus water from Black Otter Slough entering at the station and by seepage and surplus water from irrigation.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--62 years, 366 ft^3/s, 265,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,950 ft^3/s May 27 1984; no flow Apr. 28, 1977 and Oct. 1, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4,950 ft^3/s May 27; minimum daily, 271 ft^3/s Jan. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	651	784	460	351	326	336	1430	1720	4670	1550	769	543
2	672	755	417	354	323	357	1360	1710	4660	1530	746	529
3	698	750	384	350	318	377	1290	1740	4660	1540	724	525
4	730	748	359	369	311	422	1270	1780	4540	1560	713	521
5	719	747	403	370	309	425	1300	1830	4320	1540	695	516
6	711	747	402	364	303	406	1350	1860	4210	1530	689	523
7	695	748	444	349	306	411	1440	1860	4170	1520	667	527
8	663	765	472	332	308	410	1510	1830	4160	1510	643	522
9	655	762	453	326	314	397	1600	1800	4170	1500	619	517
10	662	754	430	324	326	425	1690	1850	4160	1490	601	503
11	689	756	465	331	338	455	1740	1960	4120	1490	591	499
12	732	760	521	338	350	506	1740	2090	3970	1490	575	518
13	734	770	455	359	379	608	1740	2220	3830	1500	554	568
14	723	778	459	362	367	463	1730	2340	3650	1500	538	595
15	731	781	435	306	339	486	1730	2500	3470	1500	536	564
16	803	774	405	271	333	506	1740	2720	3320	1500	549	555
17	842	765	370	272	344	523	1780	3200	3180	1500	570	538
18	826	781	345	273	344	537	1860	3840	3070	1480	579	521
19	798	808	370	279	362	587	1990	4040	3010	1370	608	501
20	780	808	374	279	386	620	2150	3930	2920	1210	637	483
21	769	817	397	285	355	622	2200	3900	2830	1150	672	491
22	758	780	398	296	336	688	2170	3850	2700	1120	667	497
23	748	718	394	305	348	712	2090	4040	2550	1140	658	535
24	749	706	405	329	356	735	2010	4480	2380	1140	637	601
25	752	690	373	348	358	756	1980	4710	2180	1050	643	645
26	753	657	395	354	362	818	1960	4920	1930	982	638	653
27	748	630	387	353	359	880	1940	4950	1730	938	625	636
28	738	537	351	364	342	864	1880	4830	1640	903	602	620
29	739	584	339	360	338	904	1790	4770	1620	893	584	590
30	740	484	335	347	---	1030	1730	4710	1580	830	572	556
31	744	---	337	345	---	1230	---	4690	---	803	540	---
TOTAL	22752	21944	12534	10245	9840	18496	52190	96670	99400	40759	19441	16392
MEAN	734	731	404	330	339	597	1740	3118	3313	1315	627	546
MAX	842	817	521	370	386	1230	2200	4950	4670	1560	769	653
MIN	651	484	335	271	303	336	1270	1710	1580	803	536	483
ACFT	45130	43530	24860	20320	19520	36690	103500	191700	197200	80850	38560	32510

CAL YR 1983	TOTAL	370490	MEAN	1015	MAX	4420	MIN	259	ACFT	734900
WTR YR 1984	TOTAL	420663	MEAN	1149	MAX	4950	MIN	271	ACFT	834400

10046500 BEAR RIVER BELOW STEWART DAM, NEAR MONTPELIER, ID

LOCATION.--Lat 42°15'14", long 111°17'35", in NW1/4NW1/4NE1/4 sec.34, T.13 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 300 ft downstream from Stewart Dam and 4.5 mi south of Montpelier.

DRAINAGE AREA.--2,853 mi^2.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only January to September 1922, published in WSP 1314.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,950 ft from topographic map.

REMARKS.--Records good. Water diverted at Stewart Dam through Rainbow Inlet Canal (station 10046000) for storage in Bear Lake.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--62 years, 45.1 ft^3/s, 32,670 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,050 ft^3/s June 3, 1923; no flow July 15, 1956, July 13, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 70 ft^3/s May 27; minimum daily, 1.5 ft^3/s Feb. 26-Mar. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	5.1	6.6	3.6	3.2	1.5	11	3.6	56	15	6.4	7.6
2	11	5.5	6.5	3.8	3.2	1.5	6.7	3.7	53	15	6.6	7.5
3	12	4.8	6.3	3.8	3.0	1.5	5.6	3.5	57	16	6.6	7.4
4	14	6.0	6.0	3.7	3.0	1.6	4.5	3.7	55	17	6.8	7.1
5	15	5.6	5.8	3.7	3.0	1.6	4.8	3.9	48	16	7.2	6.1
6	14	4.2	5.5	3.4	3.0	1.6	5.3	4.3	45	15	7.4	3.7
7	13	4.1	5.3	3.4	3.0	1.6	6.0	4.3	44	14	7.6	3.8
8	12	11	5.1	3.5	3.0	1.6	6.6	4.4	44	13	7.8	4.1
9	10	11	5.1	3.6	3.0	1.6	6.7	4.8	45	13	8.0	4.4
10	9.3	11	5.2	3.6	3.0	1.7	6.8	5.1	45	13	8.2	4.8
11	10	10	5.2	3.7	3.0	1.7	6.9	5.2	42	12	8.4	5.2
12	13	10	5.3	3.8	3.0	1.7	7.0	5.7	37	12	8.6	6.3
13	12	9.9	5.3	3.9	3.0	1.7	7.5	6.1	34	12	8.8	7.1
14	10	9.7	5.4	4.0	2.9	1.7	7.9	6.2	30	11	9.1	8.2
15	9.2	9.4	5.4	4.0	2.8	1.7	7.7	5.9	27	11	9.3	7.9
16	9.0	9.1	5.5	3.9	2.7	1.9	7.8	5.5	24	11	9.2	7.4
17	9.2	8.8	5.5	3.8	2.6	2.2	7.9	11	22	10	9.0	7.4
18	9.0	8.5	5.4	3.7	2.3	2.5	8.2	21	20	10	8.9	7.9
19	8.7	8.2	5.4	3.6	2.2	2.8	8.4	29	17	9.0	8.8	8.3
20	8.4	7.9	5.3	3.6	2.1	3.1	8.5	28	15	9.8	8.6	8.4
21	7.9	7.6	5.2	3.6	1.9	3.4	8.1	25	15	9.7	8.5	8.4
22	7.0	7.4	4.9	3.5	1.8	4.1	7.6	24	14	8.5	8.4	8.5
23	6.8	8.0	3.8	3.5	1.7	3.4	7.1	28	14	8.0	8.3	8.2
24	6.6	7.6	3.5	3.5	1.7	4.0	6.5	42	15	7.9	8.2	7.6
25	6.4	7.3	3.5	3.0	1.6	4.0	5.6	54	15	7.8	8.1	8.2
26	6.1	7.8	3.9	2.3	1.5	6.9	5.5	64	16	7.1	8.0	8.6
27	5.9	7.7	4.1	2.4	1.5	6.7	6.3	70	17	7.0	8.0	8.6
28	5.7	6.8	4.0	3.1	1.5	6.3	5.4	67	18	6.1	7.9	8.6
29	5.5	6.5	3.6	3.1	1.5	6.0	5.1	62	16	4.8	7.8	8.2
30	5.3	6.7	3.2	3.2	---	7.2	4.1	62	16	5.9	7.7	7.6
31	5.1	---	3.4	3.2	---	10	---	59	---	5.8	7.7	---
TOTAL	285.5	233.2	154.2	108.5	71.7	98.8	203.1	721.9	916	333.4	249.9	213.1
MEAN	9.21	7.77	4.97	3.50	2.47	3.19	6.77	23.3	30.5	10.8	8.06	7.10
MAX	15	11	6.6	4.0	3.2	10	11	70	57	17	9.3	8.6
MIN	5.1	4.1	3.2	2.3	1.5	1.5	4.1	3.5	14	4.8	6.4	3.7
ACFT	566	463	306	215	142	196	403	1430	1820	661	496	423

CAL YR 1983	TOTAL	44107.0	MEAN	121	MAX	1050	MIN	1.2	ACFT	87490
WTR YR 1984	TOTAL	3589.3	MEAN	9.81	MAX	70	MIN	1.5	ACFT	7120

10055500 BEAR LAKE AT LIFTON, NEAR ST. CHARLES, ID

LOCATION.--Lat 42°07'16", long 111°18'52", in NE1/4 sec.16, T.15 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, in Lifton pumping plant of Utah Power & Light Co., 3.5 mi east of St. Charles.

DRAINAGE AREA.--435 mi^2, approximately (does not include Mud Lake drainage).

PERIOD OF RECORD.--October 1903 to June 1906, elevations only, published as "at Fish Haven," January 1921 to current year. Monthly contents only January 1921 to September 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,900 ft Utah Power & Light Co. datum.

REMARKS.--Outflow regulated by gates and pumps at the north end of Bear Lake and by gates in dike at north end of Mud Lake, a shallow interconnected lake. Principal inflow to Bear Lake is from Bear River through Rainbow Inlet Canal (station 10046000) and Dingle Inlet Canals into Mud Lake, from which the inflow can enter into Bear Lake either through the pumping plant or an opening in the dividing causeway. The inflow can be routed directly into the Outlet Canal (station 10059500). Usable capacity of Bear Lake is 1,421,000 acre-ft between elevation 5,902.00 ft, lower limit of pumps, and 5,923.65 ft, upper limit of storage with existing facilities. Water is used for irrigation and power development. Figures herein given represent usable contents.

COOPERATION.--Records furnished by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,423,000 acre-ft June 10, 1923, elevation, 5,923.68 ft; no usable contents Nov. 9-19, 1935.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,398,000 acre-ft June 30-July 6, elevation, 5,923.32 ft; minimum, 1,054,000 acre-ft Mar. 25-27, elevation, 5,918.40 ftB.

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

5,918	1,026,000	5,922	1,305,000
5,919	1,095,000	5,923	1,375,000
5,920	1,165,000	5,924	1,446,000
5,921	1,235,000		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1319000	1246000	1174000	1135000	1110000	1077000	1057000	1115000	1284000	1398000	1390000	1341000
2	1317000	1243000	1171000	1135000	1108000	1076000	1058000	1118000	1293000	1398000	1390000	1338000
3	1315000	1240000	1168000	1134000	1108000	1074000	1060000	1122000	1302000	1398000	1390000	1334000
4	1311000	1238000	1165000	1134000	1106000	1074000	1064000	1124000	1311000	1398000	1390000	1331000
5	1308000	1235000	1161000	1133000	1105000	1072000	1066000	1126000	1323000	1398000	1389000	1328000
6	1306000	1232000	1159000	1131000	1104000	1072000	1068000	1127000	1331000	1398000	1388000	1327000
7	1305000	1229000	1155000	1131000	1102000	1070000	1071000	1130000	1338000	1397000	1388000	1325000
8	1303000	1226000	1152000	1130000	1102000	1069000	1071000	1133000	1345000	1397000	1387000	1322000
9	1300000	1222000	1150000	1129000	1100000	1067000	1073000	1136000	1351000	1396000	1387000	1319000
10	1300000	1220000	1146000	1129000	1099000	1066000	1074000	1138000	1358000	1396000	1387000	1316000
11	1296000	1217000	1143000	1129000	1097000	1065000	1076000	1140000	1363000	1395000	1387000	1312000
12	1294000	1213000	1141000	1128000	1095000	1063000	1076000	1143000	1368000	1394000	1386000	1310000
13	1290000	1210000	1139000	1128000	1094000	1062000	1076000	1145000	1372000	1394000	1385000	1308000
14	1287000	1208000	1137000	1127000	1092000	1060000	1076000	1150000	1375000	1394000	1384000	1305000
15	1285000	1205000	1148000	1127000	1092000	1060000	1076000	1152000	1378000	1393000	1383000	1303000
16	1282000	1202000	1147000	1127000	1091000	1060000	1077000	1155000	1380000	1393000	1382000	1301000
17	1278000	1200000	1145000	1126000	1090000	1059000	1077000	1159000	1382000	1392000	1380000	1299000
18	1276000	1197000	1145000	1124000	1089000	1059000	1077000	1164000	1382000	1392000	1378000	1296000
19	1273000	1194000	1143000	1124000	1088000	1058000	1077000	1169000	1383000	1392000	1377000	1294000
20	1271000	1193000	1143000	1122000	1088000	1058000	1078000	1175000	1384000	1392000	1375000	1292000
21	1269000	1192000	1141000	1122000	1087000	1058000	1081000	1182000	1385000	1392000	1373000	1290000
22	1267000	1190000	1140000	1120000	1086000	1057000	1085000	1191000	1386000	1392000	1370000	1287000
23	1265000	1189000	1138000	1119000	1085000	1057000	1088000	1199000	1387000	1392000	1368000	1286000
24	1263000	1187000	1138000	1118000	1084000	1056000	1092000	1208000	1390000	1392000	1364000	1285000
25	1261000	1186000	1138000	1117000	1083000	1054000	1095000	1217000	1392000	1392000	1361000	1284000
26	1259000	1184000	1137000	1115000	1082000	1054000	1098000	1226000	1394000	1392000	1359000	1283000
27	1257000	1182000	1137000	1114000	1081000	1054000	1101000	1237000	1396000	1391000	1356000	1282000
28	1254000	1180000	1136000	1113000	1079000	1055000	1104000	1248000	1396000	1391000	1353000	1282000
29	1252000	1178000	1136000	1112000	1078000	1055000	1108000	1256000	1397000	1391000	1349000	1281000
30	1250000	1177000	1136000	1111000	---	1056000	1111000	1265000	1398000	1391000	1346000	1280000
31	1249000	---	1136000	1110000	---	1056000	---	1275000	---	1390000	1346000	---
MAX	1319000	1246000	1174000	1135000	1110000	1077000	1111000	1275000	1398000	1398000	1390000	1341000
MIN	1249000	1177000	1136000	1110000	1078000	1054000	1057000	1115000	1284000	1390000	1346000	1280000
(#)	5921.20	5920.17	5919.58	5919.22	5918.75	5918.44	5919.23	5921.57	5923.32	5923.21	5922.59	5921.65
(*)	-74000	-72000	-41000	-26000	-32000	-22000	+55000	+164000	+123000	-8000	-44000	-66000

CAL YR 1983 . . . . . (*) -41000
WTR YR 1984 . . . . . (*) -43000

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

10058600 BLOOMINGTON CREEK AT BLOOMINGTON, ID

LOCATION.--Lat 42°34'08", long 111°25'48", in SE1/4SW1/4SE1/4 sec.21, T.14 S., R.43 E., Bear Lake County, Hydrologic Unit 16010201, on left bank 1 mi west of Bloomington.

DRAINAGE AREA.--24.0 mi^2.

PERIOD OF RECORD.--October 1960 to current year.

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

GAGE.--Water-stage recorder and concrete flume. Altitude of gage is 6,070 ft from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--24 years, 30.5 ft^3/s, 22,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 248 ft^3/s June 11, 1971, gage height, 4.66 ft; minimum, 9.4 ft^3/s Jan. 27, 1961, Feb. 26, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 208 ft^3/s May 31, gage height, 4.40 ft; minimum daily, 18 ft^3/s many days in February and March.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	26	23	21	19	18	20	32	179	120	54	37
2	33	25	23	21	19	18	20	38	166	115	53	36
3	31	25	23	21	19	18	21	43	167	111	52	36
4	30	25	23	21	19	18	21	42	153	107	52	36
5	29	25	23	21	19	18	22	43	175	103	51	35
6	29	25	23	21	19	18	23	39	149	100	49	36
7	28	26	21	21	19	18	24	38	143	97	48	36
8	28	26	23	21	19	18	25	41	131	94	48	35
9	29	24	23	21	19	18	24	48	121	92	47	35
10	30	25	23	21	19	18	23	51	118	89	47	35
11	29	26	23	21	19	19	22	55	114	86	46	34
12	28	25	23	21	19	18	22	63	113	83	46	35
13	27	26	23	21	19	18	23	72	120	80	45	34
14	28	25	23	21	19	19	24	83	133	77	44	34
15	27	24	23	21	18	19	26	89	152	75	43	33
16	27	24	22	20	19	19	29	101	156	73	46	33
17	27	25	22	20	19	19	34	90	165	71	44	32
18	27	25	22	19	19	18	39	88	157	69	43	32
19	27	24	22	19	19	18	40	97	160	67	43	32
20	27	24	22	20	18	19	36	112	160	67	42	32
21	26	24	22	20	19	19	33	120	158	68	41	32
22	26	23	22	20	19	19	36	110	151	66	40	36
23	26	23	21	20	19	19	42	116	145	63	40	33
24	27	24	21	20	19	19	41	139	141	62	40	32
25	26	24	22	20	19	19	37	133	139	61	40	34
26	26	23	22	20	18	19	33	123	138	59	40	36
27	26	23	22	20	18	19	32	130	135	58	39	35
28	26	23	21	20	19	18	31	132	132	59	38	33
29	25	23	21	19	18	19	31	137	128	58	38	33
30	25	22	21	19	---	20	30	149	124	56	37	33
31	26	---	21	19	---	20	---	194	---	55	37	---
TOTAL	857	732	689	630	546	576	864	2748	4323	2441	1373	1025
MEAN	27.6	24.4	22.2	20.3	18.8	18.6	28.8	88.6	144	78.7	44.3	34.2
MAX	33	26	23	21	19	20	42	194	179	120	54	37
MIN	25	22	21	19	18	18	20	32	113	55	37	32
ACFT	1700	1450	1370	1250	1080	1140	1710	5450	8570	4840	2720	2030

CAL YR 1983	TOTAL	14716	MEAN	40.3	MAX	151	MIN	17	ACFT	29190
WTR YR 1984	TOTAL	16804	MEAN	45.9	MAX	194	MIN	18	ACFT	33330

10059500 BEAR LAKE OUTLET CANAL NEAR PARIS, ID

LOCATION.--Lat 42°13'00", long 111°20'35", in SW1/4NW1/4SW1/4 sec.8, T.14 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 2,000 ft downstream from headgates (at dike) and 3 mi southeast of Paris.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only January 1922 to September 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is 5,912.6 ft NGVD of 1929, unadjusted.

REMARKS.--Records 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.--62 years, 402 ft^3/s, 291,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,600 ft^3/s June 14, 1984; minimum daily, 1.0 ft^3/s for many days in 1937, 1954, 1959, 1961, 1964, 1977-78.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,600 ft^3/s June 14; minimum daily, 588 ft^3/s Mar. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1570	1910	1860	976	1150	1060	718	1080	1120	1660	1690	1730
2	1590	1940	1870	992	1150	1050	819	1040	1240	1660	1660	1730
3	1550	1970	1880	1020	1140	1060	963	1030	1290	1660	1630	1730
4	1590	1990	1890	1020	1130	1060	1030	998	1460	1670	1600	1730
5	1650	2010	1890	967	1120	1080	1020	1000	1750	1680	1560	1720
6	1700	2030	1900	894	1110	1090	1030	999	1900	1680	1570	1730
7	1760	2050	1870	829	1110	1090	1010	983	2040	1690	1660	1740
8	1760	2060	1860	790	1080	1100	965	1020	2170	1700	1620	1750
9	1750	2080	1850	771	1090	1120	963	1080	2220	1710	1590	1750
10	1750	2100	1830	752	1110	1110	1010	1080	2280	1730	1640	1740
11	1840	2100	1820	749	1140	1120	1100	1070	2380	1730	1670	1740
12	1970	2100	1760	724	1160	1120	1110	1090	2500	1690	1680	1740
13	2030	2090	1620	730	1160	1120	1120	1100	2570	1540	1650	1730
14	2060	2080	1460	820	1140	1120	1130	1100	2600	1410	1670	1730
15	2080	1980	1370	995	1130	1110	1150	1110	2560	1400	1740	1720
16	2110	1900	1370	917	1130	1120	1170	1150	2530	1430	1770	1720
17	2120	1890	1330	941	1130	1130	1090	1150	2500	1500	1760	1660
18	2120	1890	1280	959	1130	1150	888	1130	2400	1540	1740	1500
19	2120	1890	1240	989	1130	1150	708	1110	2220	1540	1720	1310
20	2120	1880	1220	1000	1190	1160	728	1070	2120	1520	1700	1340
21	2110	1880	1330	1010	1200	1170	814	1050	1960	1510	1670	1380
22	2100	1890	1420	1030	1170	1170	830	1040	1900	1510	1660	1370
23	2080	1880	1260	1030	1160	1150	836	1030	1910	1550	1660	1390
24	2070	1860	1080	1050	1150	905	813	1050	1930	1640	1670	1430
25	2040	1880	1030	1090	1130	588	808	1050	1920	1660	1690	1420
26	2020	1870	977	1130	1100	717	820	1060	1930	1670	1710	1400
27	1990	1880	924	1140	1090	703	815	1060	1920	1660	1720	1390
28	1950	1880	931	1140	1080	746	812	1060	1790	1660	1720	1370
29	1920	1880	929	1150	1070	805	819	1040	1670	1650	1730	1370
30	1890	1860	935	1150	---	777	984	1040	1670	1670	1730	1360
31	1890	---	960	1160	---	723	---	1060	---	1720	1730	---
TOTAL	59300	58700	44946	29915	32780	31574	28073	32930	60450	50040	52010	47420
MEAN	1913	1957	1450	965	1130	1019	936	1062	2015	1614	1678	1581
MAX	2120	2100	1900	1160	1200	1170	1170	1150	2600	1730	1770	1750
MIN	1550	1860	924	724	1070	588	708	983	1120	1400	1560	1310
ACFT	117600	116400	89150	59340	65020	62630	55680	65320	119900	99250	103200	94060

CAL YR 1983 TOTAL 485335 MEAN 1330 MAX 2120 MIN 11 ACFT 962700
WTR YR 1984 TOTAL 528138 MEAN 1443 MAX 2600 MIN 588 ACFT 1048000

10068500 BEAR RIVER AT PESCADERO, ID

LOCATION.--Lat 42°24'06", long 111°21'22", in SW1/4SW1/4SE1/4 sec.6, T.12 S., R.44 E., Bear Lake County, Hydrologic Unit 16010202, on left bank at Pescadero, 400 ft downstream from road bridge, 2 mi downstream from Bennington Creek, and 6.5 mi northwest of Montpelier.

DRAINAGE AREA.--3,705 mi^2.

PERIOD OF RECORD.--October 1921 to September 1954. June 1969 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,900 ft from topographic map.

REMARKS.--Records good except for ice affected periods, which are fair. Flow regulated by Bear Lake (station 10055500) and diversions above station for irrigation.

AVERAGE DISCHARGE.--48 years, 635 ft^3/s, 460,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,840 ft^3/s June 10, 1923; minimum daily, 23 ft^3/s Mar. 14-17, 1936.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,250 ft^3/s June 14, 15; minimum daily, 860 ft^3/s Jan. 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1810	2120	2030	1150	1350	1250	1030	1460	1890	2140	1810	1830
2	1840	2130	2040	1150	1350	1250	1050	1490	1960	2100	1800	1830
3	1860	2150	2050	1200	1350	1250	1220	1490	2020	2090	1760	1820
4	1820	2160	2070	1200	1350	1250	1370	1480	2050	2070	1730	1810
5	1810	2190	2070	1150	1300	1250	1430	1480	2220	2050	1690	1810
6	1800	2210	2080	1050	1300	1300	1480	1490	2500	2030	1650	1810
7	1800	2220	2080	1000	1300	1350	1550	1490	2720	2000	1710	1800
8	1810	2240	2080	950	1300	1400	1590	1490	2890	1960	1730	1800
9	1830	2250	2060	920	1300	1430	1640	1510	3040	1950	1700	1810
10	1870	2250	2060	880	1300	1420	1670	1510	3100	1920	1700	1810
11	1870	2250	2050	890	1350	1440	1740	1520	3110	1900	1700	1800
12	1950	2270	2040	860	1350	1440	1780	1560	3130	1880	1720	1820
13	2030	2280	1950	860	1350	1450	1780	1590	3200	1870	1680	1810
14	2100	2250	1800	1000	1350	1460	1780	1640	3250	1710	1640	1800
15	2150	2210	1640	1150	1350	1460	1810	1690	3250	1580	1670	1800
16	2170	2140	1560	1100	1350	1460	1890	1750	3230	1540	1730	1800
17	2200	2100	1550	1100	1350	1470	1960	1810	3180	1550	1760	1800
18	2200	2090	1530	1050	1350	1490	1940	1840	3140	1590	1770	1730
19	2220	2070	1520	1150	1350	1510	1760	1870	3060	1620	1790	1530
20	2220	2070	1480	1200	1400	1530	1630	1860	2930	1610	1800	1450
21	2220	2060	1400	1200	1400	1550	1670	1840	2770	1620	1790	1480
22	2210	2050	1340	1200	1400	1560	1640	1810	2600	1640	1780	1490
23	2190	2060	1300	1200	1350	1570	1560	1800	2520	1640	1770	1530
24	2190	2050	1180	1250	1350	1530	1470	1830	2470	1700	1770	1600
25	2180	2040	1170	1300	1350	1110	1400	1860	2450	1730	1800	1600
26	2170	1970	1160	1350	1300	991	1360	1890	2420	1760	1830	1580
27	2150	2020	1100	1350	1300	967	1320	1910	2390	1770	1840	1560
28	2150	2040	1100	1350	1300	970	1290	1920	2360	1770	1860	1530
29	2140	2040	1100	1350	1250	1060	1260	1930	2260	1780	1860	1520
30	2120	2030	1100	1350	---	1090	1270	1900	2180	1760	1860	1520
31	2130	---	1150	1350	---	1040	---	1890	---	1790	1850	---
TOTAL	63210	64010	50840	35260	38750	41298	46340	52600	80290	56120	54550	50880
MEAN	2039	2134	1640	1137	1336	1332	1545	1697	2676	1810	1760	1696
MAX	2220	2280	2080	1350	1400	1570	1960	1930	3250	2140	1860	1830
MIN	1800	1970	1100	860	1250	967	1030	1460	1890	1540	1640	1450
ACFT	125400	127000	100800	69940	76860	81910	91920	104300	159300	111300	108200	100900

CAL YR 1983	TOTAL	613885	MEAN	1682	MAX	3670	MIN	436	ACFT	1218000
WTR YR 1984	TOTAL	634148	MEAN	1733	MAX	3250	MIN	860	ACFT	1258000

10072800 EIGHTMILE CREEK NEAR SODA SPRINGS, ID

LOCATION.--Lat 42°32'15", long 111°34'20", in NW1/4NW1/4SE1/4 sec.20, T.10 S., R.42 E., Bear Lake County, Hydrologic Unit 16010202, on right bank below Wilson Creek, 15 ft below road bridge, 0.3 mi north of Eightmile Ranger Station, and 8.4 mi south of Soda Springs.

DRAINAGE AREA.--22.6 mi^2.

PERIOD OF RECORD.--October 1960 to current year.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,170 ft from topographic map.

REMARKS.--Records good except those affected by backwater from a beaver dam, Jan. 9 to Mar. 20. which are fair.

AVERAGE DISCHARGE.--24 years, 17.6 ft^3/s, 12,750 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 230 ft^3/s June 1, 1984, gage height, 2.58 ft; minimum, 0.73 ft^3/s Nov. 17, 18, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 230 ft^3/s June 1, gage height, 2.58 ft; minimum daily, 4.1 ft^3/s Mar. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	7.5	5.8	6.1	6.8	5.8	4.8	23	216	69	24	13
2	12	8.0	6.4	5.7	6.7	5.5	4.8	26	206	65	23	13
3	9.8	7.8	6.9	5.8	6.6	5.4	4.8	26	201	62	22	12
4	8.7	7.3	7.7	5.8	6.4	5.0	5.0	27	180	58	22	12
5	8.2	9.0	7.1	6.4	6.3	4.7	5.8	28	176	54	21	12
6	8.0	8.7	6.5	6.8	6.3	5.1	7.2	26	163	51	21	12
7	7.7	10	5.6	6.4	6.5	5.0	7.6	27	156	49	20	12
8	7.5	9.6	6.5	6.3	6.6	4.8	8.2	30	144	48	19	12
9	8.7	8.6	6.6	6.4	6.7	4.6	8.4	37	127	44	19	11
10	9.0	9.0	6.8	5.9	7.2	4.7	8.0	43	121	42	18	11
11	7.9	9.9	7.4	5.2	7.0	4.9	7.7	50	110	38	18	12
12	8.2	9.4	8.4	5.9	7.3	4.5	7.5	66	99	36	18	12
13	8.1	10	7.7	6.0	7.9	4.7	7.5	96	95	34	18	11
14	8.7	9.5	7.7	6.0	8.2	5.2	8.1	140	99	32	17	11
15	8.4	9.0	7.3	5.8	7.1	4.7	11	178	110	30	17	11
16	7.9	8.8	6.8	5.4	7.8	4.6	17	177	125	28	19	11
17	7.8	10	6.8	5.3	7.6	4.5	27	149	135	28	18	11
18	7.6	9.4	6.2	5.3	7.2	4.3	36	130	133	28	17	10
19	7.5	8.8	5.5	5.3	6.9	4.1	37	125	130	29	16	9.9
20	7.5	8.6	5.1	5.1	6.4	4.4	33	135	131	29	16	11
21	7.4	8.9	4.5	5.0	6.8	4.4	30	139	132	31	15	12
22	7.2	7.9	4.4	5.0	6.7	4.3	30	131	127	29	15	9.9
23	9.3	7.4	4.7	5.4	6.6	4.3	31	132	119	31	15	12
24	10	7.5	5.4	5.5	6.3	4.3	31	156	110	29	14	11
25	8.5	8.5	6.2	5.7	6.5	4.3	30	157	103	27	15	10
26	8.2	8.3	6.8	5.7	6.3	4.4	28	147	95	26	15	9.9
27	7.9	7.1	6.8	6.7	5.6	4.4	26	143	88	25	14	9.7
28	7.7	8.1	6.1	6.8	5.7	4.4	25	138	82	25	14	9.7
29	7.6	7.0	6.2	7.3	5.8	4.4	24	140	78	24	13	9.6
30	7.6	5.0	6.5	7.1	---	4.4	23	153	74	24	13	10
31	8.4	---	6.3	6.8	---	4.6	---	211	---	24	13	---
TOTAL	259.0	254.6	198.7	183.9	195.8	144.7	534.4	3186	3865	1149	539	333.7
MEAN	8.35	8.49	6.41	5.93	6.75	4.67	17.8	103	129	37.1	17.4	11.1
MAX	12	10	8.4	7.3	8.2	5.8	37	211	216	69	24	13
MIN	7.2	5.0	4.4	5.0	5.6	4.1	4.8	23	74	24	13	9.6
ACFT	514	505	394	365	388	287	1060	6320	7670	2280	1070	662

CAL YR 1983	TOTAL	9017.2	MEAN	24.7	MAX	188	MIN	3.0	ACFT	17890
WTR YR 1984	TOTAL	10843.8	MEAN	29.6	MAX	216	MIN	4.1	ACFT	21510

10075000 BEAR RIVER AT SODA SPRINGS, ID

LOCATION.--Lat 42°36'50", long 111°34'58", in NW1/4SW1/4NW1/4 sec.29, T.9 S., R.42 E., Caribou County, Hydrologic Unit 16010202, on left bank 800 ft upstream from Bailey Creek road bridge and 2 mi south of Soda Springs.

DRAINAGE AREA.--3,972 mi^2.

PERIOD OF RECORD.--May to September 1896, May, June 1898, and October 1953 to current year in reports of Geological Survey. Irrigation season only during 1944-49, 1951-53 in reports of Bear River Hydrometric Data (Geological Survey open-file report).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,760 ft from topographic map. May 25 to Oct. 2, 1896, May 22 to July 1, 1898, staff gage at different datum. During irrigation season 1944-49, 1950-53, water-stage recorder at site 800 ft downstream at different datum.

REMARKS.--Records good. 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.--31 years, 716 ft^3/s, 518,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,380 ft^3/s June 9, 15, 1896, gage height, 8.40 ft, datum then in use; minimum, 41 ft^3/s Nov. 16, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,510 ft^3/s June 16; minimum daily, 911 ft^3/s Dec. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2020	2260	2200	1570	1390	1320	1090	1720	2420	2400	1950	1910
2	2070	2260	2200	1510	1400	1330	1090	1800	2440	2350	1930	1900
3	2070	2280	2220	1320	1380	1330	1240	1770	2550	2290	1890	1890
4	2030	2290	2220	1390	1360	1220	1410	1740	2580	2270	1860	1890
5	1990	2340	2220	1380	1340	1230	1490	1720	2720	2240	1820	1890
6	1980	2380	2220	1430	1330	1250	1600	1700	2920	2210	1780	1920
7	1970	2420	2210	1400	1460	1310	1670	1700	3130	2190	1780	1900
8	1960	2420	2210	1380	1330	1360	1730	1680	3280	2170	1840	1900
9	1990	2390	2200	1310	1290	1310	1770	1710	3370	2140	1830	1910
10	2060	2380	2210	1250	1400	1350	1800	1770	3440	2110	1810	1910
11	2030	2410	2200	1210	1320	1370	1850	1790	3470	2080	1800	1930
12	2080	2420	2190	1190	1340	1380	1890	1870	3440	2060	1820	1980
13	2160	2450	2130	1160	1360	1390	1900	1950	3460	2020	1810	1940
14	2240	2420	2010	1140	1400	1380	1900	2060	3470	1900	1750	1930
15	2300	2360	1860	1110	1330	1350	1970	2220	3470	1780	1740	1930
16	2320	2330	1740	1170	1290	1350	2140	2300	3510	1740	1810	1930
17	2340	2310	1710	1210	1290	1370	2360	2320	3500	1730	1880	1930
18	2350	2310	1670	1190	1300	1370	2500	2320	3450	1740	1860	1880
19	2320	2270	1680	1240	1300	1410	2400	2310	3390	1800	1870	1750
20	2330	2250	1600	1270	1300	1460	2150	2330	3270	1820	1900	1610
21	2330	2240	1510	1300	1300	1490	2050	2320	3130	1870	1890	1640
22	2310	2220	911	1330	1310	1500	2050	2290	2960	1920	1870	1630
23	2320	2210	1150	1360	1310	1520	2020	2260	2840	1920	1870	1690
24	2320	2220	1260	1370	1310	1540	1920	2340	2770	1910	1870	1810
25	2300	2210	1350	1390	1310	1290	1800	2390	2740	1930	1900	1800
26	2290	2090	1340	1380	1320	1060	1700	2390	2700	1940	1930	1770
27	2280	2180	1410	1390	1320	1020	1630	2380	2650	1940	1930	1740
28	2260	2200	1400	1420	1320	1010	1590	2370	2600	1940	1930	1700
29	2250	2190	1270	1420	1320	1080	1560	2380	2510	1960	1940	1690
30	2240	2140	1200	1410	---	1130	1550	2380	2450	1960	1930	1680
31	2260	---	1310	1390	---	1110	---	2420	---	1940	1930	---
TOTAL	67770	68850	55011	40990	38730	40590	53820	64700	90630	62270	57720	54980
MEAN	2186	2295	1775	1322	1336	1309	1794	2087	3021	2009	1862	1833
MAX	2350	2450	2220	1570	1460	1540	2500	2420	3510	2400	1950	1980
MIN	1960	2090	911	1110	1290	1010	1090	1680	2420	1730	1740	1610
ACFT	134400	136600	109100	81300	76820	80510	106800	128300	179800	123500	114500	109100

CAL YR 1983	TOTAL	726622	MEAN	1991	MAX	4130	MIN	635	ACFT	1441000
WTR YR 1984	TOTAL	696061	MEAN	1902	MAX	3510	MIN	911	ACFT	1381000

10076400 SODA CREEK AT FIVEMILE MEADOWS, NEAR SODA SPRINGS, ID

LOCATION.--Lat 42°43'45", long 111°36'55", in NW1/4NE1/4SW1/4 sec.13, T.8 S., R.41 E., Caribou County, Hydrologic Unit 16010202, on right bank 100 ft southeast of Lau ranchhouse, 150 ft downstream from Schmidt ditch, and 5 mi north of Soda Springs.

DRAINAGE AREA.--51.7 mi^2.

PERIOD OF RECORD.--October 1964 to current year. April 1923 to October 1926 published as "at Lau Ranch." Records since October 1964 equivalent if Schmidt ditch diversion is substracted from flow past station.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,980 ft from topographic map. April 1923 to October 1926 at different datum and Oct. 1, 1964 to Aug. 26, 1965 at site 400 ft upstream at different datum.

REMARKS.--Records fair. Records herein include flow in Schmidt ditch.

AVERAGE DISCHARGE.--20 years, 17.1 ft^3/s, 12,390 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 121 ft^3/s Apr. 14, 1976; maximum gage height, 4.01 ft Apr. 2, 1965. site and datum then in use; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 118 ft^3/s Apr. 18; minimum daily, 23 ft^3/s many days during January, February, and March.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	26	26	24	23	23	25	44	45	45	46	41
2	31	26	25	24	23	23	25	47	45	45	44	40
3	31	28	25	24	23	23	26	49	45	45	44	41
4	29	27	26	24	23	23	27	49	46	45	44	41
5	27	28	25	24	23	23	29	47	47	45	44	41
6	26	30	25	24	23	23	32	45	49	45	44	41
7	25	31	26	24	23	23	35	44	52	45	44	41
8	25	32	25	24	23	23	34	42	53	45	43	40
9	26	30	25	24	23	23	33	42	52	45	43	40
10	27	29	25	24	23	23	32	42	51	45	44	40
11	26	29	25	24	23	23	33	42	53	44	44	39
12	25	29	25	24	23	23	35	42	53	44	44	40
13	25	29	25	24	23	23	38	42	51	44	44	39
14	26	30	25	24	23	24	43	43	49	44	42	38
15	26	29	25	24	23	24	49	43	49	44	44	39
16	25	28	25	24	23	24	75	44	49	44	44	39
17	25	30	25	24	23	24	106	43	50	44	45	39
18	25	34	24	24	23	24	118	43	50	44	44	38
19	24	32	24	23	23	24	109	43	48	44	44	38
20	24	31	24	23	23	24	93	43	48	44	44	40
21	24	29	24	23	23	24	79	43	47	46	44	44
22	24	28	24	23	23	24	67	43	47	48	42	44
23	24	27	24	23	23	24	58	43	46	48	43	43
24	25	27	24	23	23	24	54	45	45	47	44	44
25	25	27	24	23	23	24	50	45	45	46	44	42
26	25	26	24	23	23	24	48	44	45	45	44	42
27	25	26	24	23	23	24	45	44	45	45	44	41
28	24	26	24	23	23	24	44	44	45	47	44	40
29	24	26	24	23	23	24	43	44	45	48	42	40
30	25	26	24	23	---	24	43	44	45	48	41	40
31	26	---	24	23	---	25	---	45	---	47	42	---
TOTAL	801	856	764	731	667	732	1528	1363	1440	1405	1353	1215
MEAN	25.8	28.5	24.6	23.6	23.0	23.6	50.9	44.0	48.0	45.3	43.6	40.5
MAX	32	34	26	24	23	25	118	49	53	48	46	44
MIN	24	26	24	23	23	23	25	42	45	44	41	38
ACFT	1590	1700	1520	1450	1320	1450	3030	2700	2860	2790	2680	2410

CAL YR 1983	TOTAL	9994	MEAN	27.4	MAX	64	MIN	15	ACFT	19820
WTR YR 1984	TOTAL	12855	MEAN	35.1	MAX	118	MIN	23	ACFT	25500

10079500 BEAR RIVER AT ALEXANDER, ID

LOCATION.--Lat 42°38'42", long 111°41'51", in NE1/4SW1/4NW1/4 sec.17, T.9 S., R.41 E., Caribou County, Hydrologic Unit 16010202, on right bank 600 ft downstream from Soda hydroelectric plant of Utah Power & Light Co., 0.5 mi southeast of Alexander, and 5 mi downstream from Soda Creek.

DRAINAGE AREA.--4,099 mi^2.

PERIOD OF RECORD.--March 1911 to current year. Monthly discharge only for some periods, published in WSP 1314.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,650 ft from topographic map.

REMARKS.--Records good. Natural flow of stream affected by upstream reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--73 years, 800 ft^3/s, 579,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,740 ft^3/s Mar. 31, 1911; maximum gage height, 15.95 ft Dec. 11, 1919 (backwater from ice); minimum, 15 ft^3/s Aug. 24, 1979, when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,630 ft^3/s June 15; minimum daily, 768 ft^3/s Mar. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2240	1690	2210	1340	1540	1570	1690	1710	2650	2200	2170	2230
2	2240	2660	2260	1340	1540	1560	1690	1700	2650	2240	2210	2230
3	2240	2630	2390	1340	1560	1560	1440	1700	2650	2310	2220	2240
4	2310	2500	2460	1410	1580	1560	939	1860	2650	2340	2160	2230
5	2340	2500	2450	1470	1490	1560	944	1940	2770	2330	2110	2180
6	2350	2500	2450	1470	1440	1550	1080	1960	2870	2190	2110	2150
7	2330	2580	2350	1470	1440	1550	1210	1940	2880	2130	2040	2150
8	2280	2680	2180	1470	1440	1550	1260	1940	3060	2140	1960	2150
9	2250	2640	2230	1540	1420	1550	1320	1910	3460	2140	1990	2160
10	2250	2560	2280	1570	1420	1670	1850	1890	3440	2150	2020	2170
11	2260	2510	2240	1570	1420	1680	1980	1880	3450	2160	1980	2170
12	2260	2510	2280	1590	1430	1680	1980	1890	3550	2110	1990	2170
13	2250	2520	2480	1590	1430	1680	1980	1900	3580	2050	2020	2200
14	2350	2530	2430	1590	1570	1680	1970	1980	3610	2050	2000	2210
15	2410	2540	2240	1590	1530	1670	1970	2150	3630	1940	2020	2210
16	2410	2540	1780	1580	1440	1790	2040	2350	3570	1870	2040	2200
17	2410	2650	1720	1580	1440	1800	2160	2450	3540	1860	2010	2200
18	2440	2720	1720	1580	1470	1670	2120	2480	3530	1770	2000	2190
19	2640	2710	1780	1460	1510	1650	1950	2480	3530	1730	2060	2120
20	2720	2690	1820	1330	1500	1570	2200	2490	3530	1740	2140	2060
21	2620	2090	1790	1350	1500	1550	2510	2500	3440	1870	2130	1980
22	2640	2330	1120	1150	1500	1700	2510	2500	3270	1940	2160	1830
23	2680	2330	1090	1350	1490	1740	2500	2500	3130	2010	2120	1830
24	2620	2330	1070	1410	1490	1750	2490	2500	2950	2080	2100	1820
25	2590	2330	977	1540	1480	1090	2190	2490	2870	2070	2100	1960
26	2590	2340	1070	1600	1480	768	2030	2490	2620	2080	2100	2060
27	1600	2260	1160	1580	1460	777	2020	2510	2420	2080	2100	2060
28	2450	2210	1320	1580	1450	973	1910	2590	2520	2080	2140	2040
29	2430	2210	1380	1580	1490	1200	1790	2650	2550	1840	2190	2000
30	2400	2210	1380	1560	---	1270	1760	2650	2350	1570	2230	1990
31	2300	---	1370	1540	---	1530	---	2650	---	2150	2250	---
TOTAL	73900	73500	57477	46120	42950	46898	55483	68630	92720	63220	64870	63190
MEAN	2384	2450	1854	1488	1481	1513	1849	2214	3091	2039	2093	2106
MAX	2720	2720	2480	1600	1580	1800	2510	2650	3630	2340	2250	2240
MIN	1600	1690	977	1150	1420	768	939	1700	2350	1570	1960	1820
ACFT	146600	145800	114000	91480	85190	93020	110100	136100	183900	125400	128700	125300

CAL YR 1983 TOTAL 710135 MEAN 1946 MAX 3680 MIN 545 ACFT 1409000
WTR YR 1984 TOTAL 748958 MEAN 2046 MAX 3630 MIN 768 ACFT 1486000

10084500 COTTONWOOD CREEK NEAR CLEVELAND, ID

LOCATION.--Lat 42°19'57", long 111°46'27", in NW1/4SE1/4SW1/4 sec.34, T.12 S., R.40 E., Franklin County, Hydrologic Unit 16010202, on right bank 500 ft upstream from Cleveland irrigation canal, 2.5 mi west of Cleveland, and 4 mi downstream from proposed Cottonwood Dam.

DRAINAGE AREA.--61.7 mi^2.

PERIOD OF RECORD.--November 1938 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,150 ft from topographic map. Prior to Dec. 29, 1944, nonrecording gage at same site and datum.

REMARKS.--Records good. A few small diversions for irrigation of meadowland in Cottonwood Valley above station. Treasureton Canal diverts from Cottonwood Creek 10.1 mi above station for irrigation in Battle Creek basin in vicinity of Treasureton.

AVERAGE DISCHARGE.--45 years, 33.4 ft^3/s, 24,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,090 ft^3/s May 15, 1984, gage height, 4.34 ft; minimum, no flow Feb. 19-21, 1977.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 18	2100	742	3.79
May 15	0200	*1,090	4.34

Minimum daily, 9.8 ft^3/s Dec. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	24	23	33	26	28	51	188	217	55	32	23
2	52	26	26	27	26	28	49	294	187	52	32	22
3	42	28	30	28	26	28	53	291	188	50	30	21
4	30	25	29	32	26	28	58	259	172	49	28	20
5	26	29	25	33	27	28	66	251	208	45	28	20
6	24	32	25	33	27	28	91	218	216	40	28	22
7	25	33	26	31	28	29	98	204	211	35	26	21
8	23	34	30	28	28	30	103	247	173	36	26	22
9	23	30	33	32	28	31	98	314	150	33	25	21
10	30	30	36	30	30	31	86	346	159	33	24	20
11	25	29	36	33	28	30	78	331	176	32	24	20
12	24	31	35	32	28	29	72	399	145	31	25	45
13	23	32	34	31	29	29	69	498	130	29	23	26
14	27	31	35	31	29	31	80	608	123	26	23	23
15	25	28	35	27	28	32	121	681	122	26	22	21
16	24	29	32	23	28	33	209	462	113	25	33	21
17	23	33	33	18	29	32	325	432	107	24	43	20
18	22	36	29	13	29	31	430	398	101	23	28	19
19	21	31	28	15	29	31	444	401	95	22	27	18
20	21	32	17	18	29	32	321	416	89	23	27	20
21	21	31	12	22	28	38	277	386	85	44	24	33
22	21	29	10	26	28	36	279	342	81	53	23	25
23	23	29	9.8	27	28	38	317	340	77	38	23	27
24	28	28	18	28	28	41	328	371	72	32	24	30
25	24	31	30	29	28	39	289	318	68	34	25	26
26	23	27	34	29	28	41	221	281	65	36	26	22
27	23	25	34	29	28	40	182	274	63	32	24	21
28	22	30	28	29	28	40	170	253	59	31	23	20
29	22	28	27	27	28	42	169	245	56	62	21	20
30	21	15	31	27	---	44	153	245	58	39	21	19
31	26	---	33	26	---	48	---	265	---	34	22	---
TOTAL	799	876	863.8	847	810	1046	5287	10558	3766	1124	810	688
MEAN	25.8	29.2	27.9	27.3	27.9	33.7	176	341	126	36.3	26.1	22.9
MAX	52	36	36	33	30	48	444	681	217	62	43	45
MIN	21	15	9.8	13	26	28	49	188	56	22	21	18
ACFT	1580	1740	1710	1680	1610	2070	10490	20940	7470	2230	1610	1360

CAL YR 1983	TOTAL	25477.8	MEAN	69.8	MAX	405	MIN	9.8	ACFT	50540
WTR YR 1984	TOTAL	27474.8	MEAN	75.1	MAX	681	MIN	9.8	ACFT	54500

10086500 BEAR RIVER BELOW UTAH POWER & LIGHT CO.'S TAILRACE, AT ONEIDA, ID

LOCATION.--Lat 42°16'00", long 111°45'04", in NE1/4SE1/4NW1/4 sec.26, T.12 S., R.40 E., Franklin County, Hydrologic Unit 16010202, on right bank 200 ft downstream from tailrace of Oneida plant and 6 mi south of Cleveland.

DRAINAGE AREA.--4,456 mi^2.

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only October 1921 to September 1945, published in WSP 1314.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,800 ft from topographic map.

REMARKS.--Records good. Natural flow of stream affected by upstream reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--63 years, 876 ft^3/s, 634,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,480 ft^3/s May 8, 1922; minimum, 3.0 ft^3/s June 13, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4,790 ft^3/s June 13; minimum daily, 662 ft^3/s Dec. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2120	2400	2700	2010	1740	1790	2440	2990	4070	2540	2250	2510
2	2800	2600	2730	1750	1690	1810	2450	3300	4060	2430	2330	2180
3	2550	2700	2290	1720	1770	1870	2470	3260	4050	2490	2230	2560
4	2320	2330	2930	1700	1950	1890	2350	3410	4040	2520	2220	2510
5	2480	2910	2930	1720	2000	1910	2060	3390	4030	2530	2200	2400
6	2550	2900	2690	1900	1890	1940	2210	3430	3250	2540	2620	2400
7	2800	2900	2930	2050	1770	1910	2580	3440	4140	2290	2140	2250
8	2210	2950	2930	2040	1770	2380	2540	2980	4440	2200	2090	2420
9	2800	3140	2930	2040	1770	2430	2670	3430	4700	2260	1900	2300
10	2160	3040	2450	1940	1770	2400	2700	3550	4680	2280	2040	2330
11	2800	3050	2920	1870	1770	2400	2810	3430	4730	2270	1620	2420
12	2120	3030	2690	1870	1730	1840	2760	3430	4750	2050	1990	2420
13	2800	2960	2890	1870	1740	2230	2730	3570	4790	2200	2400	2490
14	2130	2840	2900	1870	1840	2140	2810	3870	4760	2100	2060	2350
15	2460	2960	2880	1920	1840	2020	2930	4100	4760	1970	2070	2230
16	2460	2960	2920	2080	1920	2360	3220	4110	4680	1890	2140	2430
17	2810	2960	2080	1820	1920	2790	3830	4120	4630	1960	2160	2380
18	2810	3070	2150	1670	1830	2010	4020	4130	4590	1960	1860	2280
19	2370	3260	1880	1670	1810	2130	4010	4140	4550	1480	2100	2120
20	2840	3180	2170	1670	1850	1990	4000	4140	4510	1390	2620	2190
21	2840	3180	2200	1620	1880	1800	4010	4140	4470	1440	2580	2260
22	2850	2970	1770	1640	1900	2420	4050	4130	4220	1970	2170	1690
23	2850	2640	662	1800	1840	2060	4050	4120	3910	2640	2380	2160
24	2990	2220	1040	2000	1820	1320	4050	4120	3520	2020	2310	2150
25	2920	2930	1200	2000	1820	1340	4040	4120	3330	2610	2310	2100
26	2840	2690	2080	2270	1830	1350	3730	4120	3010	2000	2270	2290
27	2840	2770	2430	1690	1950	1350	3340	4110	2810	2320	2390	2440
28	1950	2570	1740	2000	2060	829	3130	4110	2980	2540	2310	2180
29	2580	2490	1440	2000	1970	1640	3030	4100	2960	1290	2470	1960
30	2880	2550	1560	2000	---	2020	2640	4090	2660	1910	2390	2230
31	2880	---	1970	1830	---	2280	---	4080	---	2180	2520	---
TOTAL	80810	85150	71082	58030	53440	60649	93660	117460	122080	66270	69140	68630
MEAN	2607	2838	2293	1872	1843	1956	3122	3789	4069	2138	2230	2288
MAX	2990	3260	2930	2270	2060	2790	4050	4140	4790	2640	2620	2560
MIN	1950	2220	662	1620	1690	829	2060	2980	2660	1290	1620	1690
ACFT	160300	168900	141000	115100	106000	120300	185800	233000	242100	131400	137100	136100

CAL YR 1983	TOTAL	838899	MEAN	2298	MAX	4220	MIN	136	ACFT	1664000
WTR YR 1984	TOTAL	946401	MEAN	2586	MAX	4790	MIN	662	ACFT	1877000

10090500 BEAR RIVER NEAR PRESTON, ID

LOCATION.--Lat 42°10'05", long 111°50'59", in NW1/4NE1/4NW1/4 sec.36, T.14 S., R.39 E., Franklin County, Hydrologic Unit 16010202, on left bank 600 ft downstream from headgates of West Cache Canal, 5 mi downstream from Mink Creek, 5 mi north of Preston, and 5.5 mi upstream from Battle Creek.

DRAINAGE AREA.--4,545 mi^2.

PERIOD OF RECORD.--October 1889 to December 1916, January to September 1917 (gage heights only), October 1943 to current year. Prior to 1903 published as "at Battlecreek". Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 205: 1905-7. WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,524.8 ft NGVD of 1929, unadjusted. October 1889 to September 1917, nonrecording gages at several sites within 5 mi downstream at different datums.

REMARKS.--Records good. Station is below all irrigation diversions from Bear River in Idaho except Cub River pumps in SE1/4 sec.20, T.16 S., R.39 E. Natural flow of stream affected by storage reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--41 years (water years 1944-84), 937 ft^3/s, 678,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD (since 1943).--Maximum discharge, 4,680 ft^3/s June 13, 1984, gage height, 5.49 ft; no flow Sept. 10-11, 1980.

1889-1917: Maximum flood occurred June 9, 10, 1907 about 8,500 ft^3/s, estimated on basis of records for downstream station Bear River near Collinston (station 10118000), site and datum then in use. Maximum gage height observed, 9.04 ft Jan. 17, 18, 1917 (backwater from ice), site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,680 ft^3/s June 13, gage height, 5.49 ft; minimum daily, 800 ft^3/s Dec. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2170	2440	2700	2020	1870	1640	2450	2550	3860	2500	2050	2410
2	2930	2640	2900	1810	1790	1820	2460	3030	3830	2430	2160	2070
3	2670	2760	2120	1720	1850	1860	2470	2870	3810	2510	2050	2380
4	2440	2340	2920	1690	2020	1880	2400	2920	3780	2450	2060	2360
5	2570	2920	2910	1750	2080	1880	2110	3060	3780	2410	2040	2250
6	2630	2920	2690	1870	2010	1910	2280	2910	3160	2400	2440	2240
7	2890	2930	2930	2000	1730	1910	2630	2950	3860	2170	2040	2100
8	2330	2980	2930	2000	1740	2370	2560	2620	4120	2050	1940	2250
9	2900	3140	2920	2000	1740	2440	2670	2990	4450	2130	1750	2140
10	2270	2970	2490	1900	1740	2430	2630	3140	4450	2160	1870	2150
11	2890	3040	2940	1830	1740	2420	2710	3050	4480	2150	1540	2250
12	2210	3030	2710	1830	1730	1830	2650	3080	4530	1910	1840	2250
13	2880	2950	2930	1830	1690	2210	2580	3300	4560	2030	2260	2340
14	2220	2820	2900	1840	1780	2190	2670	3700	4570	1950	1920	2200
15	2550	2920	2900	1880	1770	2100	2790	4050	4600	1810	1930	2070
16	2550	2920	2920	2040	1840	2430	3090	4110	4630	1880	2040	2380
17	2890	2930	2380	1840	1860	2850	3650	4020	4600	1730	1990	2300
18	2880	3040	1890	1670	1790	2070	3920	3920	4600	1830	1750	2300
19	2430	3230	2120	1270	1750	2170	3900	3890	4610	1370	1970	2230
20	2890	3160	2000	1440	1790	2090	3820	3940	4570	1290	2470	2170
21	2900	3150	2000	1750	1800	1920	3740	3990	4510	1370	2450	2250
22	2910	2950	1900	1760	1840	2510	3710	3940	4300	1960	2000	1770
23	2930	2880	800	1800	1830	2290	3720	3890	3990	2580	2210	2200
24	3060	1970	1150	1980	1820	1510	3730	3920	3580	1880	2120	2200
25	3000	2930	1300	1980	1820	1480	3700	3900	3360	2550	2140	2150
26	2930	2680	2150	2220	1830	1480	3430	3820	3130	2000	2130	2350
27	2930	2730	2600	1700	1910	1460	3040	3780	2820	2120	2230	2390
28	2020	2580	1910	1970	2010	959	2790	3770	3080	2340	2150	2280
29	2630	2450	1710	2010	1960	1650	2660	3740	2870	1310	2330	2050
30	2920	2900	1530	2030	---	2050	2370	3760	2710	1730	2260	2300
31	2930	---	1910	1940	---	2270	---	3830	---	1930	2410	---
TOTAL	83350	85300	72160	57370	53130	62079	89330	108440	119200	62930	64540	66780
MEAN	2689	2843	2328	1851	1832	2003	2978	3498	3973	2030	2082	2226
MAX	3060	3230	2940	2220	2080	2850	3920	4110	4630	2580	2470	2410
MIN	2020	1970	800	1270	1690	959	2110	2550	2710	1290	1540	1770
ACFT	165300	169200	143100	113800	105400	123100	177200	215100	236400	124800	128000	132500

CAL YR 1983	TOTAL	860187	MEAN	2357	MAX	4540	MIN	172	ACFT	1706000		
WTR YR 1984	TOTAL	924609	MEAN	2526	MAX	4630	MIN	800	ACFT	1834000		

10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE

LOCATION.--Lat 42°00'47", long 111°55'14", in NW1/4NE1/4 sec.29, T.16 S., R.39 E., Franklin County, Idaho, Hydrologic Unit 16010202, on left bank 1,050 ft downstream from inlet canal to Cub River pumps, 1.1 mi downstream from Weston Creek, 1.8 mi upstream from Idaho-Utah State line, and 3.5 mi southeast of Weston.

DRAINAGE AREA.--4,881 mi^2.

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

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

GAGE.--Water-stage recorder. Altitude of gage is 4,420 ft from topographic map. Prior to Sept. 10, 1982 at datum 2.00 ft higher.

REMARKS.--Records fair. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--14 years, 1,360 ft^3/s, 985,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,870 ft^3/s June 14, 1984, gage height, 9.20 ft; minimum observed, 73 ft^3/s June 29, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,870 ft^3/s June 14, gage height, 9.20 ft; minimum daily, 840 ft^3/s Dec. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2490	2580	2780	2120	1960	1720	2810	2540	4070	2480	2500	2450
2	3240	2730	2990	1900	1880	1910	2810	3270	4080	2450	2690	2210
3	3110	2700	2270	1810	1940	1950	2740	3180	4040	2490	2670	2260
4	2760	2840	3030	1770	2120	1970	2740	3240	4020	2520	2910	2340
5	2660	2770	3030	1840	2180	1970	2400	3370	4080	2580	2610	2240
6	2810	3020	2840	2000	2110	2010	2350	3230	4110	2410	2660	2210
7	3080	3050	3000	2000	1820	2010	2880	3240	4060	2390	2640	2050
8	2540	3100	3130	1990	1830	2610	2850	2930	4330	2200	2510	2220
9	3030	3240	3120	1990	1830	2680	2980	3220	4700	2240	2210	2110
10	2590	3400	2740	1960	1830	2670	2930	3390	4770	2240	2200	2070
11	3030	3070	3180	1810	1830	2660	2950	3450	4750	2220	2130	2160
12	2340	3320	3010	1810	1820	2010	2970	3410	4780	2300	2100	2150
13	3010	3160	3150	1800	1770	2430	2800	3520	4770	2200	2400	2200
14	2340	2990	3110	1790	1870	2410	2830	3870	4790	2360	2390	2070
15	2620	3050	3170	1790	1860	2310	2940	4340	4760	2430	2090	2200
16	2630	3050	3080	2040	1930	2670	3220	4490	4780	2660	2220	1900
17	2990	3050	2670	1820	1950	3140	3830	4470	4780	2600	2190	2100
18	3020	3130	1950	1750	1880	2280	4390	4390	4790	2350	2240	2090
19	2530	3390	2290	1330	1840	2390	4530	4320	4780	2710	2430	2010
20	2980	3410	2160	1510	1880	2300	4530	4320	4750	2740	2790	2040
21	3040	3360	2100	1840	1890	2110	4370	4350	4690	2740	2840	2120
22	3040	3240	2000	1850	1930	2760	4230	4350	4600	2280	2350	1780
23	3060	2990	840	1890	1920	2520	4180	4260	4260	2650	2630	1960
24	3160	2350	1210	2080	1910	1660	4180	4260	3900	2660	2250	2200
25	3250	3030	1360	2080	1910	1630	4160	4280	3570	2580	2270	2040
26	3080	2840	2260	2330	1920	1630	4050	4180	3370	2940	2280	2180
27	3070	2840	2730	1780	2010	1610	3550	4110	2800	2730	2350	2230
28	2880	2680	2010	2070	2110	1700	3270	4080	2990	2790	2250	2060
29	1930	2520	1800	2110	2060	1820	2940	4050	2880	3040	2390	2120
30	2980	2590	1610	2130	---	2260	2790	4010	2730	2370	2410	1990
31	3070	---	2010	2040	---	2510	---	4050	---	2500	2310	---
TOTAL	88360	89490	76630	59030	55790	68310	100200	118170	125780	77850	74910	63760
MEAN	2850	2983	2472	1904	1924	2204	3340	3812	4193	2511	2416	2125
MAX	3250	3410	3180	2330	2180	3140	4530	4490	4790	3040	2910	2450
MIN	1930	2350	840	1330	1770	1610	2350	2540	2730	2200	2090	1780
ACFT	175300	177500	152000	117100	110700	135500	198700	234400	249500	154400	148600	126500

CAL YR 1983 TOTAL 970404 MEAN 2659 MAX 4830 MIN 406 ACFT 1925000
WTR YR 1984 TOTAL 998280 MEAN 2728 MAX 4790 MIN 840 ACFT 1980000

10093000 CUB RIVER NEAR PRESTON, ID

LOCATION.--Lat 42°08'25", long 111°41'26", in NW1/4NW1/4NE1/4 sec.8, T.15 S., R.41 E., Franklin County, Hydrologic Unit 16010202, Cache National Forest, on right bank 0.2 mi upstream from headgates of Cub River-Worm Creek Canal, 0.7 mi upstream from forest boundary, and 10 mi east of Preston.

DRAINAGE AREA.--31.6 mi^2.

PERIOD OF RECORD.--March 1940 to September 1952, October 1955 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 5,285.1 ft NGVD of 1929, unadjusted.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--41 years, 86.8 ft^3/s, 62,890 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 840 ft^3/s June 18, 1982, gage height, 2.80 ft; maximum gage height, 3.83 ft June 2, 1943; no flow for part of Jan. 29, 1965, result of snowslide.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 813 ft^3/s May 16, gage height, 2.82 ft; minimum, 19 ft^3/s Feb. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	49	53	36	29	26	39	82	729	554	96	54
2	50	48	51	35	29	26	42	97	695	509	91	53
3	54	48	51	35	29	26	46	111	630	462	89	53
4	53	50	46	35	29	26	50	112	662	426	87	51
5	54	52	44	34	29	26	56	116	682	399	85	52
6	54	45	45	34	29	26	68	113	641	382	84	51
7	53	47	45	34	29	32	68	104	606	369	82	51
8	50	47	44	34	29	34	70	110	560	355	80	50
9	51	46	44	33	28	35	69	137	512	336	78	49
10	54	45	45	33	30	32	60	168	475	313	76	48
11	56	47	44	33	28	26	54	179	433	292	75	50
12	55	47	45	33	28	26	48	222	405	273	73	48
13	55	51	44	33	29	27	46	343	416	258	73	48
14	56	49	44	33	31	33	47	496	500	246	71	47
15	55	47	43	33	29	35	60	666	595	230	70	47
16	55	46	42	33	29	34	95	776	630	216	69	47
17	56	51	42	32	28	31	134	652	656	203	67	46
18	55	52	42	31	28	30	164	499	653	193	66	45
19	54	49	41	30	27	29	161	519	660	183	65	44
20	54	49	41	30	27	31	139	638	668	174	63	44
21	53	48	41	31	27	33	114	696	634	169	62	46
22	52	48	40	31	27	31	107	620	643	161	61	44
23	53	53	40	31	27	31	110	611	623	150	60	49
24	54	53	41	31	27	31	108	662	607	141	58	45
25	51	53	39	31	27	31	102	686	617	133	59	43
26	50	52	39	31	26	31	90	602	609	126	58	44
27	50	50	38	30	26	31	81	624	634	122	56	43
28	48	51	38	30	26	31	78	629	625	115	55	42
29	49	51	38	29	26	31	76	648	612	111	55	42
30	49	50	38	29	---	33	78	720	593	105	55	42
31	50	---	37	29	---	36	---	750	---	100	54	---
TOTAL	1629	1474	1325	997	813	941	2460	13388	18005	7806	2173	1418
MEAN	52.5	49.1	42.7	32.2	28.0	30.4	82.0	432	600	252	70.1	47.3
MAX	56	53	53	36	31	36	164	776	729	554	96	54
MIN	46	45	37	29	26	26	39	82	405	100	54	42
ACFT	3230	2920	2630	1980	1610	1870	4880	26560	35710	15480	4310	2810

CAL YR 1983	TOTAL	46304	MEAN	127	MAX	740	MIN	23	ACFT	91840
WTR YR 1984	TOTAL	52429	MEAN	143	MAX	776	MIN	26	ACFT	104000

10099000 HIGH CREEK NEAR RICHMOND, UT

LOCATION.--Lat 41°58'40", long 111°44'55", in SW1/4SW1/4SE1/4 sec.5, T.14 N., R.2 E., Cache County, Cache National Forest, Hydrologic Unit 16010202, on right bank near forest boundary, 2 mi downstream from North Fork, and 5 mi northeast of Richmond.

DRAINAGE AREA.--16.2 mi^2.

PERIOD OF RECORD.--April to September 1944, April to September 1945 (monthly discharge only, published in WSP 1314), April 1946 to September 1952, February 1971 to September 1972, October 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,250 ft from topographic map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--13 years (1946-52, 1972, 1979-84), 35.9 ft^3/s, 26,010 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 485 ft^3/s May 30, 1983, gage height, 3.24 ft; maximum gage height, 3.67 ft Feb. 1-15, 1972, backwater from ice; minimum observed, 2.6 ft^3/s Jan. 5, 1950, result of ice jam upstream.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 330 ft^3/s May 16, peaks above base of 100 ft^3/s not determined; minimum daily, 12 ft^3/s Jan. 18-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	15	20	16	13	13	21	33	280	140	42	22
2	17	15	20	16	13	13	23	33	240	135	40	21
3	18	14	20	16	13	13	25	37	200	130	39	21
4	18	14	20	16	13	13	27	42	200	125	38	20
5	18	14	19	15	13	13	30	43	210	120	38	21
6	18	14	19	15	13	14	37	43	200	115	36	20
7	18	14	19	15	13	16	37	40	180	110	35	20
8	17	15	19	15	13	17	37	43	170	105	34	20
9	17	14	19	14	13	18	37	50	150	100	33	18
10	18	14	19	14	13	16	33	60	130	95	33	18
11	19	15	19	14	13	13	29	70	120	90	32	18
12	19	16	19	14	14	13	26	80	110	87	32	18
13	19	17	19	14	15	14	25	125	120	84	32	18
14	19	17	19	14	16	16	26	200	130	80	31	18
15	19	17	19	14	16	20	35	320	140	77	30	17
16	19	17	18	14	16	18	50	330	150	74	30	16
17	19	17	18	14	15	17	70	300	160	70	30	16
18	19	17	18	12	14	16	85	220	160	60	28	16
19	18	17	18	12	14	16	85	230	160	59	31	15
20	18	17	18	12	14	16	75	250	160	58	30	15
21	17	17	18	13	14	17	65	290	150	58	29	17
22	17	17	18	13	14	17	60	250	160	57	29	16
23	17	17	15	13	14	17	60	240	150	53	29	18
24	17	17	16	13	14	17	60	260	150	50	26	20
25	17	20	17	13	14	17	50	275	150	48	26	18
26	17	20	17	13	14	17	45	230	150	47	26	17
27	16	20	17	13	13	17	40	240	150	48	24	17
28	16	20	17	13	13	17	37	240	150	46	23	17
29	16	20	17	13	13	17	35	240	145	46	23	17
30	16	20	17	13	---	18	34	280	142	44	23	16
31	15	---	16	13	---	19	---	300	---	44	23	---
TOTAL	544	498	564	429	400	495	1299	5394	4867	2455	955	541
MEAN	17.5	16.6	18.2	13.8	13.8	16.0	43.3	174	162	79.2	30.8	18.0
MAX	19	20	20	16	16	20	85	330	280	140	42	22
MIN	15	14	15	12	13	13	21	33	110	44	23	15
ACFT	1080	988	1120	851	793	982	2580	10700	9650	4870	1890	1070

CAL YR 1983	TOTAL	17168	MEAN	47.0	MAX	391	MIN	10	ACFT	34050
WTR YR 1984	TOTAL	18441	MEAN	50.4	MAX	330	MIN	12	ACFT	36580

NOTE.--No gage height record Nov. 25 to Feb. 12, Feb. 15 to Apr. 26, May 5 to July 16.

10104700 LITTLE BEAR RIVER BELOW DAVENPORT CREEK, NEAR AVON, UT

LOCATION.--Lat 41°30'45", long 111°48'34", in NE1/4SW1/4SW1/4 sec.14, T.9 N., R.1 E., Cache County, Hydrologic Unit 16010203, on right bank 0.65 mi downstream from Davenport Creek and 1.5 mi south of Avon.

DRAINAGE AREA.--61.6 mi^2.

PERIOD OF RECORD.--October 1960 to current year. Published as "10105700 South Fork Little Bear River near Avon," 1960-62.

REVISED RECORDS.--WRD UT-74-1: Drainage area. WDR UT-82-1: 1980-81 (M).

GAGE.--Water-stage recorder. Altitude of gage is 5,020 ft from topographic map.

REMARKS.--Records good. A few small diversions for irrigation above station.

AVERAGE DISCHARGE.--24 years, 59.9 ft^3/s, 43,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,180 ft^3/s Apr. 11, 1982, gage height, 4.43 ft; minimum, 6.3 ft^3/s Feb. 3, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 673 ft^3/s May 14, gage height, 2.97 ft; minimum daily, 40 ft^3/s Nov. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	48	54	58	44	47	107	237	380	115	68	53
2	122	47	53	53	42	47	102	320	322	115	67	51
3	65	47	67	57	43	47	106	291	308	114	66	51
4	53	46	77	57	43	47	100	273	276	111	65	50
5	50	46	70	55	43	45	124	259	395	108	63	51
6	48	46	67	55	43	46	161	218	279	106	62	56
7	46	48	71	55	43	46	142	209	249	103	61	52
8	44	50	81	55	42	47	167	229	252	101	60	50
9	44	48	81	54	42	50	170	263	226	100	60	49
10	65	53	103	49	44	51	119	286	212	97	59	48
11	61	63	81	52	43	54	109	303	205	97	61	56
12	51	55	79	54	43	54	103	350	173	96	60	51
13	50	72	70	53	47	62	109	395	160	95	58	48
14	71	49	68	52	76	107	119	482	178	93	56	47
15	58	42	67	53	63	82	167	565	205	90	58	47
16	52	40	65	52	58	74	246	463	210	86	59	47
17	51	55	63	48	56	66	349	383	196	84	58	43
18	50	62	64	44	53	59	402	338	180	82	56	45
19	49	44	62	47	50	59	349	338	163	80	59	43
20	48	44	58	45	47	81	249	369	152	80	58	44
21	47	44	53	49	50	80	205	440	146	91	55	49
22	46	42	52	51	52	68	199	402	138	86	54	46
23	47	41	45	50	49	73	244	397	134	80	60	51
24	53	43	48	48	50	79	292	428	132	77	55	52
25	47	64	55	49	48	77	266	374	130	76	56	49
26	47	51	63	48	47	74	215	344	128	75	56	49
27	46	47	69	47	47	74	206	363	126	74	54	49
28	46	46	59	46	47	75	179	338	122	72	53	49
29	47	49	56	46	47	84	178	344	116	75	53	48
30	46	48	62	42	---	94	188	358	118	71	53	48
31	51	---	63	42	---	105	---	414	---	69	53	---
TOTAL	1669	1480	2026	1566	1402	2054	5672	10773	6011	2799	1818	1472
MEAN	53.8	49.3	65.4	50.5	48.3	66.3	189	348	200	90.3	58.6	49.1
MAX	122	72	103	58	76	107	402	565	395	115	68	56
MIN	44	40	45	42	42	45	100	209	116	69	53	43
ACFT	3310	2940	4020	3110	2780	4070	11250	21370	11920	5550	3610	2920

CAL YR 1983	TOTAL	38021	MEAN	104	MAX	508	MIN	27	ACFT	75410
WTR YR 1984	TOTAL	38742	MEAN	106	MAX	565	MIN	40	ACFT	76840

10104900 EAST FORK LITTLE BEAR RIVER ABOVE RESERVOIR, NEAR AVON, UT

LOCATION.--Lat 41°31'06", long 111°42'49", in SE1/4NW1/4NW1/4 sec.15, T.9 N., R.2 E., Cache County, Hydrologic Unit 16010203, on right bank 1.2 mi upstream from Porcupine Creek, 1.7 mi upstream from Porcupine Dam, 5.2 mi east of Avon, and 7.2 mi southeast of Paradise.

DRAINAGE AREA.--56.7 mi^2.

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

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,398 ft from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--21 years, 38.9 ft^3/s, 28,180 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,110 ft^3/s May 12, 1984, gage height, 3.98 ft; minimum, 2.2 ft^3/s Feb. 26, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,110 ft^3/s May 12, gage height, 3.98 ft; minimum, 13 ft^3/s Nov. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	15	19	23	18	19	39	180	229	49	27	18
2	27	15	19	20	17	20	39	210	200	47	26	18
3	28	15	19	23	17	20	39	238	185	44	25	18
4	21	15	19	23	18	21	41	257	170	42	25	17
5	20	15	19	23	18	20	47	255	173	41	24	17
6	18	15	20	23	18	20	60	219	159	40	24	19
7	18	15	21	23	19	20	67	206	160	39	24	18
8	17	15	21	23	19	20	77	271	174	38	23	18
9	16	14	22	24	20	22	71	401	167	37	23	17
10	21	14	23	24	20	23	82	537	155	37	23	17
11	23	15	23	24	20	23	71	631	149	36	23	18
12	20	15	23	23	20	23	64	716	136	35	23	18
13	19	16	23	23	20	23	60	748	127	34	22	17
14	20	16	24	23	22	28	61	677	119	33	22	16
15	20	16	24	21	20	31	76	772	113	32	22	16
16	19	16	23	20	21	32	141	610	108	32	22	16
17	18	17	24	20	20	32	281	525	103	31	21	16
18	18	18	23	18	20	30	434	465	97	31	21	15
19	18	17	24	20	19	29	346	442	91	31	21	15
20	17	18	23	20	18	31	242	454	85	30	21	14
21	16	17	23	20	19	37	203	455	81	33	20	16
22	16	16	23	20	20	36	208	391	77	32	20	15
23	16	16	22	19	19	34	250	361	72	30	22	16
24	16	17	23	19	19	37	317	356	68	29	20	17
25	16	18	24	19	19	38	308	323	65	28	20	15
26	15	17	25	18	19	38	216	289	61	28	20	15
27	15	17	24	18	18	37	192	276	58	28	19	15
28	15	18	21	18	18	36	180	257	55	29	19	15
29	15	17	22	17	19	37	177	238	54	32	18	14
30	15	17	23	17	---	36	161	227	51	29	18	14
31	15	---	23	17	---	37	---	231	---	28	18	---
TOTAL	565	482	689	643	554	890	4550	12218	3542	1065	676	490
MEAN	18.2	16.1	22.2	20.7	19.1	28.7	152	394	118	34.4	21.8	16.3
MAX	28	18	25	24	22	38	434	772	229	49	27	19
MIN	15	14	19	17	17	19	39	180	51	28	18	14
ACFT	1120	956	1370	1280	1100	1770	9020	24230	7030	2110	1340	972

CAL YR 1983	TOTAL	24688	MEAN	67.6	MAX	528	MIN	13	ACFT	48970
WTR YR 1984	TOTAL	26364	MEAN	72.0	MAX	772	MIN	14	ACFT	52290

10106000 LITTLE BEAR RIVER NEAR PARADISE, UT

LOCATION.--Lat 41°35'25", long 111°51'10", in NW1/4NE1/4SE1/4 sec.20, T.10 N., R.1 E., Cache County, Hydrologic Unit 16010203, on right bank 1 mi upstream from backwater of Hyrum Reservoir, 2 mi northwest of Paradise, and 5 mi downstream from East Fork.

DRAINAGE AREA.--198 mi^2.

PERIOD OF RECORD.--January 1937 to current year. Monthly discharge only for some periods, published in WSP 1314.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,680 ft from topographic map. Prior to Nov. 28, 1945, at site 150 ft upstream at different datum. Nov. 28, 1945 to May 19, 1952 at present site at datum 1.50 ft higher.

REMARKS.--Records fair. Diversions above station for irrigation of about 10,000 acres, most of which is below station. Flow regulated slightly by trout farm about 2 mi upstream and by Porcupine Reservoir, capacity 12,800 acre-ft, since 1962.

AVERAGE DISCHARGE.--47 years, 95.7 ft^3/s, 69,330 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,000 ft^3/s Feb. 11, 1962, gage height, 6.52 ft, from rating curve extended above 600 ft^3/s; minimum, 4 ft^3/s Aug. 14, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,810 ft^3/s May 15, gage height, 7.86 ft; minimum daily, 60 ft^3/s Jan. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	171	106	102	127	70	172	188	445	676	170	125	112
2	276	105	101	120	70	172	185	601	569	160	120	110
3	190	103	107	123	72	171	224	580	527	152	118	108
4	174	103	128	124	76	169	519	519	479	141	116	102
5	169	103	123	118	82	167	515	491	523	133	112	106
6	166	103	133	106	86	169	579	438	491	130	114	120
7	164	106	149	106	93	167	495	405	468	127	108	116
8	152	109	166	105	78	167	500	430	495	123	112	110
9	148	106	160	103	75	172	515	476	464	120	114	105
10	208	110	203	102	79	174	423	527	430	120	103	100
11	174	118	174	103	79	180	412	790	427	115	100	120
12	148	98	164	103	79	183	391	1340	398	114	98	110
13	126	140	149	103	81	190	408	1430	384	112	98	108
14	142	106	144	101	107	279	430	1510	374	108	98	100
15	128	94	142	98	110	260	445	1500	377	107	98	104
16	121	90	134	80	167	244	468	1320	377	105	101	110
17	118	110	134	70	171	225	548	1070	360	101	103	129
18	117	124	130	60	169	208	612	924	357	98	103	135
19	116	97	133	65	169	177	586	902	350	98	105	131
20	116	97	124	70	167	161	460	951	340	100	100	131
21	113	97	121	78	171	172	384	950	320	120	96	152
22	112	92	110	85	174	169	363	900	300	131	95	156
23	112	89	100	102	172	225	398	800	280	125	101	174
24	118	93	110	99	172	237	449	850	270	120	98	181
25	112	128	121	97	172	230	441	800	250	118	105	169
26	109	107	127	95	171	223	374	750	230	118	108	163
27	109	101	137	92	171	220	370	700	220	125	107	158
28	107	99	124	92	172	188	327	680	200	130	105	156
29	106	98	120	82	172	146	334	660	190	135	105	156
30	106	90	128	76	---	161	330	640	180	130	110	156
31	109	---	131	70	---	177	---	680	---	125	112	---
TOTAL	4337	3122	4129	2955	3627	5955	12673	25059	11306	3811	3288	3888
MEAN	140	104	133	95.3	125	192	422	808	377	123	106	130
MAX	276	140	203	127	174	279	612	1510	676	170	125	181
MIN	106	89	100	60	70	146	185	405	180	98	95	100
ACFT	8600	6190	8190	5860	7190	11810	25140	49700	22430	7560	6520	7710

CAL YR 1983	TOTAL	74022	MEAN	203	MAX	810	MIN	64	ACFT	146800
WTR YR 1984	TOTAL	84150	MEAN	230	MAX	1510	MIN	60	ACFT	166900

10108400 LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UT

LOCATION.--Lat 41°44'35", long 111°45'40", in NE1/4NW1/4NE1/4 sec.31, T.12 N., R.2 E., Cache County, Hydrologic Unit 16010203, Cache National Forest, on left bank 487 ft downstream from head and 3.8 mi east of Logan.

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

GAGE.--Water-stage recorder and 8-ft concrete Parshall flume. Datum of gage is 4,858.69 ft NGVD of 1929 (Bureau of Public Roads bench mark).

REMARKS.--Records good.

AVERAGE DISCHARGE.--21 years, 24.0 ft^3/s, 17,390 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 111 ft^3/s May 23, 1963, May 28, 1966; no flow at times most years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	.33	.06	.65	2.3	.56	.02	.00	22	62	35	60
2	16	.29	.06	.36	1.7	.66	.02	.00	43	62	47	60
3	16	.29	.06	.40	1.4	.70	.02	.00	27	63	47	59
4	5.8	.29	.06	.50	1.6	.50	.03	.00	31	63	47	58
5	.54	.24	.06	.44	1.5	.40	.02	.00	25	63	47	59
6	.45	.20	.06	.35	1.4	.50	.01	.00	11	63	48	58
7	.38	.19	.06	.38	1.5	.60	.00	.00	3.7	62	52	50
8	2.3	.13	.06	.34	1.4	.70	.00	.00	8.1	60	53	35
9	3.0	.13	.06	.40	1.3	.60	.00	.00	.07	60	58	34
10	2.1	.13	.06	.34	1.5	.66	.00	.00	.07	59	58	34
11	1.7	.11	.06	.42	1.3	.56	.00	.00	.07	59	62	33
12	1.6	.07	.06	.38	1.2	.80	.00	.00	14	59	62	33
13	1.5	.07	.06	.34	1.9	1.1	.00	.00	34	58	62	33
14	1.5	.07	.06	.31	2.1	.88	.00	.00	32	58	68	33
15	1.5	.07	.06	.29	.90	1.0	.01	.03	34	58	70	34
16	1.5	.07	.06	.27	1.0	.80	.02	.00	27	57	71	34
17	1.5	.13	.06	.31	1.2	.74	.00	.00	34	57	61	34
18	1.5	.13	.50	.25	.91	.40	.00	.00	28	56	53	34
19	1.5	.13	.50	.29	.70	.30	.00	17	30	57	53	33
20	1.5	.10	.47	.32	.53	.29	.00	17	35	60	53	36
21	1.5	.06	.43	.38	.60	.23	.00	12	40	57	52	43
22	1.5	.06	.54	.70	.70	.20	.00	30	43	49	52	43
23	1.5	.06	.48	1.1	.80	.14	.00	38	44	49	56	43
24	1.5	.06	.38	1.6	.60	.12	.00	31	43	49	58	43
25	1.4	.06	.47	1.9	.72	.07	.00	41	45	48	58	41
26	1.3	.06	.53	1.6	.52	.07	.00	43	55	48	56	38
27	1.1	.06	.55	1.3	.40	.07	.00	40	57	47	51	37
28	.72	.06	.49	1.1	.49	.07	.00	41	62	41	51	37
29	.57	.06	.35	.98	.50	.04	.00	38	62	33	52	37
30	.46	.06	.64	.88	---	.00	.00	35	62	32	57	36
31	.38	---	.73	1.9	---	.01	---	11	---	32	60	---
TOTAL	89.80	3.77	8.08	20.78	32.67	13.77	.15	394.03	952.01	1681	1710	1242
MEAN	2.90	.13	.26	.67	1.13	.44	.00	12.7	31.7	54.2	55.2	41.4
MAX	16	.33	.73	1.9	2.3	1.1	.03	43	62	63	71	60
MIN	.38	.06	.06	.25	.40	.00	.00	.00	.07	32	35	33
ACFT	178	7.5	16	41	65	27	.3	782	1890	3330	3390	2460

CAL YR 1983	TOTAL	5562.06	MEAN	15.2	MAX	68	MIN	.06	ACFT	11030
WTR YR 1984	TOTAL	6148.06	MEAN	16.8	MAX	71	MIN	.00	ACFT	12190

10109000 LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UT

LOCATION.--Lat 41°44'40", long 111°47'00", in NE1/4 sec.36, T.12 N., R.1 E., Cache County, Hydrologic Unit 16010203, on right bank 0.5 mi upstream from State dam, and 2.5 mi east of Logan.

DRAINAGE AREA.--214 mi^2.

PERIOD OF RECORD.--June 1896 to current year. Published as Logan River near Logan prior to 1913. Records since May 1913 equivalent to earlier records, if records for Utah Power & Light Co.'s tailrace near Logan (station 10108000) are added. Monthly discharge only for some periods, published in WSP 1314.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,680 ft from topographic map. Prior to May 7, 1913, nonrecording gage at various sites within 0.5 mi downstream at different datums. May 7, 1913, to Sept. 3, 1938, water-stage recorder at present site at different datums.

REMARKS.--Records good. Flow affected by regulation and diversions above station for power, irrigation, and municipal culinary supply. Utah Power and Light Co. stopped diverting water from river November 1970 at which time the tailrace station (station 10108000) was discontinued. During 1963, site for gaging station for Logan, Hyde Park and Smithfield Canal (station 10108400) was relocated. Records for combined flow since that time are equivalent to previous records. For record of combined flow, see following page.

AVERAGE DISCHARGE.--River only: 71 years (water years 1914-84), 137 ft^3/s, 99,260 acre-ft/yr.
Combined river and canal: 88 years, 275 ft^3/s, 199,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--River only: Maximum discharge, 2,000 ft^3/s Mar. 21, 1916, gage height, 5.6 ft; minimum daily, 6 ft^3/s Nov. 7, 1940.
Combined river and canal: Maximum discharge observed, 2,480 ft^3/s May 24, 1907; minimum daily, 50 ft^3/s Jan. 21, 1935.

EXTREMES FOR CURRENT YEAR.--River only: Maximum discharge, 1,980 ft^3/s May 31, gage height, 6.58 ft; minimum, 95 ft^3/s Mar. 8.
Combined river and canal: Maximum daily discharge, 1,850 ft^3/s June 1; minimum daily, 131 ft^3/s Mar. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	240	230	201	172	149	140	185	400	1830	1100	440	263
2	271	228	197	166	147	142	190	453	1710	1050	420	260
3	266	228	197	168	149	138	190	506	1730	1010	410	258
4	260	223	206	170	149	136	199	495	1610	968	403	253
5	260	218	192	168	149	140	204	524	1610	938	394	250
6	258	223	192	168	149	142	223	470	1480	900	388	260
7	253	225	201	166	147	132	240	440	1420	868	375	260
8	250	225	199	166	147	130	255	474	1340	845	369	271
9	250	215	194	164	149	145	287	568	1230	822	360	266
10	260	215	204	160	151	151	266	688	1180	791	348	260
11	263	218	197	166	151	151	255	768	1110	760	342	266
12	250	223	199	164	151	153	242	943	1050	725	338	271
13	253	223	194	164	149	153	235	1190	1030	704	330	260
14	255	218	197	158	154	168	235	1410	1090	683	321	258
15	255	213	197	156	151	177	253	1530	1190	667	315	253
16	253	206	188	154	149	172	312	1490	1280	642	318	250
17	248	213	188	156	149	168	403	1220	1300	619	321	247
18	242	218	181	138	149	166	520	1120	1310	599	318	247
19	242	208	185	147	142	166	546	1160	1310	580	315	245
20	242	211	181	145	142	166	491	1270	1320	564	318	242
21	237	208	179	147	142	172	426	1410	1310	564	309	247
22	237	204	170	156	142	172	443	1290	1280	561	304	247
23	240	201	160	158	142	172	495	1290	1250	538	301	253
24	240	199	160	158	142	177	513	1440	1230	520	293	260
25	240	206	168	164	145	177	498	1400	1200	509	293	245
26	235	197	179	162	144	179	450	1310	1200	498	293	245
27	235	194	181	156	140	179	416	1370	1180	488	287	242
28	232	197	170	154	138	177	391	1370	1170	488	282	240
29	232	199	164	151	142	179	394	1380	1140	488	279	240
30	230	190	177	149	---	181	372	1470	1140	467	271	237
31	230	---	181	149	---	181	---	1800	---	453	266	---
TOTAL	7659	6376	5779	4920	4250	4982	10129	32649	39230	21409	10321	7596
MEAN	247	213	186	159	147	161	338	1053	1308	691	333	253
MAX	271	230	206	172	154	181	546	1800	1830	1100	440	271
MIN	230	190	160	138	138	130	185	400	1030	453	266	237
ACFT	15190	12650	11460	9760	8430	9880	20090	64760	77810	42460	20470	15070

CAL YR 1983	TOTAL	131053	MEAN	359	MAX	1400	MIN	126	ACFT	259900
WTR YR 1984	TOTAL	155300	MEAN	424	MAX	1830	MIN	130	ACFT	308000

LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UT--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF LOGAN RIVER ABOVE STATE DAM AND LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UT

WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	256	225	199	178	153	143	179	400	1850	1190	475	317
2	287	223	194	168	151	145	183	453	1740	1140	466	314
3	282	223	194	170	152	141	183	502	1770	1090	455	311
4	266	218	204	173	153	139	190	491	1640	1050	449	304
5	261	213	192	170	153	140	194	520	1640	1010	438	303
6	258	218	192	170	152	143	213	470	1490	977	433	312
7	253	220	201	168	151	133	230	440	1410	940	424	304
8	252	223	199	168	150	131	245	477	1330	912	418	300
9	253	211	194	166	152	146	276	576	1210	887	414	294
10	262	211	201	162	156	152	255	700	1160	856	401	288
11	262	213	197	168	155	152	242	782	1090	823	399	293
12	300	218	199	166	155	152	230	963	1030	785	396	298
13	252	218	194	166	153	152	223	1220	1030	761	387	287
14	255	213	197	160	158	167	223	1440	1100	743	384	285
15	255	208	197	158	155	175	240	1560	1210	725	380	280
16	252	204	188	156	152	171	298	1520	1310	698	384	278
17	247	211	188	158	152	167	388	1240	1350	672	377	275
18	242	215	184	140	152	164	498	1150	1360	654	366	275
19	242	206	189	149	145	162	550	1200	1370	634	363	272
20	242	208	183	147	145	162	495	1320	1380	621	366	272
21	237	206	181	149	145	168	430	1450	1380	618	356	284
22	237	201	173	159	145	168	446	1350	1350	610	350	284
23	239	199	162	161	145	168	498	1360	1320	586	351	289
24	239	197	162	162	145	172	516	1500	1300	567	345	297
25	236	204	172	168	148	172	498	1470	1280	554	345	280
26	231	194	184	166	146	172	450	1380	1290	546	343	277
27	231	192	184	159	142	172	416	1440	1270	534	332	273
28	229	194	172	157	140	170	391	1440	1260	528	327	271
29	229	197	166	155	145	172	394	1450	1230	520	325	271
30	225	188	180	152	---	174	372	1540	1230	500	322	267
31	225	---	184	153	---	174	---	1800	---	486	320	---
TOTAL	7737	6271	5806	5002	4346	4919	9946	33604	40380	23217	11891	8655
MEAN	250	209	187	161	150	159	332	1084	1346	749	384	289
MAX	300	225	204	178	158	175	550	1800	1850	1190	475	317
MIN	225	188	162	140	140	131	179	400	1030	486	320	267
ACFT	15350	12440	11520	9920	8620	9760	19730	66650	80090	46050	23590	17170

CAL YR 1983	TOTAL	136550	MEAN	374	MAX	1420	MIN	128	ACFT	270800
WTR YR 1984	TOTAL	161774	MEAN	442	MAX	1850	MIN	131	ACFT	320900

10113500 BLACKSMITH FORK ABOVE UTAH POWER & LIGHT CO.'S DAM, NEAR HYRUM, UT

LOCATION.--Lat 41°37'18", long 111°44'42", in NW1/4SE1/4NE1/4 sec.8, T.10 N., R.2 E., Cache County, Hydrologic Unit 16010203 on right bank 0.8 mi upstream from diversion dam, and 6 mi east of Hyrum.

DRAINAGE AREA.--268 mi^2.

PERIOD OF RECORD.--October 1913 to current year. Monthly discharge only for October 1913, published in WSP 1314.

REVISED RECORDS.--WSP 1514: 1925. WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,000.60 ft NGVD of 1929, unadjusted. Prior to Oct. 2, 1934, at site 1,000 ft upstream at different datum.

REMARKS.--Records good. A few small diversions for irrigation of about 200 acres above station. Flow is slightly regulated by powerplant above station.

AVERAGE DISCHARGE.--71 years, 132 ft^3/s, 95,630 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,650 ft^3/s May 14, 1984, gage height, 7.12 ft; minimum, 4.7 ft^3/s Nov. 28, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 140 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 19	0200	726	5.79
May 14	0100	*1,650	7.12

Minimum daily, 129 ft^3/s Feb. 3-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	169	154	157	157	132	132	210	537	786	327	257	220
2	212	152	152	154	132	132	215	594	719	325	257	218
3	207	150	152	154	129	134	220	677	694	325	255	216
4	186	150	162	154	129	136	228	726	664	319	255	216
5	174	150	154	157	129	138	248	750	660	314	253	216
6	169	147	159	152	134	140	274	660	630	309	250	223
7	166	152	162	150	132	140	283	620	607	302	250	216
8	162	152	169	150	132	140	304	647	591	294	248	214
9	159	147	166	150	132	140	378	761	556	289	246	211
10	181	147	169	152	134	138	332	962	534	289	243	209
11	174	147	166	152	132	143	320	1010	524	282	243	223
12	171	147	169	152	132	150	307	1210	497	282	243	218
13	171	157	164	152	134	150	298	1400	764	284	239	211
14	169	154	164	150	140	176	304	1420	452	282	234	209
15	171	150	145	147	136	191	342	1530	464	277	236	207
16	169	147	152	145	136	191	408	1490	458	277	239	205
17	169	154	154	145	134	191	524	1230	440	274	236	203
18	169	164	154	143	134	181	688	1150	432	274	234	203
19	166	154	159	143	134	181	681	1090	432	272	236	198
20	166	154	157	141	132	196	607	1090	414	272	236	200
21	164	154	155	143	132	207	537	1110	392	284	234	211
22	164	150	153	145	134	199	540	1020	378	282	232	205
23	162	150	151	147	132	199	604	954	367	272	234	207
24	162	150	149	145	134	207	654	958	348	269	232	223
25	162	154	157	147	136	204	674	897	340	267	232	209
26	159	150	166	145	134	207	601	818	335	260	229	203
27	159	147	162	143	132	210	572	779	338	257	229	200
28	159	145	157	140	134	204	537	754	335	262	227	198
29	157	152	155	138	134	202	531	754	330	267	225	196
30	157	150	159	143	---	196	506	754	335	260	223	194
31	157	---	164	138	---	204	---	779	---	260	220	---
TOTAL	5242	4531	4914	4574	3861	5359	12927	29131	14816	8809	7407	6282
MEAN	169	151	159	148	133	173	431	940	494	284	239	209
MAX	212	164	169	157	140	210	688	1530	786	327	257	223
MIN	157	145	145	138	129	132	210	537	330	257	220	194
ACFT	10400	8990	9750	9070	7660	10630	25640	57780	29390	17470	14690	12460

CAL YR 1983	TOTAL	80671	MEAN	221	MAX	842	MIN	97	ACFT	160000
WTR YR 1984	TOTAL	107853	MEAN	295	MAX	1530	MIN	129	ACFT	213900

10117000 HAMMOND (EAST SIDE) CANAL NEAR COLLINSTON, UT

LOCATION.--Lat 41°49'51", long 112°03'24", in SE1/4 sec.27, T.13 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on right bank 3,600 ft downstream from Cutler Dam and 4 mi north of Collinston.

PERIOD OF RECORD.--June 1912 to current year. Prior to 1915, published as Hammond Ditch near Collingston. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Prior to May 22, 1914, nonrecording gage at same site and datum.

REMARKS.--Records good. Canal diverts from east side of Bear River at Cutler Dam for irrigation of about 58,000 acres below station in eastern Box Elder County.

COOPERATION.--Gage-height record and discharge measurements furnished by Utah Power & Light Co.

AVERAGE DISCHARGE.--70 years (water years 1913-81, 1983-84), 50.8 ft^3/s, 36,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 184 ft^3/s June 29, 1963, May 2, 1977; no flow at times in each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	.51	.00	.00	.00	.00	.00	.00	.00	.00	94	104
2	40	.00	.00	.00	.00	.00	.00	.00	.00	.00	95	106
3	35	.00	.00	.00	.00	.00	.00	.00	.00	4.0	95	106
4	13	.00	.00	.00	.00	.00	.00	.00	.00	120	106	106
5	12	.00	.00	.00	.00	.00	.00	.00	.00	150	117	105
6	12	.00	.00	.00	.00	.00	.00	.00	.00	164	123	105
7	11	.00	.00	.00	.00	.00	.00	.00	.00	168	136	107
8	11	.00	.00	.00	.00	.00	.00	.00	.00	169	139	106
9	9.4	.00	.00	.00	.00	.00	.00	.00	.00	168	138	106
10	9.3	.00	.00	.00	.00	.00	.00	.00	.00	166	138	105
11	9.2	.00	.00	.00	.00	.00	.00	.00	.00	166	141	99
12	9.1	.00	.00	.00	.00	.00	.00	.00	.00	168	147	100
13	9.0	.00	.00	.00	.00	.00	.00	.00	.00	166	144	99
14	8.9	.00	.00	.00	.00	.00	.00	.00	.00	169	140	98
15	8.9	.00	.00	.00	.00	.00	.00	.00	.00	164	138	97
16	8.9	.00	.00	.00	.00	.00	.00	.00	.00	162	130	97
17	8.4	.00	.00	.00	.00	.00	.00	.00	.00	168	132	95
18	7.8	.00	.00	.00	.00	.00	.00	.00	.00	167	129	91
19	7.2	.00	.00	.00	.00	.00	.00	.00	.00	167	121	92
20	6.6	.00	.00	.00	.00	.00	.00	.00	.00	169	116	92
21	6.0	.00	.00	.00	.00	.00	.00	.00	.00	154	113	92
22	5.2	.00	.00	.00	.00	.00	.00	.00	.00	127	113	88
23	4.6	.00	.00	.00	.00	.00	.00	68	.00	125	112	77
24	4.1	.00	.00	.00	.00	.00	.00	92	.00	126	112	70
25	3.6	.00	.00	.00	.00	.00	.00	53	.00	132	108	66
26	3.1	.00	.00	.00	.00	.00	.00	.00	.00	138	105	49
27	2.7	.00	.00	.00	.00	.00	.00	.00	.00	134	105	46
28	2.4	.00	.00	.00	.00	.00	.00	.00	.00	128	105	42
29	2.0	.00	.00	.00	.00	.00	.00	.00	.00	99	105	42
30	1.6	.00	.00	.00	---	.00	.00	.00	.00	95	105	41
31	1.3	---	.00	.00	---	.00	---	.00	---	95	106	---
TOTAL	314.3	.51	.00	.00	.00	.00	.00	213.00	.00	4128.00	3708	2629
MEAN	10.1	.02	.00	.00	.00	.00	.00	6.87	.00	133	120	87.6
MAX	41	.51	.00	.00	.00	.00	.00	92	.00	169	147	107
MIN	1.3	.00	.00	.00	.00	.00	.00	.00	.00	.00	94	41
ACFT	623	.0	.00	.00	.00	.00	.00	422	.00	8190	7350	5210

CAL YR 1983	TOTAL	12330.81	MEAN	33.8	MAX	169	MIN	.00	ACFT	24460
WTR YR 1984	TOTAL	10992.81	MEAN	30.0	MAX	169	MIN	.00	ACFT	21800

10117500 WEST SIDE CANAL NEAR COLLINSTON, UT

LOCATION.--Lat 41°49'55", 112°03'36", in SW1/4 sec.27, T.13 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on left bank 4,200 ft downstream from Cutler Dam and 4 mi north of Collinston.

PERIOD OF RECORD.--June 1912 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Prior to May 22, 1914, nonrecording gage at same site and datum.

REMARKS.--Records good. Canal diverts from west side of Bear River at Cutler Dam for irrigation of about 58,000 acres below station in eastern Box Elder County.

COOPERATION.--Gage-height record and discharge measurements furnished by Utah Power & Light Co.

AVERAGE DISCHARGE.--70 years (water years 1913-81, 1983-84), 246 ft^3/s, 178,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 784 ft^3/s July 12, 1984; no flow for periods in every year except 1914.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	233	134	.00	.00	.00	.00	.00	.00	423	756	417	527
2	169	92	.00	.00	.00	.00	.00	.00	392	755	421	532
3	99	40	.00	.00	.00	.00	.00	.00	372	749	498	556
4	233	34	.00	.00	.00	.00	.00	.00	346	747	568	577
5	325	31	.00	.00	.00	.00	.00	.00	186	753	567	577
6	275	21	.00	.00	.00	.00	.00	.00	83	757	592	561
7	197	16	.00	.00	.00	.00	.00	.00	28	759	629	540
8	194	15	.00	.00	.00	.00	.00	.00	20	761	702	507
9	193	15	.00	.00	.00	.00	.00	.00	15	768	746	508
10	193	14	.00	.00	.00	.00	.00	.00	65	774	750	509
11	192	13	.00	.00	.00	.00	.00	.00	334	773	751	511
12	191	13	.00	.00	.00	.00	.00	.00	336	784	751	514
13	191	12	.00	.00	.00	.00	.00	.00	408	773	752	485
14	190	11	.00	.00	.00	.00	.00	.00	488	748	753	484
15	190	10	.00	.00	.00	.00	.00	.00	497	743	756	482
16	189	9.8	.00	.00	.00	.00	.00	.00	501	757	759	482
17	187	9.3	.00	.00	.00	.00	.00	.00	511	760	763	482
18	183	8.8	.00	.00	.00	.00	.00	.00	562	761	764	484
19	180	8.3	.00	.00	.00	.00	.00	.00	598	770	741	485
20	179	7.8	.00	.00	.00	.00	.00	.00	626	762	716	484
21	175	7.3	.00	.00	.00	.00	.00	432	651	710	656	483
22	171	3.9	.00	.00	.00	.00	.00	520	698	563	460	478
23	167	.00	.00	.00	.00	.00	.00	512	728	429	256	435
24	163	.00	.00	.00	.00	.00	.00	492	722	439	512	410
25	159	.00	.00	.00	.00	.00	.00	481	736	492	511	413
26	155	.00	.00	.00	.00	.00	.00	469	756	556	517	416
27	151	.00	.00	.00	.00	.00	.00	459	760	558	513	365
28	147	.00	.00	.00	.00	.00	.00	439	756	555	514	322
29	143	.00	.00	.00	.00	.00	.00	447	758	391	520	325
30	140	.00	.00	.00	---	.00	.00	448	757	416	519	328
31	136	---	.00	.00	---	.00	---	430	---	417	526	---
TOTAL	5690	526.20	.00	.00	.00	.00	.00	5129.00	14113	20736	18900	14262
MEAN	184	17.5	.00	.00	.00	.00	.00	165	470	669	610	475
MAX	325	134	.00	.00	.00	.00	.00	520	760	784	764	577
MIN	99	.00	.00	.00	.00	.00	.00	.00	15	391	256	322
ACFT	11290	1040	.00	.00	.00	.00	.00	10170	27990	41130	37490	28290

CAL YR 1983	TOTAL	68486.20	MEAN	188	MAX	751	MIN	.00	ACFT	135800	
WTR YR 1984	TOTAL	79356.20	MEAN	217	MAX	784	MIN	.00	ACFT	157400	

10118000 BEAR RIVER NEAR COLLINSTON, UT

LOCATION.--Lat 41°50'03", long 112°03'16", in NW1/4SE1/4 sec.27, T.13 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on right bank 800 ft downstream from Cutler plant of Utah Power & Light Co., 2,000 ft downstream from Cutler Dam, and 5.5 mi north of Collinston.

DRAINAGE AREA.--6,267 mi^2.

PERIOD OF RECORD.--July 1889 to current year. Published as "at Collinston" prior to 1900. Monthly discharge only for some periods, published in WSP 1314.

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

GAGE.--Water-stage recorder. Datum of gage is 4,276.13 ft NGVD of 1929 (levels by Bureau of Reclamation). Prior to Nov. 8, 1913, nonrecording gage, and Nov. 8, 1913 to Sept. 10, 1938, water-stage recorder, at site 0.8 mi downstream at different datums.

REMARKS.--Records good. Natural flow of stream affected by storage reservoir, power developments, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Discharge measurements furnished by Utah Power & Light Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 11,600 ft^3/s June 7-10, 1909, gage height, 7.70 ft, site and datum then in use; minimum daily, 10 ft^3/s Aug. 4-12, 18-23, 1905; practically no flow at 2400 Aug. 5, 1920.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 11,200 ft^3/s May 18; minimum daily, 503 ft^3/s July 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3750	3850	3600	2830	3520	2960	3600	5560	7970	4720	3170	3090
2	3880	3930	4060	3010	3180	3030	3780	5270	8270	4480	3050	2640
3	3940	3930	4110	3180	2950	2990	4250	5070	8250	4140	3100	3100
4	3940	3930	4230	3810	2930	2910	4580	5470	8240	3830	3130	3100
5	4190	3940	4390	3850	2740	2890	4580	5940	8280	3560	3080	3050
6	4390	3910	4440	3760	2690	2900	4580	6130	8460	3360	3050	2960
7	4430	3890	4610	3750	3010	2890	4590	6410	8570	3210	3020	2400
8	4420	3960	4760	3780	3030	3060	4590	6410	8480	3100	2890	3040
9	4410	4030	4960	3910	3040	3040	4870	6390	8360	2960	2750	3040
10	4400	4170	5090	4070	3000	3220	5320	6270	8370	2960	2460	3020
11	4400	4310	5100	4120	2970	3500	5480	6360	8360	2640	1750	2730
12	4310	4310	5270	4110	2930	3680	5450	6070	8270	1610	2150	2480
13	4240	4320	5460	4000	2910	3710	5350	6990	7880	2920	1890	3410
14	4090	4520	5570	3400	3020	3430	5170	8140	7380	2280	2020	3410
15	3940	4560	5550	3450	3170	3730	5020	8410	7370	2840	1930	3470
16	3940	4470	5350	3340	3260	4800	4680	9320	7450	2770	1880	3400
17	3840	4420	5040	2700	3320	5310	4550	10500	7600	1990	2120	3270
18	3370	4310	5030	2260	3480	5650	4800	11200	7870	2840	2300	3120
19	3740	4180	4590	3000	3600	5910	5590	11000	7930	503	2640	3080
20	3870	4240	3880	2830	3620	5780	6900	10000	7910	1650	2310	3100
21	3890	4310	3500	2140	3480	5590	7810	9210	7870	1800	2630	3100
22	3890	4380	2920	2680	3250	5540	7830	9170	7770	1740	2360	3140
23	3970	4550	2260	2660	3130	5350	7590	9030	7520	3020	3160	3310
24	4110	4590	2830	2150	3120	5210	7180	8710	7270	3020	2900	3630
25	4110	4580	2330	2520	3100	5190	7030	8680	6910	3020	2850	3830
26	4110	4580	2570	3040	3110	4930	7020	8780	6380	3060	2280	3830
27	4180	4570	2580	3430	3110	4520	6910	8670	5680	3060	3020	3830
28	4240	4560	2710	3720	3050	4300	6610	8380	5410	3010	3010	3830
29	4230	4470	2680	3800	3010	4200	6020	8090	4870	3220	2490	3810
30	4050	4340	2750	3770	---	3940	5570	7810	4850	3510	3100	3760
31	3610	---	2900	3700	---	3770	---	7670	---	3440	2380	---
TOTAL	125880	128110	125120	102770	90730	127930	167300	241110	225800	90263	80870	96980
MEAN	4061	4270	4036	3315	3129	4127	5577	7778	7527	2912	2609	3233
MAX	4430	4590	5570	4120	3620	5910	7830	11200	8570	4720	3170	3830
MIN	3370	3850	2260	2140	2690	2890	3600	5070	4850	503	1750	2400
ACFT	249700	254100	248200	203800	180000	253700	331800	478200	447900	179000	160400	192400

CAL YR 1983	TOTAL	1443154	MEAN	3954	MAX	8390	MIN	650	ACFT	2862000		
WTR YR 1984	TOTAL	1602863	MEAN	4379	MAX	11200	MIN	503	ACFT	3179000		

10126000 BEAR RIVER NEAR CORINNE, UT

LOCATION.--Lat 41°34'35", long 112°06'00", in NE1/4SE1/4NE1/4 sec.30, T.10 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on right bank 1.2 mi downstream from Salt Creek, 2.0 mi northeast of Corinne, and 2.8 mi downstream from Malad River.

DRAINAGE AREA.--7,029 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1949 to September 1957, October 1963 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 4,204.6 ft, unadjusted. Auxiliary nonrecording gage 7,800 ft downstream July 27, 1950 to Nov. 21, 1955.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by upstream reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--29 years, 1,910 ft^3/s, 1,384,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,770 ft^3/s May 19, 1984, gage height, 17.50 ft; minimum daily, 72 ft^3/s Aug. 20, 21, 26, Sept. 8, 1964, July 5, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,770 ft^3/s May 19, gage height, 17.50 ft; minimum daily, 1,430 ft^3/s July 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3770	4180	4560	3200	4100	3600	4910	6850	9400	5230	3780	3000
2	3990	3890	4120	3100	3900	3600	4760	6630	9410	5050	3560	3040
3	4130	4020	4270	3300	3600	3700	4880	6310	9870	4810	3420	3110
4	4130	4080	4420	3500	3300	3600	5230	6060	10100	4480	3450	3270
5	4140	4090	4480	4200	3300	3500	5450	6250	10400	4190	3460	3300
6	4350	4090	4620	4200	3100	3500	5490	6560	10500	3930	3410	3270
7	4530	4100	4690	4100	3000	3500	5510	6790	10700	3750	3330	2890
8	4570	4060	4870	4100	3300	3500	5500	6890	11000	3580	3260	3030
9	4590	4070	5020	4100	3400	3620	5550	6910	11000	3470	3120	3210
10	4590	4110	5270	4300	3400	3580	5810	6940	10700	3270	2850	3230
11	4570	4230	5430	4500	3400	3850	6150	6910	10600	2950	2460	3230
12	4560	4370	5480	4600	3300	4150	6330	6740	10600	2810	2370	2750
13	4490	4450	5630	4600	3300	4390	6370	6890	10400	2760	2300	2970
14	4460	4460	5840	4400	3300	4490	6280	7590	9930	3020	2310	3460
15	4270	4550	6010	3800	3400	4430	6130	9010	9120	2910	2340	3580
16	4150	4660	6010	3800	3500	4900	5930	10700	8600	3200	2360	3620
17	4120	4610	5810	3700	3650	5770	5600	12400	8510	2680	2320	3590
18	4040	4570	5510	3100	3800	6320	5460	13700	8680	2900	2660	3450
19	3700	4440	5380	2600	3900	6750	5720	14300	9150	2630	2730	3350
20	3780	4360	4900	3300	4100	7090	6320	14000	9380	1430	2810	3330
21	3980	4410	4400	3100	4100	7270	7130	13600	9440	2110	2770	3390
22	4050	4460	3900	2400	4000	7180	8630	12800	9360	2280	2700	3350
23	4070	4550	3400	3000	3900	7110	9840	12500	9210	2890	3070	3460
24	4110	4710	2500	3000	3700	6970	10100	12300	8830	3360	3220	3720
25	4210	4800	3100	2400	3700	6760	9650	11900	8380	3380	3160	3960
26	4270	4780	2600	2800	3700	6650	9090	11600	7780	3430	2880	4040
27	4280	4750	2800	3300	3700	6390	8800	11600	7120	3480	2980	4050
28	4300	4750	2900	3800	3700	5880	8530	11500	6480	3450	3250	4040
29	4380	4750	3000	4100	3700	5580	8150	11000	5950	3520	2970	4020
30	4420	4670	2900	4200	---	5360	7400	10400	5420	3770	3080	3990
31	4430	---	3000	4200	---	5130	---	9900	---	3880	2920	---
TOTAL	131430	132020	136820	112800	104250	158120	200700	297530	276020	104600	91300	102700
MEAN	4240	4401	4414	3639	3595	5101	6690	9598	9201	3374	2945	3423
MAX	4590	4800	6010	4600	4100	7270	10100	14300	11000	5230	3780	4050
MIN	3700	3890	2500	2400	3000	3500	4760	6060	5420	1430	2300	2750
ACFT	260700	261900	271400	223700	206800	313600	398100	590200	547500	207500	181100	203700

CAL YR 1983 TOTAL 1574270 MEAN 4313 MAX 9750 MIN 1270 ACFT 3123000
WTR YR 1984 TOTAL 1848290 MEAN 5050 MAX 14300 MIN 1430 ACFT 3666000

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.
WATER TEMPERATURES: October 1974 to September 1981, once daily.
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 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV 30...	1100	4660	1000	8.0	-6.0	0.0	12	10.2	654	540
MAR 08...	1030	3430	1060	8.0	5.0	2.0	11	11.6	660	180
MAY 23...	0900	12500	580	7.9	15.0	9.0	55	6.8	627	240
SEP 28...	1000	4040	890	8.1	11.5	12.5	34	8.6	660	50

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)
NOV 30...	5100	310	6.2	60	39	82	36	2.1	7.8	280
MAR 08...	900	310	6.2	59	40	96	39	2.4	9.0	300
MAY 23...	230	210	4.2	52	19	38	28	1.2	4.8	190
SEP 28...	80	290	5.7	57	35	78	36	2.1	9.0	260

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
NOV 30...	60	110	0.2	12	533	538	0.72	6710	0.76	0.11
MAR 08...	63	140	0.3	13	611	598	0.83	5660	0.84	0.09
MAY 23...	25	52	0.2	10	316	318	0.43	10100	0.52	0.11
SEP 28...	54	110	0.3	13	515	511	0.7	5620	0.85	0.13

10126000 BEAR RIVER NEAR CORINNE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
NOV 30...	0.14	1.2	1.20	1.2	5.3	0.10	0.31	0.05	0.07	0.21
MAR 08...	0.12	0.6	0.6	0.6	2.7	0.26	0.8	0.05	<0.01	0.03
MAY 23...	0.14	1.5	1.50	1.5	6.6	0.17	--	0.17	0.05	0.15
SEP 28...	0.17	0.7	0.7	0.7	3.1	0.18	--	0.07	0.06	0.18

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV 30...	1100	20	3	78.00	<0.50	<1	<1	<3.00	2	10	5
MAR 08...	1030	10	3	77.00	<0.50	<1	1	<3.00	2	10	<1
MAY 23...	0900	300	2	61.00	1.00	2	1	<3.00	3	30	7
SEP 28...	1000	20	2	82.00	0.00	<1	3	<3.00	2	10	4

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV 30...	70	6	0.2	<10	1	1	<1	400	<6.0	20
MAR 08...	70	15	0.4	<10	<1	<1	<1	420	<6.0	30
MAY 23...	40	6	0.8	<10	1	<1	<1	260	<6.0	30
SEP 28...	60	3	<0.1	<10	<1	<1	<1	390	<6.0	10

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
SEP 28...	1000	4040	12.5	95	266	2900

10126180 SULPHUR CREEK NEAR CORINNE, UT

LOCATION.--Lat 41°34'25", long 112°13'07", in SW1/4SE1/4NE1/4 sec.30, T.10 N., R.3 W., Box Elder County, Hydrologic Unit 16010204, on right bank 100 ft downstream from bridge on State Highway 83 and 6 mi northwest of Corinne.

DRAINAGE AREA.--15.4 mi^2.

PERIOD OF RECORD.--September 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,228.8 ft.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--13 years, 66.0 ft^3/s, 47,820 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 296 ft^3/s Mar. 21, 1984, gage height, 3.44 ft; minimum, 8.6 ft^3/s Feb. 8, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 296 ft^3/s Mar. 21, gage height, 3.44 ft; minimum, 30 ft^3/s Jan. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	84	90	47	40	48	47	37	80	70	105	81
2	87	83	78	46	40	48	45	40	77	70	101	84
3	109	83	74	44	40	48	51	46	78	69	100	85
4	116	80	79	45	40	49	49	46	84	67	96	84
5	110	79	80	46	40	52	47	45	106	65	95	82
6	106	78	80	45	40	49	47	45	131	63	93	80
7	106	79	84	44	40	50	50	44	135	63	86	79
8	106	80	89	44	40	53	47	44	125	65	78	78
9	107	79	93	46	40	56	49	44	118	63	71	84
10	107	79	99	46	41	62	50	44	116	64	76	87
11	104	78	108	46	42	72	51	43	114	65	79	89
12	100	77	113	46	43	89	47	44	114	65	79	92
13	94	66	116	45	43	71	45	43	112	64	76	94
14	92	73	118	42	49	103	44	43	112	64	72	94
15	91	74	123	38	50	133	41	42	112	65	71	91
16	89	83	118	33	50	146	40	43	108	68	77	91
17	87	89	113	31	50	157	38	43	104	67	93	88
18	85	71	104	30	51	163	37	47	100	65	94	85
19	83	73	98	32	50	175	49	54	97	64	91	81
20	82	76	92	35	50	218	48	67	99	67	97	80
21	81	78	85	37	51	268	43	67	101	67	100	96
22	80	75	75	39	50	248	41	72	99	88	96	95
23	79	72	68	42	50	225	40	74	93	107	91	96
24	84	72	71	45	49	205	39	78	88	106	83	106
25	83	77	60	48	48	172	37	79	84	98	88	107
26	83	80	54	49	49	148	38	78	82	100	89	106
27	82	83	50	46	48	127	37	76	79	107	94	106
28	82	78	49	49	48	90	36	75	75	97	91	106
29	83	77	47	48	48	69	37	74	73	102	83	96
30	82	85	49	44	---	58	37	73	71	121	82	92
31	82	---	48	41	---	51	---	76	---	115	82	---
TOTAL	2842	2341	2605	1319	1320	3503	1307	1726	2967	2421	2709	2715
MEAN	91.7	78.0	84.0	42.5	45.5	113	43.6	55.7	98.9	78.1	87.4	90.5
MAX	116	89	123	49	51	268	51	79	135	121	105	107
MIN	79	66	47	30	40	48	36	37	71	63	71	78
ACFT	5640	4640	5170	2620	2620	6950	2590	3420	5890	4800	5370	5390

CAL YR 1983	TOTAL	24286	MEAN	66.5	MAX	228	MIN	12	ACFT	48170
WTR YR 1984	TOTAL	27775	MEAN	75.9	MAX	268	MIN	30	ACFT	55090

10127040 SALT SPRING NEAR TREMONTON, UT

LOCATION.--Lat 41°42'44", long 112°13'38", in SW1/4SE1/4, sec.6, T.11 N., R.3 W., Box Elder County, Hydrologic Unit 16010204, 3 mi west of Tremonton.

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

REMARKS.--Records fair. Record is computed by subtracting water diverted from the West Side Canal into Salt Spring from the record for station 10127050.

AVERAGE DISCHARGE.--5 years, 23.0 ft^3/s, 16,660 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 36 ft^3/s Apr. 27-May 7, 1984; minimum daily, 17 ft^3/s Nov. 14-20, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 36 ft^3/s Apr. 27-May 7; minimum daily, 20 ft^3/s Oct. 1-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	21	22	24	26	28	32	36	33	29	28	28
2	20	21	22	24	26	28	32	36	33	29	28	28
3	20	21	22	24	26	28	32	36	33	29	28	28
4	20	21	22	24	26	28	32	36	32	29	28	28
5	20	21	22	24	26	28	32	36	32	29	28	28
6	20	21	23	24	26	28	33	36	32	29	28	28
7	20	21	23	24	26	28	33	36	32	29	28	28
8	20	21	23	24	26	28	33	35	32	29	28	28
9	20	21	23	24	26	28	33	35	32	29	28	28
10	20	21	23	24	26	28	33	35	32	29	28	28
11	20	21	23	25	26	28	33	35	31	29	28	28
12	20	21	23	25	26	29	34	35	31	29	28	28
13	20	21	23	25	27	29	34	35	31	29	28	28
14	20	21	23	25	27	29	34	35	31	29	28	28
15	20	21	23	25	27	29	34	35	31	29	28	28
16	20	21	23	25	27	29	34	35	31	29	28	28
17	20	22	23	25	27	29	34	34	31	29	28	28
18	20	22	23	25	27	30	34	34	30	29	28	28
19	20	22	23	25	27	30	34	34	30	29	28	28
20	20	22	23	25	27	30	34	34	30	29	28	28
21	20	22	23	25	27	30	35	34	30	29	28	28
22	20	22	23	25	27	30	35	34	30	29	28	28
23	20	22	23	25	27	30	35	34	30	29	28	28
24	20	22	24	25	27	31	35	34	30	29	28	28
25	20	22	24	25	27	31	35	34	29	29	28	28
26	20	22	24	26	28	31	35	33	29	28	28	28
27	20	22	24	26	28	31	36	33	29	28	28	28
28	20	22	24	26	28	31	36	33	29	28	28	28
29	20	22	24	26	28	31	36	33	29	28	28	28
30	21	22	24	26	---	32	36	33	29	28	28	28
31	21	---	24	26	---	32	---	33	---	28	28	---
TOTAL	622	644	716	771	775	912	1018	1071	924	893	868	840
MEAN	20.1	21.5	23.1	24.9	26.7	29.4	33.9	34.5	30.8	28.8	28.0	28.0
MAX	21	22	24	26	28	32	36	36	33	29	28	28
MIN	20	21	22	24	26	28	32	33	29	28	28	28
ACFT	1230	1280	1420	1530	1540	1810	2020	2120	1830	1770	1720	1670

CAL YR 1983	TOTAL	8372	MEAN	22.9	MAX	27	MIN	20	ACFT	16610
WTR YR 1984	TOTAL	10054	MEAN	27.5	MAX	36	MIN	20	ACFT	19940

10127050 SALT CREEK BELOW SALT SPRING, NEAR TREMONTON, UT

LOCATION.--Lat 41°42'41", long 112°13'36", in SW1/4SE1/4, sec.6, T.11 N., R.3 W., Box Elder County, Hydrologic Unit 16010204, on right bank 250 ft below Salt Spring and 3 mi west of Tremonton.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,280 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--5 years, 43.9 ft^3/s, 31,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 184 ft^3/s Feb. 18, 1980, gage height, 6.12 ft; minimum, 19 ft^3/s Apr. 29, 30, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 158 ft^3/s July 22, gage height, 5.13 ft; minimum daily, 28 ft^3/s Feb. 27-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	71	31	32	30	28	44	39	41	37	109	67
2	93	70	31	32	30	28	44	40	45	37	98	54
3	72	42	31	32	30	28	39	39	42	37	67	56
4	66	35	32	32	30	29	39	38	52	38	92	54
5	108	34	34	32	30	28	38	36	75	39	92	51
6	108	33	33	32	30	28	40	36	116	38	62	71
7	84	32	32	32	29	29	42	36	132	39	50	88
8	79	32	34	32	29	28	40	36	134	41	49	88
9	78	31	35	32	29	29	43	36	132	41	70	67
10	79	32	35	32	29	29	44	36	131	45	70	68
11	78	32	37	32	29	30	47	36	131	53	81	78
12	76	31	39	32	29	33	41	36	130	57	95	88
13	76	31	38	31	29	39	40	36	120	61	89	75
14	76	31	37	32	30	51	39	36	130	57	81	61
15	76	31	36	32	29	61	38	36	120	58	80	59
16	77	31	37	31	29	73	38	36	91	66	89	60
17	77	31	35	31	29	79	38	36	71	62	98	60
18	77	31	34	31	29	72	38	36	48	58	97	59
19	77	31	35	30	29	72	39	61	49	67	116	59
20	75	32	34	30	29	89	47	124	45	87	115	64
21	73	45	33	30	29	100	42	105	38	118	97	81
22	72	70	32	30	29	76	40	43	40	142	88	79
23	73	62	32	30	29	71	40	54	48	113	65	96
24	73	35	30	30	28	72	39	44	44	84	87	111
25	73	37	31	30	29	65	39	36	42	85	82	112
26	73	32	31	30	29	69	40	35	45	133	91	112
27	73	32	31	31	28	73	40	35	46	136	97	109
28	72	35	31	32	28	67	39	35	38	137	90	101
29	72	32	30	31	28	59	39	35	37	118	79	110
30	72	32	31	31	---	53	38	35	38	113	85	111
31	72	---	32	31	---	45	---	35	---	111	84	---
TOTAL	2418	1136	1034	968	844	1633	1214	1337	2251	2308	2645	2349
MEAN	78.0	37.9	33.4	31.2	29.1	52.7	40.5	43.1	75.0	74.5	85.3	78.3
MAX	108	71	39	32	30	100	47	124	134	142	116	112
MIN	66	31	30	30	28	28	38	35	37	37	49	51
ACFT	4800	2250	2050	1920	1670	3240	2410	2650	4460	4580	5250	4660

CAL YR 1983	TOTAL	16290	MEAN	44.6	MAX	123	MIN	22	ACFT	32310
WTR YR 1984	TOTAL	20137	MEAN	55.0	MAX	142	MIN	28	ACFT	39940

10127100 BLACK SLOUGH NEAR BRIGHAM CITY, UT

LOCATION.--Lat 41°30'36", long 112°03'34", in SW1/4SE1/4SW1/4 sec.16, T.9 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on left bank 20 ft above bridge on Highway 523 and 3 mi west of Brigham City.

DRAINAGE AREA.--31.1 mi^2.

PERIOD OF RECORD.--September 1971 to current year.

REVISED RECORDS.--WDR UT-82-1: 1976-81 (M).

GAGE.--Water-stage recorder. Altitude of gage is 4,210 ft from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--13 years, 52.9 ft^3/s, 38,330 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 323 ft^3/s Mar. 21, 1984, gage height, 4.16 ft; minimum, 2.7 ft^3/s July 14, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 323 ft^3/s Mar. 21, gage height, 4.16 ft; minimum daily, 22 ft^3/s July 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	94	103	139	136	97	167	166	75	44	66	59
2	149	95	105	137	127	96	163	176	82	44	65	59
3	164	93	114	136	127	97	160	181	73	42	63	60
4	155	92	141	137	122	98	156	167	73	41	60	61
5	148	90	145	136	116	95	153	158	83	40	59	60
6	147	90	145	135	112	89	153	153	92	39	58	64
7	141	90	143	134	107	91	164	150	116	39	54	69
8	135	96	163	132	105	105	158	148	129	35	51	72
9	129	96	168	132	104	114	178	169	147	35	48	73
10	135	92	188	133	107	123	177	175	149	31	48	71
11	139	92	197	131	96	138	179	178	148	29	48	70
12	133	94	192	131	90	155	175	174	141	26	51	74
13	131	95	193	131	89	166	170	169	133	25	52	73
14	138	96	208	121	107	200	165	168	124	22	50	70
15	139	83	224	97	115	236	161	165	112	24	48	67
16	135	74	209	87	118	258	159	157	107	26	47	62
17	129	72	198	90	118	263	162	147	101	26	54	59
18	125	72	189	151	114	256	169	143	104	28	55	57
19	121	72	183	139	113	260	186	116	95	27	53	54
20	117	72	182	147	109	277	193	85	101	36	55	53
21	114	76	205	172	108	306	182	79	88	45	57	58
22	111	75	249	157	109	297	177	71	81	52	55	62
23	109	74	235	135	105	281	178	62	76	60	59	66
24	110	74	213	128	102	264	178	55	74	62	62	76
25	109	84	229	126	102	249	177	55	71	62	61	81
26	106	94	258	128	100	233	174	56	57	60	61	82
27	103	89	253	134	99	218	169	48	53	57	60	82
28	100	89	206	139	98	207	163	46	53	53	59	80
29	98	89	192	140	97	194	159	44	48	65	57	78
30	95	88	167	138	---	188	158	52	45	78	58	76
31	93	---	148	137	---	169	---	61	---	69	58	---
TOTAL	3894	2582	5745	4110	3152	5820	5063	3774	2831	1322	1732	2028
MEAN	126	86.1	185	133	109	188	169	122	94.4	42.6	55.9	67.6
MAX	164	96	258	172	136	306	193	181	149	78	66	82
MIN	93	72	103	87	89	89	153	44	45	22	47	53
ACFT	7720	5120	11400	8150	6250	11540	10040	7490	5620	2620	3440	4020

CAL YR 1983	TOTAL	35420	MEAN	97.0	MAX	258	MIN	26	ACFT	70260
WTR YR 1984	TOTAL	42053	MEAN	115	MAX	306	MIN	22	ACFT	83410

10127110 BEAR RIVER BASIN OUTFLOW ACROSS STATE HIGHWAY 83, NEAR CORINNE, UT

LOCATION.--Records of discharge are collected at 3 continuous recording gaging stations (see stations 10126000, 10126180, and 10127100) and 46 culvert or bridge openings which cross State Highway 83 from Brigham City on the east to the base of Little Mountain 7.2 mi west of Corinne.

PERIOD OF RECORD.--October 1971 to current year.

REMARKS.--Records fair. Three of the culvert crossings are distributaries of canals. Flow through the other openings generally is determined by current meter measurements, discharge based on computerized ratings for flow through culverts, or field estimates. Records for station 10127100 Black Slough are collected at a bridge crossing on county road about 2 mi downstream from State Highway 83 in order to include Box Elder Creek. Most of the flow that crosses Highway 83 is included in records for station 10126000 Bear River near Corinne.

AVERAGE DISCHARGE.--13 years, 2,463 ft^3/s, 1,784,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 14,600 ft^3/s May 19, 1984; minimum daily, 240 ft^3/s Apr. 26, 27, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 14,600 ft^3/s May 19; minimum daily, 1,720 ft^3/s July 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4160	4450	4830	3480	4370	3830	5210	7120	9670	5500	4180	3310
2	4410	4160	4380	3370	4150	3830	5050	6920	9680	5320	3940	3350
3	4600	4280	4550	3570	3850	3930	5180	6610	10100	5080	3800	3420
4	4590	4330	4750	3770	3540	3840	5520	6360	10400	4740	3820	3580
5	4580	4340	4820	4470	3530	3730	5740	6530	10700	4450	3820	3610
6	4780	4330	4960	4470	3330	3720	5780	6840	10900	4190	3770	3580
7	4950	4350	5030	4370	3220	3730	5820	7060	11100	4010	3670	3210
8	4980	4310	5240	4360	3510	3750	5790	7160	11400	3840	3580	3350
9	4990	4330	5410	4360	3610	3900	5870	7200	11400	3730	3420	3540
10	5000	4360	5700	4560	3620	3880	6130	7240	11100	3530	3160	3560
11	4980	4470	5890	4760	3610	4190	6480	7210	11000	3210	2770	3560
12	4950	4620	5940	4860	3500	4560	6640	7040	11000	3070	2690	3090
13	4870	4690	6090	4860	3490	4760	6670	7180	10800	3020	2610	3310
14	4850	4700	6320	4640	3520	4980	6570	7880	10300	3280	2610	3790
15	4660	4780	6530	4010	3640	5040	6410	9300	9520	3170	2640	3900
16	4520	4890	6500	3980	3750	5570	6200	11000	8990	3470	2660	3930
17	4480	4840	6280	3880	3900	6470	5870	12700	8890	2950	2650	3890
18	4390	4770	5950	3340	4040	7040	5730	14000	9050	3170	2990	3740
19	4040	4640	5810	2830	4140	7530	6040	14600	9510	2900	3050	3630
20	4110	4560	5310	3540	4330	7970	6650	14200	9750	1720	3140	3600
21	4300	4620	4820	3370	4330	8330	7430	13800	9800	2410	3110	3680
22	4360	4670	4340	2660	4230	8180	8920	13000	9710	2620	3040	3650
23	4380	4750	3820	3250	4130	8040	10100	12700	9550	3280	3400	3770
24	4420	4910	2910	3250	3930	7820	10400	12500	9160	3750	3550	4060
25	4520	5020	3530	2650	3940	7530	9930	12100	8700	3760	3490	4310
26	4570	5030	3070	3060	3940	7350	9370	11800	8080	3810	3210	4400
27	4570	4990	3270	3570	3940	6980	9070	11800	7410	3870	3320	4410
28	4580	4990	3300	4080	3930	6370	8790	11700	6770	3820	3580	4400
29	4660	4980	3370	4380	3930	5980	8410	11200	6230	3910	3280	4380
30	4690	4910	3230	4470	---	5720	7660	10600	5690	4200	3390	4350
31	4700	---	3300	4470	---	5450	---	10100	---	4290	3230	---
TOTAL	142640	139070	149250	120690	110950	174000	209430	305450	286360	114070	101570	112360
MEAN	4601	4636	4815	3893	3826	5613	6981	9853	9545	3680	3276	3745
MAX	5000	5030	6530	4860	4370	8330	10400	14600	11400	5500	4180	4410
MIN	4040	4160	2910	2650	3220	3720	5050	6360	5690	1720	2610	3090
ACFT	282900	275800	296000	239400	220100	345100	415400	605900	568000	226300	201500	222900

CAL YR 1983	TOTAL	1687840	MEAN	4624	MAX	10000	MIN	1600	ACFT	3348000
WTR YR 1984	TOTAL	1965840	MEAN	5371	MAX	14600	MIN	1720	ACFT	3899000

10128000 SMITH AND MOREHOUSE CREEK NEAR OAKLEY, UT

LOCATION.--Lat 40°47'09", long 111°06'42", in NW1/4NW1/4NW1/4 sec.36, T.1 N., R.7 E., Summit County, Hydrologic Unit 16020101. on right bank 2.5 mi upstream from mouth and 10 mi northeast of Oakley.

DRAINAGE AREA.--33.8 mi^2.

PERIOD OF RECORD.--October 1946 to September 1947, October 1975 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,360 ft from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--10 years, 59.4 ft^3/s, 43,040 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 844 ft^3/s June 19, 1983, gage height, 5.46 ft; minimum, 6.8 ft^3/s Jan. 3, Apr. 21, Sept. 22, 23, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 728 ft^3/s May 31, gage height, 5.32 ft; minimum, 7.7 ft^3/s Oct. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	21	20	16	15	14	16	34	607	245	60	40
2	36	20	20	18	17	14	16	33	484	183	57	38
3	37	20	20	18	15	14	15	32	515	176	55	36
4	36	19	19	18	15	14	16	31	411	157	53	35
5	35	19	19	18	15	13	16	30	389	136	52	34
6	34	19	20	18	15	14	16	29	305	120	51	42
7	33	19	20	18	15	14	16	28	258	108	50	40
8	33	20	20	18	14	14	18	30	246	101	47	34
9	32	17	20	17	15	14	18	40	217	119	45	33
10	33	20	20	16	15	14	17	60	205	125	43	31
11	32	19	20	17	16	14	16	81	197	91	42	31
12	33	19	20	16	15	13	17	101	191	78	41	51
13	33	20	19	15	16	14	17	145	189	73	40	50
14	33	19	20	16	16	14	18	322	225	71	40	39
15	33	20	19	16	15	14	22	522	281	70	38	36
16	33	20	19	14	15	14	30	518	354	70	61	34
17	32	20	20	15	16	14	42	447	372	66	111	33
18	32	19	19	12	15	14	55	418	392	65	94	33
19	48	19	20	14	14	14	62	421	418	62	105	31
20	59	20	19	15	13	15	59	477	418	62	118	31
21	34	20	18	16	13	15	49	571	444	61	114	58
22	28	17	19	16	14	14	45	507	432	61	105	47
23	27	19	19	16	13	14	45	537	395	60	97	38
24	27	20	18	16	14	15	46	614	389	59	92	36
25	18	20	19	16	14	16	48	501	385	60	84	36
26	9.3	20	19	16	14	15	45	445	382	62	78	36
27	33	19	19	15	13	14	42	477	349	60	68	36
28	35	19	18	16	14	14	38	456	326	61	55	36
29	22	19	17	16	14	15	37	485	267	60	47	36
30	21	18	18	16	---	15	35	554	272	61	43	36
31	21	---	18	15	---	15	---	645	---	60	41	---
TOTAL	989.3	580	595	499	425	441	932	9591	10315	2843	2027	1127
MEAN	31.9	19.3	19.2	16.1	14.7	14.2	31.1	309	344	91.7	65.4	37.6
MAX	59	21	20	18	17	16	62	645	607	245	118	58
MIN	9.3	17	17	12	13	13	15	28	189	59	38	31
ACFT	1960	1150	1180	990	843	875	1850	19020	20460	5640	4020	2240

CAL YR 1983	TOTAL	32411.3	MEAN	88.8	MAX	716	MIN	9.3	ACFT	64290
WTR YR 1984	TOTAL	30364.3	MEAN	83.0	MAX	645	MIN	9.3	ACFT	60230

10128500 WEBER RIVER NEAR OAKLEY, UT

LOCATION.--Lat 40°44'14", long 111°14'50", in SE1/4NE1/4 sec.15, T.1 S., R.6 E., Summit County, Hydrologic Unit 16020101, on right bank 1.5 mi downstream from South Fork, 2.2 mi upstream from Weber-Provo diversion canal, and 3.2 mi northeast of Oakley.

DRAINAGE AREA.--162 mi^2.

PERIOD OF RECORD.--October 1904 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 790: 1934. WSP 1394: 1907-09, 1911-12, 1921-22. WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,600 ft from topographic map. Prior to Oct. 25. 1933, staff gage at site 0.2 mi downstream at different datum. Oct. 25, 1933 to Aug. 29, 1955, water-stage recorder at present site at datum 0.5 ft higher.

REMARKS.--Records good except those for winter period, which are fair. Several small diversions for irrigation above station. Flow slightly regulated by several small lakes on headwaters and a small reservoir on Smith and Morehouse Creek. Total capacity of lakes and reservoir, 3,400 acre-ft.

AVERAGE DISCHARGE.--80 years, 222 ft^3/s, 160,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,170 ft^3/s June 13, 1921, gage height, 9.0 ft, site and datum then in use, from rating curve extended above 2,000 ft^3/s; minimum observed, 15 ft^3/s Dec. 9, 1977.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 22	1715	2,370	8.33
June 01	0600	*2,560	8.72

Minimum daily, 59 ft^3/s Feb 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	161	119	112	108	81	86	87	216	2130	832	240	178
2	165	119	110	104	81	82	87	222	1680	714	231	168
3	175	117	106	102	81	82	82	210	1720	653	219	161
4	161	115	104	110	82	78	87	213	1400	606	210	154
5	158	113	95	96	81	87	94	216	1330	541	204	147
6	151	112	101	94	82	87	97	207	1170	505	196	178
7	149	110	110	94	82	81	101	204	1030	476	191	168
8	144	117	112	94	79	75	104	234	956	466	183	151
9	140	101	104	94	81	79	114	325	839	515	178	147
10	163	113	108	86	82	78	102	456	792	525	173	140
11	168	113	104	96	81	78	102	578	739	424	165	140
12	156	112	106	86	81	76	90	726	701	385	165	183
13	154	115	102	79	84	74	102	979	701	360	161	188
14	161	113	102	86	84	87	104	1360	860	345	165	161
15	161	110	102	79	75	82	127	1830	1000	325	163	154
16	156	113	97	69	82	84	170	1810	1080	307	170	151
17	154	113	102	86	82	82	265	1610	1070	289	222	142
18	151	115	90	82	81	82	300	1500	1200	282	222	136
19	156	110	106	82	75	78	325	1530	1270	272	282	132
20	175	112	92	89	64	82	282	1670	1240	265	329	134
21	151	112	89	96	59	86	249	2140	1370	289	262	207
22	138	101	94	108	82	81	249	2270	1340	289	237	180
23	136	102	97	104	75	79	269	1890	1250	282	240	151
24	136	113	102	102	87	82	303	2090	1200	275	231	158
25	125	115	115	101	86	82	303	1880	1180	282	231	163
26	110	110	122	92	78	84	265	1650	1170	289	231	161
27	119	101	118	81	72	81	243	1700	1080	296	210	156
28	144	102	111	86	72	81	228	1590	1000	272	188	144
29	123	102	109	79	87	82	222	1650	918	265	178	140
30	119	101	118	81	---	84	213	1860	918	279	170	136
31	119	---	113	81	---	86	---	2150	---	252	175	---
TOTAL	4579	3321	3253	2827	2299	2528	5366	36966	34334	12157	6422	4709
MEAN	148	111	105	91.2	79.3	81.5	179	1192	1144	392	207	157
MAX	175	119	122	110	87	87	325	2270	2130	832	329	207
MIN	110	101	89	69	59	74	82	204	701	252	161	132
ACFT	9080	6590	6450	5610	4560	5010	10640	73320	68100	24110	12740	9340

CAL YR 1983	TOTAL	120900	MEAN	331	MAX	2090	MIN	57	ACFT	239800
WTR YR 1984	TOTAL	118761	MEAN	324	MAX	2270	MIN	59	ACFT	235600

10129400 ROCKPORT RESERVOIR NEAR WANSHIP, UT

LOCATION.--Lat 40°47'25", long 111°24'12", in NW1/4NW1/4SE1/4 sec.29, T.1 N., R.5 E., Summit County, Hydrologic Unit 16020101, in powerhouse on downstream side of dam on Weber River, 1.2 mi south of Wanship and 1.2 mi upstream from Silver Creek.

DRAINAGE AREA.--334 mi^2.

PERIOD OF RECORD.--February 1957 to current year. Month-end contents only prior to October 1960, published in WSP 1734.

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

GAGE.--Mercury gage in powerhouse read once daily. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill rock-faced dam; storage began in fall of 1956; dam completed March 1957. Usable capacity, 60,860 acre-ft between elevation 5,930 ft (bottom of outlet tunnel) and 6,037 ft (top of spillway) above mean sea level. Dead storage, 1,260 acre-ft. Figures given herein represent usable contents. Water is used for irrigation, domestic, and industrial purposes.

COOPERATION.--Capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 65,030 acre-ft June 24, 27, 28 1967 and June 12, 13, 1983, elevation, 6,040.8 ft; minimum observed since storage began, 152 acre-ft Sept. 10, 15, 1959, elevation, 5,931.2 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 62,930 acre-ft July 1, elevation, 6,038.9 ft; minimum observed, 23,060 acre-ft May 10, elevation, 5,992.4 ft.

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

5,992	22,810	6,020	44,110
5,995	24,730	6,030	53,600
6,000	28,150	6,035	58,730
6,005	31,800	6,040	64,140
6,010	35,660		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANTANEOUS OBSERVATIONS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54800	57990	58730	44920	31050	27730	27310	25660	53400	62930	61080	60860
2	55010	57890	58730	43480	30980	27590	27380	25400	54700	62820	61080	60750
3	55210	57780	58840	41990	30830	27450	27380	25200	55210	62710	60970	60750
4	55510	57580	58940	40600	30680	27310	27380	24860	55820	62490	60970	60650
5	55820	57370	58940	39250	30540	27170	27450	24540	55920	62380	60970	60650
6	56030	57370	59050	37840	30460	27030	27590	24210	56130	62160	60970	60650
7	56230	57370	59150	36460	30310	26960	28010	23760	56750	61940	60860	60650
8	56440	57370	59260	35030	30240	26890	28430	23380	57060	61830	60860	60650
9	56640	57470	59370	33630	30100	26750	28860	23120	57580	61830	60750	60650
10	56850	57470	59470	33400	29950	26620	28720	23060	57680	61730	60650	60650
11	57160	57470	59580	33320	29880	26550	28430	23380	57890	61620	60650	60650
12	57470	57470	59680	33240	29730	26550	28150	24080	57990	61510	60650	60650
13	57680	57580	59470	33170	29580	26340	27800	25200	57990	61400	60540	60650
14	57890	57680	59580	33090	29580	26410	27590	27030	58200	61290	60430	60650
15	58200	57680	59680	33010	29440	26480	27450	29510	58520	61290	60430	60650
16	58520	57780	59790	32860	29300	26550	27310	32860	59150	61190	60430	60650
17	58730	57890	59370	32710	29300	26680	27380	35980	59580	61190	60220	60540
18	58940	58100	58840	32560	29150	26750	27730	38340	60000	61080	60220	60540
19	59150	58100	58520	32400	29080	26680	28150	40520	60650	60970	60220	60430
20	59370	58200	58100	32180	28930	26680	28430	42690	60970	60860	60430	60430
21	59370	58200	57160	32030	28790	26750	28580	45190	61190	60970	60650	60430
22	59260	58200	56540	31880	28650	26820	28220	47310	61400	60970	60750	60650
23	59150	58200	55410	31800	28580	26820	28010	48530	61400	60970	60860	60650
24	59050	58310	54400	31800	28430	26820	27800	49580	61290	61080	60970	60650
25	58940	58410	53400	31730	28360	26820	27730	50740	61290	61080	60970	60860
26	58840	58410	52400	31650	28290	26890	27590	51230	61400	61080	61080	60650
27	58620	58520	51520	31650	28080	26960	27240	51420	61940	61190	61080	60330
28	58520	58620	50450	31500	27940	26960	26890	51520	62380	61080	61080	60000
29	58520	58620	49100	31350	27800	26960	26410	51520	62600	61080	61080	59470
30	58310	58620	47590	31200	---	27030	26070	51620	62820	61080	60970	58940
31	58200	---	46290	31130	---	27170	---	52110	---	61080	60970	---
MAX	59370	58620	59790	44920	31050	27730	28860	52110	62820	62930	61080	60860
MIN	54800	57370	46290	31130	27800	26340	26070	23060	53400	60860	60220	58940
(#)	6034.5	6034.9	6022.4	6004.1	5999.5	5998.6	5997.0	6028.5	6038.8	6037.2	6037.1	6035.2
(*)	+3500	+420	-12330	-15160	-3330	-630	-1100	+26040	+10710	-1740	-110	-2030

CAL YR 1983 . . . . . (*) -12020
WTR YR 1984 . . . . . (*) +4240

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

10130000 SILVER CREEK NEAR WANSHIP, UT

LOCATION.--Lat 40°45'25", long 111°28'15", in SW1/4NW1/4NW1/4 sec.2, T.1 S., R.4 E., Summit County, Hydrologic Unit 16020101, on right bank 10 ft downstream from culvert at crossover between Interstate 80 lanes, 4 mi upstream from mouth, 4.5 mi southwest of Wanship.

DRAINAGE AREA.--25.8 mi^2.

PERIOD OF RECORD.--October 1941 to September 1946, July 1982 to September 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,360 ft from topographic map. October 1941 to September 1946, water-stage recorder at approximately same site at different datum.

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

AVERAGE DISCHARGE.--5 years (1941-46), 7.00 ft^3/s, 5,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 430 ft^3/s Apr. 4, 1942, gage height, 4.28 ft; minimum, practically no flow at times in 1942 and 1943.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 140 ft^3/s Apr. 17, 18, gage height, 2.03 ft; minimum daily, 1.8 ft^3/s Jan. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	8.5	6.6	5.2	4.1	4.5	17	34	37	5.7	5.1	4.4
2	9.5	8.6	6.9	4.7	3.5	4.7	16	40	26	4.5	5.8	4.1
3	16	8.3	5.7	5.0	3.3	4.3	15	37	23	4.4	4.0	3.7
4	10	8.2	6.1	5.6	3.8	4.0	15	32	23	3.2	2.8	3.5
5	9.5	7.9	5.5	5.7	3.5	3.8	19	30	46	3.0	4.7	3.2
6	9.2	7.0	7.8	5.5	3.2	4.1	26	27	40	4.5	3.9	7.3
7	8.8	6.8	12	5.2	3.8	4.7	32	23	52	3.6	2.9	8.9
8	8.1	9.6	7.4	4.9	3.3	5.3	39	21	41	3.6	3.2	6.7
9	9.0	8.8	6.6	5.2	3.2	4.7	46	21	37	8.2	2.2	6.2
10	18	8.0	8.6	4.2	3.9	5.4	35	21	29	8.9	2.3	5.7
11	16	9.2	7.5	4.4	3.9	5.0	28	21	25	5.2	2.5	5.7
12	11	7.7	8.0	4.6	3.6	4.8	26	22	21	5.5	3.2	7.2
13	10	10	7.2	4.2	4.0	4.4	27	22	16	5.2	3.7	8.7
14	14	11	8.1	5.0	3.6	5.6	37	24	13	4.5	4.6	7.5
15	14	8.4	8.6	4.1	3.1	5.4	52	26	10	3.5	4.4	6.8
16	11	8.4	6.4	3.0	3.9	5.2	74	25	12	3.2	4.3	6.8
17	10	9.9	7.3	4.5	4.2	4.8	94	25	13	4.3	3.1	6.2
18	9.4	9.0	6.2	1.8	4.0	5.8	108	24	11	3.8	2.8	5.8
19	9.1	8.2	7.1	1.9	3.5	9.8	79	23	12	3.5	5.9	4.5
20	9.2	7.6	6.0	2.2	3.0	11	54	23	9.8	2.8	12	6.0
21	8.6	8.1	5.1	2.4	4.5	13	38	26	8.2	2.0	8.0	20
22	8.1	6.4	7.6	2.8	5.5	14	41	28	9.8	2.7	5.3	12
23	8.1	6.2	7.3	3.1	4.1	14	46	25	7.6	3.4	6.2	8.3
24	8.5	6.8	5.7	3.5	4.5	14	47	22	8.2	8.6	6.1	15
25	7.5	7.0	6.3	4.1	4.9	12	44	22	6.0	7.3	8.5	19
26	7.7	6.2	6.9	3.6	4.7	14	32	20	6.2	6.5	8.8	17
27	7.9	6.0	7.7	3.1	3.6	13	30	15	5.2	5.8	6.4	12
28	8.7	7.2	4.7	2.9	4.0	12	28	17	4.3	5.1	5.9	10
29	8.6	6.4	4.8	2.8	4.1	13	24	14	4.6	4.9	5.4	9.9
30	8.4	5.7	5.8	2.6	---	14	25	13	6.2	4.0	3.8	9.2
31	8.6	---	5.6	3.0	---	15	---	19	---	4.2	3.6	---
TOTAL	312.5	237.1	213.1	120.8	112.3	255.3	1194	742	563.1	145.6	151.4	251.3
MEAN	10.1	7.90	6.87	3.90	3.87	8.24	39.8	23.9	18.8	4.70	4.88	8.38
MAX	18	11	12	5.7	5.5	15	108	40	52	8.9	12	20
MIN	7.5	5.7	4.7	1.8	3.0	3.8	15	13	4.3	2.0	2.2	3.2
ACFT	620	470	423	240	223	506	2370	1470	1120	289	300	498

CAL YR 1983	TOTAL	5478.8	MEAN	15.0	MAX	79	MIN	2.1	ACFT	10870
WTR YR 1984	TOTAL	4298.5	MEAN	11.7	MAX	108	MIN	1.8	ACFT	8530

10130500 WEBER RIVER NEAR COALVILLE, UT

LOCATION.--Lat 40°53'43", long 111°24'04", in NE1/4SW1/4NE1/4 sec.20, T.2 N., R.5 E., Summit County, Hydrologic Unit 16020101, on left bank 1.2 mi upstream from high-water line of Echo Reservoir, 1.4 mi south of Coalville, 1.7 mi upstream from Chalk Creek, and 5.5 mi downstream from Silver Creek.

DRAINAGE AREA.--435 mi^2.

PERIOD OF RECORD.--April 1927 to current year.

REVISED RECORDS.--WSP 1314: 1943(M). WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,600 ft from topographic map. Prior to Mar. 22, 1931, nonrecording gage, Mar. 22, 1931 to July 18, 1967, water-stage recorder at same site at different datum.

REMARKS.--Records good. Many diversions for irrigation above station. No diversion between station and Echo Reservoir. Records do not include water diverted from Weber River basin through Weber-Provo diversion canal. Flow regulated by several small reservoirs above station, and since Apr. 1, 1957, by Rockport Reservoir (see station 10129400).

AVERAGE DISCHARGE.--53 years, 209 ft^3/s, 151,400 acre-ft/yr, since completion of Weber-Provo diversion canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,190 ft^3/s May 6, 1952; maximum gage height, 5.08 ft (present datum) May 29, 1951; minimum, 6 ft^3/s Sept. 20, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,650 ft^3/s June 5, gage height, 4.69 ft; minimum, 89 ft^3/s July 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	283	170	929	216	208	248	611	1540	866	247	211
2	136	145	169	920	203	209	245	636	1520	792	246	209
3	145	302	168	917	205	210	243	625	1520	722	241	200
4	140	267	165	911	203	210	249	618	1520	656	239	195
5	137	221	162	899	201	212	248	614	1620	598	237	192
6	135	176	163	891	205	211	261	598	1500	540	235	194
7	134	176	165	879	200	212	266	591	1340	472	218	214
8	133	180	166	874	204	215	278	603	1150	421	208	210
9	132	176	167	545	205	217	395	638	1040	441	200	208
10	143	176	168	211	202	221	518	681	990	431	201	204
11	141	178	168	210	202	225	471	713	950	383	202	208
12	135	177	169	208	204	226	450	730	950	338	198	213
13	134	186	168	207	204	236	439	766	900	324	190	220
14	140	187	159	206	208	267	435	785	860	314	189	237
15	136	180	149	212	206	252	457	799	870	278	199	247
16	133	178	260	205	205	248	501	774	970	254	202	244
17	132	183	381	202	205	238	553	740	1050	244	204	236
18	131	195	379	207	205	236	611	735	1100	232	202	235
19	130	181	382	215	207	236	563	716	1160	214	210	235
20	174	179	498	207	206	238	498	705	1200	218	215	236
21	266	179	544	209	209	241	570	900	1240	177	211	265
22	269	174	633	200	208	238	635	1200	1270	248	217	257
23	269	171	699	202	208	238	656	1520	1300	245	221	260
24	269	171	616	203	208	239	665	1550	1260	250	234	272
25	269	174	618	205	208	238	657	1540	1120	251	266	343
26	269	170	623	203	207	239	622	1490	921	262	281	451
27	230	171	680	203	209	236	611	1490	846	269	271	464
28	148	172	801	204	209	235	602	1500	840	266	260	473
29	213	172	935	206	209	237	595	1480	815	254	247	532
30	307	169	942	204	---	238	595	1460	845	250	233	532
31	243	---	934	203	---	238	---	1500	---	247	213	---
TOTAL	5507	5649	12401	12297	5971	7144	14137	29308	34207	11457	6937	8197
MEAN	178	188	400	397	206	230	471	945	1140	370	224	273
MAX	307	302	942	929	216	267	665	1550	1620	866	281	532
MIN	130	145	149	200	200	208	243	591	815	177	189	192
ACFT	10920	11200	24600	24390	11840	14170	28040	58130	67850	22720	13760	16260

CAL YR 1983	TOTAL	165134	MEAN	452	MAX	1860	MIN	115	ACFT	327500
WTR YR 1984	TOTAL	153212	MEAN	419	MAX	1620	MIN	130	ACFT	303900

10131000 CHALK CREEK AT COALVILLE, UT

LOCATION.--Lat 40°55'14", long 111°24'03", in NW1/4NE1/4SE1/4 sec.8, T.2 N., R.5 E., Summit County, Hydrologic Unit 16020101, on left bank 100 ft downstream from bridge on U.S. Highway 189 in Coalville and 0.3 mi upstream from mouth.

DRAINAGE AREA.--250 mi^2.

PERIOD OF RECORD.--November 1904, March to November 1905, April 1927 to current year.

REVISED RECORDS.--WSP 1564: 1929. WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,560.6 ft NGVD of 1929. Prior to Feb. 13, 1931, nonrecording gage at site 100 ft upstream at different datum. Feb. 13, 1931 to Oct. 15, 1941, water-stage recorder at site 300 ft upstream at different datum.

REMARKS.--Records good. Diversions above station used for irrigation of land in the drainage basin above the station. Flow slightly affected by Chalk Creek Reservoir, capacity, 1,600 acre-ft.

AVERAGE DISCHARGE.--57 years, 67.5 ft^3/s, 48,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,570 ft^3/s June 1, 1983, gage height, 5.26 ft; minimum, less than 1 ft^3/s for several days in 1934.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 19	0200	588	2.77
Apr. 25	0300	602	2.63
May 16	0100	*1,350	4.19

Minimum daily, 26 ft^3/s Nov. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	38	78	59	41	54	88	211	665	230	87	100
2	43	37	70	47	40	62	76	295	508	218	87	76
3	68	37	64	49	40	58	74	359	459	207	78	71
4	54	37	62	64	41	47	69	417	403	198	73	69
5	46	36	39	60	41	42	95	377	595	190	71	63
6	42	36	42	53	40	50	124	284	559	183	82	73
7	39	38	72	53	52	60	114	250	617	178	82	87
8	38	55	69	51	42	65	112	350	622	170	80	76
9	38	34	58	55	42	68	135	600	531	190	73	71
10	59	45	68	43	50	71	118	783	468	212	76	65
11	71	50	62	52	52	68	107	855	487	145	73	65
12	54	55	61	57	48	65	122	928	449	141	67	67
13	48	72	54	53	65	75	130	1030	418	138	57	71
14	64	74	58	53	60	83	144	1150	419	135	57	67
15	61	51	61	48	50	76	207	1240	422	125	61	65
16	53	55	37	44	52	74	305	1180	438	117	87	65
17	53	62	61	48	56	72	329	918	439	112	112	59
18	49	70	34	45	56	70	399	833	410	108	87	43
19	49	53	65	45	47	70	399	831	413	103	149	46
20	47	59	50	43	41	79	175	879	386	91	180	53
21	46	53	29	45	39	72	103	943	371	84	112	93
22	44	26	32	46	45	68	108	816	369	93	96	84
23	42	30	35	51	42	68	204	814	365	84	96	65
24	47	57	30	54	46	73	371	830	350	82	93	71
25	47	72	33	58	49	70	389	672	332	93	93	73
26	47	62	55	58	48	70	169	607	320	115	91	71
27	45	54	68	43	43	66	142	591	295	130	89	67
28	42	70	50	44	47	70	129	525	280	117	100	63
29	40	60	48	43	48	74	144	490	260	112	100	59
30	37	35	62	41	---	76	143	493	242	108	93	59
31	38	---	74	40	---	80	---	572	---	103	105	---
TOTAL	1490	1513	1681	1545	1363	2096	5224	21123	12892	4312	2787	2057
MEAN	48.1	50.4	54.2	49.8	47.0	67.6	174	681	430	139	89.9	68.6
MAX	71	74	78	64	65	83	399	1240	665	230	180	100
MIN	37	26	29	40	39	42	69	211	242	82	57	43
ACFT	2960	3000	3330	3060	2700	4160	10360	41900	25570	8550	5530	4080

CAL YR 1983	TOTAL	65738	MEAN	180	MAX	1410	MIN	19	ACFT	130400
WTR YR 1984	TOTAL	58083	MEAN	159	MAX	1240	MIN	26	ACFT	115200

NOTE.--No gage height record Feb. 2 to Apr. 13.

10131500 ECHO RESERVOIR AT ECHO, UT

LOCATION.--Lat 40°57'50", long 111°25'55", in NE1/4NW1/4SW1/4 sec.30, T.3 N., R.5 E., Summit County, Hydrologic Unit 16020101, near outlet works at left end of Echo Dam on Weber River, 1.1 mi southeast of Echo.

DRAINAGE AREA.--726 mi^2.

PERIOD OF RECORD.--October 1930 to current year.

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

GAGE.--Staff gage on left side of dam read once daily. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation). Prior to 1932, elevations obtained from mercury gage in valve house and staff gage.

REMARKS.--Reservoir is formed by earthfill, rock-faced dam; storage began in October 1930; dam completed in 1931. Capacity, 73,940 acre-ft between elevation 5,450 ft (bottom of outlet tunnel) and 5,560 ft (top of radial gages in spillway) above mean sea level. Dead storage negligible. Figures given herein represent total contents. Water is used for irrigation of the Echo Project.

COOPERATION.--Capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 75,420 acre-ft June 13, 1983, elevation, 5,561.0 ft; no contents Sept. 12 to Dec. 3, 1931, Sept. 24 to Nov. 2, 1934, Oct. 12 to Nov. 21, 1944, Oct. 1 to Nov. 15, 1954, Sept. 11-20, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 74,240 acre-ft several days during July, elevation, 5,560.2 ft; minimum, 14,530 acre-ft several days during January and February, elevation, 5,504.4 ft.

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

5,504	14,270	5,540	47,200
5,510	18,480	5,545	53,360
5,515	22,390	5,550	59,880
5,520	26,620	5,555	66,740
5,525	31,180	5,560	73,940
5,530	36,100	5,561	75,420
5,535	41,440		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANTANEOUS OBSERVATIONS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27500	32620	47560	34880	14530	24800	34080	31080	63820	73800	73940	56060
2	25320	33200	48040	34680	14530	25490	33890	30240	65900	73800	73940	54380
3	24550	33690	48520	34480	14530	26180	33690	30520	67440	73800	73940	52860
4	24720	34280	49010	27860	14530	26440	33590	30050	68720	73940	73650	51230
5	24800	35080	49500	27680	14530	26880	33400	29680	70150	73940	73360	50110
6	24890	35590	49990	26800	14530	27330	33300	29130	71600	74240	73060	49130
7	24970	36100	50480	25920	14530	27770	32710	28490	72470	74240	72620	49010
8	25060	36520	51100	25150	14530	28220	32230	27680	73210	74090	72180	48650
9	25060	37030	51720	24380	14530	28670	31840	27150	73060	74090	71310	48400
10	25060	37550	52350	23460	14530	29130	31650	27150	72770	74240	70590	48650
11	25150	37970	52350	21430	14530	29590	31650	28040	72920	74240	69870	48770
12	25320	38500	51600	19860	14530	30140	31560	28860	73060	74240	69010	48890
13	25400	39040	50730	19700	14790	30710	30800	31370	72920	74240	68290	49250
14	25490	39580	49740	19620	15400	31370	29500	34880	73060	74090	67590	49130
15	25580	40010	48520	19550	15950	32130	28400	38720	73060	73940	66880	48890
16	25750	40440	47200	19390	16510	32910	28490	42780	73060	73650	66320	48520
17	25830	40880	46490	19240	17080	33490	28950	46610	73210	73360	65900	48160
18	25920	41440	45310	19090	17670	33490	29870	48160	73360	72920	65340	47920
19	26010	42000	44040	18940	18190	33400	31080	49130	73210	72470	65060	47680
20	26010	42440	42220	18940	18790	33200	32040	50110	73360	72180	65060	47320
21	26180	42900	40880	18940	19390	33000	32230	51350	73650	71890	64780	47080
22	26360	43240	39470	18860	19930	32810	32420	52860	73650	71890	64230	46960
23	26970	43690	39040	18860	20480	32620	32710	54380	73650	72180	63400	46720
24	27500	44150	38500	18790	21030	32420	33300	55920	73650	72470	62720	46490
25	28220	44610	38080	18640	21590	32230	33490	57360	73800	72620	62040	46250
26	28950	45190	37660	17890	22150	32040	33490	58280	73650	72770	61760	45430
27	29680	45660	37130	17010	22800	32420	33100	58940	73360	73060	61360	44040
28	30420	46130	36410	16160	23460	32910	32710	59610	73650	73360	60950	42550
29	30610	46610	35800	15330	24130	33490	32230	59880	73650	73650	60420	41220
30	31270	47080	35490	14530	---	33590	31750	60280	73650	73650	59080	40120
31	31940	---	35190	14530	---	34180	---	61760	---	73800	57760	---
MAX	31940	47080	52350	34880	24130	34180	34080	61760	73800	74240	73940	56060
MIN	24550	32620	35190	14530	14530	24800	28400	27150	63820	71890	57760	40120
(#)	5525.8	5539.9	5529.1	5504.4	5517.1	5528.1	5525.6	5551.4	5559.8	5559.9	5548.4	5533.8
(*)	+2440	+15140	-11890	-20660	+9600	+10050	-2430	+30010	+11890	+150	-16040	-17640

CAL YR 1983 . . . . . (*) -9770
WTR YR 1984 . . . . . (*) +10620

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

10132490 LOST CREEK RESERVOIR NEAR CROYDON, UT

LOCATION.--Lat 41°11'05", long 111°23'59", in NW1/4SE1/4NE1/4 sec.8, T.5 N., R.5 E., Morgan County, Hydrologic Unit 16020101. 1.9 mi upstream from Hell Canyon and 8.1 mi northeast of Croydon.

DRAINAGE AREA.--123 mi^2.

PERIOD OF RECORD.--April 1967 to current year.

GAGE.--Indicating float tape in gage house on top of dam. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill rock-faced dam; active storage began Apr. 22, 1967. Active capacity, 20,010 acre-ft at elevation 6,005.0 ft above mean sea level. Dead storage, 2,500 acre-ft between elevation 5,835.0 ft (streambed at dam axis) and 5,912.3 ft (top of dead storage). Figures given herein represent active contents. Water is used for irrigation, fish and wildlife propagation along Lost Creek, and irrigation, municipal, and industrial use below confluence of Lost Creek and Weber River.

COOPERATION.--Gage-height record and capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 21,270 acre-ft, May 30, June 1, 1983; elevation, 6,008.4 ft. Minimum since original filling of reservoir, 4,390 acre-ft Feb. 26, 29, 1984, elevation, 5,946.1 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 20,630 acre-ft June 2, 4-8; elevation, 6,006.7 ft; minimum contents observed, 4,390 acre-ft Feb. 26, 29; elevation, 5,946.1 ft.

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

5,945	4,200	5,965	8,090	5,990	14,890
5,946	4,370	5,970	9,260	5,995	16,510
5,950	5,050	5,975	10,540	6,000	18,220
5,955	5,980	5,980	11,910	6,005	20,010
5,960	6,990	5,985	13,350	6,010	21,890

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	5660	4500	5470	7730	20440	20150	19280	17350
2	---	---	---	9460	---	---	---	7730	20630	---	---	17280
3	14490	14330	---	---	---	---	---	7600	20590	---	---	---
4	---	---	14300	---	---	4860	---	7490	20630	20150	---	---
5	---	---	---	---	5020	---	---	7380	20630	---	19060	17450
6	14520	14300	---	---	---	---	---	7230	20630	---	---	---
7	---	---	---	---	---	---	---	7100	20630	---	---	---
8	---	---	---	8370	---	---	5140	6990	20630	20080	18850	---
9	---	14240	---	---	---	---	---	7030	20590	---	---	17210
10	14520	---	---	---	---	---	---	7230	20560	---	---	---
11	---	---	13500	---	---	---	5030	7870	---	---	---	---
12	---	---	---	---	---	5120	4980	8740	20520	---	18640	17010
13	---	14270	---	---	4580	---	---	9890	---	20050	---	---
14	---	---	---	---	---	---	---	11190	20440	---	---	---
15	---	---	---	---	---	---	5050	12540	---	---	---	---
16	14520	14270	---	7010	---	---	---	13560	20410	20050	18360	16810
17	---	---	---	---	---	---	---	14330	---	---	---	---
18	---	---	---	---	---	5440	5750	15020	20370	---	---	---
19	14460	---	---	---	---	---	---	15690	---	---	18220	16610
20	---	14270	11880	---	4470	---	6180	16250	20330	---	---	---
21	---	---	---	---	---	---	---	17010	---	---	---	---
22	---	---	---	6000	---	---	6540	17450	---	19790	17980	---
23	14420	---	---	---	---	---	---	17870	---	---	---	16410
24	---	---	---	---	---	---	---	18180	20260	---	---	---
25	---	---	---	---	---	5440	7380	18400	---	---	---	---
26	14390	---	---	---	4390	---	---	18540	20260	19420	17800	15980
27	---	14240	---	---	---	---	---	18600	---	---	---	---
28	---	---	10380	---	---	---	---	18920	---	---	---	---
29	---	---	---	6220	4390	---	7710	19030	20230	19460	17560	---
30	14360	a14270	---	---	---	---	7760	19600	20190	---	---	15340
31	a14360	---	a9810	5810	---	5470	---	20190	---	19390	17420	---
(#)	---	---	---	5954.1	5946.1	5952.3	5963.5	6005.5	6005.5	6003.3	5997.7	5991.4
(*)	-30	-90	-4460	-4000	-1420	+1080	+2290	+12430	0	-800	-1970	-2080

CAL YR 1983 . . . . . (*) -6470
WTR YR 1984 . . . . . (*) +950

(#) ELEVATION, IN FEET, AT END OF MONTH.
(*) CHANGE IN CONTENTS, IN ACRE-FEET.
(a) NO GAGE READING, CONTENTS INTERPOLATED.

10133700 THREEMILE CREEK NEAR PARK CITY, UT

LOCATION.--Lat 40°43'32", long 111°33'44", in NW1/4NE1/4NW1/4, sec.24, T.1 S., R.3 E., Summit County, Hydrologic Unit 16020101, on left bank 1,000 ft upstream from Threemile Creek Reservoir, 1.1 mi upstream from mouth, and 5.5 mi northwest of Park City.

DRAINAGE AREA.--2.68 mi^2.

PERIOD OF RECORD.--October 1963 to September 1974, July 1982 to September 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,490 ft from topographic map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--13 years (water years 1964-74, 1983-84), 2.37 ft^3/s, 1,720 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 24 ft^3/s June 1, 1983; minimum, 0.3 ft^3/s Apr. 6, 8, 14, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 21 ft^3/s May 21; minimum daily, 0.83 ft^3/s Jan. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	1.7	1.2	1.1	.96	1.0	1.1	5.1	6.8	7.9	3.9	2.4
2	2.0	1.7	1.2	1.0	.95	1.0	1.1	5.7	7.0	7.7	3.8	2.4
3	2.0	1.6	1.2	1.0	.96	1.0	1.1	6.2	7.7	7.5	3.7	2.4
4	1.9	1.6	1.1	1.1	.96	1.0	1.1	6.5	8.8	7.3	3.7	2.3
5	1.8	1.6	1.1	1.0	.96	.97	1.2	7.0	8.7	7.1	3.6	2.3
6	1.7	1.6	1.2	1.0	.97	1.0	1.3	7.7	7.3	6.9	3.5	2.5
7	1.7	1.6	1.2	1.0	1.0	1.0	1.3	7.9	7.3	6.7	3.4	2.4
8	1.7	1.6	1.2	1.0	1.0	1.1	1.4	9.2	8.7	6.7	3.3	2.3
9	1.7	1.6	1.1	1.0	1.0	1.1	1.5	11	15	6.7	3.3	2.3
10	1.9	1.6	1.2	1.1	1.0	1.0	1.5	14	15	6.4	3.2	2.3
11	1.7	1.6	1.2	1.2	1.0	1.0	1.5	14	15	6.1	3.1	2.3
12	1.7	1.6	1.2	1.1	1.0	1.0	1.4	16	14	6.0	3.1	2.3
13	1.8	1.7	1.2	1.0	1.0	1.1	1.5	17	14	5.8	3.0	2.2
14	1.9	1.6	1.2	.98	1.0	1.2	1.4	18	13	5.6	3.0	2.2
15	1.7	1.4	1.2	.96	1.0	1.1	1.5	19	13	5.4	3.0	2.2
16	1.6	1.3	1.1	.93	1.0	1.2	1.8	19	13	5.3	3.1	2.2
17	1.6	1.5	1.2	.94	1.0	1.2	2.5	18	12	5.2	3.0	2.1
18	1.5	1.5	1.1	.83	.95	1.1	3.8	17	12	5.0	2.9	2.1
19	1.5	1.3	1.2	.86	.94	1.1	4.2	19	11	4.9	3.0	2.0
20	1.5	1.5	1.1	.89	.91	1.1	3.8	20	11	4.8	2.9	2.1
21	1.6	1.2	1.0	.93	.94	1.1	3.5	21	10	4.7	2.8	2.3
22	1.6	1.2	1.2	.95	.98	1.1	4.0	20	10	4.7	2.8	2.1
23	1.6	1.2	1.1	.97	.96	1.1	5.1	20	9.9	4.6	2.7	2.0
24	1.7	1.3	1.1	1.0	.97	1.1	6.1	15	9.6	4.5	2.7	2.2
25	1.7	1.2	1.2	1.0	1.0	1.1	6.3	14	9.2	4.7	2.8	2.1
26	1.7	1.2	1.3	.98	.98	1.1	5.8	11	8.8	4.5	2.6	2.0
27	1.7	1.3	1.2	.97	.97	1.1	5.6	11	8.7	4.3	2.6	2.0
28	1.7	1.3	1.0	.94	1.0	1.1	5.3	9.1	8.5	4.2	2.6	1.9
29	1.7	1.2	1.1	.92	1.0	1.1	5.0	7.5	8.3	4.1	2.5	1.9
30	1.7	1.1	1.1	.89	---	1.1	4.9	7.2	8.2	4.0	2.5	1.9
31	1.7	---	1.2	.95	---	1.1	---	7.1	---	3.9	2.5	---
TOTAL	53.2	43.4	35.9	30.49	28.36	33.37	87.6	400.2	311.5	173.2	94.6	65.7
MEAN	1.72	1.45	1.16	.98	.98	1.08	2.92	12.9	10.4	5.59	3.05	2.19
MAX	2.0	1.7	1.3	1.2	1.0	1.2	6.3	21	15	7.9	3.9	2.5
MIN	1.5	1.1	1.0	.83	.91	.97	1.1	5.1	6.8	3.9	2.5	1.9
ACFT	106	86	71	60	56	66	174	794	618	344	188	130

CAL YR 1983	TOTAL	1373.16	MEAN	3.76	MAX	24	MIN	.90	ACFT	2720
WTR YR 1984	TOTAL	1357.52	MEAN	3.71	MAX	21	MIN	.83	ACFT	2690

10133900 EAST CANYON CREEK NEAR PARK CITY, UT

LOCATION.--Lat 40°47'24", long 111°35'47", in NW1/4NW1/4SE1/4 sec.27, T.1 N., R.3 E., Summit County, Hydrologic Unit 16020101 on left bank near point where Big Bear Hollow joins East Canyon, 2.3 mi north of Jeremy Ranch.

DRAINAGE AREA.--80.0 mi^2.

PERIOD OF RECORD.--June 1982 to September 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,120 ft from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 679 ft^3/s Apr. 18, gage height, 3.32 ft; minimum daily, 13 ft^3/s Jan. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	23	36	36	23	25	68	190	342	84	50	33
2	32	23	33	27	20	28	58	243	299	76	50	32
3	39	21	29	32	21	26	57	206	282	77	49	32
4	31	21	19	33	20	22	62	194	264	71	48	31
5	30	22	18	31	19	20	85	197	355	68	48	28
6	28	23	24	30	18	25	108	164	317	65	48	42
7	27	27	33	29	22	29	137	147	308	65	47	36
8	27	32	31	28	19	28	190	171	264	67	47	31
9	28	27	28	29	20	34	173	222	253	80	47	27
10	44	30	34	28	22	31	119	279	222	91	47	27
11	33	33	33	30	22	37	90	302	204	73	46	28
12	30	33	32	28	20	34	80	342	187	69	46	31
13	31	33	33	27	26	33	94	398	178	67	46	30
14	44	33	31	28	21	52	121	434	171	65	45	27
15	35	32	29	21	18	47	185	466	169	63	45	27
16	31	32	26	15	20	41	287	470	173	60	45	27
17	29	38	30	19	23	37	388	392	169	57	45	25
18	30	35	27	13	22	39	516	352	164	59	44	22
19	29	33	33	15	18	41	388	368	160	55	44	23
20	28	34	30	17	17	46	229	365	149	50	44	25
21	27	30	20	18	18	52	176	385	149	51	44	45
22	27	27	26	20	21	47	212	368	143	51	43	30
23	26	30	31	23	19	47	267	362	137	51	43	28
24	28	32	26	27	20	55	263	358	135	52	42	35
25	26	33	29	33	23	48	223	345	131	52	43	33
26	26	26	34	29	21	55	159	305	113	52	41	33
27	26	25	44	26	20	49	153	287	111	51	39	30
28	26	34	29	22	19	45	139	267	104	51	38	28
29	26	32	27	20	19	50	135	254	107	51	35	28
30	26	23	33	18	---	55	141	251	91	51	35	28
31	26	---	47	19	---	56	---	293	---	50	34	---
TOTAL	926	877	935	771	591	1234	5303	9377	5851	1925	1368	902
MEAN	29.9	29.2	30.2	24.9	20.4	39.8	177	302	195	62.1	44.1	30.1
MAX	44	38	47	36	26	56	516	470	355	91	50	45
MIN	26	21	18	13	17	20	57	147	91	50	34	22
ACFT	1840	1740	1850	1530	1170	2450	10520	18600	11610	3820	2710	1790

CAL YR 1983	TOTAL	32451	MEAN	88.9	MAX	459	MIN	18	ACFT	64370
WTR YR 1984	TOTAL	30060	MEAN	82.1	MAX	516	MIN	13	ACFT	59620

10134000 EAST CANYON RESERVOIR NEAR MORGAN, UT

LOCATION.--Lat 40°55'14", long 111°35'59", in NE1/4SE1/4NW1/4 sec.10, T.2 N., R.3 E., Morgan County, Hydrologic Unit 16020102, on upstream face of concrete dam on East Canyon Creek, 9.0 mi southeast of Morgan.

DRAINAGE AREA.--144 mi^2.

PERIOD OF RECORD.--October 1931 to current year. October 1931 to September 1937, month-end contents only published in WSP 1314.

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

GAGE.--Elevations determined from direct readings on upstream face of dam on days shown. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation). Prior to Oct. 1, 1953, staff gage at site 500 ft east of dam and Oct. 1, 1953 to Sept. 30, 1964, tape gage on upstream face of dam then in use at different datum. Oct. 1, 1964 to Sept. 30, 1965, temporary reference marks at present datum set by Bureau of Reclamation.

REMARKS.--Reservoir was formed in 1896 by a 58-ft rockfill dam, capacity, 3,850 acre-ft, which was raised 25 ft in 1900, capacity, 9,000 acre-ft, raised 12 ft more in 1902, capacity, 14,000 acre-ft, was replaced in 1917 by concrete dam which formed a reservoir having a capacity of 25,790 acre-ft (revised), and was replaced in 1966 by present concrete thin-arch dam which forms a reservoir having an active capacity of 48,110 acre-ft between elevation 5,577.0 ft and 5,705.0 ft. Dead storage, 3,090 acre-ft. Figures given herein represent active contents. Water is used for irrigation in Morgan, Davis, and Weber Counties.

COOPERATION.--Capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 49,840 acre-ft June 1, 1983, elevation, 5,707.5 ft; no contents at times in 1931, 1934, 1937, 1946, 1954, 1961, 1965-1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 49,350 acre-ft June 7-9, elevation, 5,706.8 ft; minimum observed, 16,130 acre-ft Mar. 26, elevation, 5,643.4 ft.

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

5,640	14,890	5,680	32,730
5,645	16,720	5,690	38,470
5,650	18,660	5,700	44,760
5,660	22,870	5,707	49,490
5,670	27,550		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANTANEOUS OBSERVATIONS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38290	38650	---	---	20000	20040	---	---	46620	---	---	44500
2	---	---	---	---	---	---	---	28150	47430	---	47970	---
3	38350	38650	38060	28650	---	20000	16760	28350	48180	48520	---	---
4	---	---	---	---	20000	---	---	28350	48660	---	48110	43980
5	---	38590	---	---	---	20000	16950	28350	49010	48520	---	---
6	38410	---	37760	---	20000	---	---	28400	49210	---	47970	43660
7	---	38590	---	26770	---	---	17330	28250	49350	48520	---	---
8	38410	---	---	---	20000	20000	---	28150	49350	---	---	43400
9	---	---	---	25810	---	20000	---	28100	49350	---	47700	---
10	38470	38590	37450	---	---	---	18660	28300	49280	48520	---	---
11	---	---	---	25200	20000	---	---	28750	49210	---	47570	42880
12	---	38650	37270	---	---	19430	19070	29410	49140	48520	---	---
13	38530	---	---	---	20040	---	---	30550	49080	---	47360	42560
14	---	38830	37100	23950	---	---	19390	31870	49010	48520	---	---
15	38650	---	---	---	---	19070	---	33500	48940	---	---	42440
16	---	---	---	---	20130	---	20370	35470	48940	---	46890	---
17	38650	38890	35940	22170	---	18660	---	36570	---	48460	---	42370
18	---	---	---	---	20130	---	---	37390	---	---	46550	---
19	38650	38950	35470	21270	---	18080	23590	38180	48800	48320	---	---
20	---	---	---	---	20080	---	---	38890	---	---	46280	42240
21	38650	---	---	20040	---	17490	24870	39740	48730	48180	---	---
22	---	38530	33720	---	---	---	---	40550	---	---	46010	42240
23	---	---	---	20500	20080	---	25910	41420	48730	48110	---	---
24	---	38890	32780	---	---	16720	---	42440	---	---	---	42050
25	38710	---	---	---	20080	---	27260	43400	---	---	45620	---
26	---	38710	---	20330	---	16130	---	44110	48660	47970	---	41930
27	38710	---	31550	---	20040	---	---	44560	---	---	45290	---
28	38710	---	---	20290	---	16350	27800	44960	48660	47840	---	---
29	---	38350	30500	---	a20040	16390	---	45290	---	---	44960	41550
30	---	a38290	---	20210	---	---	27850	45620	48590	47770	---	a41420
31	a38650	---	29820	a20130	---	16570	---	45880	---	a47840	a44630	---
(#)	---	---	5674.5	---	---	5644.6	5670.6	5701.7	5705.7	---	---	---
(*)	0	-360	-8470	-9690	-90	-3470	+11280	+18030	+2710	-750	-3210	-3210

CAL YR 1983 . . . . . (*) -11230
WTR YR 1984 . . . . . (*) +2770

(#) ELEVATION, IN FEET, AT END OF MONTH.
(*) CHANGE IN CONTENTS, IN ACRE-FEET.
(a) NO GAGE READING, CONTENTS INTERPOLATED.

10134500 EAST CANYON CREEK NEAR MORGAN, UT

LOCATION.--Lat 40°55'21", long 111°36'23", in SW1/4NW1/4NW1/4 sec.10, T.2 N., R.3 E., Morgan County, Hydrologic Unit 16020102, on right bank 2,500 ft downstream from East Canyon Dam, 2.4 mi upstream from Sheep Canyon, and 8.7 mi southeast of Morgan.

DRAINAGE AREA.--144 mi^2.

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only prior to October 1937, published in WSP 1314.

GAGE.--Water-stage recorder and Lyman rectangular weir. Altitude of gage is 5,460 ft from river-profile map.

REVISED RECORDS.--WSP 1634, WDR UT-77-1: Drainage area.

REMARKS.--Records good. No diversions between station and East Canyon Reservoir (see preceding page), which completely regulates flow.

AVERAGE DISCHARGE.--53 years, 56.5 ft^3/s, 40,930 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 872 ft^3/s May 4, 1952, gage height, 3.49 ft; minimum daily, 0.2 ft^3/s Dec. 19, 29, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 395 ft^3/s June 8, gage height, 2.05 ft; minimum daily, 7.4 ft^3/s May 14, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	46	121	289	45	44	83	273	38	152	54	129
2	52	46	119	283	45	44	83	268	38	145	53	129
3	50	46	119	286	45	44	83	329	73	138	53	129
4	49	46	117	286	45	44	83	329	181	131	74	129
5	49	46	113	283	45	44	65	329	291	124	85	129
6	49	46	86	283	45	44	85	332	334	119	98	129
7	48	46	117	283	45	44	85	332	380	118	110	128
8	48	46	113	283	45	44	85	329	389	118	110	128
9	48	46	113	278	45	106	86	326	378	124	110	129
10	48	46	113	265	45	153	86	289	363	136	108	128
11	48	46	113	268	45	153	86	237	332	133	108	129
12	46	46	113	273	45	153	86	151	305	127	107	128
13	46	46	113	268	44	153	86	81	283	122	126	91
14	46	46	195	268	44	153	86	7.4	268	119	134	70
15	46	46	302	260	44	153	88	7.4	272	113	133	70
16	46	46	247	247	44	153	88	31	268	109	133	70
17	46	46	299	252	44	192	90	127	260	122	133	70
18	46	46	291	260	44	211	90	211	255	126	133	70
19	46	45	291	255	44	209	92	213	247	134	131	70
20	46	46	281	260	44	209	92	206	238	131	130	70
21	46	46	281	190	44	209	92	164	226	125	131	70
22	46	70	281	129	44	209	92	164	216	122	131	87
23	46	113	281	110	44	209	93	110	208	121	131	97
24	46	113	278	88	44	209	93	83	200	120	130	97
25	46	113	281	88	44	206	151	121	191	119	130	97
26	46	113	289	88	44	168	216	186	183	119	129	108
27	46	113	294	76	44	27	216	211	173	119	130	118
28	46	113	281	59	44	27	216	211	165	117	129	119
29	46	104	278	45	44	62	216	211	158	117	130	119
30	46	88	286	45	---	83	230	211	155	82	130	118
31	46	---	297	45	---	83	---	113	---	55	130	---
TOTAL	1511	1905	6503	6393	1288	3842	3323	6192.8	7068	3757	3554	3155
MEAN	48.7	63.5	210	206	44.4	124	111	200	236	121	115	105
MAX	102	113	302	289	45	211	230	332	389	152	134	129
MIN	46	45	86	45	44	27	65	7.4	38	55	53	70
ACFT	3000	3780	12900	12680	2550	7620	6590	12280	14020	7450	7050	6260

CAL YR 1983	TOTAL	54156	MEAN	148	MAX	698	MIN	36	ACFT	107400	
WTR YR 1984	TOTAL	48491.8	MEAN	132	MAX	389	MIN	7.4	ACFT	96180	

10136500 WEBER RIVER AT GATEWAY, UT

LOCATION.--Lat 41°08'13", long 111°49'54", in NE1/4SW1/4SW1/4 sec.27, T.5 N., R.1 E., Morgan County, Hydrologic Unit 16020102, on left bank 400 ft downstream from tailrace of Gateway powerplant, 500 ft upstream from Union Pacific Railroad bridge, 1,200 ft downstream from Strawberry Creek, and 3,200 ft east of section house at Gateway.

DRAINAGE AREA.--1,627 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1889 to June 1893, July to December 1893 (gage heights only), August 1894 to September 1899, August to November 1900, January to October 1901, April to June 1903 (gage heights and discharge measurements only), July to August 1919, August 1920 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Uinta" 1889-1903.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,800 ft by barometer. Oct. 13, 1889 to July 11, 1903, nonrecording gage at site 1.2 mi downstream at different datum. June 22, 1919 to Oct. 22, 1929, water-stage recorder at site 900 ft upstream at different datum. Oct. 22, 1929 to Nov. 27, 1964, at sites 1,300 ft downstream at different datums.

REMARKS.--Records good. Many diversions for irrigation above and below station. Water diverted above station by Gateway Canal since July 1957, part of which returns to river above station through tailrace of Gateway hydroelectric powerplant. Flow regulated by Rockport, Echo, Lost Creek, and East Canyon Reservoirs (see stations 10129400, 10131500, 10132490, and 10134000).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 7,980 ft^3/s May 31, 1896; minimum observed, 33 ft^3/s Feb. 3, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,080 ft^3/s June 8, gage height, 7.55 ft; minimum daily, 170 ft^3/s Nov. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1630	206	317	2600	713	294	1210	3180	4100	1510	559	1130
2	1560	186	338	2500	653	294	1240	3730	3740	1450	540	1130
3	811	180	320	2300	648	301	1280	3470	3610	1240	511	1130
4	518	180	480	2400	648	297	1340	3550	3660	1080	528	1040
5	466	176	440	2250	648	286	1510	3650	4180	1010	602	813
6	429	170	420	2050	648	309	1960	3520	4370	891	660	864
7	388	186	470	2100	600	313	2170	3360	4560	823	627	808
8	388	216	460	2050	580	330	2170	3340	4890	761	624	743
9	383	203	476	1970	574	338	2240	3450	4720	781	640	616
10	425	196	590	1650	585	434	1960	3860	4390	794	670	477
11	427	206	988	1360	574	472	1820	3990	3890	757	678	469
12	399	223	1150	1160	554	505	1700	4070	3610	647	706	501
13	373	376	1190	1090	338	520	2220	4120	3370	649	709	470
14	500	346	1420	988	381	805	2360	4280	3110	654	712	613
15	478	270	1570	963	346	852	2460	4560	3040	631	718	620
16	447	244	1510	982	342	858	2370	4450	2950	608	740	601
17	425	248	1630	982	334	888	2700	4000	2910	585	754	592
18	416	294	1810	938	359	1210	3060	4320	2840	604	722	591
19	416	244	1900	901	326	1240	2830	4370	2840	592	681	589
20	407	244	2000	882	313	1370	2420	4470	2710	550	692	585
21	403	252	1980	901	326	1360	2440	4630	2590	546	679	654
22	398	334	2050	776	346	1250	2440	4560	2560	589	818	679
23	394	309	2020	747	297	1240	2520	4660	2470	581	854	721
24	255	309	2020	642	294	1280	2660	4780	2410	550	862	778
25	244	416	2030	758	309	1310	3040	4580	2240	515	868	848
26	230	363	2280	969	294	1280	2950	4520	2080	488	810	1220
27	220	321	2500	932	282	864	2790	4550	1830	518	773	1450
28	213	326	2700	926	282	730	2700	4400	1600	564	736	1450
29	206	326	2700	932	290	811	2630	4220	1530	621	789	1450
30	199	282	2800	852	---	870	2650	4090	1580	618	1030	1410
31	213	---	2780	691	---	816	---	3970	---	602	1050	---
TOTAL	14261	7832	45339	41242	12884	23727	67840	126700	94380	22809	22342	25042
MEAN	460	261	1463	1330	444	765	2261	4087	3146	736	721	835
MAX	1630	416	2800	2600	713	1370	3060	4780	4890	1510	1050	1450
MIN	199	170	317	642	282	286	1210	3180	1530	488	511	469
ACFT	28290	15530	89930	81800	25560	47060	134600	251300	187200	45240	44320	49670

CAL YR 1983	TOTAL	496785	MEAN	1361	MAX	5750	MIN	170	ACFT	985400
WTR YR 1984	TOTAL	504398	MEAN	1378	MAX	4890	MIN	170	ACFT	1000000

10137500 SOUTH FORK OGDEN RIVER NEAR HUNTSVILLE, UT

LOCATION.--Lat 41°16'07", long 111°40'24", in SE1/4NE1/4SW1/4 sec.12, T.6 N., R.2 E., Weber County, Hydrologic Unit 16020102, on right bank 0.5 mi downstream from Magpie Creek, 0.5 mi upstream from Huntsville Mountain Canal, 5.0 mi downstream from Causey Dam, and 5.0 mi east of Huntsville.

DRAINAGE AREA.--137 mi^2.

PERIOD OF RECORD.--March 1921 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,190 ft by barometer. Prior to Aug. 14, 1934, at site 300 ft upstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. One small diversion above station. Flow regulated by Causey Reservoir since Jan. 4, 1966.

AVERAGE DISCHARGE.--63 years, 115 ft^3/s, 83,320 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,890 ft^3/s May 3, 1952, gage height, 5.98 ft; minimum, 9 ft^3/s Feb. 28, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,660 ft^3/s May 16, gage height, 5.40 ft; minimum, 45 ft^3/s Nov. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	57	148	99	77	54	157	258	951	201	115	105
2	93	58	148	97	77	74	148	311	789	194	114	105
3	83	62	150	99	77	99	149	338	698	187	114	104
4	70	62	154	99	77	98	159	363	624	180	113	104
5	68	62	151	99	77	76	180	382	613	174	113	104
6	68	62	152	99	50	54	221	362	568	168	107	108
7	66	63	157	100	50	54	240	354	555	162	103	106
8	66	58	153	101	50	65	240	395	588	155	103	106
9	66	53	153	101	50	85	262	501	592	149	103	105
10	71	80	158	100	50	85	242	660	580	144	102	104
11	65	68	156	101	55	87	212	844	559	140	103	106
12	63	68	156	101	60	94	193	1080	526	136	103	106
13	62	71	155	101	60	101	185	1210	490	134	103	105
14	66	92	155	101	60	129	189	1300	474	130	103	103
15	65	117	154	99	60	136	224	1360	452	127	104	96
16	63	71	152	90	60	134	306	1490	424	124	106	86
17	62	72	152	84	60	126	416	1280	393	121	105	86
18	62	75	151	74	60	118	601	1220	367	118	103	86
19	60	73	153	70	60	128	652	1250	344	128	104	90
20	57	75	149	71	60	156	582	1330	322	119	105	94
21	56	103	148	74	107	164	545	1420	300	124	103	120
22	56	144	152	78	107	151	523	1320	282	119	103	109
23	56	144	148	83	110	152	550	1310	266	114	138	112
24	56	144	149	87	106	161	606	1340	255	112	162	115
25	56	151	150	90	105	162	618	1190	244	113	163	112
26	56	148	150	90	104	165	523	1100	234	109	162	112
27	56	147	133	87	80	162	466	1070	225	115	160	111
28	56	147	98	83	55	162	423	979	216	119	158	109
29	56	147	98	81	54	160	327	933	210	119	126	109
30	56	145	100	78	---	154	250	929	208	117	105	109
31	57	---	100	77	---	154	---	975	---	115	106	---
TOTAL	1975	2819	4483	2794	2058	3700	10389	28854	13349	4267	3612	3127
MEAN	63.7	94.0	145	90.1	71.0	119	346	931	445	138	117	104
MAX	93	151	158	101	110	165	652	1490	951	201	163	120
MIN	56	53	98	70	50	54	148	258	208	109	102	86
ACFT	3920	5590	8890	5540	4080	7340	20610	57230	26480	8460	7160	6200

CAL YR 1983	TOTAL	74322	MEAN	204	MAX	1320	MIN	53	ACFT	147400
WTR YR 1984	TOTAL	81427	MEAN	222	MAX	1490	MIN	50	ACFT	161500

10139300 WHEELER CREEK NEAR HUNTSVILLE, UT

LOCATION.--Lat 41°15'14", long 111°50'32", in SW1/4NW1/4SE1/4 sec.16, T.6 N., R.1 E., Weber County, Hydrologic Unit 16020102, on right bank 150 ft upstream from mouth, 150 ft downstream from culvert under State Highway 39, 250 ft downstream from Pine View Dam on Ogden River, 3.8 mi west of Huntsville, and 7.2 mi east of Ogden.

DRAINAGE AREA.--11.1 mi^2.

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,800 ft from topographic map.

REMARKS.--Records good except those of no gage height record, Aug. 21 to Sept. 30, which are poor.

AVERAGE DISCHARGE.--26 years, 10.7 ft^3/s, 7,750 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 533 ft^3/s May 21, 1981, gage height, 3.95 ft from indirect measurement; no flow Dec. 5, 1962, July 25, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 40 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 17	1600	*174	2.63
May 14	1900	145	2.57

Minimum, 0.81 ft^3/s Aug. 5, 6, 12-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	4.0	6.1	4.9	3.8	4.2	20	69	128	30	4.4	1.5
2	6.8	3.8	5.8	4.9	3.6	4.4	18	106	104	26	1.4	1.1
3	4.9	3.8	6.1	4.6	3.7	4.4	18	88	85	21	.89	.92
4	4.0	3.8	7.8	4.7	3.8	4.4	22	76	68	19	.94	.88
5	3.6	3.6	6.8	4.7	3.8	4.2	36	80	110	18	.81	.88
6	3.4	3.6	6.4	4.6	3.8	4.2	56	66	97	15	.81	1.1
7	3.2	4.2	6.8	4.3	3.6	4.4	66	62	95	14	.89	1.5
8	3.2	4.4	7.4	4.1	3.4	4.9	65	68	112	13	.85	1.3
9	3.2	4.0	7.1	4.5	3.5	5.5	72	76	88	12	.85	1.1
10	4.4	4.0	8.7	4.7	3.6	5.5	50	82	68	10	.85	.98
11	3.6	4.2	8.2	4.7	3.6	6.1	41	85	54	8.7	.85	.94
12	3.6	4.4	7.5	4.4	3.6	6.1	33	95	41	8.2	.81	.98
13	3.4	8.2	7.1	4.4	3.6	6.8	33	97	37	7.5	.81	1.2
14	8.2	7.5	7.1	4.4	10	18	45	97	38	6.4	.81	1.1
15	7.1	5.8	6.8	4.0	10	22	63	124	45	5.8	1.1	1.0
16	4.9	5.2	6.1	3.7	8.2	20	95	112	48	5.5	5.8	.98
17	4.4	6.8	6.4	3.9	6.8	17	126	102	45	4.4	5.5	.94
18	4.0	9.1	6.1	3.2	6.1	13	128	95	41	4.2	5.2	.85
19	3.8	6.8	6.4	3.3	5.2	14	111	80	41	3.8	5.8	.94
20	3.8	6.4	5.2	3.4	4.9	20	88	86	44	3.4	5.5	1.0
21	3.6	6.1	4.9	3.4	4.0	22	69	95	40	10	2.5	2.2
22	3.6	5.2	6.1	3.5	4.4	17	69	86	36	6.1	1.6	1.9
23	3.6	5.2	5.8	3.6	4.7	17	85	86	32	4.7	1.4	1.4
24	3.6	5.5	5.8	3.6	4.7	18	100	86	31	4.7	1.4	1.6
25	3.6	9.1	6.1	4.4	4.7	20	82	71	31	4.4	1.4	1.7
26	3.6	6.8	5.8	5.2	4.4	18	66	76	33	2.8	1.3	1.5
27	3.6	6.1	5.8	4.4	4.2	18	58	86	36	1.8	1.2	1.3
28	3.4	5.8	5.2	4.0	4.2	18	49	72	36	3.2	1.6	1.2
29	3.4	5.5	4.9	3.8	4.2	17	45	53	33	14	1.6	1.1
30	3.4	4.9	4.9	3.5	---	17	49	53	33	12	1.3	1.1
31	4.2	---	5.5	3.6	---	17	---	106	---	12	1.8	---
TOTAL	127.1	163.8	196.7	128.4	138.1	388.1	1858	2616	1730	311.6	61.97	36.19
MEAN	4.10	5.46	6.35	4.14	4.76	12.5	61.9	84.4	57.7	10.1	2.00	1.21
MAX	8.2	9.1	8.7	5.2	10	22	128	124	128	30	5.8	2.2
MIN	3.2	3.6	4.9	3.2	3.4	4.2	18	53	31	1.8	.81	.85
ACFT	252	325	390	255	274	770	3690	5190	3430	618	123	72

CAL YR 1983	TOTAL	8433.6	MEAN	23.1	MAX	121	MIN	2.6	ACFT	16730
WTR YR 1984	TOTAL	7755.96	MEAN	21.2	MAX	128	MIN	.81	ACFT	15380

10141000 WEBER RIVER NEAR PLAIN CITY, UT

LOCATION.--Lat 41°16'42", long 112°05'28", in NW1/4NW1/4NE1/4 sec.8, T.6 N., R.2 W., Weber County, Hydrologic Unit 16020102. on upstream side of right highway bridge abutment, on State Highway 40, 1 mi downstream from Fourmile Creek, 1.5 mi south of Plain City, and 6 mi upstream from mouth.

DRAINAGE AREA.--2,081 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1904 to current year. Monthly discharge only for some periods, published in WSP 1314.

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

GAGE.--Water-stage recorder. Datum of gage is 4,207.10 ft NGVD of 1929. Prior to Aug. 29, 1949, nonrecording gage at same site and datum, and Aug. 30, 1949 to June 22, 1966, water-stage recorder on right bank 50 ft upstream at same datum.

REMARKS.--Records good. Practically entire flow is diverted during summer months for irrigation above station. Flow regulated by Rockport, Echo, Lost Creek, East Canyon, and Pine View Reservoirs; also diversion above station to Willard Bay Reservoir (see stations 10129400, 10131500, 10132490, 10134000, and 10140800).

AVERAGE DISCHARGE.--19 years (1966-84), 576 ft^3/s, 417,300 acre-ft/yr since completion of storage reservoirs listed in Remarks paragraph.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft^3/s May 6, 1952, gage height, 19.01 ft; practically no flow during latter part of several summers since 1915.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,590 ft^3/s May 16, gage height, 17.75 ft; minimum daily, 121 ft^3/s July 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1760	344	906	2880	955	305	1140	2900	3810	1000	198	468
2	1800	327	1020	2680	939	305	1090	3340	3500	933	155	455
3	1470	317	1000	2550	886	302	1150	3470	3070	740	147	447
4	851	314	1270	2680	834	305	1190	3520	2990	551	138	405
5	714	455	1160	2480	832	310	1250	3530	3590	458	142	223
6	655	471	1060	2270	828	339	1530	3530	4000	400	169	213
7	600	504	1140	2350	802	378	1920	3390	4310	290	152	272
8	595	553	1210	2340	763	362	1840	3110	4720	220	155	215
9	595	519	1180	2300	710	391	2060	3270	4750	206	157	267
10	659	505	1250	2280	704	439	1720	3470	4340	171	159	267
11	653	500	1480	1940	615	538	1690	3370	3900	157	161	245
12	676	516	1770	1600	466	596	1490	3970	3540	153	162	302
13	663	587	1770	1500	374	596	1630	4200	3320	133	171	286
14	796	647	1820	1380	363	793	1890	4720	2930	137	174	283
15	828	670	1980	1340	338	1100	2050	5280	2830	133	190	312
16	750	640	1930	1370	320	1080	1910	5500	2800	132	207	299
17	736	626	1820	1280	318	1090	2090	4860	2710	124	230	284
18	720	680	2150	1240	319	1290	2460	4500	2510	121	248	292
19	710	653	2210	1230	319	1320	2690	4700	2340	131	230	291
20	708	696	2350	1270	319	1410	2360	4740	2400	126	245	287
21	640	710	2260	1240	319	1540	2020	4960	2490	278	220	435
22	493	845	2240	1190	314	1380	2010	4370	2330	347	232	461
23	481	901	2250	1140	295	1310	2080	4000	2170	299	212	519
24	443	877	2260	1160	295	1340	2150	4350	1950	236	212	655
25	365	1050	2260	1150	300	1370	2760	4930	1830	197	238	750
26	359	1010	2400	1360	300	1360	2900	4760	1700	181	280	1060
27	340	933	2740	1340	297	1070	2800	4710	1400	223	216	1360
28	337	904	2780	1290	300	823	2680	4620	1030	237	191	1420
29	330	908	2900	1290	300	765	2580	4280	964	302	183	1370
30	323	871	2910	1280	---	994	2530	3680	1120	248	279	1380
31	350	---	2930	1020	---	798	---	3420	---	236	356	---
TOTAL	21400	19533	58406	52420	14724	25999	59660	127450	85344	9100	6209	15523
MEAN	690	651	1884	1691	508	839	1989	4111	2845	294	200	517
MAX	1800	1050	2930	2880	955	1540	2900	5500	4750	1000	356	1420
MIN	323	314	906	1020	295	302	1090	2900	964	121	138	213
ACFT	42450	38740	115800	104000	29210	51570	118300	252800	169300	18050	12320	30790

CAL YR 1983	TOTAL	533997	MEAN	1463	MAX	7060	MIN	96	ACFT	1059000
WTR YR 1984	TOTAL	495768	MEAN	1355	MAX	5500	MIN	121	ACFT	983400

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.
WATER TEMPERATURES: October 1975 to September 1981, once daily.
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 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
DEC 05...	1530	1140	530	8.1	-3.0	4.5	--	9.5	650	2100
FEB 13...	1300	342	680	7.8	7.0	4.0	16	10.6	640	42
MAY 30...	1530	3780	300	8.1	28.0	14.0	80	8.7	650	200
AUG 21...	1430	209	560	7.9	27.0	19.5	26	7.3	720	450

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)
DEC 05...	1900	--	--	--	--	--	--	--	--	--
FEB 13...	77	260	5.2	69	21	44	27	1.2	4.6	240
MAY 30...	230	140	2.7	39	9.7	10	13	0.4	1.7	120
AUG 21...	140	220	4.4	59	18	33	24	1	4.5	210

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
DEC 05...	--	--	--	--	--	0.96	0.00	3.0	0.67	0.20
FEB 13...	30	62	0.2	11	387	391	0.53	357	0.72	0.29
MAY 30...	17	12	0.1	8.7	175	173	0.24	1790	0.32	0.08
AUG 21...	23	45	0.2	11	315	320	0.43	178	0.7	0.16

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
DEC 05...	0.26	1.4	1.40	1.4	6.2	0.38	1.2	0.33	0.23	0.71
FEB 13...	0.37	0.8	0.8	0.8	3.5	0.69	2.1	0.58	0.59	1.8
MAY 30...	0.1	0.9	0.9	0.9	4.0	0.21	--	0.05	0.07	0.21
AUG 21...	0.21	0.8	0.8	0.8	3.5	0.76	--	0.64	0.64	2.0

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
FEB 13...	1300	10	<1	120	<0.50	<1	<1	<3.00	10	10	<1
MAY 30...	1530	50	<1	74.00	<1.00	<1	<1	<3.00	<1	50	4
AUG 21...	1430	20	1	100	<1.00	<1	<1	<3.00	3	9.00	1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
FEB 13...	40	130	<0.1	<10	<1	<1	<1	290	<6.0	7.00
MAY 30...	20	7	<0.1	<10	<1	<1	<1	140	<6.0	6.00
AUG 21...	20	63	<0.1	<10	9	<1	<1	250	<6.0	20

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
MAY 30...	1530	3780	14.0	83	253	2580

10141040 HOOPER SLOUGH NEAR HOOPER, UT

LOCATION.--Lat 41°11'26", long 112°09'07", in NE1/4NE1/4NW1/4 sec.11, T.5 N., R.3 W., Weber County, Hydrologic Unit 16020102, on upstream end of left wingwall of bridge-covered Parshall flume, 0.5 mi east of 7500 West Street, 1.7 mi north of Hooper and 0.2 mi upstream from mouth.

DRAINAGE AREA.--13.0 mi^2.

PERIOD OF RECORD.--March 1975 to September 1977, September 1978 to September 1984 (discontinued).

GAGE.--Water-stage recorder on 6-ft concrete Parshall flume. Altitude of gage is 4,212 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--8 years, 16.0 ft^3/s, 11,590 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 88 ft^3/s Mar. 14, 1984, gage height, 3.34 ft; minimum, 1.4 ft^3/s Apr. 13, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 88 ft^3/s Mar. 14, gage height, 3.34 ft; minimum daily, 3.9 ft^3/s Apr. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	8.5	13	19	13	11	15	8.3	24	13	29	26
2	22	8.5	27	18	12	11	17	14	25	14	28	26
3	32	7.7	36	18	12	11	23	21	19	14	26	23
4	21	7.0	58	18	12	12	21	22	17	14	25	20
5	14	8.0	64	19	12	12	18	22	21	14	26	21
6	16	8.5	47	19	11	12	16	23	28	14	25	28
7	14	8.5	46	19	10	13	14	22	33	14	23	37
8	13	12	63	18	10	15	17	19	38	15	23	36
9	13	10	52	18	10	19	16	16	41	14	23	30
10	13	10	43	18	11	24	25	19	40	12	23	20
11	12	10	39	18	10	36	21	18	38	12	23	26
12	9.3	10	31	19	9.3	58	17	22	31	14	23	28
13	8.5	8.0	26	18	10	64	12	28	29	14	22	21
14	10	7.2	26	18	11	81	13	31	24	13	24	19
15	12	6.7	36	17	11	87	13	37	21	13	24	21
16	10	6.5	42	16	11	87	12	42	21	13	27	16
17	9.3	6.7	32	13	11	81	11	41	20	13	27	14
18	8.5	6.7	25	11	11	73	12	35	20	14	26	10
19	8.0	6.3	22	9.4	11	55	15	34	18	18	26	12
20	8.5	8.5	21	10	10	40	16	35	19	15	31	13
21	8.5	13	19	10	10	34	7.7	35	20	16	29	23
22	7.2	10	18	10	10	28	6.7	35	16	21	27	24
23	8.0	9.3	16	10	10	21	5.7	31	15	20	28	19
24	8.0	10	12	10	11	20	3.9	28	15	18	27	17
25	7.5	20	16	12	10	20	6.9	32	15	19	32	16
26	7.5	26	18	14	10	19	10	37	15	21	34	14
27	8.0	18	18	16	11	18	9.9	36	14	22	31	11
28	7.7	15	12	17	11	16	8.8	36	12	24	30	11
29	7.5	14	20	16	11	14	8.4	34	12	25	25	11
30	7.0	12	18	14	---	14	6.5	29	14	26	26	11
31	7.5	---	18	13	---	14	---	25	---	28	30	---
TOTAL	358.5	312.6	934	475.4	312.3	1020	398.5	867.3	675	517	823	604
MEAN	11.6	10.4	30.1	15.3	10.8	32.9	13.3	28.0	22.5	16.7	26.5	20.1
MAX	32	26	64	19	13	87	25	42	41	28	34	37
MIN	7.0	6.3	12	9.4	9.3	11	3.9	8.3	12	12	22	10
ACFT	711	620	1850	943	619	2020	790	1720	1340	1030	1630	1200

CAL YR 1983	TOTAL	7941.3	MEAN	21.8	MAX	65	MIN	6.3	ACFT	15750
WTR YR 1984	TOTAL	7297.6	MEAN	19.9	MAX	87	MIN	3.9	ACFT	14470

10141400 HOWARD SLOUGH AT HOOPER, UT

LOCATION.--Lat 41°08'25", long 112°07'17", in SW1/4SW1/4NE1/4 sec.25, T.5 N., R.3 W., Davis County, Hydrologic Unit 16020102, on upstream end of left wingwall of bridge on State Highway 37, 1.5 mi south of Hooper and 2.7 mi upstream from mouth.

DRAINAGE AREA.--20.6 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1971 to September 1984 (discontinued). Records collected at this site by U.S. Bureau of Reclamation June 1952 to September 1955.

GAGE.--Water-stage recorder. Altitude of gage is 4,215 ft from topographic map.

REMARKS.--Records good except those of no gage height record, Feb. 28 to Mar. 29, which are poor.

AVERAGE DISCHARGE.--13 years, 29.3 ft^3/s, 21,230 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 272 ft^3/s (revised) Feb. 15, 1979, gage height, 3.97 ft; minimum, 1.8 ft^3/s Apr. 30-May 2, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 120 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 04	0800	156	3.07
Mar. 14 or 15	unknown	*263	4.07
July 21	2300	125	2.55

Minimum daily, 14 ft^3/s May 8-13.

REVISIONS.--The maximum discharge, as previously published in reports for 1979 to 1983, has been revised to 272 ft^3/s, Feb. 15, 1979, gage height, 3.97 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	24	41	34	30	24	57	24	68	26	66	39
2	73	22	74	34	30	24	50	45	53	29	52	32
3	67	21	69	35	30	26	41	24	54	31	41	38
4	40	20	131	34	30	27	39	19	59	28	39	41
5	32	19	74	35	28	29	38	20	94	24	42	42
6	29	19	50	34	26	32	39	16	72	29	37	58
7	29	22	89	34	26	38	40	15	68	30	38	54
8	29	25	86	33	26	50	37	14	87	30	42	56
9	29	22	58	33	26	72	49	14	70	32	33	52
10	37	22	61	33	26	100	44	14	64	37	35	43
11	30	22	49	33	30	120	41	14	61	36	33	63
12	27	22	42	32	28	150	36	14	54	33	36	64
13	27	22	43	32	28	180	33	14	56	35	36	63
14	44	20	50	30	28	200	34	23	56	34	37	61
15	32	19	77	29	27	200	35	48	56	30	47	62
16	27	20	55	28	26	190	34	44	48	32	51	51
17	26	21	46	26	26	180	32	37	53	31	58	53
18	26	21	41	26	26	170	30	40	50	31	54	53
19	25	20	39	26	25	150	66	48	39	31	60	52
20	26	32	35	26	22	130	52	36	34	34	64	48
21	25	32	36	26	20	110	37	38	30	74	65	67
22	23	23	33	26	22	92	34	35	39	78	53	64
23	23	24	30	26	24	76	33	22	34	51	52	62
24	22	27	30	26	26	62	34	20	28	50	51	71
25	22	65	30	29	25	54	34	23	28	45	52	55
26	22	41	30	33	25	47	32	22	28	50	56	56
27	22	32	31	35	25	41	31	22	28	47	49	41
28	22	31	34	35	24	37	17	23	30	67	48	41
29	22	31	34	32	24	37	16	25	36	101	39	43
30	21	28	34	32	---	34	16	33	34	88	38	46
31	24	---	34	31	---	34	---	40	---	74	42	---
TOTAL	963	769	1566	958	759	2716	1111	826	1511	1348	1446	1571
MEAN	31.1	25.6	50.5	30.9	26.2	87.6	37.0	26.6	50.4	43.5	46.6	52.4
MAX	73	65	131	35	30	200	66	48	94	101	66	71
MIN	21	19	30	26	20	24	16	14	28	24	33	32
ACFT	1910	1530	3110	1900	1510	5390	2200	1640	3000	2670	2870	3120

CAL YR 1983	TOTAL	15340	MEAN	42.0	MAX	156	MIN	16	ACFT	30430
WTR YR 1984	TOTAL	15544	MEAN	42.5	MAX	200	MIN	14	ACFT	30830

10141400 HOWARD SLOUGH AT HOOPER, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1972 to August 1978, October 1979 to September 1984 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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									
18...	1200	25	820	8.1	17.5	11.0	9.3	649	310
NOV									
23...	1045	24	910	8.0	0.0	2.0	11.8	648	320
DEC									
21...	1220	34	1100	7.9	-5.5	0.5	12.7	643	390
JAN									
24...	1200	27	990	8.1	1.0	1.0	12.9	650	340
FEB									
28...	1130	25	940	8.0	2.5	1.0	11.8	659	320
MAR									
29...	1340	38	1100	8.1	10.0	9.5	14.8	649	370
APR									
27...	1245	34	930	8.3	10.5	9.5	11.2	652	270
MAY									
31...	1010	47	650	7.7	24.0	15.5	7.7	653	220
JUN									
27...	1130	32	800	7.8	30.5	19.0	6.8	657	260
JUL									
19...	1200	27	760	8.0	32.0	22.0	6.6	657	270
AUG									
28...	1130	53	640	8.3	29.0	20.0	7.5	659	250
SEP									
27...	0930	42	570	7.6	11.5	11.0	12.0	658	250

DATE	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT									
18...	6.3	63	38	65	30	1.6	12	310	49
NOV									
23...	6.3	59	41	78	34	2.0	15	340	51
DEC									
21...	7.9	69	54	120	38	2.7	19	440	77
JAN									
24...	6.8	65	43	93	36	2.3	13	370	62
FEB									
28...	6.4	63	40	85	35	2.1	16	370	51
MAR									
29...	7.4	57	55	94	35	2.2	13	380	66
APR									
27...	5.4	49	36	91	41	2.5	14	330	54
MAY									
31...	4.5	48	25	46	30	1.4	8.8	230	32
JUN									
27...	5.2	51	32	60	32	1.7	14	290	39
JUL									
19...	5.5	54	34	57	30	1.5	11	270	38
AUG									
28...	5.0	58	25	35	23	1	6.1	250	31
SEP									
27...	5.0	58	26	36	23	1.0	7.0	250	34

10141400 HOWARD SLOUGH AT HOOPER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
OCT 18...	56	0.3	17	485	0.66	32.7	2.5	0.10	0.31
NOV 23...	72	0.3	19	539	0.73	34.9	2.6	0.18	0.55
DEC 21...	100	0.5	25	728	0.99	67.4	5.7	0.48	1.5
JAN 24...	81	0.4	21	602	0.82	44.2	4.2	0.39	1.2
FEB 28...	77	0.4	18	572	0.78	38.6	3.5	0.60	1.8
MAR 29...	81	0.4	17	612	0.83	62.8	4.9	0.29	0.89
APR 27...	82	0.4	15	538	0.73	49.4	3.9	0.34	1.0
MAY 31...	40	0.3	17	353	0.48	44.8	1.3	0.16	0.49
JUN 27...	45	0.4	20	437	0.59	37.7	2.5	0.21	0.64
JUL 19...	42	0.3	20	420	0.57	30.6	1.2	0.13	0.4
AUG 28...	33	0.2	15	354	0.48	50.7	1.2	0.11	0.34
SEP 27...	35	0.3	14	361	0.49	40.9	1.1	0.07	0.21

DATE	TIME	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
APR 27...	1245	35	130	<1	<10	6	<1	70	0.2	<1	<1	10

DATE	TIME	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT 18...	1200	190	10	19
NOV 23...	1045	190	10	--
DEC 21...	1220	310	70	41
JAN 24...	1200	230	490	88
FEB 28...	1130	200	20	77
MAR 29...	1340	250	30	56
APR 27...	1245	230	40	56
MAY 31...	1010	160	50	37
JUN 27...	1130	200	70	40
JUL 19...	1200	180	30	16
AUG 28...	1130	120	10	21
SEP 27...	0930	110	20	15

10146400 CURRANT CREEK NEAR MONA, UT

LOCATION.--Lat 39°48'09", long 111°51'44", in NE1/4SW1/4NW1/4, sec.6, T.12 S., R.1 E., Juab County, Hydrologic Unit 16020201. on left bank 20 ft upstream from old bridge crossing, 300 ft downstream from Burriston ponds, 0.5 mi upstream from Mount Nebo Reservoir, 2 mi southwest of Mona.

DRAINAGE AREA.--225 mi^2.

PERIOD OF RECORD.--June 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,890 ft from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--6 years, 48.4 ft^3/s, 35,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 595 ft^3/s May 14, 1984, gage height, 6.30 ft; minimum, 3.4 ft^3/s Aug. 1-4, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 595 ft^3/s May 14, gage height, 6.30 ft; minimum, 24 ft^3/s July 19, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	63	88	110	56	77	90	176	224	90	38	36
2	62	61	119	88	50	76	125	232	187	70	44	34
3	60	61	123	70	50	77	120	262	148	53	38	36
4	58	64	129	68	52	77	90	235	126	46	41	36
5	60	61	91	72	55	74	80	255	165	39	48	33
6	61	59	82	75	58	75	80	258	188	34	41	32
7	59	54	70	74	59	78	95	224	398	27	49	31
8	61	64	83	72	62	88	90	210	326	28	45	31
9	61	64	84	73	65	103	110	247	262	32	42	32
10	61	59	98	67	67	122	120	309	181	34	36	32
11	62	55	95	65	69	150	123	376	162	30	33	33
12	62	56	83	70	71	160	107	476	124	29	34	37
13	61	61	69	64	76	170	99	512	120	29	34	40
14	64	72	74	54	108	190	100	566	130	35	41	38
15	72	65	101	48	93	180	113	548	139	33	43	38
16	64	63	83	42	87	175	183	501	140	28	62	39
17	60	65	66	36	75	160	235	421	138	31	50	44
18	58	102	66	32	78	115	264	370	140	32	40	42
19	57	82	69	34	83	120	337	349	129	26	41	39
20	56	89	51	38	83	110	318	323	125	25	51	39
21	56	110	44	41	84	115	203	354	115	27	45	50
22	56	94	38	45	85	105	157	367	100	31	43	52
23	56	81	35	50	85	90	167	334	101	42	43	48
24	59	74	37	54	85	95	216	332	87	37	40	49
25	58	96	39	59	81	95	331	350	71	39	38	56
26	58	83	82	64	78	100	273	287	69	35	42	56
27	59	97	161	68	77	85	234	244	63	38	40	55
28	59	108	106	68	78	75	192	220	58	38	39	53
29	59	102	100	58	78	70	164	202	51	47	38	51
30	60	97	120	50	---	70	156	187	47	63	36	52
31	62	---	160	49	---	65	---	168	---	45	33	---
TOTAL	1866	2262	2646	1858	2128	3342	4972	9895	4314	1193	1288	1244
MEAN	60.2	75.4	85.4	59.9	73.4	108	166	319	144	38.5	41.5	41.5
MAX	72	110	161	110	108	190	337	566	398	90	62	56
MIN	56	54	35	32	50	65	80	168	47	25	33	31
ACFT	3700	4490	5250	3690	4220	6630	9860	19630	8560	2370	2550	2470

CAL YR 1983	TOTAL	37528	MEAN	103	MAX	443	MIN	21	ACFT	74440
WTR YR 1984	TOTAL	37008	MEAN	101	MAX	566	MIN	25	ACFT	73410

10148200 TIE FORK NEAR SOLDIER SUMMIT, UT

LOCATION.--39°57'00", long 111°12'58", in NE1/4NE1/4SW1/4 sec.14, T.10 S., R.6 E., Utah County, Hydrologic Unit 16020202. on right bank 230 ft upstream from mouth and U.S. Highway 6-50, 250 ft downstream from Denver & Rio Grande Western Railroad, 7.4 mi west of Soldier Summit, and 15.2 mi east of Thistle.

DRAINAGE AREA.--19.4 mi^2.

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

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

GAGE.--Water-stage recorder and artificial control. Altitude of gage is 6,120 ft from topographic map.

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

AVERAGE DISCHARGE.--21 years, 6.05 ft^3/s, 4,380 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 1,200 ft^3/s Aug. 21, 1983, result of instantaneous removal of upstream blockage, gage height, about 7.85 ft from high-water mark, from rating curve extended above 26 ft^3/s on basis of slope-area measurement; minimum, 0.15 ft^3/s Aug. 19, 20, 1983, result of temporary blockage upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 15 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 16	1600	26	2.28
May 16	1500	78	3.34
Aug. 24	unknown	*177	4.70

Minimum daily, 3.7 ft^3/s Jan. 21-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	6.4	4.6	4.4	4.3	4.3	6.2	31	40	22	13	9.8
2	7.6	6.0	4.6	4.4	4.5	4.5	6.3	31	38	21	12	9.6
3	7.0	6.0	4.6	4.3	4.5	4.7	6.8	32	36	21	12	9.3
4	7.0	6.0	4.7	4.3	4.7	4.9	7.0	32	35	21	12	9.2
5	7.0	5.8	4.7	4.2	4.8	4.9	7.2	32	35	21	12	9.0
6	7.0	5.3	4.7	4.1	4.6	5.2	8.1	32	37	20	12	8.7
7	7.0	4.8	4.7	4.1	4.4	5.2	9.6	33	36	20	12	8.6
8	7.0	4.5	4.7	4.0	4.5	5.4	11	36	35	19	12	8.7
9	7.0	4.1	4.7	4.0	4.8	5.6	9.4	45	34	19	11	8.5
10	6.8	4.0	4.7	4.1	4.6	6.0	9.7	54	34	18	11	8.3
11	6.4	4.1	4.7	4.1	4.6	6.0	11	56	33	16	11	8.6
12	6.2	4.0	4.7	4.0	4.8	6.0	13	65	32	18	11	8.3
13	6.2	4.0	4.7	4.0	5.1	6.0	15	72	31	18	11	8.1
14	6.4	4.2	4.7	4.0	4.4	6.0	18	74	30	18	11	8.0
15	6.0	4.0	4.7	3.9	4.5	6.0	21	73	29	17	12	7.7
16	5.8	4.0	4.6	3.9	4.8	6.0	24	76	30	16	11	8.0
17	5.8	4.0	4.6	3.9	4.7	5.6	24	75	29	16	11	7.4
18	5.7	4.1	4.6	3.9	4.5	5.4	23	68	28	16	11	7.3
19	6.0	4.1	4.6	3.8	4.5	5.4	23	69	28	16	19	7.1
20	6.1	4.2	4.6	3.8	4.6	5.4	23	70	27	16	16	7.5
21	6.3	4.2	4.6	3.7	4.3	5.4	27	68	25	16	13	7.8
22	6.0	4.3	4.6	3.7	4.3	5.6	30	68	24	17	12	7.4
23	5.9	4.3	4.6	3.7	4.2	5.8	30	66	24	18	11	7.2
24	6.2	4.4	4.6	3.7	4.1	6.0	30	63	23	17	10	7.5
25	5.6	4.4	4.6	4.0	4.1	6.2	29	58	23	17	10	7.3
26	5.2	4.5	4.8	4.0	4.2	7.1	31	55	24	17	9.5	7.2
27	5.2	4.5	4.6	4.6	4.1	7.6	31	51	23	16	9.1	7.1
28	5.2	4.5	4.6	4.8	4.0	6.8	30	50	23	15	9.1	7.0
29	5.2	4.5	4.6	4.5	4.1	5.6	29	45	22	14	9.3	6.7
30	6.0	4.6	4.5	4.4	---	6.0	31	42	22	14	9.9	6.7
31	7.0	---	4.5	4.4	---	6.4	---	44	---	13	9.9	---
TOTAL	195.8	137.8	143.8	126.7	129.6	177.0	574.3	1666	890	543	355.8	239.6
MEAN	6.32	4.59	4.64	4.09	4.47	5.71	19.1	53.7	29.7	17.5	11.5	7.99
MAX	8.0	6.4	4.8	4.8	5.1	7.6	31	76	40	22	19	9.8
MIN	5.2	4.0	4.5	3.7	4.0	4.3	6.2	31	22	13	9.1	6.7
ACFT	388	273	285	251	257	351	1140	3300	1770	1080	706	475

CAL YR 1983	TOTAL	5219.60	MEAN	14.3	MAX	84	MIN	.20	ACFT	10350
WTR YR 1984	TOTAL	5179.4	MEAN	14.2	MAX	76	MIN	3.7	ACFT	10270

10148510 SPANISH FORK BELOW HALLS FALLS NEAR SPANISH FORK, UT

LOCATION.--Lat 40°00'34", long 111°29'42", in SE1/4SW1/4SW1/4 sec.21, T.9 S., R.4 E., Utah County, Hydrologic Unit 16020202, on right bank 1.0 mi downstream from Thistle slide, 1.2 mi upstream from Diamond Fork and 12 mi southeast of Spanish Fork.

DRAINAGE AREA.--495 mi^2 (approximately).

PERIOD OF RECORD.--April 1983 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,000 ft from topographic map.

REMARKS.--Records fair. Flow affected by lake formed by mudslide, Apr. 14, 1983, resultant construction and control of drain tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,420 ft^3/s May 15, 1984; minimum daily, 0.80 ft^3/s Apr. 17, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,420 ft^3/s May 15; minimum daily, 24 ft^3/s Nov. 23.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	2.1	1970	450	189	186
2							---	2.0	2080	462	186	180
3							---	2.0	2040	447	186	186
4							---	2.1	2020	428	191	203
5							---	2.1	1970	429	197	206
6							---	2.5	1920	420	203	191
7							---	2.3	1730	411	209	174
8							---	2.5	1560	396	212	180
9							---	2.9	1520	384	212	186
10							---	2.6	1490	370	212	180
11							---	2.5	1460	362	215	174
12							---	2.3	1430	362	228	169
13							---	2.3	1330	356	230	169
14							1.7	2.1	1210	357	226	166
15							1.7	2.1	1140	354	237	162
16							1.3	2.3	1060	349	186	159
17							.80	77	1010	338	180	157
18							.90	175	930	325	237	152
19							1.2	221	885	318	217	148
20							1.6	264	848	308	197	148
21							2.0	321	825	300	188	157
22							2.2	435	772	298	186	167
23							2.3	592	703	286	182	174
24							2.4	740	661	238	180	179
25							2.2	996	622	236	179	162
26							1.9	1290	585	203	176	169
27							1.9	1420	551	170	174	162
28							1.9	1660	531	186	180	146
29							1.9	1840	502	201	196	139
30							1.9	1950	472	186	206	128
31							---	2010	---	197	209	---
TOTAL							---	14027.7	35827	10127	6206	5059
MEAN							---	453	1194	327	200	169
MAX							---	2010	2080	462	237	206
MIN							---	2.0	472	170	174	128
ACFT							---	27820	71060	20090	12310	10030

10148510 SPANISH FORK BELOW HALLS FALLS NEAR SPANISH FORK, UT--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	615	332	202	132	124	136	288	544	985	362	198	155
2	846	665	145	126	108	141	253	699	875	342	190	150
3	584	651	143	108	110	141	253	717	796	330	190	145
4	338	618	136	113	110	136	281	750	742	320	188	144
5	444	490	128	81	111	132	332	784	746	312	218	142
6	841	366	104	121	117	136	395	774	860	302	202	140
7	909	223	117	121	117	136	412	717	1040	290	190	139
8	628	926	126	115	113	143	382	789	890	278	180	140
9	384	845	76	123	111	147	428	981	815	272	180	139
10	278	797	196	117	113	167	364	1250	762	265	172	140
11	568	454	642	126	117	176	391	1530	723	258	175	142
12	979	302	260	126	117	174	336	1870	681	248	182	147
13	944	234	176	117	117	176	364	2120	646	252	180	142
14	932	178	174	126	130	218	432	2280	615	248	200	139
15	870	814	158	117	123	230	563	2420	592	230	250	139
16	670	771	123	117	124	250	699	2280	573	225	210	140
17	326	363	134	73	126	240	846	1980	546	220	200	137
18	502	248	130	50	126	210	911	1830	523	220	190	129
19	819	231	130	70	132	180	878	1780	507	212	200	127
20	776	234	63	90	121	200	699	1800	484	215	280	132
21	660	200	216	108	123	220	573	1900	457	230	210	155
22	505	69	117	103	141	210	558	1820	434	235	180	140
23	308	24	117	108	123	210	650	1740	412	220	170	139
24	134	731	117	110	136	230	846	1740	400	210	165	142
25	260	582	124	111	136	250	905	1610	388	210	170	150
26	960	302	136	113	132	250	735	1460	378	212	163	147
27	614	167	145	99	128	230	634	1320	365	212	160	139
28	333	239	124	106	132	227	568	1210	358	222	157	139
29	393	211	108	104	132	240	520	1130	350	228	155	139
30	180	234	141	104	---	253	505	1070	370	210	154	140
31	248	---	151	92	---	259	---	1020	---	198	157	---
TOTAL	17848	12501	4859	3327	3550	6048	16001	43915	18313	7788	5816	4238
MEAN	576	417	157	107	122	195	533	1417	610	251	188	141
MAX	979	926	642	132	141	259	911	2420	1040	362	280	155
MIN	134	24	63	50	108	132	253	544	350	198	154	127
ACFT	35400	24800	9640	6600	7040	12000	31740	87110	36320	15450	11540	8410

WTR YR 1984 TOTAL 144204 MEAN 394 MAX 2420 MIN 24 ACFT 286000

10150500 SPANISH FORK AT CASTILLA, UT

LOCATION.--Lat 40°02'59", long 111°32'50", in SE1/4NE1/4NW1/4 sec.12, T.9 S., R.3 E., Utah County, Hydrologic Unit 16020202, on right bank 600 ft upstream from outlet of Cold Springs, 0.9 mi upstream from diversion dam of Bureau of Reclamation, 1.5 mi northwest of Castilla, and 2.8 mi downstream from Diamond Fork.

DRAINAGE AREA.--652 mi^2.

PERIOD OF RECORD.--September 1889 to December 1890, April 1903 to November 1917, May 1919 to September 1925, January 1933 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Spanish Fork" 1889-90, 1903-08.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,870 ft from topographic map. Prior to May 3, 1919, nonrecording gages at various sites 1.5 mi to 2.5 mi downstream from present site at different datums below power canal, which began diverting late in 1908. May 3, 1919, to Apr. 14, 1920, nonrecording gage, Apr. 15, 1920, to Sept. 30, 1925, and Jan. 1, 1933, to Apr. 16, 1940, water-stage recorder, at present site upstream from power canal at datum 2.00 ft lower.

REMARKS.--Records fair. Several small diversions for irrigation above station. Flow since June 1915 includes water diverted from Strawberry Reservoir, capacity, 270,000 acre-ft, in Colorado River Basin via Strawberry Tunnel for irrigation in vicinity of Spanish Fork. Flow affected by mudslide and draining of resultant lake about 5 mi upstream Apr. 14 to Sept. 30, 1983.

AVERAGE DISCHARGE.--13 years (1890, 1903-14), 172 ft^3/s; 60 years (1914-17, 1919-25, 1933-84), 228 ft^3/s, 165,200 acre-ft/yr; includes transmountain diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,000 ft^3/s May 15, 1984, gage height, 11.53 ft; minimum, 5.8 ft^3/s Dec. 18, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,000 ft^3/s May 15, gage height, 11.53 ft; minimum daily, 100 ft^3/s Nov. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	713	422	269	180	157	162	421	992	1330	652	339	265
2	853	706	219	170	153	164	373	1210	1200	619	339	256
3	657	708	190	150	153	164	379	1220	1120	603	333	247
4	502	659	170	155	158	162	411	1250	1050	582	337	240
5	542	540	160	115	155	151	490	1300	1070	570	362	244
6	801	402	150	165	160	163	590	1260	1230	574	352	255
7	855	256	160	160	161	170	620	1160	1470	572	333	257
8	631	933	180	155	158	177	591	1260	1250	562	345	271
9	458	855	170	165	159	186	657	1520	1150	566	363	296
10	443	892	320	160	162	199	574	1950	1090	559	395	307
11	673	560	723	170	158	212	606	2420	1040	553	422	310
12	910	392	349	170	155	210	532	3020	978	547	400	314
13	889	327	250	160	159	214	591	3560	926	569	440	294
14	879	286	244	170	174	289	686	3670	881	519	450	287
15	812	795	210	160	162	302	856	3700	849	457	480	286
16	648	824	170	160	166	328	1080	3370	816	434	420	293
17	481	473	180	150	168	317	1280	2860	802	454	370	241
18	653	337	170	150	163	276	1460	2500	785	463	290	219
19	1020	304	170	150	156	259	1410	2380	727	460	300	236
20	963	307	130	150	146	280	1110	2420	710	465	370	246
21	828	287	165	150	159	309	934	2580	684	492	260	276
22	664	150	165	140	166	302	938	2450	673	433	250	244
23	460	100	165	150	151	296	1070	2310	666	382	230	221
24	230	721	165	150	159	321	1320	2340	671	361	220	219
25	360	657	170	150	162	356	1450	2180	660	354	255	217
26	1020	399	180	150	155	354	1190	1920	663	352	249	222
27	755	239	190	145	151	333	1050	1750	632	365	242	188
28	473	308	170	150	159	327	966	1580	626	376	238	185
29	413	250	160	150	157	353	919	1470	635	379	234	185
30	305	308	180	150	---	366	896	1410	673	365	238	188
31	376	---	190	145	---	376	---	1370	---	345	258	---
TOTAL	20267	14397	6484	4795	4602	8078	25450	64382	27057	14984	10114	7509
MEAN	654	480	209	155	159	261	848	2077	902	483	326	250
MAX	1020	933	723	180	174	376	1460	3700	1470	652	480	314
MIN	230	100	130	115	146	151	373	992	626	345	220	185
ACFT	40200	28560	12860	9510	9130	16020	50480	127700	53670	29720	20060	14890

CAL YR 1983	TOTAL	181245	MEAN	497	MAX	2770	MIN	97	ACFT	359500
WTR YR 1984	TOTAL	208119	MEAN	569	MAX	3700	MIN	100	ACFT	412800

10152000 SPANISH FORK NEAR LAKESHORE, UT

LOCATION.--Lat 40°09'30", long 111°43'50", in SE1/4SE1/4SE1/4 sec.32, T.7 S., R.2 E., Utah County, Hydrologic Unit 16020202, on left bank 1.1 mi upstream from mouth and 2.5 mi north of Lake Shore.

DRAINAGE AREA.--675 mi^2.

PERIOD OF RECORD.--December 1903 to September 1907, March 1909 to December 1919, May 1920 to September 1925, January 1938 to current year. Published "at Lake Shore" 1909, 1913-25.

REVISED RECORDS.--WSP 1314: 1904. WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,500 ft from topographic map. Prior to Jan. 23, 1938, nonrecording gages at several sites about 3 mi upstream at various datums. Jan. 23, 1938 to Mar. 23, 1953, water-stage recorder at present site at different datums. Mar. 24, 1953 to Sept. 15, 1957, water-stage recorder at present site at datum 4.0 ft higher.

REMARKS.--Records poor. Flow regulated by many diversions for irrigation and hydroelectric powerplant. During latter part of irrigation season, only wasted and return waters pass gage. Station is below all diversions.

AVERAGE DISCHARGE.--64 years (water years 1905-07, 1910-18, 1921-25, 1939-84), 97.5 ft^3/s, 70,640 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,320 ft^3/s May 15, 1984, gage height, 11.39 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,320 ft^3/s May 15, gage height, 11.39 ft; minimum daily, 36 ft^3/s Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	289	347	310	190	170	180	440	1020	973	100	89	95
2	531	638	260	180	160	180	450	1200	818	71	115	85
3	644	806	230	170	160	180	440	1210	799	66	83	84
4	443	761	210	180	170	180	490	1260	729	65	61	71
5	413	751	200	170	170	170	613	1260	799	53	54	36
6	569	624	190	180	170	180	620	1190	997	63	88	48
7	860	449	180	170	170	190	680	1150	1580	66	61	51
8	756	663	190	170	170	200	660	1220	1360	76	59	45
9	575	693	230	180	180	210	700	1540	1240	67	55	61
10	498	877	272	170	170	220	660	1820	1150	91	52	56
11	413	741	300	180	170	230	680	2180	1100	106	44	58
12	954	594	270	180	170	240	640	2510	987	98	47	107
13	991	504	240	170	170	260	700	2910	892	116	48	150
14	1000	495	220	180	170	310	830	3190	867	110	69	137
15	917	438	206	170	180	330	1000	3130	864	100	84	115
16	779	679	200	170	170	340	1240	2410	840	74	144	126
17	560	543	190	160	170	340	1440	2210	806	72	143	120
18	507	405	190	160	170	320	1630	2100	700	73	107	80
19	877	369	180	160	170	300	1350	2000	576	64	120	65
20	912	363	170	160	160	320	1010	2100	350	70	266	64
21	768	376	180	160	170	340	1000	2290	200	121	221	137
22	754	303	182	150	180	340	1000	2340	120	181	197	133
23	557	203	191	160	170	330	1200	2050	70	179	205	123
24	432	316	182	160	170	360	1400	2250	78	168	221	136
25	452	341	190	160	180	380	1600	1940	90	142	201	170
26	804	309	200	160	170	390	1300	1630	80	106	184	159
27	843	291	200	151	170	360	1150	1540	70	97	156	216
28	613	293	190	160	180	370	1080	1280	70	103	122	194
29	529	301	190	160	180	380	1010	1140	70	130	116	185
30	487	303	190	160	---	400	956	1080	70	147	93	207
31	480	---	200	160	---	430	---	1010	---	114	69	---
TOTAL	20207	14776	6533	5191	4960	8960	27969	56160	19345	3089	3574	3314
MEAN	652	493	211	167	171	289	932	1812	645	99.6	115	110
MAX	1000	877	310	190	180	430	1630	3190	1580	181	266	216
MIN	289	203	170	150	160	170	440	1010	70	53	44	36
ACFT	40080	29310	12960	10300	9840	17770	55480	111400	38370	6130	7090	6570

CAL YR 1983	TOTAL	145164	MEAN	398	MAX	3010	MIN	15	ACFT	287900
WTR YR 1984	TOTAL	174078	MEAN	476	MAX	3190	MIN	36	ACFT	345300

10153800 NORTH FORK PROVO RIVER NEAR KAMAS, UT

LOCATION.--Lat 40°35'48", long 111°05'48", in NE1/4SW1/4SE1/4 sec.36, T.2 S., R.7 E., Summit County, Hydrologic Unit 16020203, on right bank 500 ft upstream from bridge on State Highway 150, 1,500 ft upstream from mouth, and 9.5 mi southeast of Kamas.

DRAINAGE AREA.--24.4 mi^2.

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

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

GAGE.--Water-stage recorder. Altitude of gage is 7,480 ft from topographic map.

REMARKS.--Records fair. Slight regulation from several small reservoirs at headwaters used for storing water for release during the summer and fall. No diversions above station.

AVERAGE DISCHARGE.--21 years, 40.7 ft^3/s, 29,490 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 705 ft^3/s July 4, 1975, gage height, 3.00 ft; minimum recorded, 1.9 ft^3/s several days during winter of 1964-65.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 15	0500	360	2.26
May 23	1900	469	2.55
May 31	1800	*484	2.59

Minimum daily, 5.0 ft^3/s Jan. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	15	11	8.0	9.8	8.1	7.7	27	384	132	53	15
2	19	14	12	8.8	9.5	7.9	7.7	27	325	118	51	13
3	21	14	12	9.0	10	7.4	8.0	27	311	105	48	11
4	19	12	10	9.0	10	7.3	9.2	26	224	95	55	10
5	18	12	9.0	9.0	10	7.5	9.4	26	202	87	50	12
6	17	11	9.5	9.0	10	6.8	9.1	27	178	80	46	13
7	16	11	11	9.0	10	7.1	9.3	25	151	72	44	11
8	16	12	11	9.0	9.9	6.9	9.1	31	142	69	42	11
9	16	11	11	9.0	9.6	6.7	9.8	43	129	75	41	12
10	23	12	11	9.0	9.6	6.6	10	67	123	73	40	17
11	22	11	11	8.5	9.9	6.6	11	88	119	63	38	31
12	19	12	11	7.8	9.5	6.9	11	105	120	59	38	25
13	19	12	11	7.0	8.9	6.5	12	160	136	55	37	22
14	21	12	11	6.5	9.0	7.8	9.5	257	178	54	37	20
15	21	11	11	6.2	9.1	7.4	13	307	203	52	37	19
16	19	11	10	5.8	9.3	7.4	19	291	198	50	36	18
17	19	12	10	5.4	9.3	7.8	29	231	193	47	35	17
18	19	9.5	10	5.0	8.4	7.4	42	257	220	44	33	15
19	19	8.6	11	5.8	8.2	7.3	45	278	215	43	30	15
20	18	9.8	8.5	6.8	8.7	7.6	36	328	219	42	44	28
21	18	8.0	7.5	7.0	9.0	7.9	32	347	234	47	30	25
22	17	7.0	7.0	7.5	8.8	7.9	33	346	226	69	25	21
23	17	7.4	7.5	8.0	8.4	7.6	36	406	212	66	24	20
24	17	8.5	8.5	9.0	8.8	7.6	41	369	197	63	25	21
25	16	9.8	9.0	10	8.9	7.9	39	287	193	63	25	21
26	15	9.0	9.5	9.8	8.7	8.6	37	268	177	60	23	20
27	15	9.5	8.0	9.8	8.3	8.0	33	282	158	57	22	19
28	14	10	8.5	9.8	7.9	7.9	31	277	152	56	21	18
29	13	9.5	9.0	9.8	8.1	7.7	29	323	147	60	19	17
30	12	10	9.8	9.8	---	7.7	28	374	144	56	19	16
31	14	---	8.5	9.8	---	7.7	---	422	---	54	17	---
TOTAL	546	321.6	304.8	253.9	265.6	231.5	655.8	6329	5810	2066	1085	533
MEAN	17.6	10.7	9.83	8.19	9.16	7.47	21.9	204	194	66.6	35.0	17.8
MAX	23	15	12	10	10	8.6	45	422	384	132	55	31
MIN	12	7.0	7.0	5.0	7.9	6.5	7.7	25	119	42	17	10
ACFT	1080	638	605	504	527	459	1300	12550	11520	4100	2150	1060

CAL YR 1983	TOTAL	18563.2	MEAN	50.9	MAX	414	MIN	6.2	ACFT	36820
WTR YR 1984	TOTAL	18402.2	MEAN	50.3	MAX	422	MIN	5.0	ACFT	36500

10154200 PROVO RIVER NEAR WOODLAND, UT

LOCATION.--Lat 40°33'28", long 111°10'05", in NE1/4NW1/4SE1/4 sec.17, T.3 S., R.7 E., Summit County, Hydrologic Unit 16020203, on right bank on south side of State Highway 35, 0.3 mi downstream from Twin Pine Bridge, 1.6 mi downstream from South Fork and 3.5 mi southeast of Woodland.

DRAINAGE AREA.--162 mi^2.

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

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

GAGE.--Water-stage recorder. Altitude of gage is 6,950 ft from topographic map.

REMARKS.--Records good. Records include flow of Duchesne Tunnel, transmountain diversion. Flow also affected by some small irrigation diversions above station and by storage in several small reservoirs at headwaters. Information on these is available from the Provo River Water Commissioner's Report.

AVERAGE DISCHARGE.--21 years, 224 ft^3/s, 162,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,950 ft^3/s May 28, 1979, gage height, 5.32 ft; minimum, 22 ft^3/s Nov. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,520 ft^3/s May 23, gage height, 5.18 ft; minimum, 42 ft^3/s Mar. 5, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	97	104	93	83	73	80	192	1910	491	216	116
2	134	97	103	89	78	72	78	192	1560	432	190	109
3	140	94	100	97	79	73	76	188	1610	400	194	109
4	130	92	94	99	79	70	79	188	1240	377	208	109
5	122	90	86	96	78	60	88	185	1200	358	183	109
6	114	88	93	95	78	76	95	185	1130	324	188	113
7	101	89	103	94	78	72	94	185	1010	305	197	112
8	103	95	104	93	76	71	96	224	873	301	200	112
9	100	78	101	92	77	72	102	319	744	319	199	112
10	124	93	101	87	79	72	92	499	715	303	193	112
11	120	92	99	96	78	74	93	571	680	266	191	112
12	109	94	100	91	77	72	80	777	662	254	190	135
13	105	104	96	88	78	71	94	1110	728	247	188	125
14	121	99	98	90	79	79	98	1430	853	253	181	114
15	114	92	98	82	71	75	124	1720	928	289	158	112
16	110	95	88	74	79	77	171	1730	887	285	177	112
17	109	97	102	84	78	74	229	1480	849	255	156	110
18	110	99	95	54	76	76	286	1410	900	254	149	110
19	107	88	101	76	68	70	285	1510	895	246	163	109
20	101	101	92	79	70	77	234	1740	854	217	231	109
21	99	102	74	82	77	82	210	1940	868	244	164	156
22	96	88	86	90	76	76	220	1810	840	281	149	118
23	95	83	90	97	68	70	251	1980	794	260	150	108
24	99	95	90	93	75	77	276	2040	760	261	147	110
25	95	100	98	89	74	79	278	1610	751	266	150	107
26	92	97	115	87	73	78	240	1530	705	229	137	104
27	88	92	110	82	68	74	218	1640	641	221	123	103
28	87	98	95	83	73	72	202	1530	599	215	119	103
29	88	96	94	82	72	79	195	1610	560	229	113	101
30	87	93	105	80	---	78	188	1810	538	208	110	101
31	94	---	102	81	---	77	---	2020	---	213	118	---
TOTAL	3322	2818	3017	2695	2195	2298	4852	35355	27284	8803	5232	3372
MEAN	107	93.9	97.3	86.9	75.7	74.1	162	1140	909	284	169	112
MAX	140	104	115	99	83	82	286	2040	1910	491	231	156
MIN	87	78	74	54	68	60	76	185	538	208	110	101
ACFT	6590	5590	5980	5350	4350	4560	9620	70130	54120	17460	10380	6690

CAL YR 1983	TOTAL	101336	MEAN	278	MAX	2200	MIN	60	ACFT	201000
WTR YR 1984	TOTAL	101243	MEAN	277	MAX	2040	MIN	54	ACFT	200800

10155000 PROVO RIVER NEAR HAILSTONE, UT

LOCATION.--Lat 40°36'03", long 111°21'35", in SW1/4NE1/4SE1/4 sec.34, T.2 S., R.5 E., Wasatch County, Hydrologic Unit 16020203, on right bank 3 mi upstream from Ross Creek and Hailstone.

DRAINAGE AREA.--233 mi^2.

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,100 ft from river-profile map. Prior to Nov. 20, 1964 at datum 1.00 6 ft higher.

REMARKS.--Records fair. Records include flow of Weber-Provo diversion canal and Duchesne Tunnel, a transmountain diversion. Flow also affected by irrigation diversions above station and by storage in several small reservoirs at headwaters. Information on flow of Weber-Provo diversion canal, Duchesne Tunnel, and capacities of small reservoirs--total capacity, 10,080 acre-ft--is available from Provo River Water Commissioner's Report.

AVERAGE DISCHARGE.--31 years (1954-84) 285 ft^3/s, 206,500 acre-ft/yr, since completion of Duchesne Tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,020 ft^3/s May 31, 1983, gage height, 8.02 ft; minimum, 11 ft^3/s Aug. 20, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,880 ft^3/s June 1, gage height, 8.40 ft; minimum daily, 94 ft^3/s Jan. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	129	141	133	123	110	135	262	2400	488	239	124
2	173	136	140	129	118	110	139	274	1950	437	221	110
3	185	133	136	137	119	110	139	254	2060	394	211	101
4	166	131	131	139	117	108	143	254	1570	349	194	96
5	158	128	123	136	117	97	168	254	1520	335	188	95
6	148	126	130	136	117	114	190	247	1510	295	170	111
7	136	128	140	136	117	110	190	243	1390	321	165	115
8	135	133	140	135	114	108	186	295	1150	344	158	103
9	134	116	138	133	116	110	196	404	938	488	144	101
10	180	130	138	129	117	110	162	531	860	513	134	99
11	170	131	136	137	117	111	156	630	818	415	123	103
12	153	133	137	133	116	110	132	762	754	359	128	145
13	147	143	134	129	117	108	150	1010	778	308	128	147
14	167	138	137	132	117	117	161	1440	920	278	147	132
15	161	128	136	123	110	112	201	1880	1060	312	134	128
16	153	133	127	115	117	116	282	1880	1010	295	168	122
17	150	134	141	110	116	111	373	1510	947	303	136	116
18	150	138	134	94	114	112	459	1310	1010	286	113	108
19	147	126	139	118	105	107	448	1460	1020	258	140	105
20	142	138	130	122	107	114	354	1640	929	258	265	105
21	137	140	112	124	114	108	299	2010	947	303	148	185
22	137	125	124	131	112	102	316	1680	920	326	124	145
23	132	120	128	138	105	107	368	2230	851	295	133	120
24	139	131	129	133	111	114	399	2340	802	270	130	147
25	132	138	138	129	111	118	404	1840	794	308	152	147
26	129	133	155	127	110	120	330	1690	739	299	153	147
27	124	130	150	122	105	114	299	1980	658	286	131	137
28	124	134	135	123	111	116	266	1850	596	266	127	127
29	122	134	134	122	110	118	254	1950	550	262	122	122
30	122	131	145	120	---	126	236	2210	531	258	116	115
31	127	---	142	121	---	124	---	2520	---	250	117	---
TOTAL	4544	3948	4200	3946	3300	3472	7535	38840	31982	10159	4759	3658
MEAN	147	132	135	127	114	112	251	1253	1066	328	154	122
MAX	185	143	155	139	123	126	459	2520	2400	513	265	185
MIN	122	116	112	94	105	97	132	243	531	250	113	95
ACFT	9010	7830	8330	7830	6550	6890	14950	77040	63440	20150	9440	7260

CAL YR 1983	TOTAL	132941	MEAN	364	MAX	2880	MIN	77	ACFT	263700
WTR YR 1984	TOTAL	120343	MEAN	329	MAX	2520	MIN	94	ACFT	238700

10159500 PROVO RIVER BELOW DEER CREEK DAM, UT

LOCATION.--Lat 40°24'12", long 111°31'44", in NE1/4NE1/4NE1/4 sec.7, T.5 S., R.4 E., Wasatch County, Hydrologic Unit 16020203, on right bank 200 ft upstream from Deer Creek, 1,000 ft downstream from Deer Creek Dam, and 4.1 mi northeast of Vivian Park.

DRAINAGE AREA.--547 mi^2.

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

REVISED RECORDS.--WDR UT-77-1: Drainage area. WDR UT-81-1: 1980.

GAGE.--Water-stage recorder. Altitude of gage is 5,270 ft from topographic map.

REMARKS.--Records good. Flow regulated by Deer Creek Reservoir and by small lakes at headwaters that serve as reservoirs. Small transmountain diversions from Strawberry River drain into Daniels Creek. Flow also affected by irrigation diversions above station and water diverted to Provo River by Weber-Provo diversion canal and Duchesne Tunnel, a transmountain diversion. Information is available on these stations from the Provo River Water Commissioner's Report.

AVERAGE DISCHARGE.--31 years, 372 ft^3/s, 269,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,260 ft^3/s June 3, 1983, gage height, 9.11 ft; no flow Feb. 2, 3, 1957, Nov. 12, 19, 1961, when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,140 ft^3/s May 24, gage height, 8.56; minimum, 22 ft^3/s Nov. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	510	369	106	589	224	373	558	972	1670	478	316	378
2	511	373	229	589	229	362	554	950	1660	478	320	383
3	515	377	250	589	236	365	552	937	1650	478	319	382
4	515	378	250	589	240	364	552	936	1520	476	317	388
5	515	375	249	588	241	357	550	989	1220	472	326	406
6	515	375	253	584	241	363	550	1050	1030	457	355	437
7	509	249	279	579	249	366	548	1120	963	442	348	381
8	498	192	363	579	256	298	547	1120	1060	434	372	371
9	496	181	464	518	251	266	545	1110	1130	436	392	374
10	496	188	509	453	246	266	543	946	1130	426	417	410
11	519	209	517	445	246	266	542	1030	1090	402	415	439
12	511	218	517	451	246	266	539	1190	1050	397	415	440
13	526	221	546	439	246	266	523	1240	1050	388	415	508
14	526	211	566	437	246	266	525	1200	1050	365	415	530
15	526	140	564	437	246	266	537	897	1030	340	373	545
16	526	128	574	441	246	266	537	813	1030	357	363	545
17	550	138	577	464	244	266	541	1080	1030	391	369	569
18	551	138	579	388	280	304	594	1320	980	395	371	571
19	550	136	579	465	306	335	612	1320	940	400	360	516
20	550	138	579	462	303	346	604	1310	941	400	356	450
21	553	138	579	447	301	346	594	1330	944	388	354	410
22	552	137	579	449	301	346	588	1350	946	381	361	378
23	550	137	579	305	341	346	586	1490	946	352	361	379
24	468	135	582	214	358	364	595	1920	943	353	357	335
25	399	110	584	209	356	386	599	1870	942	353	361	305
26	399	106	584	209	356	417	596	1480	940	360	363	302
27	385	105	584	209	356	469	595	1130	928	371	350	332
28	371	106	584	208	369	486	636	867	717	370	342	353
29	363	106	586	206	376	519	736	1040	539	354	340	354
30	366	106	589	206	---	537	824	1540	501	343	381	353
31	366	---	589	212	---	550	---	1640	---	317	380	---
TOTAL	15187	5920	14969	12960	8136	10993	17402	37187	31570	12354	11284	12524
MEAN	490	197	483	418	281	355	580	1200	1052	399	364	417
MAX	553	378	589	589	376	550	824	1920	1670	478	417	571
MIN	363	105	106	206	224	266	523	813	501	317	316	302
ACFT	30120	11740	29690	25710	16140	21800	34520	73760	62620	24500	22380	24840

CAL YR 1983	TOTAL	192142	MEAN	526	MAX	2240	MIN	105	ACFT	381100
WTR YR 1984	TOTAL	190486	MEAN	520	MAX	1920	MIN	105	ACFT	377800

NOTE.--No gage height record Jan. 29 to Mar. 29.

10163000 PROVO RIVER AT PROVO, UT

LOCATION.--Lat 40°14'16", long°41'55", in NE1/4NW1/4SE1/4 sec.3, T.7 S., R.2 E., Utah County, Hydrologic Unit 16020203, on left bank 1,300 ft downstream from bridge on State Highway 114, 2.1 mi west of Provo, and 2.1 mi upstream from mouth.

DRAINAGE AREA.--673 mi^2.

PERIOD OF RECORD.--May 1903 to June 1905, May 1933 to September 1934, January 1937 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "at San Pedro, Los Angeles and Salt Lake Railroad bridge, near Provo" 1903-04, and as "at Rio Grande Western Railroad bridge, near Provo" 1905.

REVISED RECORDS.--WSP 1564: 1904, 1934. WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,510 ft from topographic map. May 1903 to June 1905, nonrecording gages at site 0.8 mi upstream at different datums. May 1933 to September 1934, nonrecording gage at present site at different datum. January 1937 to November 1938, water-stage recorder at site 1,000 ft upstream at different datum. November 1938 to August 1957, water-stage recorder at present site at datum 2.00 ft higher.

REMARKS.--Records good. Station is below all diversions. At time entire flow is diverted above station for irrigation. Flow regulated by Deer Creek Reservoir and small lakes at headwaters that serve as reservoirs. Small transmountain diversions from Strawberry River drain into Daniels Creek. Flow affected by Weber-Provo diversion canal and Duchesne Tunnel, a transmountain diversion. Certain diversions for industrial use which reach Provo Bay, an arm of Utah Lake, are made above station; however, part of this flow is used for irrigation.

AVERAGE DISCHARGE.--49 years, 204 ft^3/s, 147,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,520 ft^3/s May 6, 1952, gage height, 6.37 ft; no flow for several periods.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,050 ft^3/s May 25, gage height, 6.94 ft; minimum, 16 ft^3/s July 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	390	440	256	678	300	461	655	1110	1650	175	51	43
2	411	446	382	661	300	469	682	1150	1670	155	61	42
3	427	445	381	644	300	468	651	1150	1690	138	59	34
4	427	459	396	637	300	478	633	1130	1660	142	45	40
5	441	446	357	620	300	472	629	1160	1370	123	55	53
6	463	446	353	630	300	472	628	1220	1200	96	49	74
7	495	375	371	631	300	483	626	1270	1310	74	40	85
8	495	285	423	630	300	463	618	1260	1470	66	43	84
9	493	241	499	609	300	421	632	1240	1640	76	44	96
10	508	231	549	557	302	428	637	1110	1620	114	40	97
11	541	241	569	528	304	445	626	1120	1500	91	38	106
12	535	245	569	531	304	435	603	1350	1310	72	34	119
13	551	252	582	522	312	432	574	1440	980	84	30	206
14	578	263	638	517	352	434	569	1430	860	96	59	265
15	597	224	673	512	348	445	582	1020	777	62	59	318
16	594	193	638	515	355	511	593	684	761	41	62	313
17	610	194	626	531	349	549	611	682	733	27	61	317
18	612	201	627	531	359	561	635	987	686	23	71	336
19	606	198	635	531	410	569	663	984	616	22	83	294
20	601	237	629	531	417	581	635	943	606	22	112	163
21	603	243	616	531	417	557	610	961	596	31	97	174
22	610	223	616	531	417	565	597	990	550	84	83	173
23	615	212	614	531	420	562	597	1120	523	125	69	171
24	588	207	616	520	430	539	604	1630	517	137	73	258
25	471	269	633	383	438	532	605	1870	510	114	93	291
26	465	229	726	326	451	536	602	1370	519	87	109	287
27	452	214	759	321	454	555	557	996	513	77	106	301
28	431	210	689	313	456	573	601	959	457	68	78	321
29	420	211	669	305	460	588	764	955	249	73	69	302
30	421	206	664	300	---	604	977	1210	209	55	57	307
31	428	---	693	300	---	635	---	1470	---	55	54	---
TOTAL	15879	8286	17448	15907	10455	15823	18996	35971	28752	2605	1984	5670
MEAN	512	276	563	513	361	510	633	1160	958	84.0	64.0	189
MAX	615	459	759	678	460	635	977	1870	1690	175	112	336
MIN	390	193	256	300	300	421	557	682	209	22	30	34
ACFT	31500	16440	34610	31550	20740	31380	37680	71350	57030	5170	3940	11250

CAL YR 1983	TOTAL	181867	MEAN	498	MAX	2220	MIN	36	ACFT	360700
WTR YR 1984	TOTAL	177776	MEAN	486	MAX	1870	MIN	22	ACFT	352600

10164500 AMERICAN FORK ABOVE UPPER POWERPLANT, NEAR AMERICAN FORK, UT

LOCATION.--Lat 40°26'52", long 111°40'53", in SE1/4NW1/4NE1/4 sec.26, T.4 S., R.2 E., Utah County, Hydrologic Unit 16020201, on left bank 600 ft downstream from Rock Creek, 1,000 ft upstream from intake for upper powerplant of Utah Power & Light Co., 4.0 mi upstream from mouth of canyon, and 6.7 mi northeast of American Fork.

DRAINAGE AREA.--51.1 mi^2.

PERIOD OF RECORD.--January 1927 to current year. Monthly discharge only January 1927 to September 1945, published in WSP 1314.

REVISED RECORDS.--WSP 1634: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,950 ft from topographic map. Prior to Sept. 8, 1965, at same site at different datum. Sept. 8, 1965 to Nov. 20, 1967, at site 300 ft upstream.

REMARKS.--Records good. Flow regulated by Silver Lake Flat Reservoir (constructed 1971) and Tibble Reservoir; total capacity, 1,260 acre-ft.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--57 years, 56.6 ft^3/s, 41,010 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge not determined, occurred July 30, 1953, gage height, 9.20 ft, from floodmark; minimum, 1.1 ft^3/s Dec. 20, 1976 (result of freezeup).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 600 ft^3/s June 1; minimum daily, 18 ft^3/s Feb. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	39	34	28	21	19	27	61	600	296	80	50
2	57	38	33	26	21	19	27	63	495	274	81	50
3	58	38	33	27	22	19	26	65	452	260	78	50
4	54	37	30	28	22	19	27	66	408	232	76	48
5	51	37	28	28	22	18	28	70	403	206	82	46
6	49	37	29	28	22	19	29	71	409	184	75	50
7	48	38	30	28	22	19	29	69	404	187	71	48
8	47	40	31	27	22	19	29	76	361	205	67	45
9	47	36	31	27	22	20	29	100	325	229	65	45
10	48	37	32	27	22	20	29	132	304	202	64	44
11	49	37	30	28	22	21	28	168	283	164	65	46
12	47	37	29	26	21	22	27	225	268	152	69	48
13	47	39	29	25	23	22	27	289	278	141	69	45
14	61	38	30	25	23	25	27	335	306	129	69	43
15	47	36	30	24	21	24	32	396	336	128	70	43
16	45	35	28	22	23	24	44	376	354	126	69	43
17	44	35	29	23	23	24	63	339	381	123	68	42
18	44	35	29	22	22	24	81	324	403	117	78	42
19	44	31	29	23	20	23	87	341	401	112	66	41
20	43	34	28	23	19	23	78	427	417	112	66	42
21	43	34	23	22	21	25	69	480	404	123	59	49
22	42	33	25	22	21	25	68	493	386	134	57	42
23	42	32	27	22	19	26	72	530	362	115	60	40
24	42	33	27	22	19	27	79	537	347	109	59	47
25	41	36	30	22	19	27	80	480	336	109	60	43
26	41	34	33	22	19	28	76	465	345	103	56	42
27	40	33	32	22	18	27	71	467	338	97	53	42
28	40	33	28	22	19	27	67	438	316	91	52	41
29	40	34	25	22	19	28	62	438	310	90	51	40
30	39	33	29	22	---	27	59	454	322	85	50	38
31	39	---	30	21	---	27	---	531	---	83	52	---
TOTAL	1434	1069	911	756	609	717	1477	9306	11054	4718	2037	1335
MEAN	46.3	35.6	29.4	24.4	21.0	23.1	49.2	300	368	152	65.7	44.5
MAX	61	40	34	28	23	28	87	537	600	296	82	50
MIN	39	31	23	21	18	18	26	61	268	83	50	38
ACFT	2840	2120	1810	1500	1210	1420	2930	18460	21930	9360	4040	2650

CAL YR 1983	TOTAL	40817	MEAN	112	MAX	1000	MIN	21	ACFT	80960		
WTR YR 1984	TOTAL	35423	MEAN	96.8	MAX	600	MIN	18	ACFT	70260		

10167000 JORDAN RIVER AT NARROWS, NEAR LEHI, UT

LOCATION.--Lat 40°26'38", long 111°55'17", in NW1/4SE1/4NW1/4 sec.26, T.4 S., R.1 W., Salt Lake County, Hydrologic Unit 16020201, at narrows 5.5 mi northwest of Lehi and 7.5 mi downstream from Utah Lake.

DRAINAGE AREA.--3,010 mi^2, including 255 mi^2 in closed basin in Cedar Valley.

PERIOD OF RECORD.--May to December 1904, July 1913 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 4,469.44 ft NGVD of 1929. Prior to May 16, 1920, nonrecording gage and May 16, 1920, to Sept. 30, 1934, water-stage recorder, at outlet of Utah Lake 7.5 mi upstream at different datum.

REMARKS.--Records good. Figures given herein represent combined flow of Jordan River, Utah and Salt Lake Canal, and East Jordan Canal. In addition to the combined flow indicated below, 15,522 acre-ft of Utah Lake water bypassed the Jordan River narrows in the Utah Lake Distributing Company Canal. Flow may be regulated by gates and pumps at outlet of Utah Lake, pumps at Pelican Point, and diversion dam at narrows.

COOPERATION.--Records of bypassed flow furnished by the Jordan River Distribution System.

AVERAGE DISCHARGE.--71 years (1913-84), 400 ft^3/s, 289,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,030 ft^3/s June 20, 1984; no flow at times most years when gates are closed.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1260	1380	1430	1510	1520	1580	1610	1990	2580	2660	1880	1400
2	1270	1380	1440	1520	1560	1570	1610	1960	2680	2460	1880	1430
3	1290	1380	1460	1610	1520	1570	1680	1970	2560	2440	1870	1450
4	1290	1380	1460	1610	1510	1560	1680	1900	2670	2410	1860	1450
5	1290	1370	1430	1620	1500	1590	1680	1890	2630	2400	1860	1410
6	1290	1380	1450	1620	1610	1610	1680	1880	2670	2380	1860	1380
7	1290	1340	1430	1620	1590	1590	1620	1930	2690	2360	1830	1370
8	1290	1310	1420	1620	1590	1600	1650	2000	2620	2330	1810	1400
9	1300	1370	1420	1620	1590	1590	1590	2030	2680	2280	1830	1390
10	1270	1380	1430	1590	1590	1580	1620	2050	2580	2280	1840	1370
11	1290	1370	1420	1590	1580	1550	1600	2050	2940	2280	1810	1370
12	1320	1360	1390	1580	1580	1560	1640	2080	2940	2270	1810	1380
13	1320	1340	1390	1580	1580	1560	1640	2110	2980	2260	1800	1350
14	1330	1320	1380	1580	1550	1560	1660	2150	3020	2250	1800	1340
15	1350	1320	1380	1580	1570	1550	1670	2170	3020	2220	1800	1340
16	1360	1320	1380	1580	1570	1560	1670	2200	3010	2200	1770	1350
17	1350	1320	1390	1580	1560	1560	1670	2230	3020	2190	1750	1340
18	1350	1260	1380	1700	1570	1560	1640	2270	2980	2180	1740	1340
19	1330	1290	1380	1650	1580	1570	1640	2320	3010	2160	1740	1340
20	1310	1330	1340	1590	1590	1570	1620	2320	3030	2140	1750	1340
21	1270	1370	1390	1640	1590	1510	1640	2260	2850	2130	1750	1290
22	1270	1320	1390	1610	1580	1550	1700	2300	2840	2150	1740	1310
23	1240	1340	1400	1610	1590	1560	1710	2390	2870	2150	1730	1280
24	1210	1350	1450	1560	1600	1560	1680	2310	2890	2120	1730	1230
25	1260	1270	1450	1560	1590	1540	1640	2380	2870	2110	1710	1310
26	1260	1140	1450	1530	1580	1570	1730	2430	2830	2110	1700	1270
27	1250	1300	1410	1540	1580	1520	1870	2320	2800	2100	1710	1270
28	1250	1350	1480	1540	1570	1570	1880	2430	2760	2090	1700	1270
29	1250	1340	1500	1530	1570	1600	1900	2670	2720	2060	1690	1260
30	1250	1350	1480	1530	---	1580	1920	2680	2670	1900	1680	1280
31	1250	---	1490	1530	---	1600	---	2580	---	1890	1460	---
TOTAL	39910	40030	44090	49130	45560	48600	50540	68250	84410	68960	54890	40310
MEAN	1287	1334	1422	1585	1571	1568	1685	2202	2814	2225	1771	1344
MAX	1360	1380	1500	1700	1610	1610	1920	2680	3030	2660	1880	1450
MIN	1210	1140	1340	1510	1500	1510	1590	1880	2560	1890	1460	1230
ACFT	79160	79400	87450	97450	90370	96400	100200	135400	167400	136800	108900	79950

CAL YR 1983	TOTAL	521709	MEAN	1429	MAX	2150	MIN	902	ACFT	1035000
WTR YR 1984	TOTAL	634680	MEAN	1734	MAX	3030	MIN	1140	ACFT	1259000

10167230 JORDAN RIVER AT 9000 SOUTH, NEAR MIDVALE, UT

LOCATION.--Lat 40°35'15", long 111°54'43", in SW1/4SW1/4NE1/4 sec.2, T.3 S., R.1 W., Salt Lake County, Hydrologic Unit 16020204 on left bank 50 ft upstream from bridge on Utah State Highway 177 (9000 South Street), 3,600 ft downstream from diversion dam at head of North Jordan Canal, and about 1 mi west of Sandy.

DRAINAGE AREA.--3,160 mi^2, approximately, includes 255 mi^2 closed basin in Cedar Valley.

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

GAGE.--Water-stage recorder. Datum of gage is 4,289.33 ft, Utah State Department of Highway Datum.

REMARKS.--Records fair. Flow regulated. Diversions upstream for irrigation, municipal, and industrial supplies.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,790 ft^3/s June 10, 1984; minimum, 9 ft^3/s July 6, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,790 ft^3/s June 10; minimum, 896 ft^3/s Sept. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1140	1470	1570	1720	1720	1680	1800	2300	2380	2010	1420	1000
2	1150	1480	1590	1740	1710	1670	1840	2210	2450	1950	1430	1050
3	1160	1490	1600	1760	1710	1670	1820	2200	2440	1910	1390	1060
4	1150	1480	1650	1770	1720	1660	1860	2140	2390	1860	1400	1040
5	1160	1480	1560	1780	1710	1670	1880	2130	2560	1830	1410	1030
6	1160	1480	1640	1780	1710	1690	1830	2030	2620	1800	1380	1010
7	1170	1500	1640	1780	1700	1710	1760	2070	2740	1750	1320	973
8	1160	1410	1620	1780	1700	1720	1810	2170	2740	1790	1260	1020
9	1170	1490	1630	1780	1700	1730	1770	2200	2740	1850	1250	1020
10	1160	1520	1650	1790	1700	1730	1840	2020	2790	1760	1260	1030
11	1160	1530	1650	1770	1700	1740	1810	1950	2770	1750	1220	1040
12	1160	1480	1670	1790	1710	1740	1830	1990	2770	1760	1190	1050
13	1180	1500	1650	1790	1710	1720	1840	2010	2740	1780	1180	1030
14	1190	1480	1670	1800	1700	1740	1820	2110	2670	1750	1200	1010
15	1240	1500	1690	1790	1710	1760	1850	2350	2660	1730	1230	998
16	1250	1510	1680	1780	1720	1750	1870	2110	2590	1710	1230	1000
17	1250	1510	1680	1760	1680	1750	1920	1930	2550	1640	1240	995
18	1250	1480	1660	1740	1700	1740	1970	1890	2560	1590	1250	979
19	1250	1440	1690	1760	1720	1750	1980	1910	2540	1580	1260	972
20	1280	1540	1590	1760	1710	1730	2010	1950	2610	1550	1260	988
21	1370	1480	1600	1760	1700	1720	1970	1830	2460	1570	1260	1020
22	1400	1470	1600	1780	1680	1720	2080	1830	2300	1580	1240	1020
23	1400	1520	1600	1760	1700	1730	2130	1890	2260	1600	1240	1040
24	1340	1530	1600	1770	1700	1760	2150	1870	2290	1550	1220	1000
25	1370	1570	1600	1750	1680	1710	1990	1930	2300	1520	1240	1090
26	1410	1360	1650	1730	1680	1780	2220	2010	2260	1490	1210	1090
27	1410	1460	1680	1740	1690	1740	2250	1980	2210	1480	1190	1080
28	1450	1540	1690	1740	1690	1730	2240	2100	2110	1460	1170	1080
29	1460	1560	1710	1730	1680	1760	2240	2210	2090	1460	1140	1080
30	1470	1540	1710	1720	---	1730	2300	2190	2030	1410	1110	1080
31	1480	---	1700	1720	---	1760	---	2210	---	1420	1070	---
TOTAL	39350	44800	50920	54620	49340	53490	58680	63720	74620	51890	38870	30875
MEAN	1269	1493	1643	1762	1701	1725	1956	2055	2487	1674	1254	1029
MAX	1480	1570	1710	1800	1720	1780	2300	2350	2790	2010	1430	1090
MIN	1140	1360	1560	1720	1680	1660	1760	1830	2030	1410	1070	972
ACFT	78050	88860	101000	108300	97870	106100	116400	126400	148000	102900	77100	61240

CAL YR 1983	TOTAL	470112	MEAN	1288	MAX	1710	MIN	929	ACFT	932500
WTR YR 1984	TOTAL	611175	MEAN	1670	MAX	2790	MIN	972	ACFT	1212000

10167300 JORDAN RIVER AT 5800 SOUTH, NEAR SALT LAKE CITY, UT

LOCATION.--Lat 40°38'43", long 111°55'18", in NE1/4SW1/4 sec.14, T.2 S., R.1 W., Salt Lake County, Hydrologic Unit 16020204, at bridge at 5800 South, and 2.3 mi southwest of Murray.

DRAINAGE AREA.--3,240 mi^2, includes 255 mi^2 closed basin in Cedar Valley.

PERIOD OF RECORD.--July 1965 to September 1968, February 1974 to March 1980 (gage heights and discharge measurements only), April 1980 to current year. (Prior to 1983 published in "Surface Water and Climatologic Data" reports for Utah.)

GAGE.--Water-stage recorder. Datum of gage is 4,257.93 ft NGVD of 1929.

REMARKS.--Records good. Flow affected by regulation at Utah Lake and Jordan Narrows. Many diversions above station for irrigation and industry.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,850 ft^3/s June 8, 1984; minimum daily, 68 ft^3/s Apr. 17, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,850 ft^3/s June 8; minimum daily, 1,150 ft^3/s Sept. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1230	1480	1680	1880	1890	1840	1990	2120	2500	2250	1600	1180
2	1250	1490	1700	1880	1880	1840	2020	2150	2620	2200	1610	1230
3	1250	1500	1730	1880	1880	1830	2000	2130	2560	2150	1580	1230
4	1240	1500	1770	1890	1870	1820	2020	2130	2480	2110	1580	1210
5	1240	1500	1690	1900	1870	1820	2000	2120	2620	2070	1580	1210
6	1250	1500	1740	1900	1860	1850	2010	2110	2680	1950	1550	1220
7	1250	1540	1760	1910	1860	1860	1970	2130	2800	1980	1490	1150
8	1240	1470	1740	1910	1860	1870	2020	2140	2800	2030	1430	1200
9	1250	1520	1740	1910	1860	1860	1980	2140	2800	2100	1420	1210
10	1250	1550	1760	1910	1860	1860	2030	2120	2850	2010	1410	1210
11	1250	1580	1760	1900	1850	1880	2010	2110	2830	1970	1380	1210
12	1250	1540	1760	1920	1850	1870	2020	2120	2830	1950	1390	1260
13	1260	1570	1750	1920	1860	1860	2020	2140	2810	1930	1340	1270
14	1260	1560	1770	1920	1850	1870	2030	2190	2740	1900	1320	1220
15	1300	1560	1810	1910	1850	1870	2050	2240	2730	1880	1370	1200
16	1310	1580	1780	1910	1860	1870	2080	2240	2660	1860	1410	1210
17	1310	1600	1790	1910	1830	1890	2100	2200	2620	1810	1420	1210
18	1320	1580	1780	1860	1830	1870	2110	2200	2630	1780	1420	1190
19	1320	1520	1800	1910	1840	1880	2120	2200	2620	1780	1440	1190
20	1350	1610	1740	1910	1840	1880	2170	2220	2650	1750	1440	1210
21	1410	1570	1770	1900	1830	1860	2090	2170	2580	1750	1430	1250
22	1430	1560	1780	1920	1820	1860	2150	2200	2440	1770	1420	1230
23	1440	1610	1700	1920	1830	1840	2170	2210	2440	1790	1420	1270
24	1410	1600	1730	1920	1830	1880	2190	2260	2430	1750	1410	1210
25	1420	1680	1790	1930	1830	1840	2080	2280	2430	1710	1420	1320
26	1450	1500	1820	1920	1840	1910	2220	2310	2410	1680	1410	1320
27	1450	1570	1740	1910	1850	1870	2230	2290	2370	1660	1400	1330
28	1480	1650	1780	1910	1850	1870	2190	2320	2310	1640	1370	1320
29	1480	1670	1840	1900	1830	1930	2170	2330	2290	1650	1310	1320
30	1480	1660	1870	1900	---	1910	2130	2360	2240	1600	1280	1320
31	1480	---	1880	1900	---	1940	---	2350	---	1590	1250	---
TOTAL	41310	46820	54750	59070	53660	57900	62370	68230	77770	58050	44300	37110
MEAN	1333	1561	1766	1905	1850	1868	2079	2201	2592	1873	1429	1237
MAX	1480	1680	1880	1930	1890	1940	2230	2360	2850	2250	1610	1330
MIN	1230	1470	1680	1860	1820	1820	1970	2110	2240	1590	1250	1150
ACFT	81940	92870	108600	117200	106400	114800	123700	135300	154300	115100	87870	73610

CAL YR 1983	TOTAL	516450	MEAN	1415	MAX	2090	MIN	1080	ACFT	1024000
WTR YR 1984	TOTAL	661340	MEAN	1807	MAX	2850	MIN	1150	ACFT	1312000

10170500 SURPLUS CANAL AT SALT LAKE CITY, UT

LOCATION.--Lat 40°43'37", long 111°55'33", in SE1/4SW1/4SW1/4 sec.14, T.1 S., R.1 W., Salt Lake County, Hydrologic Unit 16020204, near right bank on upstream side of diversion dam at head of canal, and 250 ft downstream from highway bridge over Jordan River on 2100 South Street.

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

GAGE.--Water-stage recorder. Datum of gage is 4,223.93 ft NGVD of 1929. Prior to Oct. 22, 1952, at site 350 ft downstream, and Oct. 22, 1952 to Sept. 30, 1966, at site 400 ft downstream at different datum.

REMARKS.--Records good. Flow regulated by diversion structure at station. Canal was built to bypass floodwater of Jordan River around Salt Lake City residential and industrial area (see station 10170490 for records of combined flow of Jordan River and Surplus Canal). Several diversions for irrigation and waterfowl ponds below station.

AVERAGE DISCHARGE.--41 years, 325 ft^3/s, 235,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,410 ft^3/s June 1, 1984, gage height, 8.91 ft, present datum; no flow Jan. 21 to Feb. 28, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,410 ft^3/s June 1, gage height, 8.91 ft; minimum daily, 1,130 ft^3/s Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1420	1550	1620	1920	1840	1740	2010	2390	4250	2650	1660	1200
2	1490	1550	1690	1920	1790	1770	2070	2450	4110	2530	1660	1230
3	1540	1570	1660	1870	1800	1780	1980	2370	3860	2440	1590	1230
4	1440	1560	1820	1780	1820	1800	2000	2400	3500	2380	1590	1220
5	1460	1560	1700	1780	1850	1770	2000	2410	3810	2270	1620	1210
6	1450	1560	1710	1770	1810	1800	2020	2330	3800	2130	1580	1230
7	1440	1590	1750	1780	1720	1840	2100	2350	3940	2080	1520	1210
8	1430	1670	1690	1770	1700	1900	2150	2370	3800	2190	1430	1250
9	1420	1560	1670	1820	1710	1890	2160	2340	3550	2450	1420	1240
10	1570	1630	1660	1820	1710	1860	2080	2450	3520	2410	1410	1220
11	1450	1710	1660	1800	1700	1910	2100	2500	3350	2150	1410	1210
12	1440	1660	1690	1800	1720	1900	2020	2690	3250	2040	1420	1280
13	1500	1720	1670	1820	1750	1850	2070	2950	3140	2060	1410	1310
14	1590	1690	1750	1840	1870	1920	2080	3360	3250	2010	1440	1240
15	1460	1610	1930	1840	1860	1930	2140	3620	3250	1940	1480	1220
16	1470	1640	1760	1820	1880	1960	2160	3760	3160	1880	1620	1230
17	1420	1640	1760	1820	1860	1960	2200	3450	3200	1810	1680	1180
18	1400	1690	1740	1800	1860	2020	2440	3270	3180	1760	1620	1140
19	1380	1520	1760	1780	1960	1970	2470	3200	3170	1690	1650	1130
20	1400	1680	1700	1760	2010	1930	2550	3260	3230	1670	1640	1160
21	1450	1680	1690	1700	2000	1920	2250	3420	3180	1760	1580	1380
22	1480	1540	1740	1720	1840	1820	2240	3380	3000	1960	1540	1310
23	1500	1590	1660	1740	1800	1850	2270	3420	2910	1940	1510	1340
24	1450	1610	1640	1750	1770	1910	2280	3540	2910	1800	1530	1350
25	1430	1820	1750	1800	1720	1840	2150	3490	2910	1720	1610	1380
26	1480	1540	1820	1860	1740	1900	2400	3370	2840	1670	1610	1420
27	1520	1530	1870	1820	1740	1910	2470	3370	2780	1680	1550	1370
28	1530	1590	1780	1830	1750	1890	2390	3300	2790	1660	1440	1360
29	1540	1640	1800	1830	1740	2020	2400	3340	2690	1780	1360	1350
30	1540	1590	1890	1820	---	1930	2330	3400	2640	1740	1300	1350
31	1560	---	1920	1820	---	1850	---	3700	---	1730	1270	---
TOTAL	45650	48490	53950	56000	52320	58340	65980	93650	98970	61980	47150	37950
MEAN	1473	1616	1740	1806	1804	1882	2199	3021	3299	1999	1521	1265
MAX	1590	1820	1930	1920	2010	2020	2550	3760	4250	2650	1680	1420
MIN	1380	1520	1620	1700	1700	1740	1980	2330	2640	1660	1270	1130
ACFT	90550	96180	107000	111100	103800	115700	130900	185800	196300	122900	93520	75270

CAL YR 1983	TOTAL	605660	MEAN	1659	MAX	3140	MIN	1020	ACFT	1201000
WTR YR 1984	TOTAL	720430	MEAN	1968	MAX	4250	MIN	1130	ACFT	1429000

10171000 JORDAN RIVER AT SALT LAKE CITY, UT

LOCATION.--Lat 40°44'01", long 111°55'21", in SW1/4SE1/4NW1/4 sec.14, T.1 S., R.1 W., Salt Lake County, Hydrologic Unit 16020204, on right bank at 1700 South Street and about 1000 West, Salt Lake City, 4,000 ft downstream from diversion structure at head of Surplus Canal, and 1.7 mi downstream from Mill Creek.

DRAINAGE AREA.--3,438 mi^2 includes 255 mi^2 closed basin in Cedar Valley.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 4,220.08 ft NGVD of 1929. Prior to July 1, 1976 at site 3,200 ft upstream at same datum.

REMARKS.--Records good. Flow completely regulated since reconstruction in May 1952 of Surplus Canal diversion dam 4,000 ft upstream. Flow affected by regulation at Utah Lake, Deer Creek Reservoir, other storage and regulation, and importation of water from other basins. Many diversions above station for irrigation, industrial, and municipal water supplies. For records of Surplus Canal see station 10170500. For records of combined flow, see following page.

AVERAGE DISCHARGE.--41 years (1943-84), 144 ft^3/s, 104,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 384 ft^3/s June 3, 1944, gage height, 5.55 ft; maximum gage height, 5.75 ft June 26, 1952; no flow May 10, 24, 1952. May 21, 22, 1962, Sept. 21, 1963, May 14 to June 1, 1964, and Sept. 6, 7, 1965 entire flow diverted to Surplus Canal. Maximum daily combined discharge (Jordan River and Surplus Canal), 4,510 ft^3/s June 1, 1984; minimum daily, 89 ft^3/s June 23, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 329 ft^3/s June 1, gage height, 4.36 ft; minimum daily, 26 ft^3/s May 13-20. Maximum daily combined discharge during year (Jordan River and Surplus Canal), 4,510 ft^3/s June 1; minimum daily, 1,290 ft^3/s Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	242	199	194	217	163	141	141	119	260	284	231	164
2	246	211	212	217	161	139	140	140	239	280	230	164
3	246	213	213	215	161	135	115	170	248	279	227	166
4	231	206	217	210	161	134	127	166	193	277	194	166
5	223	199	209	210	161	133	124	169	158	273	157	168
6	220	197	207	209	172	133	119	165	138	267	152	173
7	216	221	216	205	177	136	123	163	208	261	149	165
8	208	255	211	203	179	139	122	161	183	264	147	162
9	206	233	204	205	186	147	140	159	184	280	147	163
10	220	230	202	207	187	156	127	180	177	280	147	163
11	204	231	204	205	186	161	127	199	170	264	146	163
12	198	224	214	205	187	156	112	183	164	259	148	166
13	203	226	216	205	189	150	116	26	170	260	150	167
14	211	228	222	203	190	157	131	26	176	257	148	163
15	193	235	229	203	179	152	129	26	179	251	150	159
16	192	233	216	202	174	156	137	26	188	247	153	160
17	213	228	202	201	171	159	139	26	186	244	154	161
18	232	225	197	198	167	159	134	26	186	240	150	161
19	222	208	211	205	169	150	163	26	181	236	154	161
20	222	217	232	205	170	145	147	26	174	235	166	167
21	221	214	223	192	169	143	128	27	181	243	179	183
22	220	200	224	191	163	136	135	27	178	250	178	171
23	223	198	219	188	170	133	138	27	172	248	181	170
24	218	198	211	183	158	132	141	27	178	238	178	178
25	208	219	210	184	150	131	115	27	191	236	182	169
26	199	197	211	182	147	130	126	27	208	232	180	171
27	205	191	211	173	145	133	138	27	206	232	177	173
28	210	193	209	172	143	130	135	27	204	231	174	174
29	214	193	202	170	141	131	136	27	246	238	170	177
30	204	190	208	169	---	125	127	27	279	235	168	171
31	193	---	216	165	---	118	---	143	---	235	167	---
TOTAL	6663	6412	6572	6099	4876	4380	3932	2595	5805	7856	5234	5019
MEAN	215	214	212	197	168	141	131	83.7	194	253	169	167
MAX	246	255	232	217	190	161	163	199	279	284	231	183
MIN	192	190	194	165	141	118	112	26	138	231	146	159
ACFT	13220	12720	13040	12100	9670	8690	7800	5150	11510	15580	10380	9960

CAL YR 1983	TOTAL	69732	MEAN	191	MAX	327	MIN	35	ACFT	138300
WTR YR 1984	TOTAL	65443	MEAN	179	MAX	284	MIN	26	ACFT	129800

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.
WATER TEMPERATURES: April 1975 to September 1978, October 1980 to September 1981, once daily.
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 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV 18...	1545	214	1240	7.8	2.5	8.0	64	9.7	646	380
JAN 26...	1430	180	1290	7.9	2.5	3.5	78	10.1	660	130
MAR 28...	1245	127	1310	8.0	8.0	7.0	76	10.2	650	210
MAY 24...	1300	27	1060	8.0	17.0	15.0	80	7.1	650	290
JUL 26...	1430	230	1150	7.9	31.0	25.0	60	6.0	650	420
SEP 10...	1500	163	1460	7.9	25.0	21.0	6.0	7.1	640	560

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)
NOV 18...	1300	370	7.3	71	46	130	42	3.0	13	210
JAN 26...	440	360	7.2	68	46	130	43	3.1	12	220
MAR 28...	260	380	7.5	73	47	120	40	2.8	11	230
MAY 24...	200	350	7.0	75	39	86	34	2.1	7.3	190
JUL 26...	240	300	6.1	57	39	110	43	2.8	10	190
SEP 10...	270	330	6.6	62	42	120	43	3.0	12	210

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
NOV 18...	200	170	0.6	25	764	786	1.0	441	1.0	0.88
JAN 26...	200	190	0.5	21	800	802	1.1	389	1.1	0.88
MAR 28...	210	170	0.6	21	823	791	1.1	282	0.97	0.65
MAY 24...	180	110	0.4	8.6	647	623	0.88	47.2	1.1	0.32
JUL 26...	180	140	0.5	21	693	676	0.94	430	0.5	0.54
SEP 10...	190	170	0.5	23	773	748	1.1	340	0.91	0.83

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
NOV 18...	1.1	2.7	2.70	2.7	12	0.50	1.5	0.39	0.29	0.89
JAN 26...	1.1	1.9	1.90	1.9	8.4	0.53	1.6	0.37	0.36	1.1
MAR 28...	0.84	2.1	2.10	2.1	9.3	0.63	1.9	0.35	0.28	0.86
MAY 24...	0.41	1.5	1.50	1.5	6.6	0.69	--	0.44	0.47	1.4
JUL 26...	0.7	2.4	2.40	2.4	11	0.56	--	0.22	0.21	0.64
SEP 10...	1.1	2.7	2.70	2.7	12	0.67	--	0.44	0.38	1.2

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV 18...	1545	700	12	79	<0.50	<1	1	<3.00	11	350	14
MAR 28...	1245	<10	8	74	<0.50	<1	<1	<3.00	4	3.00	2
JUL 26...	1430	10	11	75	1.00	<1	<1	<3.00	4	8.00	3
SEP 10...	1500	<10	11	70	<1.00	<1	<1	<3.00	3	5.00	4

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV 18...	110	28	<0.1	20	<1	2	1	940	<6.0	20
MAR 28...	110	19	<0.1	<10	1	2	<1	1000	<6.0	20
JUL 26...	90	11	<0.1	<10	7	1	<1	820	<6.0	5.00
SEP 10...	90	11	<0.1	<10	5	2	1	870	<6.0	6.00

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE SUSPENDED (T/DAY)
NOV 18...	1545	214	8.0	90	142	82
JAN 26...	1430	180	3.5	85	142	69
MAR 28...	1245	127	7.0	83	191	65
MAY 24...	1300	27	15.0	96	149	11
JUL 26...	1430	230	25.0	79	192	119
SEP 10...	1500	163	21.0	90	115	51

10170490 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

Combined discharge, in cubic feet per second, of Jordan River and Surplus Canal

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1660	1750	1810	2140	2000	1880	2150	2510	4510	2930	1890	1360
2	1740	1760	1900	2140	1950	1910	2210	2590	4350	2810	1890	1390
3	1790	1780	1870	2080	1960	1920	2100	2540	4110	2720	1820	1400
4	1630	1770	2040	1990	1980	1930	2130	2570	3690	2660	1760	1390
5	1680	1760	1910	1990	2010	1900	2120	2580	3970	2540	1730	1380
6	1670	1760	1920	1980	1980	1930	2140	2500	3940	2400	1680	1400
7	1660	1810	1970	1980	1900	1980	2230	2510	4150	2340	1600	1380
8	1640	1930	1900	1970	1880	2040	2270	2530	3980	2450	1530	1410
9	1630	1790	1870	2030	1900	2040	2300	2500	3730	2730	1520	1400
10	1790	1860	1860	2030	1900	2020	2210	2630	3700	2690	1510	1380
11	1650	1940	1860	2000	1890	2070	2230	2700	3520	2410	1510	1370
12	1640	1880	1900	2000	1910	2060	2130	2870	3410	2300	1500	1450
13	1700	1950	1890	2030	1940	2000	2190	2980	3310	2320	1490	1480
14	1800	1920	1970	2040	2060	2080	2210	3390	3430	2270	1510	1400
15	1650	1850	2160	2040	2040	2080	2270	3650	3430	2190	1590	1380
16	1660	1870	1980	2020	2050	2120	2300	3790	3350	2130	1770	1390
17	1630	1870	1960	2020	2030	2120	2340	3480	3390	2050	1830	1340
18	1630	1920	1940	2000	2030	2180	2570	3300	3370	2000	1770	1300
19	1600	1730	1970	1980	2130	2120	2630	3230	3350	1930	1800	1290
20	1620	1900	1930	1960	2180	2080	2700	3290	3400	1900	1810	1330
21	1670	1890	1910	1890	2170	2060	2370	3450	3360	2000	1760	1560
22	1700	1740	1960	1910	2000	1960	2380	3410	3180	2210	1720	1480
23	1720	1790	1880	1930	1970	1980	2410	3450	3080	2190	1690	1510
24	1670	1810	1850	1930	1930	2040	2420	3570	3090	2040	1710	1530
25	1640	2040	1960	1980	1870	1970	2270	3520	3100	1960	1790	1550
26	1680	1740	2030	2040	1890	2030	2530	3400	3050	1900	1790	1590
27	1730	1720	2080	1990	1880	2040	2610	3400	2990	1910	1730	1540
28	1740	1780	1990	2000	1890	2020	2530	3330	2990	1890	1610	1530
29	1750	1830	2000	2000	1880	2150	2540	3370	2940	2020	1530	1530
30	1740	1780	2100	1990	---	2060	2460	3430	2920	1980	1470	1520
31	1750	---	2140	1980	---	1970	---	3840	---	1960	1440	---
TOTAL	52260	54920	60510	62060	57200	62740	69950	96310	104790	69830	51750	42960
MEAN	1686	1831	1952	2002	1972	2024	2332	3107	3493	2253	1669	1432
MAX	1800	2040	2160	2140	2180	2180	2700	3840	4510	2930	1890	1590
MIN	1600	1720	1810	1890	1870	1880	2100	2500	2920	1890	1440	1290
ACFT	103700	108900	120000	123100	113500	124400	138700	191000	207900	138500	102600	85210

CAL YR 1983	TOTAL	675540	MEAN	1851	MAX	3350	MIN	1240	ACFT	1340000
WTR YR 1984	TOTAL	785280	MEAN	2146	MAX	4510	MIN	1290	ACFT	1558000

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT
(Hydrologic bench mark station)

LOCATION.--Lat 40°46'48", long 111°48'19", in NW1/4SW1/4NE1/4 sec.35, T.1 N., R.1 E., Salt Lake County, Hydrologic Unit 16020204, on right bank 0.4 mi upstream from dam forming Red Butte Reservoir, and 1.7 mi northeast of Fort Douglas.

DRAINAGE AREA.--7.25 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to current year. Figures of monthly discharge for January 1942 to September 1963, collected by Corps of Engineers, U.S. Army, available in files of Salt Lake City District Office, Geological Survey.

GAGE.--Water-stage recorder. Altitude of gage is 5,400 ft from topographic map.

REMARKS.--Records good. No regulation or diversion above station. Most of flow is collected in reservoir below station and used for water supply of Fort Douglas.

AVERAGE DISCHARGE.--21 years, 4.74 ft^3/s, 3,430 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 105 ft^3/s May 28, 1983, maximum gage height, 3.81 ft May 17, 1984; minimum, 0.23 ft^3/s Dec. 22, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 10 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 08	2000	18	1.68
Apr. 18	1900	36	2.62
May 17	1200	*101	3.81

Minimum daily, 2.5 ft^3/s Jan. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	3.4	3.4	3.5	3.2	3.2	6.6	26	23	11	6.0	4.3
2	4.4	3.4	3.4	3.4	3.3	3.3	6.5	32	21	11	5.9	4.2
3	4.4	3.4	3.4	3.3	3.2	3.4	6.4	33	20	10	5.6	4.1
4	4.0	3.4	3.4	3.3	3.2	3.5	6.8	33	18	10	5.5	4.0
5	3.9	3.3	3.4	3.3	3.2	3.4	8.6	28	20	9.7	5.4	3.9
6	4.0	3.2	3.3	3.3	3.2	3.2	11	26	20	9.3	5.4	4.3
7	3.9	3.3	3.4	3.3	3.2	3.4	13	26	20	9.2	5.3	4.3
8	3.9	3.5	3.4	3.3	3.2	3.8	14	26	21	9.4	5.2	4.0
9	3.9	3.5	3.3	3.3	3.2	4.3	16	32	21	9.5	5.2	3.9
10	4.3	3.5	3.4	3.2	3.2	4.5	14	45	20	9.1	5.1	3.9
11	3.9	3.7	3.3	3.2	3.2	4.8	12	54	19	8.5	5.1	3.9
12	3.8	3.6	3.4	3.2	3.2	4.5	11	62	19	8.4	5.1	3.9
13	3.9	4.3	3.5	3.2	3.2	4.9	11	68	18	8.2	5.0	3.9
14	4.6	4.0	3.5	3.2	3.5	6.9	12	72	17	7.7	5.2	3.9
15	4.2	3.6	3.4	3.2	3.3	7.1	16	76	16	7.4	5.0	3.9
16	4.0	3.5	3.3	3.1	3.2	7.2	24	72	16	7.2	5.1	3.9
17	3.9	3.7	3.3	3.2	3.2	6.7	30	70	15	7.0	5.1	3.9
18	3.9	3.8	3.3	3.0	3.2	6.2	34	50	15	6.9	5.0	3.9
19	3.9	3.6	3.3	2.7	3.6	5.8	32	42	15	6.8	5.0	3.8
20	3.8	3.7	3.4	2.6	3.7	6.2	29	40	14	6.7	5.0	4.0
21	3.8	3.6	3.3	2.6	4.2	6.7	25	40	13	6.9	5.0	4.2
22	3.7	3.4	3.2	2.5	3.2	6.5	25	44	12	7.1	5.0	4.0
23	3.6	3.4	3.2	2.6	3.6	6.9	27	34	12	6.8	5.1	3.9
24	3.6	3.4	3.1	3.0	3.1	7.3	30	31	12	6.5	4.8	4.4
25	3.6	3.7	3.4	3.4	3.0	7.4	31	29	11	6.4	4.9	4.2
26	3.5	3.5	3.7	3.3	2.9	7.4	28	28	9.8	6.3	4.8	4.1
27	3.5	3.4	3.5	3.2	3.4	7.0	25	27	9.2	6.3	4.7	4.0
28	3.5	3.4	3.3	3.2	3.2	6.6	23	25	10	6.2	4.5	3.9
29	3.5	3.4	3.2	3.1	3.2	6.5	21	24	12	6.2	4.4	3.9
30	3.4	3.3	3.4	3.2	---	6.4	21	23	12	6.1	4.3	3.9
31	3.4	---	3.7	3.2	---	6.5	---	24	---	6.1	4.3	---
TOTAL	119.7	105.9	104.5	97.1	95.2	171.5	569.9	1242	481.0	243.9	157.0	120.4
MEAN	3.86	3.53	3.37	3.13	3.28	5.53	19.0	40.1	16.0	7.87	5.06	4.01
MAX	4.6	4.3	3.7	3.5	4.2	7.4	34	76	23	11	6.0	4.4
MIN	3.4	3.2	3.1	2.5	2.9	3.2	6.4	23	9.2	6.1	4.3	3.8
ACFT	237	210	207	193	189	340	1130	2460	954	484	311	239

CAL YR 1983	TOTAL	4611.8	MEAN	12.6	MAX	95	MIN	1.8	ACFT	9150
WTR YR 1984	TOTAL	3508.1	MEAN	9.58	MAX	76	MIN	2.5	ACFT	6960

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 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV 17...	1445	3.9	630	8.1	8.5	6.0	0.3	9.9	615	K2
JAN 30...	1330	3.2	610	8.0	-5.0	0.0	11	11.8	630	<1
MAR 29...	1330	6.2	580	8.1	6.5	5.5	9.2	10.0	610	<1
MAY 25...	1430	29	500	8.1	13.0	11.0	60	10.0	700	2
JUL 19...	1400	6.8	570	8.1	27.0	14.0	0.9	7.8	620	<1
SEP 10...	1330	3.9	670	8.1	23.0	13.0	1.3	9.9	700	K13

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)
NOV 17...	32	340	6.8	91	27	14	8	0.3	1.2	240
JAN 30...	30	330	6.7	92	25	13	8	0.3	1.2	250
MAR 29...	97	310	6.2	86	23	14	9	0.4	1.1	230
MAY 25...	K15	270	5.3	74	20	11	8	0.3	1.1	220
JUL 19...	K400	300	5.9	78	25	14	9	0.4	1.3	230
SEP 10...	260	290	5.9	75	26	14	9	0.4	1.1	230

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
NOV 17...	89	16	0.2	11	401	395	0.55	4.2	<0.1	0.04
JAN 30...	100	16	0.1	10	392	410	0.53	3.4	--	--
MAR 29...	84	15	0.2	10	369	373	0.5	6.2	<0.1	<0.01
MAY 25...	43	10	0.2	11	302	301	0.41	23.6	0.11	0.04
JUL 19...	69	12	0.2	11	330	345	0.45	6.1	<0.1	0.03
SEP 10...	83	14	0.1	11	305	363	0.41	3.2	<0.1	0.03

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

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
NOV 17...	0.05	0.6	0.6	0.6	2.7	0.03	0.09	0.02	0.02	0.06
JAN 30...	--	--	--	--	--	--	--	--	--	--
MAR 29...	0.01	0.3	0.3	0.3	1.3	0.08	0.25	0.03	0.04	0.12
MAY 25...	0.05	0.3	0.3	0.3	1.3	0.25	--	0.05	0.04	0.12
JUL 19...	0.04	0.4	0.4	0.4	1.8	0.05	--	0.02	<0.01	0.03
SEP 10...	0.04	0.2	<0.2	0.2	0.89	0.03	--	0.01	0.02	0.06

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
JAN 30...	1330	<10	2	66.00	<0.50	<1	<1	<3.00	2	4.00	<1
MAY 25...	1430	20	<1	62.00	<1.00	<1	1	<3.00	1	10	1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
JAN 30...	20	16	<0.1	<10	<1	1	<1	470	<6.0	10
MAY 25...	20	1	<0.1	<10	<1	<1	<1	270	<6.0	4.00

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SED SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE SUSPENDED (T/DAY)
MAR 29...	1330	6.2	5.5	58	90	1.5
MAY 25...	1430	29	11.0	44	371	29
JUL 19...	1400	6.8	14.0	47	29	0.53
SEP 10...	1330	3.9	13.0	41	12	0.13

10172550 JORDAN RIVER AT 500 NORTH, AT SALT LAKE CITY, UT

LOCATION.--Lat 40°46'49", long 111°56'16", in SW1/4NW1/4NE1/4 sec.34, T.1 N., R.1 W., Salt Lake County, Hydrologic Unit 16020204, on left bank at downstream edge of 500 North Street bridge in Salt Lake City.

DRAINAGE AREA.--3,562 mi^2, includes 255 mi^2 closed basin in Cedar Valley.

PERIOD OF RECORD.--October 1975 to current year. Records of stage 1960-75 are available from the Salt Lake District Office.

GAGE.--Water-stage recorder. Altitude of gage is 4,210 ft from topographic map.

REMARKS.--Records good. Flow affected by regulation at Surplus Canal, Utah Lake, Deer Creek Reservoir, other storage and regulation, and importation of water from other basins. Many diversions above station for irrigation, industrial, and municipal water supplies.

AVERAGE DISCHARGE.--9 years, 211 ft^3/s, 152,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 932 ft^3/s June 1, 1983, gage height, 5.24 ft; minimum recorded, 60 ft^3/s Oct. 18, 1979 (discharge measurement).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 832 ft^3/s June 1, gage height, 4.89 ft; minimum daily, 163 ft^3/s Mar. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	274	225	240	251	215	171	230	368	707	435	287	204
2	298	243	275	247	213	171	222	434	660	420	296	204
3	307	244	251	242	212	165	182	459	642	414	289	209
4	271	238	271	235	207	164	180	465	586	407	271	212
5	263	234	253	235	204	163	182	481	596	399	220	211
6	260	229	244	234	206	165	196	472	502	388	205	246
7	258	267	275	235	213	171	216	454	634	382	193	215
8	247	326	253	236	214	176	216	458	581	389	192	208
9	240	262	234	240	218	182	275	467	585	400	190	206
10	286	254	256	235	227	194	240	524	556	400	187	206
11	250	262	284	230	231	212	236	579	532	364	190	208
12	235	258	328	235	224	196	189	605	507	356	195	215
13	244	300	333	235	229	187	231	640	478	359	194	218
14	279	280	360	231	251	224	297	673	444	349	234	215
15	222	269	351	231	220	207	315	727	423	339	214	208
16	219	262	315	231	215	236	359	747	446	330	224	197
17	235	254	242	239	218	239	389	729	458	322	214	204
18	256	266	227	246	215	233	414	707	455	310	201	203
19	254	239	239	252	215	195	518	673	445	297	216	203
20	247	275	270	251	215	186	480	671	406	295	220	232
21	248	254	253	250	213	192	441	609	414	328	234	258
22	250	231	259	248	198	180	468	599	406	333	231	207
23	251	226	251	247	198	176	480	563	375	328	256	203
24	248	224	253	242	188	184	482	529	375	310	229	254
25	239	314	254	239	181	186	440	486	381	293	241	214
26	229	242	262	236	178	182	474	464	401	289	231	215
27	231	222	257	229	177	176	459	443	380	290	227	215
28	231	226	248	231	170	176	390	375	357	288	227	209
29	244	226	242	227	166	180	362	298	372	301	221	204
30	230	221	247	224	---	176	334	300	417	289	217	204
31	218	---	257	214	---	169	---	478	---	293	214	---
TOTAL	7764	7573	8284	7358	6031	5814	9897	16477	14521	10697	6960	6407
MEAN	250	252	267	237	208	188	330	532	484	345	225	214
MAX	307	326	360	252	251	239	518	747	707	435	296	258
MIN	218	221	227	214	166	163	180	298	357	288	187	197
ACFT	15400	15020	16430	14590	11960	11530	19630	32680	28800	21220	13810	12710

CAL YR 1983	TOTAL	117417	MEAN	322	MAX	863	MIN	185	ACFT	232900
WTR YR 1984	TOTAL	107783	MEAN	294	MAX	747	MIN	163	ACFT	213800

10172630 GOGGIN DRAIN NEAR MAGNA, UT

LOCATION.--Lat 40°49'00", long 112°06'00", in SW1/4NW1/4SW1/4 sec.17, T.1 N., R.2 W., Salt Lake County, Hydrologic Unit 16020204, about 7 mi downstream from Surplus Canal wasteway, 3.3 mi north of Saltair, and 7.2 mi north of Magna.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to September 1968, October 1971 to September 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,204 ft from topographic map.

REMARKS.--Records poor. The drain carries natural drainage and surplus water spilled from canals from the area.

AVERAGE DISCHARGE.--18 years, 238 ft^3/s, 172,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,560 ft^3/s June 13, 1983; no flow several days many years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,440 ft^3/s May 24; minimum daily, 733 ft^3/s Sept. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	957	1020	1050	1150	1110	1180	1260	1330	1360	973	851	742
2	980	1010	1060	1150	1130	1180	1280	1330	1360	948	845	734
3	1010	1010	1060	1150	1140	1180	1280	1330	1370	931	845	733
4	987	1010	1120	1160	1140	1180	1270	1320	1320	912	837	735
5	978	1010	1100	1160	1140	1180	1270	1330	1330	890	823	747
6	974	1010	1070	1170	1140	1180	1270	1330	1310	876	810	752
7	982	1030	1080	1160	1140	1180	1280	1330	1320	864	817	743
8	978	1060	1090	1170	1130	1180	1290	1320	1310	838	806	739
9	977	1020	1080	1170	1130	1180	1300	1330	1270	833	798	741
10	1010	1030	1070	1170	1130	1180	1280	1330	1290	815	807	744
11	1010	1050	1060	1180	1130	1180	1290	1330	1250	803	814	737
12	988	1050	1070	1180	1130	1210	1270	1340	1240	794	792	744
13	1000	1070	1070	1180	1150	1230	1270	1350	1240	788	800	749
14	1050	1080	1070	1180	1180	1220	1270	1350	1220	794	789	756
15	1030	1030	1110	1180	1190	1230	1260	1370	1220	801	772	752
16	1020	1020	1120	1180	1190	1230	1270	1390	1200	805	778	749
17	1020	1020	1120	1180	1200	1240	1260	1420	1180	801	780	752
18	1000	1030	1110	1180	1190	1250	1290	1420	1170	805	776	752
19	996	1010	1110	1170	1190	1240	1310	1410	1150	812	768	755
20	987	1020	1120	1170	1190	1240	1320	1410	1140	809	769	759
21	994	1100	1100	1170	1190	1240	1310	1420	1140	820	768	792
22	1010	1060	1090	1170	1180	1240	1280	1420	1120	815	765	789
23	1010	1030	1090	1160	1180	1230	1280	1420	1100	824	769	802
24	1010	1040	1090	1150	1180	1240	1290	1440	1080	828	754	796
25	982	1100	1090	1130	1180	1240	1310	1430	1060	826	763	800
26	1010	1130	1090	1120	1180	1240	1320	1410	1050	825	760	806
27	1020	1040	1100	1120	1180	1260	1340	1400	1030	836	756	810
28	1020	1030	1130	1120	1180	1250	1340	1380	1020	844	754	822
29	1020	1060	1120	1120	1180	1240	1340	1370	1010	848	747	816
30	1020	1060	1120	1110	---	1240	1330	1350	993	852	743	821
31	1030	---	1140	1110	---	1250	---	1360	---	856	773	---
TOTAL	31060	31240	33900	35870	33700	37740	38730	42470	35853	26066	24429	22969
MEAN	1002	1041	1094	1157	1162	1217	1291	1370	1195	841	788	766
MAX	1050	1130	1140	1180	1200	1260	1340	1440	1370	973	851	822
MIN	957	1010	1050	1110	1110	1180	1260	1320	993	788	743	733
ACFT	61610	61960	67240	71150	66840	74860	76820	84240	71110	51700	48450	45560

CAL YR 1983	TOTAL	390303	MEAN	1069	MAX	1560	MIN	704	ACFT	774200
WTR YR 1984	TOTAL	394027	MEAN	1077	MAX	1440	MIN	733	ACFT	781600

10172630 GOGGIN DRAIN NEAR MAGNA, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1972 to September 1984 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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)
OCT 21...	1415	996	1270	7.8	15.5	12.5	330	6.6	59
DEC 28...	1400	1130	1320	7.8	-2.0	1.5	350	7.0	65
JAN 31...	1400	1110	1360	8.0	-4.0	1.5	360	7.1	65
MAR 12...	1230	1230	1540	7.8	6.0	5.0	360	7.2	67
JUL 11...	1200	812	3400	8.1	27.0	21.0	470	9.3	62
AUG 28...	1200	762	1360	8.1	28.0	23.0	330	6.5	62
SEP 25...	1015	798	1220	8.1	10.0	11.0	310	6.1	57

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)
OCT 21...	45	130	45	3.2	13	200	200	180
DEC 28...	46	130	44	3.1	12	210	200	170
JAN 31...	47	150	47	3.5	12	230	200	200
MAR 12...	47	170	49	4.0	14	230	210	230
JUL 11...	76	460	66	9.4	32	190	230	810
AUG 28...	42	120	43	3.0	11	200	180	160
SEP 25...	40	120	45	3.1	12	200	180	160

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, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
OCT 21...	0.6	23	769	1.0	2070	0.95	0.27	0.83
DEC 28...	0.6	23	775	1.1	2360	0.99	0.29	0.89
JAN 31...	0.5	22	836	1.1	2510	0.92	0.29	0.89
MAR 12...	0.6	20	899	1.2	2990	0.93	0.26	0.8
JUL 11...	0.4	16	1800	2.5	3950	0.65	0.14	0.43
AUG 28...	0.5	23	756	1.0	1560	0.73	13.0	40
SEP 25...	0.5	21	711	0.97	1530	0.91	0.36	1.1

JORDAN RIVER BASIN

10172630 GOGGIN DRAIN NEAR MAGNA, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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)
JUL 11...	1200	11	<100	2	<10	5	<1	290	<0.1	1	<1	30

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT 21...	1415	260	6.00	10
DEC 28...	1400	240	10	14
JAN 31...	1400	260	5.00	17
MAR 12...	1230	310	20	31
JUL 11...	1200	340	40	20
AUG 28...	1200	250	80	17
SEP 25...	1015	240	9.00	12

10172650 KENNECOTT DRAIN NEAR MAGNA, UT

LOCATION.--Lat 40°45'28", long 112°10'12", in SW1/4NE1/4SW1/4 sec.3, T.1 S., R.3 W., Salt Lake County, Hydrologic Unit 16020204, on left bank about 50 ft upstream from culvert on Interstate 80, and 4.5 mi northwest of Magna.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to September 1967. October 1971 to September 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,210 ft from topographic map. Prior to June 25, 1976, water-stage recorder at site 350 ft downstream at different datum.

REMARKS.--Records poor. Small diversions for industrial use above station.

AVERAGE DISCHARGE.--18 years (water years 1964-68, 1972-84), 100 ft^3/s, 72,450 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 389 ft^3/s Mar. 18, 1964, gage height, 5.50 ft, result of break in dike of Kennecott tailings pond; minimum, 11 ft^3/s July 29, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 152 ft^3/s Aug. 7, 8; minimum daily, 79 ft^3/s May 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	133	136	149	138	133	129	120	85	99	123	147	136
2	133	136	150	138	133	129	119	84	100	124	148	136
3	133	137	150	137	132	128	118	83	101	124	148	135
4	133	138	150	136	132	128	117	82	102	125	149	134
5	132	138	151	136	132	128	116	81	103	126	150	134
6	132	138	151	136	132	128	115	80	103	127	151	133
7	132	139	151	136	132	128	113	79	104	128	152	132
8	132	139	150	136	132	128	112	79	105	129	152	132
9	131	139	150	136	132	128	111	80	105	129	151	131
10	131	140	150	136	131	128	110	81	106	130	150	130
11	130	140	150	135	131	128	109	81	106	131	150	130
12	130	140	149	135	131	127	108	82	107	132	149	129
13	130	140	149	135	131	127	107	83	108	133	148	128
14	130	140	149	135	131	127	106	83	108	134	148	128
15	130	141	148	135	131	127	105	84	109	134	147	128
16	130	141	148	135	131	127	104	85	110	135	146	127
17	129	142	147	135	130	127	103	86	110	136	146	126
18	129	142	146	135	130	126	102	87	111	136	145	126
19	129	142	145	134	130	126	100	88	112	137	144	125
20	129	143	144	134	130	126	99	88	113	138	144	124
21	130	144	144	134	130	126	98	89	114	138	144	124
22	130	145	143	134	130	126	97	90	115	139	143	123
23	131	146	143	134	130	126	96	90	116	140	142	122
24	132	146	142	134	130	126	94	91	117	141	142	122
25	132	147	141	134	129	126	92	92	118	142	141	121
26	133	148	141	133	129	126	90	93	119	143	140	120
27	133	148	140	133	129	125	89	94	120	143	140	120
28	134	148	140	133	129	124	88	95	120	144	139	120
29	134	149	140	133	129	123	87	96	121	145	138	120
30	135	149	139	133	---	122	86	97	122	146	138	120
31	135	---	139	133	---	121	---	98	---	146	137	---
TOTAL	4077	4261	4529	4181	3792	3921	3111	2686	3304	4178	4509	3816
MEAN	132	142	146	135	131	126	104	86.6	110	135	145	127
MAX	135	149	151	138	133	129	120	98	122	146	152	136
MIN	129	136	139	133	129	121	86	79	99	123	137	120
ACFT	8090	8450	8980	8290	7520	7780	6170	5330	6550	8290	8940	7570

CAL YR 1983	TOTAL	43733	MEAN	120	MAX	179	MIN	66	ACFT	86740
WTR YR 1984	TOTAL	46365	MEAN	127	MAX	152	MIN	79	ACFT	91960

10172650 KENNECOTT DRAIN NEAR MAGNA, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1972 to September 1984 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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									
20...	1200	129	4290	6.8	13.0	12.0	8.6	655	710
DEC									
05...	1300	151	5690	8.5	1.0	2.0	--	--	1200
JAN									
04...	1330	136	6260	8.3	-1.0	4.0	--	--	960
MAR									
26...	1520	126	7570	8.0	6.0	8.0	--	--	980
MAY									
07...	1225	79	5770	8.2	10.0	12.0	--	--	800
JUL									
05...	1420	126	3090	7.7	25.0	23.0	--	--	600
18...	1015	136	3420	8.8	27.0	23.5	--	653	660
AUG									
08...	1430	152	3200	7.9	28.0	24.0	15.6	650	610
SEP									
11...	1000	130	3400	7.7	28.0	20.0	10.2	648	630
27...	1000	120	3390	7.9	20.0	14.0	10.2	654	660

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									
20...	14	180	64	590	63	9.9	36	180	480
DEC									
05...	24	360	75	800	58	10	45	140	700
JAN									
04...	19	230	93	1000	68	15	45	220	700
MAR									
26...	20	210	110	1200	71	17	61	300	880
MAY									
07...	16	140	110	970	71	15	51	310	700
JUL									
05...	12	140	60	420	59	7.7	24	220	370
18...	13	150	69	500	61	8.7	31	230	440
AUG									
08...	12	130	69	520	63	9.4	34	220	370
SEP									
11...	12	140	67	500	62	9.0	30	220	400
27...	13	150	69	520	62	9.1	30	220	420

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
OCT									
20...	1000	1.0	25	2490	3.4	866	1.3	0.48	1.5
DEC									
05...	1500	1.5	18	3590	4.9	1460	1.6	0.75	2.3
JAN									
04...	1700	1.2	23	3930	5.3	1440	1.9	0.70	2.1
MAR									
26...	2000	1.7	20	4660	6.3	1590	--	--	--
MAY									
07...	1500	1.2	22	3680	5.0	786	1.3	1.00	3.1
JUL									
05...	690	0.9	22	1860	2.5	634	1.2	0.32	0.98
18...	800	1.0	21	2150	2.9	791	0.82	0.49	1.5
AUG									
08...	760	0.9	22	2040	2.8	837	0.8	0.27	0.83
SEP									
11...	820	0.7	25	2120	2.9	742	1.2	0.40	1.2
27...	860	0.7	25	2210	3.0	715	1.2	0.39	1.2

JORDAN RIVER BASIN

10172650 KENNECOTT DRAIN NEAR MAGNA, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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)
JAN												
04...	1330	19	100	3	10	43	2	370	0.1	1	1	290
JUL												
05...	1420	25	<100	<1	<10	6	4	180	<0.1	<1	<1	30
SEP												
27...	1000	13	<100	<1	<10	9	5	220	0.2	3	<1	90

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT				
20...	1200	370	50	80
DEC				
05...	1300	410	60	100
JAN				
04...	1330	540	40	170
MAR				
26...	1520	890	70	200
MAY				
07...	1225	860	30	140
JUL				
05...	1420	310	50	70
18...	1015	390	<10	80
AUG				
08...	1430	400	20	70
SEP				
11...	1000	400	90	70
27...	1000	420	70	80

10172700 VERNON CREEK NEAR VERNON, UT

LOCATION.--Lat 39°58'46", long 112°22'46", in NE1/4SW1/4SW1/4 sec.2, T.10 S., R.5 W., Tooele County, Hydrologic Unit 16020304, on right bank 6.6 mi upstream from confluence with Dutch Creek forming Faust Creek and 8.3 mi southeast of Vernon.

DRAINAGE AREA.--25.0 mi^2.

PERIOD OF RECORD.--June 1958 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft from AMS topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--26 years, 3.56 ft^3/s, 2,580 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 825 ft^3/s Aug. 27, 1972, gage height, 5.70 ft, based on slope-area measurement; minimum, 0.41 ft^3/s Nov. 20, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 10 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 18	1800	40	1.65
Apr. 24	2030	*96	2.10
May 3	2100	65	1.80
May 11	2100	66	1.81

Minimum, 5.8 ft^3/s Dec. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	8.1	7.7	8.1	7.0	6.8	8.1	19	13	10	9.9	9.5
2	10	7.9	7.7	7.8	7.0	7.0	8.1	33	13	11	9.9	9.5
3	10	7.7	7.1	7.7	7.0	7.0	8.1	38	13	10	9.8	9.4
4	10	7.7	7.9	7.7	7.0	6.9	8.2	44	12	10	9.8	9.3
5	9.9	7.7	8.1	7.7	7.0	6.8	8.4	36	13	10	9.5	9.4
6	9.9	7.7	7.9	7.7	7.0	6.7	8.5	27	14	10	9.3	9.5
7	10	7.7	7.8	7.7	7.0	6.8	8.8	23	14	9.9	9.3	9.4
8	9.8	7.7	7.7	7.7	7.0	6.8	8.9	25	13	10	9.2	9.4
9	9.6	7.7	7.7	7.7	7.0	6.9	9.6	33	12	10	9.1	9.4
10	9.6	7.7	7.7	7.7	7.0	7.0	9.5	37	12	10	9.0	9.4
11	9.6	7.4	7.7	7.8	7.0	7.0	9.6	40	11	9.9	9.2	9.5
12	9.6	7.4	7.7	7.7	7.0	7.0	9.7	43	11	10	9.2	9.5
13	9.6	7.6	7.7	7.7	7.1	7.1	9.8	43	11	9.9	9.1	9.8
14	9.6	7.4	7.5	7.7	7.2	7.8	10	39	12	9.8	9.4	9.8
15	9.3	7.4	7.5	7.7	6.8	7.7	11	40	11	10	9.2	9.7
16	9.2	7.4	7.4	7.4	7.1	7.7	14	27	11	9.9	9.4	10
17	8.8	7.5	7.4	7.4	7.0	7.7	19	21	12	9.9	9.2	9.7
18	8.8	7.4	7.4	7.2	7.0	7.7	27	18	11	9.8	9.1	9.4
19	8.8	7.4	7.7	7.4	7.0	7.4	28	16	11	9.7	9.9	9.7
20	8.7	7.4	7.7	7.4	6.8	7.5	17	16	11	10	9.8	11
21	8.4	7.5	7.6	7.4	6.7	7.7	15	16	11	11	9.3	9.4
22	8.4	7.4	7.7	7.4	7.0	7.7	15	16	11	11	9.1	9.0
23	8.4	7.4	7.6	7.4	7.0	7.7	21	15	11	11	9.2	8.8
24	8.6	7.2	7.7	7.4	7.0	7.7	45	16	11	11	9.1	9.7
25	8.3	7.3	7.9	7.4	7.0	8.1	29	16	11	11	9.4	9.5
26	8.1	7.2	7.9	7.4	6.9	8.1	18	14	11	11	9.3	9.2
27	8.1	7.4	7.9	7.1	6.8	8.0	17	14	11	11	9.2	9.2
28	8.1	7.4	7.4	7.0	6.7	7.9	16	14	11	11	9.1	9.1
29	8.1	7.5	7.4	7.0	6.8	7.8	16	13	10	11	9.2	8.8
30	8.1	7.4	7.5	7.0	---	8.1	16	13	10	11	9.3	8.8
31	8.1	---	8.1	7.0	---	8.1	---	13	---	11	9.9	---
TOTAL	281.5	225.6	237.7	232.4	201.9	230.2	449.3	778	349	320.8	290.4	283.8
MEAN	9.08	7.52	7.67	7.50	6.96	7.43	15.0	25.1	11.6	10.3	9.37	9.46
MAX	10	8.1	8.1	8.1	7.2	8.1	45	44	14	11	9.9	11
MIN	8.1	7.2	7.1	7.0	6.7	6.7	8.1	13	10	9.7	9.0	8.8
ACFT	558	447	471	461	400	457	891	1540	692	636	576	563

CAL YR 1983	TOTAL	4711.0	MEAN	12.9	MAX	70	MIN	3.7	ACFT	9340
WTR YR 1984	TOTAL	3880.6	MEAN	10.6	MAX	45	MIN	6.7	ACFT	7700

10172800 SOUTH WILLOW CREEK NEAR GRANTSVILLE, UT

LOCATION.--Lat 40°29'47", long 112°34'25", in SW1/4NW1/4SW1/4 sec.6, T.4 S., R.6 W., Tooele County, Hydrologic Unit 16020304, on right bank 200 ft upstream from Forest Service Guard Station, 1.7 mi above Wasatch National Forest boundary, 9.2 mi southwest of Grantsville, and 14.8 mi west of Tooele.

DRAINAGE AREA.--4.19 mi^2. Area at crest-stage gage site, 3.26 mi^2.

PERIOD OF RECORD.--July 1963 to current year. Annual maximum only, July 1960 to July 1963, at crest-stage gage site.

REVISED RECORDS.--W 1983: 1982.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,360 ft from topographic map. Prior to July 23, 1963, crest-stage gage only, at site 1.4 mi upstream at different datum.

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

AVERAGE DISCHARGE.--21 years, 7.07 ft^3/s, 5,120 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92 ft^3/s June 8, 1964, gage height, 2.27 ft; minimum daily, 1.7 ft^3/s Jan. 6-12, 1967, many days 1977-78.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 84 ft^3/s June 1, peaks above base of 20 ft^3/s not determined; minimum daily, 4.9 ft^3/s Mar. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	6.4	5.6	5.2	5.6	5.6	5.2	14	84	41	14	10
2	8.3	6.4	5.6	5.2	5.6	5.6	5.2	14	79	40	12	10
3	8.3	6.4	5.6	5.2	5.4	5.6	5.2	15	77	39	13	10
4	8.3	6.4	5.5	5.0	5.2	5.6	5.2	13	69	39	12	9.9
5	8.3	6.4	5.2	5.2	5.4	5.2	5.5	14	79	38	12	9.9
6	7.8	6.4	5.2	5.5	5.6	5.2	5.9	15	62	34	12	9.8
7	7.8	6.4	5.2	5.6	5.7	5.2	6.2	15	47	32	12	9.6
8	7.8	6.4	5.2	5.9	5.6	5.2	6.4	17	50	32	12	9.4
9	7.8	6.0	5.2	5.9	5.8	5.6	6.4	18	49	33	12	9.3
10	7.9	6.0	5.2	5.7	6.2	5.6	6.6	24	48	33	12	9.3
11	7.8	6.0	5.2	6.1	6.4	5.6	7.1	32	42	28	13	9.2
12	7.8	6.0	5.2	6.0	6.4	5.6	7.3	36	37	24	13	9.3
13	8.0	6.2	5.2	5.7	6.2	5.6	7.3	50	38	24	13	9.1
14	7.8	5.6	5.2	6.2	6.4	5.6	7.5	75	37	24	13	8.8
15	7.8	5.6	5.2	6.0	6.4	5.6	8.6	59	46	24	13	8.7
16	7.8	5.6	5.2	5.8	6.2	5.6	10	80	43	24	13	8.8
17	7.9	5.6	5.2	5.6	6.0	5.8	13	64	37	23	13	8.8
18	7.8	5.6	5.2	5.8	6.0	5.6	15	56	38	22	13	8.2
19	7.8	5.6	5.2	6.0	6.0	5.6	20	46	33	20	14	7.7
20	7.8	5.7	5.2	5.7	6.0	5.6	21	50	36	19	14	7.8
21	7.8	5.6	5.2	5.6	6.0	5.6	20	61	33	17	14	7.7
22	7.5	5.6	5.2	5.6	6.0	5.6	17	50	30	17	14	7.8
23	6.9	5.6	5.2	5.7	5.8	5.6	17	40	28	17	14	7.7
24	6.9	5.6	5.5	5.7	5.6	5.6	17	51	27	17	14	7.7
25	6.8	5.7	5.6	5.6	5.6	5.6	17	51	27	15	13	7.7
26	6.8	5.6	5.7	5.4	5.6	5.2	18	45	40	14	13	7.7
27	6.8	5.6	5.6	5.6	5.6	5.2	17	46	38	15	12	7.7
28	6.8	5.6	5.4	5.2	5.6	5.2	17	38	44	15	12	7.7
29	6.8	5.6	5.2	5.3	5.6	5.2	15	47	40	15	11	7.7
30	6.6	5.6	5.4	5.4	---	5.2	14	49	41	14	10	7.7
31	6.5	---	5.6	5.5	---	4.9	---	57	---	14	10	---
TOTAL	235.2	176.8	165.1	173.9	169.5	169.5	343.6	1242	1379	763	392	260.7
MEAN	7.59	5.89	5.33	5.61	5.84	5.47	11.5	40.1	46.0	24.6	12.6	8.69
MAX	8.4	6.4	5.7	6.2	6.4	5.8	21	80	84	41	14	10
MIN	6.5	5.6	5.2	5.0	5.2	4.9	5.2	13	27	14	10	7.7
ACFT	467	351	327	345	336	336	682	2460	2740	1510	778	517

CAL YR 1983	TOTAL	4311.0	MEAN	11.8	MAX	80	MIN	3.7	ACFT	8550
WTR YR 1984	TOTAL	5470.3	MEAN	14.9	MAX	84	MIN	4.9	ACFT	10850

10172805 NORTH WILLOW CREEK NEAR GRANTSVILLE, UT

LOCATION.--Lat 40°31'58", long 112°34'19", in NW1/4NE1/4NW1/4 sec.30, T.3 S., R.6 W., Tooele County, Hydrologic Unit 16020304 on left bank 100 ft upstream from Wasatch National Forest boundary and 200 ft upstream from North Willow Irrigation Company diversion structure, and 7.4 mi southwest of Grantsville.

DRAINAGE AREA.--5.38 mi^2.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,960 ft from topographic map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--5 years, 7.94 ft^3/s, 5,750 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 145 ft^3/s May 16, 1984; minimum daily, 1.6 ft^3/s several days in January and February 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 145 ft^3/s May 16, peaks above base of 20 ft^3/s not determined; minimum daily, 3.8 ft^3/s many days during November, January, February, March and August.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	4.1	5.1	4.6	4.1	3.8	6.2	14	60	22	5.5	5.2
2	4.4	4.1	5.1	4.4	4.1	3.9	6.0	15	75	20	5.3	4.8
3	4.5	4.0	5.2	4.4	4.1	4.1	5.8	16	65	18	5.3	4.6
4	4.4	3.8	5.2	4.4	4.1	4.1	5.9	17	54	18	5.0	4.8
5	4.2	3.8	5.2	4.4	4.1	4.1	6.4	18	62	16	4.1	4.7
6	4.1	3.8	5.3	4.4	4.1	4.3	7.8	18	56	15	3.8	4.8
7	4.1	4.0	5.4	4.7	4.1	4.4	8.6	18	48	14	4.0	4.8
8	4.1	4.0	5.4	4.7	4.0	4.4	9.1	18	35	13	4.0	4.7
9	3.9	3.8	5.2	5.0	4.2	4.4	10	24	32	13	4.1	4.8
10	5.0	3.8	5.2	5.0	5.3	4.5	10	36	30	13	5.0	4.8
11	4.6	4.0	5.1	4.8	5.4	4.9	9.7	45	28	12	4.8	4.8
12	4.4	4.1	5.1	4.6	5.4	5.2	9.2	56	26	11	4.8	4.8
13	4.5	5.1	5.3	4.4	5.4	5.6	9.2	70	26	11	6.1	4.7
14	4.6	4.6	5.3	4.6	5.9	6.8	9.5	95	30	10	6.3	4.6
15	4.4	4.4	5.3	4.4	6.0	6.8	11	130	27	9.4	6.5	4.7
16	4.4	4.4	5.2	4.5	5.8	6.6	20	145	41	9.0	6.4	4.5
17	4.2	4.5	5.1	4.6	5.6	6.5	32	124	38	8.6	6.2	4.3
18	4.1	4.7	5.1	4.6	5.3	6.4	29	105	36	8.2	6.1	4.5
19	4.1	4.5	5.1	4.1	5.0	6.7	33	95	36	8.8	6.3	5.0
20	4.1	4.6	4.9	3.9	4.6	6.6	29	85	35	8.8	6.6	5.0
21	4.0	4.7	4.8	3.8	4.8	6.8	22	70	33	8.8	6.5	5.1
22	4.0	4.7	5.0	3.8	5.0	6.9	19	60	30	8.8	6.5	4.7
23	4.3	4.7	4.7	3.8	4.3	6.8	19	48	29	8.2	6.5	4.4
24	4.4	4.8	4.5	3.8	4.1	6.6	20	57	28	7.7	6.3	4.8
25	4.2	5.1	4.4	3.9	4.1	6.5	24	62	28	7.5	6.3	4.7
26	4.1	4.9	5.1	3.8	3.9	6.7	22	67	27	7.5	6.4	4.7
27	4.1	4.7	5.0	3.8	3.8	6.6	20	66	25	8.1	6.3	4.5
28	4.1	4.7	4.5	4.0	3.8	6.5	17	60	24	7.8	6.1	4.5
29	4.1	5.1	4.5	4.1	3.8	6.2	15	54	24	6.0	5.8	4.5
30	4.1	4.9	4.6	4.1	---	6.1	15	49	25	5.6	5.7	4.4
31	4.1	---	4.8	4.1	---	6.1	---	52	---	5.6	5.6	---
TOTAL	131.9	132.4	155.7	133.5	134.2	175.9	460.4	1789	1113	340.4	174.2	141.2
MEAN	4.25	4.41	5.02	4.31	4.63	5.67	15.3	57.7	37.1	11.0	5.62	4.71
MAX	5.0	5.1	5.4	5.0	6.0	6.9	33	145	75	22	6.6	5.2
MIN	3.9	3.8	4.4	3.8	3.8	3.8	5.8	14	24	5.6	3.8	4.3
ACFT	262	263	309	265	266	349	913	3550	2210	675	346	280

CAL YR 1983	TOTAL	4150.3	MEAN	11.4	MAX	100	MIN	3.3	ACFT	8230
WTR YR 1984	TOTAL	4881.8	MEAN	13.3	MAX	145	MIN	3.8	ACFT	9680

10172870 TROUT CREEK NEAR CALLAO, UT

LOCATION.--Lat 39°44'39", long 113°53'21", in SW1/4NW1/4SW1/4 sec.28, T.12 S., R.18 W., Juab County, Hydrologic Unit 16020306, on left bank 2.9 mi upstream from Birch Creek and 14 mi southwest of Callao.

DRAINAGE AREA.--8.19 mi^2.

PERIOD OF RECORD.--October 1958 to current year. Monthly discharge only for October and November 1958, published in WSP 1734.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft from topographic map.

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

AVERAGE DISCHARGE.--26 years, 5.98 ft^3/s, 4,330 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 177 ft^3/s June 2, 1983, gage height, 2.84 ft; minimum, 0.24 ft^3/s Feb. 25, 1969.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 17	0100	23	1.42
May 14	2400	119	2.47
May 25	1100	*133	2.65
June 01	0800	129	2.61

Minimum daily, 2.3 ft^3/s Feb. 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	3.7	3.4	3.1	2.6	2.4	2.8	7.4	98	24	4.6	3.8
2	4.3	3.6	3.4	3.1	2.6	2.5	2.8	7.5	73	21	4.5	3.6
3	4.2	3.6	3.4	3.0	2.6	2.5	2.8	7.9	62	19	4.4	3.4
4	4.1	3.5	3.4	2.9	2.7	2.5	3.0	8.4	60	17	4.2	3.3
5	3.9	3.4	3.4	3.1	2.7	2.5	3.4	8.5	68	16	4.0	3.2
6	3.8	3.4	3.3	3.2	2.6	2.6	3.7	8.1	40	14	3.8	3.1
7	3.8	3.5	3.3	3.3	2.8	2.6	3.7	7.5	35	13	3.6	3.1
8	3.8	3.5	3.3	3.3	2.8	2.5	4.0	7.5	31	12	3.4	3.0
9	3.8	3.5	3.3	3.2	2.8	2.6	4.2	12	28	11	3.3	2.9
10	3.8	3.4	3.2	3.2	2.9	2.7	4.2	24	26	9.6	3.2	2.8
11	3.9	3.4	3.2	3.2	3.1	2.8	4.1	46	25	8.8	3.1	2.9
12	3.8	3.4	3.2	3.1	3.2	2.8	4.0	71	25	8.4	2.9	3.1
13	3.9	3.6	3.2	3.0	2.8	2.8	4.3	84	25	8.0	2.8	2.9
14	4.0	3.5	3.3	3.1	2.8	3.0	5.2	101	32	7.5	3.8	2.8
15	3.9	3.4	3.4	3.1	2.7	2.9	7.7	103	28	6.8	4.0	2.7
16	3.8	3.6	3.4	3.1	2.7	2.8	15	74	43	6.5	6.2	2.7
17	3.8	3.7	3.2	3.1	2.6	2.8	21	54	41	6.2	5.2	2.6
18	3.8	3.7	3.2	3.0	2.5	3.1	19	48	37	6.0	5.0	2.6
19	3.7	3.7	3.2	3.2	2.4	2.7	18	54	36	6.1	4.9	2.6
20	3.7	3.7	3.3	2.7	2.4	2.8	14	77	39	6.1	5.2	2.7
21	3.7	3.6	3.3	2.7	2.4	3.1	11	99	41	6.1	5.0	2.7
22	3.6	3.7	3.2	2.7	2.4	3.1	9.4	98	39	6.3	4.9	2.6
23	3.7	3.7	3.1	2.7	2.4	3.0	9.5	104	36	6.1	4.7	2.6
24	3.8	3.7	3.3	2.7	2.4	3.1	12	119	34	5.8	4.7	2.7
25	3.7	3.6	3.3	2.6	2.4	3.1	16	107	33	5.6	4.5	2.7
26	3.7	3.6	3.3	2.6	2.4	3.2	14	88	31	5.5	4.4	2.7
27	3.7	3.5	3.2	2.5	2.4	3.1	11	90	29	5.5	4.2	2.5
28	3.6	3.4	3.4	2.5	2.3	3.0	9.3	68	28	5.4	4.2	2.4
29	3.6	3.4	3.2	2.6	2.3	2.9	8.4	70	27	5.3	3.8	2.4
30	3.6	3.4	3.3	2.5	---	2.9	7.7	82	26	5.1	3.8	2.4
31	3.7	---	3.3	2.6	---	2.8	---	98	---	4.8	3.7	---
TOTAL	118.5	106.4	101.9	90.7	75.7	87.2	255.2	1833.8	1176	288.5	130.0	85.5
MEAN	3.82	3.55	3.29	2.93	2.61	2.81	8.51	59.2	39.2	9.31	4.19	2.85
MAX	4.3	3.7	3.4	3.3	3.2	3.2	21	119	98	24	6.2	3.8
MIN	3.6	3.4	3.1	2.5	2.3	2.4	2.8	7.4	25	4.8	2.8	2.4
ACFT	235	211	202	180	150	173	506	3640	2330	572	258	170

CAL YR 1983	TOTAL	5762.9	MEAN	15.8	MAX	156	MIN	3.0	ACFT	11430
WTR YR 1984	TOTAL	4349.4	MEAN	11.9	MAX	119	MIN	2.3	ACFT	8630

10172952 DUNN CREEK NEAR PARK VALLEY, UT

LOCATION.--Lat 41°51'31", long 113°19'35", in NW1/4NW1/4NW1/4 sec.15, T.13 N., R.13 W., Box Elder County, Hydrologic Unit 16020308, on right bank 150 ft upstream from diversion structure, 200 ft downstream from confluence of left hand and right hand forks, and 2.9 mi north of Park Valley.

DRAINAGE AREA.--8.72 mi^2.

PERIOD OF RECORD.--May 1971 to September 1973, October 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,250 ft from topographic map. Prior to Aug. 26, 1982 at site 110 ft downstream at different datum.

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

AVERAGE DISCHARGE.--10 years, 6.58 ft^3/s, 4,770 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 150 ft^3/s May 28, 1983; minimum, 0.14 ft^3/s Mar. 17, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 73 ft^3/s May 14; minimum daily, 1.0 ft^3/s Jan. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	2.5	1.6	1.5	1.2	1.4	2.5	6.8	58	32	11	6.2
2	4.7	2.5	1.8	1.3	1.1	1.7	2.3	7.3	45	26	11	5.5
3	4.0	2.5	2.0	1.5	1.1	1.7	2.1	10	42	24	10	5.2
4	3.9	2.5	1.6	1.7	1.1	1.4	2.0	9.2	39	24	10	5.0
5	3.7	2.5	1.4	1.6	1.1	1.1	2.2	8.4	35	22	9.8	6.8
6	3.6	2.4	1.6	1.6	1.2	1.2	2.7	8.2	35	22	9.8	6.2
7	3.5	2.3	1.8	1.6	1.3	1.3	2.8	8.2	32	21	9.4	5.2
8	3.4	2.3	2.0	1.6	1.4	1.3	3.2	8.0	30	21	9.4	5.2
9	3.4	2.3	2.0	1.6	1.6	1.4	3.1	12	26	19	9.4	5.0
10	3.1	2.3	2.0	1.6	1.4	1.6	2.9	16	25	18	8.9	4.7
11	3.1	2.3	2.0	1.6	1.3	1.7	2.7	23	23	17	8.9	4.7
12	2.9	2.3	2.0	1.6	1.4	1.7	2.6	50	21	16	8.5	4.7
13	2.9	2.3	1.8	1.6	1.4	1.7	3.4	70	21	16	8.5	4.7
14	2.9	2.3	2.0	1.5	1.3	1.7	5.3	73	23	15	8.2	4.7
15	2.9	2.3	2.0	1.4	1.2	1.8	7.8	65	32	14	8.2	5.0
16	2.9	2.3	1.8	1.4	1.3	1.8	12	51	39	14	14	4.7
17	2.9	2.5	1.8	1.2	1.4	2.9	11	38	38	14	8.9	4.5
18	2.9	2.3	1.8	1.0	1.3	2.0	10	32	40	13	7.8	4.5
19	2.9	2.1	1.6	1.2	1.2	1.8	9.5	34	40	12	7.8	4.2
20	2.8	1.9	1.5	1.4	1.1	2.0	8.7	41	44	11	7.5	4.2
21	2.7	1.7	1.4	1.5	1.4	2.5	8.3	45	43	13	7.2	4.2
22	2.7	1.6	1.3	1.5	1.8	2.2	8.6	36	37	14	7.2	4.2
23	2.8	1.8	1.4	1.5	1.6	2.1	11	42	35	14	7.5	4.0
24	2.7	2.0	1.5	1.7	1.5	2.3	10	52	33	12	7.2	3.9
25	2.7	2.2	1.6	1.9	1.8	2.1	9.8	47	36	12	7.8	3.8
26	2.5	2.0	1.7	1.6	1.6	2.1	10	48	36	12	6.8	3.5
27	2.5	2.0	1.6	1.4	1.4	2.1	12	50	35	12	6.5	3.5
28	2.5	1.8	1.4	1.2	1.2	2.0	8.1	52	34	11	6.2	3.3
29	2.5	1.5	1.2	1.1	1.3	2.0	7.6	54	35	16	6.2	3.0
30	2.5	1.4	1.4	1.1	---	2.0	7.4	58	35	13	6.2	3.0
31	2.5	---	1.7	1.1	---	2.0	---	63	---	12	6.2	---
TOTAL	95.9	64.7	52.3	45.1	39.0	56.6	191.6	1118.1	1047	512	262.0	137.3
MEAN	3.09	2.16	1.69	1.45	1.34	1.83	6.39	36.1	34.9	16.5	8.45	4.58
MAX	4.9	2.5	2.0	1.9	1.8	2.9	12	73	58	32	14	6.8
MIN	2.5	1.4	1.2	1.0	1.1	1.1	2.0	6.8	21	11	6.2	3.0
ACFT	190	128	104	89	77	112	380	2220	2080	1020	520	272

CAL YR 1983	TOTAL	4358.5	MEAN	11.9	MAX	150	MIN	1.2	ACFT	8650
WTR YR 1984	TOTAL	3621.6	MEAN	9.90	MAX	73	MIN	1.0	ACFT	7180

NOTE.--Because of extensive channel work, record was unusable May 3-June 1.

10173450 MAMMOTH CREEK ABOVE WEST HATCH DITCH, NEAR HATCH, UT

LOCATION.--Lat 37°37'19", long 112°31'07", in NE1/4NW1/4SW1/4 sec.3, T.37 S., R.6 W., Garfield County, Hydrologic Unit 16030001, on left bank 0.5 mi upstream from West Hatch ditch diversion, 2 mi upstream from Spring Hollow, 4.5 mi upstream from mouth, and 5 mi southwest of Hatch.

DRAINAGE AREA.--105 mi^2.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,300 ft from topographic map.

REMARKS.--Records fair. One small diversion for irrigation above station.

AVERAGE DISCHARGE.--20 years, 52.9 ft^3/s, 38,330 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 838 ft^3/s June 19, 1983, gage height, 5.13 ft; minimum recorded, 0.06 ft^3/s Dec. 25, 1977, Jan. 1, 22, 1978, result of ice jam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 250 ft^3/s, 547 ft^3/s May 22, gage height, 4.39 ft; minimum daily, 15 ft^3/s Feb. 26, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	45	41	28	27	18	22	43	193	61	53	33
2	74	47	40	25	26	20	22	42	183	58	48	33
3	74	46	38	24	25	21	22	50	169	55	45	32
4	73	45	38	26	25	20	22	67	157	52	43	31
5	72	44	33	28	24	18	21	88	167	51	42	30
6	69	44	34	27	24	17	22	107	156	49	42	30
7	65	44	34	27	23	17	22	118	144	48	42	30
8	62	46	35	27	22	17	22	128	138	47	40	30
9	60	43	37	27	20	18	22	162	131	46	38	29
10	59	44	40	26	20	18	22	235	122	45	37	30
11	57	43	38	23	21	18	23	315	114	44	39	31
12	56	44	38	22	18	19	23	375	107	46	40	31
13	55	44	37	22	16	20	24	383	101	56	38	30
14	56	43	39	22	17	22	26	412	97	55	41	29
15	57	41	40	21	17	23	31	462	93	53	40	28
16	56	41	37	20	17	22	39	444	89	50	38	29
17	55	41	35	18	18	22	48	430	87	49	48	28
18	54	43	35	18	17	21	58	422	81	46	54	28
19	53	40	35	16	16	21	64	427	76	51	43	27
20	52	41	34	18	17	21	61	442	73	52	42	28
21	51	42	30	21	17	21	55	452	71	55	42	28
22	50	44	29	23	17	21	46	456	68	55	39	28
23	49	48	30	24	17	21	43	431	66	66	37	28
24	49	49	32	25	17	21	46	417	64	62	36	28
25	49	48	32	29	16	21	58	384	62	60	44	28
26	48	47	34	31	15	21	60	365	60	63	48	27
27	47	47	37	29	15	20	55	335	59	58	42	27
28	47	47	33	26	16	20	51	310	57	56	37	26
29	47	48	30	26	17	21	47	280	56	52	36	26
30	46	47	28	26	---	22	44	250	61	48	34	25
31	46	---	28	26	---	22	---	220	---	55	33	---
TOTAL	1761	1336	1081	751	557	624	1121	9052	3102	1644	1281	868
MEAN	56.8	44.5	34.9	24.2	19.2	20.1	37.4	292	103	53.0	41.3	28.9
MAX	74	49	41	31	27	23	64	462	193	66	54	33
MIN	46	40	28	16	15	17	21	42	56	44	33	25
ACFT	3490	2650	2140	1490	1100	1240	2220	17950	6150	3260	2540	1720

CAL YR 1983	TOTAL	43515.9	MEAN	119	MAX	720	MIN	6.8	ACFT	86310
WTR YR 1984	TOTAL	23178	MEAN	63.3	MAX	462	MIN	15	ACFT	45970

NOTE.--No gage height record Nov. 30 to Apr. 4.

10174500 SEVIER RIVER AT HATCH, UT

LOCATION.--Lat 37°39'04", long 112°25'46", in SW1/4SW1/4NW1/4 sec.28, T.36 S., R.5 W., Garfield County, Hydrologic Unit 16030001, on right bank at highway bridge, 0.2 mi east of Hatch, and 2.8 mi downstream from Mammoth Creek.

DRAINAGE AREA.--340 mi^2.

PERIOD OF RECORD.--June 1911 to September 1928, June 1939 to 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 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.--62 years, 127 ft^3/s, 92,010 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge not determined, occurred May 25, 1914, when Hatchtown Dam failed; maximum recorded, 1,490 ft^3/s May 26, 1922, gage height, 5.25 ft, datum then in use; minimum daily, 10 ft^3/s for several days in 1912 when water was stored in Hatchtown Reservoir. Minimum natural flow, 20 ft^3/s Aug. 30, 31, Sept. 1, 7-9, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 500 ft^3/s, 650 ft^3/s May 22, gage height, 2.44 ft; minimum, 74 ft^3/s Sept. 8, 15, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	140	124	101	103	102	86	123	248	126	114	86
2	160	140	124	98	98	106	86	122	240	120	111	87
3	162	140	122	100	98	105	86	123	229	116	107	85
4	162	138	117	101	99	93	84	142	219	107	103	83
5	162	136	118	102	99	88	85	164	221	104	103	81
6	160	134	116	102	103	89	86	191	220	101	103	79
7	159	134	111	101	100	91	86	204	210	101	103	77
8	158	134	111	100	90	96	86	227	205	101	101	76
9	158	134	111	102	93	95	88	259	198	100	97	78
10	158	134	111	103	90	93	88	320	192	95	90	79
11	157	134	111	104	97	96	90	398	181	98	95	84
12	157	134	111	105	84	94	92	469	168	100	96	80
13	155	134	109	105	78	95	93	496	161	127	102	79
14	155	134	107	103	82	104	100	538	156	122	101	79
15	155	130	107	102	87	103	106	566	151	117	101	79
16	155	128	104	102	84	103	115	595	149	111	98	84
17	153	127	102	103	95	100	122	579	147	109	96	92
18	152	127	101	102	83	89	138	577	142	98	99	84
19	150	123	102	102	84	90	151	579	136	104	110	85
20	148	120	102	100	90	88	151	575	132	106	114	80
21	147	129	101	100	89	88	145	574	129	114	108	83
22	143	123	100	100	91	88	129	600	124	118	107	82
23	142	119	98	101	90	89	124	562	119	133	106	83
24	142	119	100	100	90	88	122	511	118	123	112	85
25	142	118	101	103	91	88	122	477	116	134	124	84
26	142	118	103	103	90	88	139	426	122	130	121	83
27	142	118	104	99	88	86	140	390	123	120	115	85
28	142	121	105	101	91	84	134	335	117	123	107	81
29	142	126	104	100	99	88	131	307	113	118	103	80
30	142	125	102	100	---	88	129	276	126	115	102	84
31	142	---	102	97	---	86	---	262	---	114	92	---
TOTAL	4699	3871	3341	3142	2656	2881	3334	11967	4912	3505	3241	2467
MEAN	152	129	108	101	91.6	92.9	111	386	164	113	105	82.2
MAX	162	140	124	105	103	106	151	600	248	134	124	92
MIN	142	118	98	97	78	84	84	122	113	95	90	76
ACFT	9320	7680	6630	6230	5270	5710	6610	23740	9740	6950	6430	4890

CAL YR 1983	TOTAL	96360	MEAN	264	MAX	1340	MIN	40	ACFT	191100
WTR YR 1984	TOTAL	50016	MEAN	137	MAX	600	MIN	76	ACFT	99210

10180000 SEVIER RIVER NEAR CIRCLEVILLE, UT

LOCATION.--Lat 38°06'15", long 112°20'08", in NE1/4SW1/4NW1/4 sec.20, T.31 S., R.4 W., Garfield County, Hydrologic Unit 16030001, on left bank 2 mi upstream from Pine Creek and 6 mi southwest of Circleville.

DRAINAGE AREA.--986 mi^2.

PERIOD OF RECORD.--May to September 1912, April 1914 to September 1927 (fragmentary 1923, 1925-57), October 1949 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1180: 1922(M). WSP 1314: 1916. WRD UT-75-1: 1969. WDR UT-78-1: Drainage area. WDR UT-83-1: 1972(M).

GAGE.--Water-stage recorder. Altitude of gage is 6,240 ft from river-profile map. May 10 to Sept. 19, 1912, nonrecording gage at site 300 ft upstream at different datum. Apr. 23, 1914 to Sept. 30, 1927, and Nov. 21, 1949 to Aug. 6, 1954, water-stage recorder at site 300 ft upstream at datum 0.23 ft higher.

REMARKS.--Records good except for winter months, which are poor. Many diversions above and below station.

AVERAGE DISCHARGE.--44 years (1914-22, 24, 1949-84), 149 ft^3/s, 108,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,980 ft^3/s Dec. 26, 1971, June 2, 1983, gage height, 7.06 ft; minimum daily, 18 ft^3/s June 30, July 1, 5, 1960, June 23, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1938 may have exceeded that of June 2, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,120 ft^3/s Aug. 20, gage height, 4.91 ft; minimum, 69 ft^3/s June 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	308	212	234	230	180	185	190	306	276	124	219	157
2	292	234	230	212	180	195	190	320	261	113	178	150
3	274	223	230	192	180	202	190	334	230	112	129	140
4	230	215	232	200	180	210	190	357	179	103	116	139
5	222	211	219	209	180	202	186	383	181	96	128	132
6	220	209	214	208	180	190	192	418	207	91	171	112
7	237	229	212	205	180	180	183	421	216	93	142	104
8	246	225	220	203	180	190	181	416	204	95	133	101
9	237	220	221	199	180	198	191	425	172	86	125	101
10	233	216	221	189	180	205	179	403	157	85	122	102
11	237	209	225	193	171	206	199	434	136	85	98	96
12	232	207	227	188	168	203	188	502	126	83	105	97
13	233	209	218	191	172	203	200	509	114	96	103	85
14	239	205	221	189	188	210	210	532	103	116	198	90
15	235	200	227	187	192	213	230	595	92	127	216	86
16	234	198	213	175	190	213	253	641	87	118	189	82
17	233	216	208	153	182	209	268	608	82	121	145	92
18	232	266	215	140	175	200	300	594	75	108	352	91
19	228	243	215	146	177	190	320	578	73	108	276	81
20	225	233	215	151	176	185	332	578	71	107	559	87
21	225	243	215	160	170	186	307	585	71	121	321	101
22	223	228	209	167	168	190	294	589	74	131	271	95
23	220	215	219	171	170	193	265	581	76	172	233	91
24	220	220	220	180	178	190	265	557	83	140	264	84
25	219	238	236	190	180	186	319	519	103	189	346	84
26	217	219	264	190	180	187	306	463	110	255	357	82
27	215	216	272	185	178	194	304	385	115	179	253	82
28	213	219	247	180	180	195	300	329	107	211	234	82
29	211	217	238	180	180	190	293	304	98	209	216	84
30	211	225	237	179	---	185	304	281	98	174	206	83
31	212	---	236	180	---	182	---	274	---	266	187	---
TOTAL	7213	6620	7010	5722	5175	6067	7329	14221	3977	4114	6592	2993
MEAN	233	221	226	185	178	196	244	459	133	133	213	99.8
MAX	308	266	272	230	192	213	332	641	276	266	559	157
MIN	211	198	208	140	168	180	179	274	71	83	98	81
ACFT	14310	13130	13900	11350	10260	12030	14540	28210	7890	8160	13080	5940

CAL YR 1983	TOTAL	129910	MEAN	356	MAX	1880	MIN	100	ACFT	257700
WTR YR 1984	TOTAL	77033	MEAN	210	MAX	641	MIN	71	ACFT	152800

10183500 SEVIER RIVER NEAR KINGSTON, UT

LOCATION.--Lat 38°12'22", long 112°12'25", in SE1/4NE1/4NW1/4 sec.16, T.30 S., R.3 W., Piute County, Hydrologic Unit 16030001, on left bank 1,000 ft upstream from bridge on State Highway 22, 1.1 mi west of Kingston, and 1.9 mi upstream from East Fork.

DRAINAGE AREA.--1,131 mi^2.

PERIOD OF RECORD.--June 1914 to current year.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,980 ft from river-profile map. Prior to Sept. 20, 1918, at site 1 mi downstream at different datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--70 years, 128 ft^3/s, 92,740 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 3,000 ft^3/s (including estimated flow of 360 ft^3/s in overflow channel bypassing station), Mar. 4, 1938, gage height, 5.20 ft from rating curve extended above 600 ft^3/s; minimum, 0.90 ft^3/s July 26, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 980 ft^3/s Aug. 20, gage height, 3.34 ft; minimum daily, 23 ft^3/s July 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	162	220	256	255	213	223	228	307	160	35	149	168
2	171	227	260	249	216	230	233	307	154	42	158	153
3	179	238	264	234	215	242	234	304	137	45	123	131
4	175	229	267	222	214	247	235	292	112	44	97	92
5	172	221	254	224	216	230	225	295	85	47	98	90
6	171	220	237	228	216	217	217	317	88	43	99	98
7	178	211	237	229	218	217	216	341	86	32	99	83
8	200	216	255	227	218	219	211	331	86	30	92	73
9	222	217	252	225	215	230	211	315	87	29	82	79
10	228	228	249	219	216	236	212	311	79	29	70	62
11	233	236	250	215	215	245	214	287	73	26	58	63
12	237	232	251	214	212	247	220	310	58	23	51	42
13	236	230	247	210	211	242	220	345	50	26	47	39
14	237	229	245	206	224	244	229	388	40	29	68	35
15	243	215	254	209	224	254	244	444	34	37	119	30
16	237	211	252	201	214	257	265	504	31	46	158	33
17	232	218	236	196	217	248	284	509	32	36	163	39
18	228	243	237	183	218	238	302	477	35	33	252	46
19	217	266	243	190	213	226	325	466	32	38	315	46
20	213	255	240	200	208	222	346	465	31	35	537	46
21	218	258	235	206	206	219	344	463	31	32	369	63
22	227	262	233	210	210	226	325	456	32	36	308	63
23	225	250	228	216	213	226	306	451	29	40	268	50
24	222	246	236	220	212	220	289	422	29	46	284	44
25	218	258	248	233	213	219	298	387	29	62	359	43
26	220	265	274	236	215	218	318	347	27	144	400	46
27	219	248	303	226	213	229	314	305	27	171	296	45
28	216	250	314	217	213	225	314	267	27	121	248	42
29	215	256	270	218	217	218	304	231	29	143	213	43
30	213	255	244	218	---	223	307	201	32	114	197	44
31	216	---	245	215	---	221	---	173	---	193	188	---
TOTAL	6580	7110	7816	6751	6225	7158	7990	11018	1782	1807	5965	1931
MEAN	212	237	252	218	215	231	266	355	59.4	58.3	192	64.4
MAX	243	266	314	255	224	257	346	509	160	193	537	168
MIN	162	211	228	183	206	217	211	173	27	23	47	30
ACFT	13050	14100	15500	13390	12350	14200	15850	21850	3530	3580	11830	3830

CAL YR 1983	TOTAL	115082	MEAN	315	MAX	1560	MIN	28	ACFT	228300
WTR YR 1984	TOTAL	72133	MEAN	197	MAX	537	MIN	23	ACFT	143100

10183900 EAST FORK SEVIER RIVER NEAR RUBYS INN, UT

LOCATION.--Lat 37°34'33", long 112°15'54", in NE1/4SE1/4NW1/4 sec.19, T.37 S., R.4 W., Garfield County, Hydrologic Unit 16030002, Dixie National Forest, on left bank about 100 ft upstream from highway bridge, 0.6 mi downstream from Skunk Creek, 3.6 mi upstream from Tropic Reservoir Dam, 9.1 mi southwest of Rubys Inn, and 10.5 mi southeast of Hatch.

DRAINAGE AREA.--71.6 mi^2.

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WRD UT-74-1: 1973.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,860 ft from river-profile map. Prior to October 10, 1966, on right bank at different datum.

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

AVERAGE DISCHARGE.--23 years, 17.9 ft^3/s, 12,970 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 448 ft^3/s May 23, 1980, gage height, 3.28 ft; no flow for several days in February and March 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 50 ft^3/s, 53 ft^3/s Mar. 21, gage height, 2.04 ft; minimum daily, 6.4 ft^3/s July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	15	16	20	18	13	23	23	12	11	15	8.3
2	29	19	17	20	18	14	22	22	13	9.2	11	7.9
3	22	17	17	20	18	15	24	21	11	8.9	9.7	7.8
4	19	16	17	20	18	16	29	20	10	8.1	9.5	7.7
5	18	16	17	20	18	14	35	22	17	7.2	10	7.5
6	18	16	17	20	18	16	33	20	14	6.9	11	7.4
7	17	16	17	20	18	18	30	19	13	7.0	10	7.1
8	17	15	17	20	18	18	35	19	12	6.8	9.7	7.1
9	16	14	17	20	17	17	34	19	11	6.4	9.2	7.2
10	16	15	18	20	15	17	32	18	10	6.6	8.6	7.4
11	16	20	18	20	14	18	34	18	9.7	6.8	9.2	8.6
12	16	21	18	19	15	18	30	18	9.5	6.9	10	9.0
13	16	21	18	18	16	20	31	17	9.1	11	10	7.9
14	19	18	21	18	15	23	30	18	8.8	17	9.8	7.8
15	17	16	21	17	14	25	29	21	8.9	13	11	7.6
16	16	17	16	16	13	26	29	17	8.8	11	12	12
17	16	17	16	15	12	23	28	16	8.9	11	9.9	10
18	16	16	16	16	11	19	27	16	8.9	11	14	8.7
19	16	15	16	17	11	29	28	15	8.2	10	11	8.4
20	15	17	16	18	14	28	29	15	8.0	8.8	11	12
21	15	16	16	18	14	35	28	14	7.6	8.6	12	9.4
22	15	14	16	18	14	32	26	13	7.5	14	10	8.4
23	15	13	16	18	13	27	25	13	7.4	16	9.5	8.1
24	15	13	16	18	12	31	24	12	7.4	11	10	7.8
25	15	15	16	18	12	32	29	12	8.1	9.3	19	7.8
26	15	13	16	16	13	30	26	12	9.7	9.9	13	10
27	15	11	16	15	12	27	25	11	9.7	13	10	11
28	15	12	16	17	12	26	27	11	8.1	12	9.3	9.1
29	15	13	16	18	12	26	25	11	8.3	12	8.8	8.6
30	15	15	17	18	---	25	24	11	10	14	8.4	8.6
31	15	---	20	18	---	24	---	11	---	16	8.1	---
TOTAL	528	472	527	566	425	702	851	505	295.6	320.4	329.7	256.2
MEAN	17.0	15.7	17.0	18.3	14.7	22.6	28.4	16.3	9.85	10.3	10.6	8.54
MAX	29	21	21	20	18	35	35	23	17	17	19	12
MIN	15	11	16	15	11	13	22	11	7.4	6.4	8.1	7.1
ACFT	1050	936	1050	1120	843	1390	1690	1000	586	636	654	508

CAL YR 1983	TOTAL	15526.5	MEAN	42.5	MAX	361	MIN	8.0	ACFT	30800
WTR YR 1984	TOTAL	5777.9	MEAN	15.8	MAX	35	MIN	6.4	ACFT	11460

10188000 OTTER CREEK RESERVOIR NEAR ANTIMONY, UT

LOCATION.--Lat 38°10'15", long 112°01'25", in NW1/4SW1/4NW1/4 sec.28, T.30 S., R.2 W., Piute County, Hydrologic Unit 16030002, near spillway on right side of dam on Otter Creek, 3.7 mi northwest of Antimony and 9.3 mi east of Kingston.

DRAINAGE AREA.--373 mi^2.

PERIOD OF RECORD.--January 1914 to September 1915, January 1934 to current year. Published as "near Coyote" 1914.

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

GAGE.--Staff gage usually read on 10th, 20th, and last day of each month. Altitude of gage is 6,350 ft by barometer.

REMARKS.--Reservoir was formed in 1898 by a 15-ft earthfill, rock-faced dam which was raised some each year to the ultimate height of 45 ft in 1915. The dam has a concrete core through the center. Capacity, 52,700 acre-ft between gage height zero (bottom of outlet gage) and 36.0 ft (top of flashboards on spillway). At times, additional flashboards are added or surcharge occurs increasing the stage to 37.0 ft, capacity, 55,200 acre-ft. Spillway crest is at gage height 33.5 ft. Figures given herein represent total contents. Reservoir stores water from Otter Creek and also water diverted from East Fork Sevier River, for irrigation in Sevier River basin.

COOPERATION.--Gage-height record furnished by Otter Creek Reservoir Company. Revised capacity table, based on Soil Conservation Service survey in 1960, used since Oct. 1, 1962.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 56,760 acre-ft May 31, 1982, gage height, 37.6 ft; minimum observed, 200 acre-ft Sept. 10, 1956, gage height, 1.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 52,660 acre-ft several days during May, June, and August, gage height, 36.0 ft; minimum observed, 46,770 acre-ft Apr.16, gage height, 33.6 ft.

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

33	45,330	35	50,170
34	47,730	36	52,660

RESERVOIR STORAGE (ACRE-FT), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANTANEOUS OBSERVATIONS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	49190	49930	---	49190	---	---	48950	52660	---	---	---
2	---	---	---	50170	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	50170	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	50170	---	---	---	---	---	---	---	---	52410
7	---	49190	---	---	---	---	---	49680	---	---	---	---
8	---	---	---	---	---	---	---	---	52660	---	50920	---
9	---	---	---	---	---	---	---	49930	52660	---	---	---
10	---	---	---	---	---	---	48460	---	---	---	---	52160
11	---	---	---	---	---	---	---	---	---	51670	---	---
12	48950	---	---	---	---	---	47970	---	---	---	---	---
13	---	---	---	50170	---	---	---	---	52660	---	---	---
14	---	---	---	---	---	49930	47490	---	---	---	---	51420
15	---	---	---	---	---	---	---	50920	---	---	---	---
16	---	---	---	---	---	---	46770	---	52660	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	52660	52660	---	---	---
20	---	---	---	---	---	---	---	---	---	51170	---	50670
21	---	---	---	---	---	50920	---	---	52660	---	---	---
22	---	---	---	---	---	---	---	52660	---	---	51910	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	47730	---	---	---	---	---
25	---	---	---	---	49680	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	52660	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	51670	48460	---	---	---	---	---
29	---	---	---	---	48950	---	---	---	---	---	---	---
30	---	49680	---	---	---	---	48950	---	52660	---	---	49440
31	a49220	---	49930	50170	---	51170	---	52660	---	51170	52660	---
(#)	---	34.8	34.9	35.0	34.5	35.4	34.5	36.0	36.0	35.4	36.0	34.7
(*)	+510	+460	+250	+240	-1220	+2220	-2220	+3710	0	-1490	+1490	-3220

CAL YR 1983 . . . . . (*) +3640
WTR YR 1984 . . . . . (*) +730

(#) GAGE HEIGHT, IN FEET, AT END OF MONTH.
(*) CHANGE IN CONTENTS, IN ACRE-FEET.
(a) NO GAGE READING, CONTENTS INTERPOLATED.

10189000 EAST FORK SEVIER RIVER NEAR KINGSTON, UT

LOCATION.--Lat 38°11'49", long 112°09'01", in NW1/4SW1/4SE1/4 sec.13, T.30 S., R.3 W., Piute County, Hydrologic Unit 16030002, on left bank 1,500 ft upstream from bridge on State Highway 22, 2.2 mi east of Kingston, 4.6 mi upstream from mouth, and 10 mi downstream from Otter Creek.

DRAINAGE AREA.--1,207 mi^2.

PERIOD OF RECORD.--March 1913 to current year.

REVISED RECORDS.--WSP 750: 1931-32. WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,150 ft from river-profile map. Prior to Apr. 29, 1914, staff gage at site 0.5 mi upstream at different datum. Apr. 29, 1914 to June 2, 1939, water-stage recorder at site 4,000 ft downstream at different datum. June 12, 1939 to July 29, 1970, water-stage recorder at site 2,500 ft downstream at different datum.

REMARKS.--Records fair. Diversions for irrigation above and below station. Also diversion upstream for storage in Otter Creek Reservoir (see station 10188000); flow regulated by reservoir.

AVERAGE DISCHARGE.--71 years, 78.9 ft^3/s, 57,160 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,030 ft^3/s May 12, 1941, gage height, 5.05 ft; minimum, 1.0 ft^3/s Jan. 25, 1976, gage height, 0.52 ft, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 607 ft^3/s May 13, gage height, 3.24 ft; minimum, 39 ft^3/s Oct. 16-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	87	98	119	122	138	313	118	223	92	55	63
2	62	93	100	119	122	138	327	113	220	97	55	63
3	53	94	100	120	122	149	293	110	214	103	56	63
4	50	96	108	121	122	138	318	113	213	99	57	65
5	48	97	102	121	122	136	318	149	210	95	57	63
6	48	100	100	122	124	131	318	169	208	93	55	63
7	50	100	104	122	122	140	324	178	195	91	56	62
8	49	108	103	121	122	120	293	141	64	85	55	62
9	47	109	104	121	120	100	329	215	57	84	55	61
10	44	132	105	122	122	99	336	306	56	79	55	61
11	45	134	107	120	120	113	334	383	58	76	54	143
12	46	132	118	119	120	113	341	451	62	59	54	143
13	44	130	118	120	122	104	332	524	83	60	57	134
14	44	128	130	120	122	107	336	500	127	61	62	127
15	42	130	130	120	117	117	357	470	125	65	71	122
16	40	133	118	121	122	113	359	400	125	60	67	110
17	41	135	108	121	120	110	355	291	94	58	64	105
18	44	149	110	122	120	110	320	297	86	56	63	100
19	79	140	112	122	122	104	279	292	85	55	63	92
20	86	139	113	122	122	100	236	298	84	56	65	92
21	85	128	120	121	125	110	227	315	82	59	68	89
22	83	90	120	121	127	100	214	310	99	60	62	84
23	84	85	120	122	125	97	210	280	95	60	61	81
24	82	87	119	122	131	94	208	286	94	56	62	77
25	80	96	120	122	136	92	228	299	97	57	70	113
26	81	99	121	124	134	100	206	284	100	58	79	110
27	82	94	120	122	131	104	152	270	98	57	81	104
28	81	91	120	124	129	117	129	266	96	55	85	100
29	80	94	119	122	132	220	147	259	90	55	69	96
30	81	94	119	122	---	223	138	251	88	53	66	92
31	83	---	118	120	---	268	---	219	---	54	64	---
TOTAL	1986	3324	3504	3757	3597	3905	8277	8557	3528	2148	1943	2740
MEAN	64.1	111	113	121	124	126	276	276	118	69.3	62.7	91.3
MAX	122	149	130	124	136	268	359	524	223	103	85	143
MIN	40	85	98	119	117	92	129	110	56	53	54	61
ACFT	3940	6590	6950	7450	7130	7750	16420	16970	7000	4260	3850	5430

CAL YR 1983	TOTAL	65479	MEAN	179	MAX	1300	MIN	12	ACFT	129900
WTR YR 1984	TOTAL	47266	MEAN	129	MAX	524	MIN	40	ACFT	93750

10191000 PIUTE RESERVOIR NEAR MARYSVALE, UT

LOCATION.--Lat 38°19'26", long 112°11'26", in NW1/4NE1/4NW1/4 sec.3, T.29 S., R.3 W., Piute County, Hydrologic Unit 16030001, at Piute Dam on Sevier River, 9.0 mi south of Marysvale.

DRAINAGE AREA.--2,438 mi^2.

PERIOD OF RECORD.--March 1914 to current year.

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

GAGE.--Staff gage read at irregular intervals. Datum of gage is 5,900.8 ft NGVD of 1929 (levels by Office of State Engineer).

REMARKS.--Reservoir is formed by earthfill dam; storage began in summer of 1910. Capacity, 71,830 acre-ft between gage heights 10 ft (approximate bottom of reservoir) and 76 ft (top of flashboards on spillway since 1941). Spillway crest is at gage height 70.2 ft. No dead storage. Water is used for irrigation. Revised capacity table, based on Soil Conservation Service survey in 1960, used since Oct. 1, 1962.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 83,050 acre-ft June 5, 1983, gage height, 79.8 ft, original capacity table; no contents at times in several years.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 72,620 acre-ft May 24, gage height, 76.3 ft; minimum observed, 43,580 acre-ft Sep. 15, 29, 30, gage height, 62.5 ft.

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

62	42,680	70	58,030
63	44,480	75	69,260
65	48,170	77	74,480

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANTANEOUS OBSERVATIONS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52000	---	---	69020	---	55980	57620	58030	71060	65920	48740	48740
2	---	54970	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	68780	68300	---	---	---	71830	---	---	---
5	52980	---	---	---	---	---	---	58030	---	---	51030	---
6	---	55580	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	68300	52000	58030	---	---	60140	---	---
8	52980	---	---	68300	---	---	---	---	---	---	---	45940
9	---	---	---	---	---	---	---	62290	71830	61430	---	---
10	---	---	---	---	69020	51030	58030	---	---	---	50450	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	55580	---	---	---	---	---	---	---	---	---	---
14	53970	---	---	67570	---	51030	---	---	---	55180	46130	---
15	---	---	---	---	62960	---	---	69770	---	---	---	43580
16	---	55980	---	---	---	---	58030	---	71570	---	---	---
17	---	---	---	---	---	51030	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	45390	---
19	53970	57010	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	60140	71830	---	---	---	---
21	---	---	---	67330	---	---	---	---	70800	51610	---	---
22	---	---	---	---	60780	---	---	---	---	---	---	44480
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	51030	---	72620	---	---	---	---
25	---	---	---	67330	58030	---	58030	---	---	48740	---	---
26	54970	59090	---	---	---	---	---	---	69260	---	48930	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	58030	---	---	48740	---	---
29	54970	---	---	---	55980	---	---	---	---	---	---	43580
30	---	60140	---	68300	---	---	a58030	71060	65920	---	---	43580
31	a54970	---	69020	a68300	---	58030	---	a71060	---	a48740	48740	---
(#)	---	71.0	74.9	---	69.0	70.0	---	---	73.6	---	65.3	62.5
(*)	+2970	+5170	+8880	-720	-12320	+2050	0	+13030	-5140	-17180	0	-5160

CAL YR 1983 . . . . . (*) +9400
WTR YR 1984 . . . . . (*) -8420

(#) GAGE HEIGHT, IN FEET, AT END OF MONTH.
(*) CHANGE IN CONTENTS, IN ACRE-FEET.
(a) NO GAGE READING, CONTENTS INTERPOLATED.

10191500 SEVIER RIVER BELOW PIUTE DAM, NEAR MARYSVALE, UTAH

LOCATION.--Lat 38°19'43", long 112°11'30", in NW1/4SW1/4SE1/4 sec.34, T.28 S., R.3 W., Piute County, Hydrologic Unit 16030003, on left bank 0.25 mi downstream from Piute Dam and 8.5 mi south of Marysvale.

DRAINAGE AREA.--2,441 mi^2.

PERIOD OF RECORD.--May to August 1911, May 1912 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,870 ft by barometer. Prior to May 4, 1912, nonrecording gage at site 0.25 mi upstream at different datums. May 4, 1912 to Mar. 31, 1935, water-stage recorder at site 0.05 mi upstream at different datum. Apr. 1, 1935 to Apr. 7, 1936, at datum 0.7 ft higher. Apr. 8, 1936 to Feb. 25, 1970, at datum 0.5 ft higher. Feb. 26, 1970 to Apr. 22, 1979 at site 0.25 mi downstream at different datum.

REMARKS.--Records good. Flow regulated by Piute Reservoir (see station 10191000).

AVERAGE DISCHARGE.--72 years (1912-84), 217 ft^3/s, 157,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,600 ft^3/s May 23, 24, 1922, gage height, 4.45 ft site and datum then in use; practically no flow at times when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 760 ft^3/s May 24-27, gage height, 2.08 ft; minimum daily, 1.8 ft^3/s Dec. 17-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	301	306	428	475	355	745	347	252	412	551	94	409
2	301	309	428	471	355	744	565	445	186	550	64	415
3	301	336	458	515	355	740	551	338	121	546	51	422
4	301	338	489	521	355	737	550	198	257	543	51	415
5	301	338	485	533	355	733	550	131	317	601	74	415
6	301	338	480	486	355	730	550	131	317	632	142	415
7	301	338	474	453	444	727	550	130	209	627	187	403
8	301	338	473	453	500	722	550	131	124	622	225	391
9	301	338	473	453	500	722	550	131	123	582	312	387
10	301	338	277	453	635	520	550	131	120	571	361	373
11	301	345	181	453	739	330	608	131	138	565	391	350
12	301	355	255	453	742	384	654	76	206	563	454	337
13	301	355	253	449	741	384	654	23	152	557	460	306
14	301	355	256	452	751	384	654	23	111	553	475	279
15	301	355	140	451	746	382	653	142	67	523	480	195
16	301	355	2.5	448	745	384	617	309	67	509	487	179
17	301	357	1.8	447	698	384	620	452	67	493	434	131
18	301	272	1.8	317	646	384	436	705	70	484	385	106
19	301	149	1.8	192	662	384	273	673	109	472	333	87
20	301	55	1.8	198	662	384	350	512	156	469	306	82
21	301	52	1.8	198	659	384	618	517	234	321	286	82
22	301	52	1.8	198	654	384	647	633	263	353	252	82
23	301	52	1.8	198	654	384	645	692	312	422	252	82
24	305	57	173	198	652	264	639	723	344	352	276	95
25	306	67	306	291	648	169	630	757	343	285	339	106
26	306	262	308	356	647	87	631	756	414	258	355	106
27	306	447	311	355	645	20	572	697	493	238	379	106
28	306	447	310	356	683	20	506	592	491	238	403	106
29	306	437	307	355	740	20	497	485	522	206	409	106
30	306	428	307	355	---	21	285	428	550	145	415	106
31	306	---	344	355	---	21	---	428	---	126	409	---
TOTAL	9370	8571	7931.1	11888	17323	12678	16502	11772	7295	13957	9541	7074
MEAN	302	286	256	383	597	409	550	380	243	450	308	236
MAX	306	447	489	533	751	745	654	757	550	632	487	422
MIN	301	52	1.8	192	355	20	273	23	67	126	51	82
ACFT	18590	17000	15730	23580	34360	25150	32730	23350	14470	27680	18920	14030

CAL YR 1983	TOTAL	196534.1	MEAN	538	MAX	2470	MIN	1.8	ACFT	389800
WTR YR 1984	TOTAL	133902.1	MEAN	366	MAX	757	MIN	1.8	ACFT	265600

10194000 SEVIER RIVER ABOVE CLEAR CREEK, NEAR SEVIER, UT

LOCATION.--Lat 38°34'20", long 112°15'27", in NE1/4NW1/4NE1/4 sec.5, T.26 S., R.4 W., Sevier County, Hydrologic Unit 16030003, on right bank 0.6 mi upstream from bridge on U.S. Highway 89, 0.7 mi upstream from Clear Creek, and 1.0 mi south of Sevier.

DRAINAGE AREA.--2,707 mi^2.

PERIOD OF RECORD.--May 1911 to November 1916 (published as Sevier River at Sevier), April 1939 to September 1955, October 1960 to current year. Records for November 1916 to September 1929 (published as Sevier River at Sevier) include flow of Clear Creek and are not equivalent.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,560 ft by barometer. Prior to May 16, 1912, nonrecording gage, and May 16, 1912 to Sept. 30, 1929, water-stage recorder, at site 0.8 mi downstream at different datums (datum lowered 1.0 ft Mar. 31, 1913).

REMARKS.--Records fair. Many diversions above station for irrigation. Flow regulated by Piute Reservoir.

AVERAGE DISCHARGE.--44 years (1912-16, 1939-55, 1960-84), 244 ft^3/s, 176,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--(Not including flow of Clear Creek): Maximum discharge, 2,500 ft^3/s June 3, 1983, gage height, 4.82 ft; minimum, 2.3 ft^3/s Dec. 13, 1964. 1916-29 (including flow of Clear Creek): Maximum discharge, 2,800 ft^3/s during last week of May 1922, computed on basis of records for station near Marysvale; minimum, 9.8 ft^3/s March 1975.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,230 ft^3/s May 26; minimum daily, 38 ft^3/s Dec. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	309	320	443	441	365	727	96	603	910	665	177	378
2	319	328	446	472	365	729	497	623	910	650	151	381
3	309	344	448	489	366	726	522	408	584	634	119	390
4	307	357	499	514	366	718	527	372	517	615	111	392
5	307	359	503	532	367	719	527	200	655	603	106	393
6	306	361	495	538	367	715	527	189	649	661	129	390
7	307	361	497	468	377	708	527	190	666	660	206	383
8	308	366	497	461	481	700	532	193	512	652	219	365
9	308	363	498	458	493	695	532	197	422	634	269	361
10	306	363	487	457	510	682	522	215	383	600	330	359
11	306	360	228	456	672	392	517	265	350	589	370	343
12	308	362	261	455	698	383	578	343	358	583	403	336
13	312	363	298	453	712	383	558	345	409	588	439	313
14	313	363	305	453	724	375	622	362	375	585	470	288
15	312	361	316	451	728	375	622	422	350	574	506	242
16	312	362	131	453	725	375	627	561	322	530	506	213
17	313	363	56	453	723	375	563	614	303	514	474	196
18	313	363	50	400	640	370	552	712	292	502	409	146
19	311	257	44	250	643	375	354	877	292	487	391	140
20	311	149	41	200	650	383	346	943	299	495	334	121
21	311	98	38	195	648	392	492	910	366	504	337	125
22	312	86	48	195	638	392	638	981	454	327	296	119
23	313	81	41	194	633	396	650	1060	478	451	284	118
24	312	81	45	193	638	392	650	1150	517	430	282	114
25	314	93	236	193	638	217	650	1210	537	373	318	141
26	315	98	338	300	641	205	651	1230	542	328	345	144
27	316	386	356	330	641	111	640	1200	584	305	365	146
28	316	443	353	340	642	83	576	1130	627	292	381	145
29	317	443	354	350	703	77	549	1020	619	291	388	146
30	319	444	349	360	---	83	546	930	667	233	388	148
31	320	---	346	365	---	81	---	876	---	204	385	---
TOTAL	9662	9078	9047	11869	16794	13334	16190	20331	14949	15559	9888	7476
MEAN	312	303	292	383	579	430	540	656	498	502	319	249
MAX	320	444	503	538	728	729	651	1230	910	665	506	393
MIN	306	81	38	193	365	77	96	189	292	204	106	114
ACFT	19160	18010	17940	23540	33310	26450	32110	40330	29650	30860	19610	14830

CAL YR 1983	TOTAL	208371	MEAN	571	MAX	2450	MIN	38	ACFT	413300
WTR YR 1984	TOTAL	154177	MEAN	421	MAX	1230	MIN	38	ACFT	305800

10194200 CLEAR CREEK ABOVE DIVERSIONS, NEAR SEVIER, UT

LOCATION.--Lat 38°34'45", long 112°17'22", in NW1/4NW1/4SW1/4 sec.31, T.25 S., R.4 W., Sevier County, Hydrologic Unit 16030003, on left bank at south side of State Highway 13, 1.8 mi west of Sevier, 2.3 mi upstream from mouth, and 17.2 mi southwest of Richfield.

DRAINAGE AREA.--164 mi^2.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,680 ft from topographic map.

REMARKS.--Records fair except for period of no gage height, Mar. 7 to May 14, which is poor. Small diversions for irrigation above station. Flow regulated by several small reservoirs, combined capacity about 1,000 acre-ft, at headwaters.

AVERAGE DISCHARGE.--27 years, 36.7 ft^3/s, 26,590 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 769 ft^3/s Apr. 29, 1973, gage height, 4.41 ft; minimum, 1.5 ft^3/s Feb. 21, 1976, gage height, 0.85 ft, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 633 ft^3/s May 24; minimum daily, 5.7 ft^3/s Nov. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	13	18	21	28	36	37	500	325	111	54	33
2	26	15	18	15	29	35	35	490	294	111	57	32
3	24	14	17	17	32	36	34	480	246	114	53	32
4	24	13	18	27	36	34	36	470	219	111	46	31
5	24	12	10	27	35	35	43	460	225	104	45	31
6	24	12	14	26	36	32	51	477	211	98	43	33
7	24	12	20	27	35	31	69	470	266	95	40	33
8	24	16	18	26	34	31	70	480	221	92	40	35
9	23	13	17	26	37	31	71	470	193	89	39	34
10	23	16	17	26	33	30	72	500	181	84	39	32
11	23	16	18	23	33	30	100	513	176	77	38	34
12	23	17	18	22	35	30	85	520	169	76	53	35
13	23	16	17	23	35	29	124	509	164	80	51	33
14	22	16	18	23	35	30	129	540	163	76	65	28
15	22	14	20	22	31	31	218	498	163	71	106	28
16	20	16	11	20	42	30	240	546	159	62	95	30
17	20	16	20	19	36	29	260	492	153	57	72	30
18	17	19	18	16	35	28	280	435	148	54	62	29
19	15	17	17	17	33	28	220	436	146	51	68	29
20	14	18	16	17	31	31	180	456	140	51	64	30
21	13	18	15	18	35	38	160	622	138	53	52	33
22	13	17	16	18	35	38	197	558	132	57	49	30
23	13	5.7	16	18	36	36	197	592	130	55	47	28
24	14	19	16	18	39	38	300	633	125	51	48	28
25	15	19	18	18	39	41	400	570	121	52	43	30
26	15	10	27	19	40	44	450	469	120	63	41	28
27	14	14	32	20	41	35	460	420	117	78	39	27
28	14	19	20	22	41	37	456	356	112	64	39	26
29	13	21	21	23	36	43	474	337	110	59	37	26
30	13	18	27	24	---	39	466	309	110	54	35	26
31	13	---	26	26	---	46	---	310	---	55	34	---
TOTAL	589	461.7	574	664	1023	1062	5914	14918	5177	2305	1594	914
MEAN	19.0	15.4	18.5	21.4	35.3	34.3	197	481	173	74.4	51.4	30.5
MAX	26	21	32	27	42	46	474	633	325	114	106	35
MIN	13	5.7	10	15	28	28	34	309	110	51	34	26
ACFT	1170	916	1140	1320	2030	2110	11730	29590	10270	4570	3160	1810

CAL YR 1983	TOTAL	29289.5	MEAN	80.2	MAX	478	MIN	5.7	ACFT	58100
WTR YR 1984	TOTAL	35195.7	MEAN	96.2	MAX	633	MIN	5.7	ACFT	69810

10205000 SEVIER RIVER NEAR SIGURD, UT

LOCATION.--Lat 38°52'13", long 111°57'14", in SW1/4NE1/4SW1/4 sec.19, T.22 S., R.1 W., Sevier County, Hydrologic Unit 16030003, on left bank 200 ft downstream from county road bridge, 0.5 mi downstream from Rocky Ford Dam, 2.3 mi northeast of Sigurd, and 5.0 mi upstream from Lost Creek.

DRAINAGE AREA.--3,375 mi^2.

PERIOD OF RECORD.--July to September 1912, July 1914 to current year. Prior to October 1938, published as "near Vermillion."

REVISED RECORDS.--WSP 1394: 1927-28, 1947.

GAGE.--Water-stage recorder. Altitude of gage is 5,180 ft by barometer. July to September 1912, nonrecording gage 0.3 mi downstream at different datum. July 31, 1914 to Apr. 19, 1917, nonrecording gage and Apr. 20, 1917 to Oct. 16, 1935, water-stage recorder, at present site at datum 2.00 ft lower.

REMARKS.--Records good. Flow regulated by reservoirs above station. During irrigation season practically entire flow through Rocky Ford Dam is diverted above station for irrigation below station.

AVERAGE DISCHARGE.--70 years, 107 ft^3/s, 77,520 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,400 ft^3/s May 30, 1922, gage height, 6.1 ft, present datum, from rating curve extended above 600 ft^3/s on basis of maximum discharge for other Sevier River stations; practically no flow (seepage only) at times when Rocky Ford Reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,320 ft^3/s May 27, gage height, 4.89 ft; minimum daily, 22 ft^3/s June 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	259	338	447	485	540	776	366	782	783	40	223	68
2	262	311	478	492	550	813	338	793	798	73	167	67
3	266	306	513	546	560	841	311	896	843	92	85	57
4	266	311	531	593	560	837	623	995	702	98	55	52
5	266	316	535	601	560	832	759	976	581	89	86	46
6	269	316	539	589	540	828	724	914	613	70	114	43
7	340	319	542	585	520	826	711	826	739	42	116	44
8	371	324	546	569	524	825	709	760	952	41	93	45
9	354	327	554	558	562	824	710	706	960	41	79	44
10	338	327	558	573	605	825	715	581	833	38	80	44
11	319	327	558	558	620	830	747	565	694	43	80	44
12	301	327	513	546	653	782	760	667	624	48	102	43
13	288	330	402	542	719	636	758	782	587	36	122	57
14	274	332	408	539	774	595	794	920	579	32	102	78
15	276	335	424	539	804	596	855	963	561	41	104	80
16	278	343	444	539	821	612	983	988	496	43	153	84
17	274	352	402	528	830	612	1010	1080	415	45	184	89
18	278	346	311	531	857	603	1030	1130	365	54	181	111
19	283	354	264	539	845	598	1120	1090	278	56	156	137
20	283	343	218	502	788	594	1180	1050	151	73	123	151
21	271	306	200	424	765	598	1050	1090	81	225	109	169
22	264	233	183	402	763	608	884	1080	22	308	126	184
23	255	185	167	395	767	608	890	1060	25	356	118	183
24	271	178	169	389	764	600	951	1100	25	326	98	181
25	271	188	170	389	762	592	1010	1180	25	193	141	179
26	276	194	250	398	761	536	1080	1250	70	139	138	182
27	283	172	389	414	758	481	1120	1300	86	147	121	184
28	288	246	520	430	755	388	1070	1300	66	184	102	219
29	291	332	528	460	760	205	963	1240	41	235	61	230
30	293	389	488	490	---	111	854	1120	37	215	59	207
31	335	---	492	520	---	235	---	938	---	236	64	---
TOTAL	8943	9007	12743	15665	20087	19647	25075	30122	13032	3659	3542	3302
MEAN	288	300	411	505	693	634	836	972	434	118	114	110
MAX	371	389	558	601	857	841	1180	1300	960	356	223	230
MIN	255	172	167	389	520	111	311	565	22	32	55	43
ACFT	17740	17870	25280	31070	39840	38970	49740	59750	25850	7260	7030	6550

CAL YR 1983	TOTAL	186726	MEAN	512	MAX	2350	MIN	35	ACFT	370400
WTR YR 1984	TOTAL	164824	MEAN	450	MAX	1300	MIN	22	ACFT	326900

10205030 SALINA CREEK NEAR EMERY, UT

LOCATION.--Lat 38°54'43", long 111°31'47", in SE1/4SW1/4NW1/4 sec.12, T.22 S., R.3 E., Sevier County, Hydrologic Unit 16030003, on right bank, 2.5 mi upstream from Soil Conservation Service retention dam, 15.3 mi west of Emery, and 18.4 mi east of Salina.

DRAINAGE AREA.--51.8 mi^2.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,000 ft from topographic map. Prior to June 9, 1971, at site 300 ft downstream at different datum.

REMARKS.--Records fair. No diversion above station. Slight regulation from small reservoirs at headwaters.

AVERAGE DISCHARGE.--21 years, 20.1 ft^3/s, 14,560 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 621 ft^3/s May 27, 1983, gage height, 5.44 ft; minimum discharge, 0.80 ft^3/s Nov. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 60 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 18	2100	66	3.12
May 20	2000	*580	5.32

Minimum daily, 8.8 ft^3/s Mar. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	16	13	13	11	9.9	10	38	349	66	41	30
2	20	16	14	13	12	10	11	61	261	60	37	30
3	21	17	15	12	12	10	10	55	241	56	34	30
4	23	17	15	13	11	9.9	11	64	247	53	33	29
5	21	17	14	14	12	9.6	11	82	275	51	35	29
6	20	16	14	14	12	9.1	12	73	218	49	33	29
7	20	17	15	14	11	8.8	11	66	285	47	31	28
8	20	18	15	13	11	10	12	89	218	52	30	28
9	24	17	14	12	10	9.9	13	131	197	54	29	27
10	19	15	14	13	11	9.9	12	187	172	53	29	27
11	16	16	14	13	11	10	13	257	127	51	29	28
12	15	18	14	14	10	9.8	13	324	118	50	29	28
13	16	17	13	14	11	10	15	365	120	50	28	27
14	19	15	13	14	11	11	18	350	124	54	29	26
15	18	14	12	13	10	10	24	406	134	46	32	26
16	18	14	12	13	10	10	33	362	126	43	30	26
17	18	15	12	12	10	10	42	359	124	38	28	28
18	17	15	12	12	10	12	48	375	123	37	29	27
19	17	15	12	12	9.7	11	49	394	118	36	29	27
20	17	15	12	12	9.4	10	35	415	114	35	34	25
21	18	15	13	11	9.0	11	30	431	107	35	34	24
22	18	14	13	11	8.9	11	34	421	100	42	32	22
23	19	14	13	11	9.2	10	44	420	93	39	32	22
24	20	14	13	11	9.7	11	54	422	85	36	29	22
25	19	13	13	12	10	11	50	396	81	40	32	20
26	19	13	12	12	9.6	11	40	370	79	37	29	20
27	18	14	12	12	9.2	11	36	345	75	37	28	20
28	18	14	12	11	9.5	11	34	321	71	36	28	19
29	18	14	12	10	9.7	11	34	317	67	36	27	19
30	17	14	13	11	---	11	35	305	66	39	31	19
31	17	---	13	11	---	10	---	318	---	36	30	---
TOTAL	580	459	408	383	299.9	319.9	794	8519	4515	1394	961	762
MEAN	18.7	15.3	13.2	12.4	10.3	10.3	26.5	275	151	45.0	31.0	25.4
MAX	24	18	15	14	12	12	54	431	349	66	41	30
MIN	15	13	12	10	8.9	8.8	10	38	66	35	27	19
ACFT	1150	910	809	760	595	635	1570	16900	8960	2760	1910	1510

CAL YR 1983	TOTAL	14302.8	MEAN	39.2	MAX	434	MIN	1.8	ACFT 28370
WTR YR 1984	TOTAL	19394.8	MEAN	53.0	MAX	431	MIN	8.8	ACFT 38470

NOTE.--No gage height record Oct. 1 to Nov. 14.

10206000 SALINA CREEK AT SALINA, UT

LOCATION.--Lat 38°57'24", long 111°51'58", in SW1/4NW1/4NW1/4 sec.25, T.21 S., R.1 W., Sevier County, Hydrologic Unit 16030003, on right bank 150 ft upstream from bridge on U.S. Highway 89 in Salina and 0.8 mi upstream from mouth.

DRAINAGE AREA.--292 mi^2.

PERIOD OF RECORD.--April to September 1914 (fragmentary), April 1915 to September 1916, October 1917 to September 1919, November 1942 to September 1955, water year 1960 (annual maximum), October 1960 to current year.

REVISED RECORDS.--WSP 1734: Drainage area. WSP 2127: 1953(M), 1960(M), 1965(M). WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,140 ft estimated on basis of nearby benchmark. Prior to Mar. 23, 1915, nonrecording gage at site 150 ft downstream at different datum. Mar. 23, 1915 to Oct. 16, 1917, nonrecording gage, and Oct. 17, 1917 to Sept. 30, 1919, water-stage recorder at site about 0.2 mi upstream at different datum.

REMARKS.--Records poor. Diversions above and below station for irrigation.

AVERAGE DISCHARGE.--39 years (water years 1916, 1918-19, 1944-55, 1961-84), 28.0 ft^3/s, 20,290 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,650 ft^3/s June 7, 1984, gage height, 8.32 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,650 ft^3/s June 7, gage height, 8.32 ft; minimum, 12.0 ft^3/s Sept. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	34	32	36	32	36	56	253	1170	169	112	19
2	36	35	42	36	32	41	55	473	687	141	97	18
3	36	35	41	36	33	45	60	444	536	124	72	17
4	44	35	40	36	35	34	64	546	480	109	69	16
5	32	35	35	35	36	32	73	697	631	105	118	16
6	31	34	37	35	37	35	80	541	472	90	86	15
7	27	34	43	35	38	39	73	330	1130	68	62	13
8	24	37	40	35	39	46	68	464	820	71	44	13
9	45	33	38	35	39	54	93	754	744	74	35	15
10	26	27	39	35	40	58	84	984	662	70	30	14
11	22	27	40	35	34	65	127	1160	610	64	30	17
12	18	32	38	35	46	55	87	1480	627	57	31	19
13	25	39	35	35	41	58	115	1620	649	54	25	17
14	37	39	35	35	45	80	142	1560	686	60	30	15
15	36	33	48	35	37	70	192	1340	686	71	75	15
16	31	32	33	35	41	61	255	1410	595	56	65	15
17	29	35	46	33	38	52	323	1300	448	49	31	16
18	30	57	40	32	35	36	380	1200	404	45	27	15
19	29	37	38	32	35	57	361	1200	323	43	198	15
20	29	39	33	32	35	53	210	1400	296	38	165	18
21	30	40	44	32	35	67	181	1310	278	44	118	44
22	36	35	44	32	35	65	177	1310	276	55	90	25
23	37	33	44	32	35	52	225	1290	255	63	141	21
24	39	49	44	32	35	56	358	1200	201	66	110	18
25	40	41	44	32	35	72	375	1100	188	79	73	19
26	38	27	46	32	35	69	309	1100	176	73	67	20
27	37	29	54	32	35	63	294	1000	162	97	32	19
28	37	35	38	32	35	53	280	900	146	111	24	22
29	35	50	36	32	35	57	267	800	138	84	23	21
30	35	38	36	32	---	56	253	778	144	70	21	24
31	34	---	36	32	---	52	---	727	---	83	20	---
TOTAL	1023	1086	1239	1045	1063	1669	5617	30671	14620	2383	2121	551
MEAN	33.0	36.2	40.0	33.7	36.7	53.8	187	989	487	76.9	68.4	18.4
MAX	45	57	54	36	46	80	380	1620	1170	169	198	44
MIN	18	27	32	32	32	32	55	253	138	38	20	13
ACFT	2030	2150	2460	2070	2110	3310	11140	60840	29000	4730	4210	1090

CAL YR 1983	TOTAL	42593.7	MEAN	117	MAX	1110	MIN	7.0	ACFT	84480
WTR YR 1984	TOTAL	63088	MEAN	172	MAX	1620	MIN	13	ACFT	125100

10208500 OAK CREEK NEAR FAIRVIEW, UT

LOCATION.--Lat 39°40'26", long 111°24'30", in NW1/4NE1/4SW1/4 sec.19, T.13 S., R.5 E., Sanpete County, Hydrologic Unit 16030004, on right bank 2.1 mi upstream from mouth and 3.7 mi northeast of Fairview.

DRAINAGE AREA.--11.8 mi^2.

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

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

GAGE.--Water-stage recorder. Altitude of gage is 6,550 ft from topographic map. Prior to Nov. 16, 1983, at datum 10.0 ft lower.

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

AVERAGE DISCHARGE.--20 years, 12.5 ft^3/s, 9,060 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,190 ft^3/s May 30, 1983, gage height, 5.99 ft result of indirect measurement of peak flow; minimum, 0.78 ft^3/s Nov. 29, 1974.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 24	1700	45	8.72
May 22	2100	*401	10.16

Minimum daily, 2.9 ft^3/s Jan. 17, 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	5.4	4.4	4.2	4.4	4.0	4.7	11	227	24	7.9	4.7
2	8.6	4.8	4.4	3.6	4.2	4.0	4.7	13	172	23	7.4	4.6
3	7.9	4.8	4.4	4.7	4.0	3.8	4.7	14	138	21	7.1	4.6
4	7.4	4.8	3.7	4.5	4.0	3.8	4.9	22	107	20	7.0	4.5
5	7.0	4.8	4.5	4.5	4.0	3.6	4.7	23	101	19	7.0	4.5
6	6.6	4.8	4.7	4.5	4.0	3.8	5.8	20	116	18	7.0	4.4
7	6.2	4.6	4.4	4.4	4.0	3.7	5.4	19	112	16	6.7	4.4
8	6.0	4.3	4.4	4.4	4.0	3.8	5.2	23	100	15	6.5	4.4
9	5.8	4.3	4.3	4.2	4.0	3.9	5.2	29	86	15	6.3	4.4
10	5.6	4.5	4.4	4.2	4.2	4.1	5.0	31	77	14	6.2	4.4
11	5.6	4.8	4.4	4.2	4.0	4.0	4.7	45	70	13	6.2	5.7
12	5.4	5.2	4.4	4.2	4.0	3.9	4.5	69	66	13	6.0	5.1
13	5.4	4.6	4.3	4.0	4.2	3.9	6.0	111	64	13	5.9	4.8
14	5.8	4.3	4.5	4.0	4.3	4.2	6.5	165	61	13	6.2	4.5
15	5.4	4.3	4.4	3.6	3.7	4.2	9.7	205	58	12	5.9	4.5
16	5.2	4.8	4.3	3.1	4.0	4.2	15	232	54	11	5.8	4.7
17	5.2	4.8	4.4	2.9	4.0	4.2	25	225	50	11	5.6	4.5
18	5.2	4.2	4.2	2.9	3.9	4.2	24	217	46	11	5.6	4.4
19	5.2	4.0	4.3	3.2	3.4	4.2	22	214	44	10	6.0	4.3
20	5.0	3.8	4.1	3.5	3.9	4.2	16	242	42	9.9	5.8	4.6
21	4.8	3.8	3.5	3.5	4.1	4.7	15	295	39	11	5.7	7.0
22	4.8	4.0	4.6	3.9	4.0	4.2	10	282	37	9.8	5.4	4.8
23	4.8	4.4	4.4	3.9	3.7	4.2	11	268	35	9.5	5.3	4.5
24	5.5	4.7	4.4	4.0	3.9	4.4	22	264	33	9.0	5.3	4.6
25	5.0	4.4	4.6	4.3	4.0	4.4	16	229	31	8.8	6.0	4.5
26	4.8	4.7	5.2	4.4	3.8	4.4	16	264	29	9.5	5.3	4.4
27	4.8	4.4	4.7	4.2	3.7	4.2	13	264	28	9.9	5.1	4.2
28	4.8	4.4	3.8	4.3	4.0	4.4	12	238	27	9.6	5.0	4.1
29	4.8	4.4	4.4	4.2	4.0	4.4	11	209	26	8.9	4.8	4.0
30	4.8	4.2	4.4	4.2	---	4.7	11	215	26	8.4	4.8	4.0
31	7.0	---	4.5	4.2	---	4.4	---	256	---	8.2	4.7	---
TOTAL	178.6	135.3	135.4	123.9	115.4	128.1	320.7	4714	2102	404.5	185.5	138.1
MEAN	5.76	4.51	4.37	4.00	3.98	4.13	10.7	152	70.1	13.0	5.98	4.60
MAX	8.6	5.4	5.2	4.7	4.4	4.7	25	295	227	24	7.9	7.0
MIN	4.8	3.8	3.5	2.9	3.4	3.6	4.5	11	26	8.2	4.7	4.0
ACFT	354	268	269	246	229	254	636	9350	4170	802	368	274

CAL YR 1983	TOTAL	9873.8	MEAN	27.1	MAX	410	MIN	3.2	ACFT	19580
WTR YR 1984	TOTAL	8681.5	MEAN	23.7	MAX	295	MIN	2.9	ACFT	17220

10215700 OAK CREEK NEAR SPRING CITY, UT

LOCATION.--Lat 39°26'52", long 111°25'29", in SW1/4SE1/4SW1/4, sec.1, T.16 S., R.4 E., Sanpete County, on right bank about 400 ft upstream from powerplant diversion, 0.8 mi downstream from South Fork, and 4.5 mi southeast of Spring City.

DRAINAGE AREA.--8.35 mi^2.

PERIOD OF RECORD.--October 1964 to September 1974, June 1979 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,400 ft from topographic map.

REMARKS.--Records fair. No diversion above station. Flow includes discharge of Spring City tunnel (transmountain diversion from Colorado River Basin).

AVERAGE DISCHARGE.--15 years, 11.6 ft^3/s, 8,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 300 ft^3/s July 23, 1965, gage height, 3.75 ft from floodmark, from rating curve extended above 75 ft^3/s; minimum, 0.93 ft^3/s Mar. 6, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 40 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 24	1100	*193	3.28
June 30	2100	128	3.06

Minimum daily, 4.4 ft^3/s Feb 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	8.0	7.4	6.0	5.5	5.1	4.8	7.0	135	79	18	11
2	11	7.9	7.4	5.6	5.1	5.1	5.1	7.4	111	72	20	10
3	11	7.5	7.4	5.8	5.4	5.1	4.7	7.3	100	68	20	10
4	10	7.7	6.9	5.8	5.5	5.1	5.0	7.4	86	64	20	10
5	10	7.9	6.8	5.8	5.5	4.8	5.5	7.5	87	58	22	10
6	9.8	7.9	6.7	5.8	5.5	5.2	5.5	7.4	85	51	19	10
7	9.4	8.4	6.6	5.8	5.5	4.9	5.3	7.6	90	46	18	9.8
8	9.2	7.8	6.6	5.8	5.5	4.8	5.1	8.7	78	42	17	10
9	9.2	7.3	6.6	5.8	5.5	5.1	5.5	11	74	38	16	9.8
10	9.2	8.0	6.6	5.6	5.5	5.1	4.8	14	69	33	16	9.4
11	9.2	8.3	6.6	5.5	5.5	5.1	4.7	18	60	29	16	11
12	8.9	8.1	6.6	5.5	5.2	5.1	4.6	26	58	26	15	10
13	9.0	8.3	6.6	4.8	5.3	5.1	5.0	32	61	23	15	10
14	9.4	7.6	6.6	5.5	5.6	5.3	5.6	32	70	22	14	9.6
15	9.1	7.7	6.5	5.5	5.0	5.1	7.1	63	77	19	19	9.4
16	8.9	7.9	6.7	4.8	5.2	5.1	8.5	94	78	17	15	9.4
17	9.0	8.2	7.0	5.2	5.5	4.8	9.3	88	78	17	13	9.0
18	9.0	7.6	6.7	5.1	5.1	4.8	9.4	82	80	16	13	9.0
19	8.8	7.9	6.6	5.5	4.8	4.7	9.0	70	80	20	13	9.0
20	8.8	7.7	6.2	5.5	4.4	4.8	7.8	100	80	27	14	9.0
21	8.7	8.0	5.8	5.6	5.5	5.2	7.4	112	84	30	13	10
22	8.5	7.7	6.2	5.5	5.5	5.1	7.1	83	82	32	12	9.5
23	8.3	7.2	6.6	5.5	4.8	4.8	7.7	80	81	30	12	9.0
24	8.3	7.6	6.6	5.5	5.1	4.9	8.9	140	81	27	12	9.0
25	8.1	7.7	6.6	5.5	5.1	5.2	9.0	118	78	25	15	9.0
26	8.1	7.0	6.6	5.5	5.1	5.1	7.9	77	80	34	13	9.0
27	8.1	7.0	6.5	5.5	4.8	4.9	7.4	81	81	27	12	9.0
28	7.9	7.0	6.2	5.5	4.9	4.7	7.2	103	76	23	12	8.8
29	7.9	7.0	5.8	5.5	5.1	4.7	7.1	133	74	29	11	8.4
30	7.9	7.2	6.2	5.5	---	4.7	7.0	140	80	24	11	8.4
31	7.9	---	6.2	5.5	---	4.7	---	145	---	15	11	---
TOTAL	280.6	231.1	204.4	171.3	152.0	154.2	199.0	1902.3	2434	1063	467	285.5
MEAN	9.05	7.70	6.59	5.53	5.24	4.97	6.63	61.4	81.1	34.3	15.1	9.52
MAX	12	8.4	7.4	6.0	5.6	5.3	9.4	145	135	79	22	11
MIN	7.9	7.0	5.8	4.8	4.4	4.7	4.6	7.0	58	15	11	8.4
ACFT	557	458	405	340	301	306	395	3770	4830	2110	926	566

CAL YR 1983	TOTAL	7131.5	MEAN	19.5	MAX	132	MIN	2.7	ACFT	14150
WTR YR 1984	TOTAL	7544.4	MEAN	20.6	MAX	145	MIN	4.4	ACFT	14960

NOTE.--No gage height record July 19 to September 30.

10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UT

LOCATION.--Lat 39°15'33", long 111°34'45", in NE1/4SE1/4SE1/4 sec.9, T.18 S,, R.3 E,, Sanpete County, Hydrologic Unit 16030004, on right bank 200 ft downstream from a side road bridge 0.6 mi upstream from upper powerplant, 2.3 mi east of cattle guard at Manti-LaSal forest boundary, and 3.5 mi east of Manti.

DRAINAGE AREA.--26.4 mi^2.

PERIOD OF RECORD.--October 1964 to September 1974; October 1978 to current year.

REVISED RECORDS.--WRD UT-81-1: 1979, 1980(M).

GAGE.--Water-stage recorder. Altitude of gage is 6,800 ft from topographic map.

REMARKS.--Records poor. Records do not include flow diverted around station in an 8-inch pipeline, for culinary water for the city of Manti, and generation of power at the upper powerplant. Records include flow of a small transmountain diversion from San Rafael River basin.

AVERAGE DISCHARGE.--16 years, 33.6 ft^3/s, 24,340 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 682 ft^3/s June 9, 1973, gage height, 2.93 ft; minimum, 0.9 ft^3/s Nov. 3, 1968.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 16	1800	78	1.58
May 15	1700	404	3.29
May 23	1700	*579	3.89
June 21	1700	320	2.76

Minimum daily, 7.0 ft^3/s Jan. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	14	12	9.0	9.0	11	10	27	444	185	46	23
2	24	14	12	8.8	8.6	9.8	10	27	346	178	46	22
3	25	14	11	8.4	8.6	9.4	10	31	310	168	44	21
4	22	13	11	9.0	8.6	9.0	10	35	320	160	45	21
5	22	13	9.8	9.6	8.8	8.4	11	43	312	150	48	21
6	22	13	9.0	8.8	9.2	9.0	12	33	283	136	43	20
7	20	13	10	9.1	8.6	9.4	12	30	295	127	41	20
8	20	13	11	9.3	8.2	9.6	11	53	247	123	39	20
9	23	11	10	9.1	8.6	10	11	84	213	116	38	19
10	20	13	10	10	9.2	10	14	119	195	106	37	19
11	19	12	9.9	9.4	8.0	11	13	161	185	95	37	20
12	18	13	9.7	9.0	7.6	10	13	211	187	89	37	19
13	17	13	10	8.6	9.0	9.4	16	234	203	87	36	19
14	21	11	10	9.4	9.0	9.0	21	266	234	84	37	18
15	20	13	9.4	8.6	7.6	9.4	35	319	249	81	44	17
16	19	13	9.4	8.0	8.4	9.8	50	310	248	75	39	18
17	19	12	9.8	8.0	8.8	9.4	52	285	259	71	34	18
18	19	13	9.3	7.0	8.4	8.8	45	276	275	67	35	17
19	18	13	9.3	8.0	8.0	8.6	44	307	269	64	34	17
20	17	13	9.2	8.4	7.6	9.4	39	375	274	62	35	20
21	17	14	8.0	8.6	8.4	9.8	35	378	272	66	33	20
22	16	13	9.2	8.8	8.0	9.5	33	329	256	66	33	18
23	16	10	9.4	9.0	7.6	9.0	40	329	269	60	31	17
24	16	9.0	9.4	9.0	8.4	9.0	50	222	255	53	29	17
25	15	11	9.8	9.6	9.0	9.8	40	302	246	52	31	17
26	15	9.6	11	9.0	8.4	10	34	411	258	72	30	17
27	15	9.3	9.6	8.6	8.0	9.8	31	363	244	56	28	16
28	14	9.8	9.6	8.6	8.6	10	29	387	225	51	24	15
29	14	11	9.0	8.6	9.0	11	28	385	210	59	23	15
30	14	13	8.4	8.6	---	10	27	411	198	53	23	15
31	15	---	10	8.6	---	10	---	435	---	48	22	---
TOTAL	577	366.7	305.2	272.5	245.2	298.3	786	7178	7781	2860	1102	556
MEAN	18.6	12.2	9.85	8.79	8.46	9.62	26.2	232	259	92.3	35.5	18.5
MAX	25	14	12	10	9.2	11	52	435	444	185	48	23
MIN	14	9.0	8.0	7.0	7.6	8.4	10	27	185	48	22	15
ACFT	1140	727	605	541	486	592	1560	14240	15430	5670	2190	1100

CAL YR 1983	TOTAL	22392.0	MEAN	61.3	MAX	440	MIN	4.4	ACFT	44410
WTR YR 1984	TOTAL	22327.9	MEAN	61.0	MAX	444	MIN	7.0	ACFT	44290

10216200 GUNNISON RESERVOIR NEAR STERLING, UT

LOCATION.--Lat 39°12'23", long 111°42'37", in SE1/4NW1/4NE1/4 sec.32, T.18 S., R.2 E., Sanpete County, Hydrologic Unit 16030004, on right bank 250 ft upstream from earthfill, rock-faced dam on San Pitch River, 1.2 mi northwest of Sterling, 5.7 mi southwest of Manti, and 6.8 mi northeast of Gunnison.

DRAINAGE AREA.--672 mi2.

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

REVISED RECORDS.--WSP 2127: Drainage area. WDR UT-79-1, WDR UT-81-1: Change in contents.

GAGE.--Inclined staff gage. Datum of gage at top of dead storage is 5,366.2 ft NGVD of 1929 (levels by the Soil Conservation Service and U.S. Geological Survey).

REMARKS.--The reservoir is formed by earthfill, rock-faced dam on the San Pitch River. Active capacity, 18,200 acre-ft at elevation 5,389.6 ft. Dead storage 650 acre-ft below elevation 5,366.2 ft. Figures given herein represent active contents. Extensive diversions above and below reservoir for irrigation. The reservoir is owned and operated by the Gunnison Irrigation Company.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 19,360 acre-ft June 21, 1982, elevation, 5,389.6 ft; no contents during Sept. 1966, Oct. 1-13, 1966, Aug. 20-29, 1972, Aug. 18 to Sept. 25, July 11 to Oct. 4, 1977.

NOTE.--Because meaningful readings were not available from the irrigation company and the staff gage was either washed out or removed, no record was obtainable for this water year.

10217000 SEVIER RIVER BELOW SAN PITCH RIVER, NEAR GUNNISON, UT

LOCATION.--Lat 39°09'19", long 111°52'37", in NE1/4NE1/4SE1/4 sec.14, T.19 S., R.1 W., Sanpete County, Hydrologic Unit 16030003, on left bank 1,000 ft downstream from San Pitch River and 3.2 mi west of Gunnison.

DRAINAGE AREA.--4,921 mi^2.

PERIOD OF RECORD.--March 1912 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,025 ft from topographic map. Prior to Oct. 28, 1938, at same site at datum 0.36 ft higher.

REMARKS.--Records poor. Flow regulated by reservoirs and many diversions for irrigation above station. Most of flow diverted above station during irrigation season.

AVERAGE DISCHARGE.--72 years, 253 ft^3/s, 183,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,400 ft^3/s May 29, 1984; minimum, 5.6 ft^3/s July 17-21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 5,400 ft^3/s May 29; minimum daily 173 ft^3/s Sept. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	617	703	1050	1180	780	1350	1070	1690	4700	1730	636	231
2	698	561	1090	1120	840	1450	1150	1710	4400	1660	665	229
3	719	578	1120	1100	880	1630	868	1890	4400	1580	531	224
4	752	535	1160	1150	880	1690	672	1870	4400	1510	400	202
5	752	566	1200	1200	860	1580	1040	2080	4300	1430	384	191
6	763	612	1160	1100	850	1540	1260	2160	4300	1360	471	189
7	791	642	1160	1050	830	1560	1280	1960	4300	1280	412	175
8	868	682	1230	1000	817	1600	1300	1840	4300	1210	377	173
9	925	708	1350	950	868	1650	1310	1890	4300	1080	314	177
10	931	698	1340	930	938	1690	1460	2020	4200	988	286	178
11	944	708	1330	900	997	1700	1540	2420	4200	370	266	177
12	964	730	1310	900	997	1740	1590	2660	4100	665	272	189
13	944	780	1240	900	1070	1730	1600	3090	3900	462	283	205
14	964	814	1090	890	1220	1650	1650	3580	3600	432	296	219
15	931	785	1100	880	1320	1560	1750	4100	3500	428	412	229
16	868	802	1100	880	1370	1420	1800	4630	3400	424	517	224
17	844	808	1110	880	1440	1340	2180	4630	3200	445	462	226
18	844	931	1030	880	1440	1320	2420	4630	3000	420	432	219
19	797	944	893	880	1450	1340	2520	4630	2900	404	462	231
20	768	944	735	880	1420	1350	2490	4650	2700	392	677	258
21	740	970	667	760	1330	1350	2340	4690	2600	475	493	352
22	725	925	608	670	1320	1350	2140	4650	2830	689	453	362
23	708	768	589	620	1310	1350	1980	4550	2940	732	416	344
24	708	682	539	610	1300	1350	2000	4450	2760	631	424	321
25	687	768	552	600	1310	1360	2030	4650	2590	603	377	334
26	672	808	603	600	1320	1330	1860	4830	2410	484	412	377
27	646	752	868	620	1320	1280	1660	5070	2240	498	370	370
28	672	774	1080	640	1300	1260	1620	5280	1890	531	341	352
29	672	868	1180	680	1320	1180	1740	5400	1890	625	292	370
30	672	964	1170	710	---	1040	1770	5200	1810	631	236	377
31	672	---	1200	740	---	1000	---	4900	---	625	234	---
TOTAL	24258	22810	31854	26900	33097	44740	50090	111800	102060	24794	12603	7705
MEAN	783	760	1028	868	1141	1443	1670	3606	3402	800	407	257
MAX	964	970	1350	1200	1450	1740	2520	5400	4700	1730	677	377
MIN	617	535	539	600	780	1000	672	1690	1810	370	234	173
ACFT	48120	45240	63180	53360	65650	88740	99350	221800	202400	49180	25000	15280

CAL YR 1983	TOTAL	445105	MEAN	1219	MAX	5000	MIN	282	ACFT	882900
WTR YR 1984	TOTAL	492711	MEAN	1346	MAX	5400	MIN	173	ACFT	977300

10218500 SEVIER BRIDGE RESERVOIR NEAR JUAB, UT

LOCATION.--Lat 39°22'20", long 112°01'57", in NW1/4NW1/4NW1/4 sec.1, T.17 S., R.2 W., Juab County, Hydrologic Unit 16030003, at Sevier Bridge Dam on Sevier River, 9.0 mi northeast of Scipio.

DRAINAGE AREA.--5,155 mi^2.

PERIOD OF RECORD.--January 1914 to current year.

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

GAGE.--Staff gage below gage height 60 ft and wire-weight gage above, at left end of dam, read once daily. Datum of gage is 4,937.51 ft NGVD of 1929.

REMARKS.--Reservoir was formed by a 30-ft earthfill dam. Storage began about 1904. Dam ultimately raised to 90 ft by June 1916. Capacity, 236,000 acre-ft between gage heights 6.0 ft (approximate bottom of outlet tunnel) and 80.0 ft (top of flashboard on spillway). No dead storage. Water is used for irrigation. Revised capacity table, based on Soil Conservation Service survey in 1961, used since Oct. 1, 1962.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 271,600 acre-ft June 21-24, 1983; gage height, 83.0 ft; no storage at times in 1927-28, 1930-36, 1951, 1960-61.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 246,200 acre-ft May 30-June 3, gage height, 80.9 ft; minimum contents observed, 100,600 acre-ft Oct. 1, gage height, 62.0 ft.

Capacity table (gage height, in feet, and contents, in acre-feet)

60	92,770	75	186,500
65	114,900	78	215,100
68	132,600	80	236,150
70	146,200	83	271,600
72	161,300		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANTANEOUS OBSERVATIONS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100600	147700	192900	228600	209100	208100	221300	212100	246200	206200	152900	122200
2	102000	148400	194700	229700	209100	208100	220300	211100	246200	204200	152900	121000
3	102800	149900	196600	230800	208100	208100	219200	211100	246200	201400	152100	120400
4	104200	151400	197600	230800	208100	208100	218200	211100	245100	198500	152100	119900
5	106000	152100	199500	229700	207100	209100	217200	211100	244000	195700	151400	118800
6	107900	153600	201400	229700	207100	209100	216100	211100	242800	192900	149900	116600
7	109300	155100	202300	228600	207100	209100	214100	212100	242800	190200	149200	115500
8	110800	155900	204200	227600	207100	209100	214100	212100	244000	187500	147700	114400
9	112900	158200	206200	227600	206200	209100	213100	213100	244000	183900	147000	113400
10	114400	159800	208100	226500	206200	209100	212100	213100	244000	180400	146200	112400
11	115500	161300	210100	225400	206200	209100	210100	213100	242800	176100	145500	112400
12	116600	162900	211100	225400	206200	209100	210100	215100	241700	173600	144100	112400
13	118200	163700	213100	224400	206200	210100	209100	216100	239500	171100	142700	112400
14	119900	164600	215100	223400	206200	210100	208100	220300	238400	167800	142000	112400
15	121600	166200	216100	223400	206200	210100	208100	222300	236100	166200	141300	112900
16	123400	168600	218200	222300	207100	211100	208100	223400	235100	163700	140600	112900
17	124500	171100	219200	221300	207100	211100	208100	227600	234000	162100	140600	112400
18	125700	172700	221300	220300	207100	211100	207100	227600	232900	160600	139900	112400
19	127600	174400	222300	218200	208100	212100	208100	228600	230800	159000	139900	112400
20	129400	176900	223400	217200	208100	214100	209100	230800	229700	158200	138500	112400
21	131900	178700	224400	216100	209100	217200	211100	230800	228600	156700	138500	112400
22	133200	180400	224400	215100	209100	220300	212100	232900	226500	155900	137900	112400
23	133900	182200	224400	214100	209100	222300	212100	236100	224400	155900	135900	112400
24	135200	183900	225400	214100	209100	224400	212100	237300	222300	155900	134600	112400
25	136500	185700	225400	213100	208100	223400	211100	239500	220300	155900	133200	112900
26	137900	186500	225400	213100	209100	224400	212100	240600	217200	155100	131900	112900
27	140600	188400	225400	212100	209100	224400	212100	242800	215100	154400	130100	112900
28	142000	189300	226500	211100	208100	223400	212100	244000	213100	154400	128800	112900
29	143400	190200	226500	211100	208100	222300	212100	245100	211100	153600	127600	112900
30	144800	192000	227600	211100	---	222300	212100	246200	208100	153600	125700	112900
31	146200	---	227600	210100	---	222300	---	246200	---	153600	124500	---
MAX	146200	192000	227600	230800	209100	224400	221300	246200	246200	206200	152900	122200
MIN	100600	147700	192900	210100	206200	208100	207100	211100	208100	153600	124500	112400
(#)	70.0	75.6	79.2	77.5	77.3	78.7	77.7	80.9	77.3	71.0	66.7	64.6
(*)	+47190	+45800	+35600	-17500	-2000	+14200	-10200	+33900	-37900	-54500	-29100	-11600

CAL YR 1983 . . . . . (*) +16500
WTR YR 1984 . . . . . (*) +13890

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

10219000 SEVIER RIVER NEAR JUAB, UT

LOCATION.--Lat 39°22'29", long 112°02'20", in SE1/4SW1/4SE1/4 sec.35, T.16 S., R.2 W., Juab County, Hydrologic Unit 16030005, on right bank 0.5 mi downstream from Sevier Bridge Dam and 11.6 mi southwest of Juab.

DRAINAGE AREA.--5,165 mi^2.

PERIOD OF RECORD.--September 1911 to current year.

GAGE.--Water-stage recorder and rubble masonry control since Apr. 16, 1914. Altitude of gage is 4,940 ft by barometer. Prior to Apr. 16, 1914, staff gage 500 ft upstream at different datum. Apr. 16, 1914 to Apr. 7, 1938, water-stage recorder at present site and datum. Apr. 8, 1938 to Mar. 31, 1942, water-stage recorder at site 1,300 ft upstream at different datum. Apr. 1, 1942 to July 15, 1961, water-stage recorder on left bank same site and datum.

REMARKS.--Records good. Flow regulated by Sevier Bridge Reservoir (see station 10218500).

AVERAGE DISCHARGE.--73 years, 254 ft^3/s, 184,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,190 ft^3/s June 25, 1983, gage height, 10.90 ft; practically no flow at times when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,610 ft^3/s May 31, gage height, 10.36 ft; minimum daily, 3.3 ft^3/s Nov. 19, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	5.6	335	863	1190	1300	1600	2110	4550	2540	802	1050
2	81	5.2	333	875	1170	1300	1600	2110	4570	2510	817	898
3	81	5.2	333	885	1160	1310	1600	2110	4560	2500	890	848
4	81	5.2	314	1090	1150	1320	1600	2120	4510	2490	887	848
5	37	5.2	277	1510	1140	1400	1720	2120	4440	2480	883	851
6	11	5.2	260	1530	1140	1450	1790	2130	4370	2470	887	851
7	11	5.2	260	1520	1130	1450	1800	2140	4380	2450	887	855
8	11	5.3	264	1500	1120	1450	1770	2150	4400	2430	883	859
9	11	4.8	266	1470	1120	1450	1810	2140	4220	2420	875	859
10	11	4.0	267	1450	1120	1450	1820	2140	4410	2410	859	547
11	9.7	3.7	270	1430	1110	1460	1790	2180	4330	2080	783	295
12	9.8	3.7	272	1420	1110	1460	1780	2260	4270	1800	783	288
13	9.5	4.0	276	1410	1110	1470	1750	2380	4200	1780	783	288
14	9.1	3.7	304	1410	1110	1480	1740	2780	4120	1540	783	285
15	9.0	3.7	338	1460	1110	1490	1730	3140	3930	1310	783	336
16	9.0	3.7	335	1530	1120	1490	1730	3230	3680	1280	783	366
17	9.3	3.7	338	1490	1140	1510	1730	3380	3610	1130	783	362
18	8.8	3.7	295	1450	1140	1510	1740	3450	3520	1120	813	360
19	8.4	3.3	247	1400	1160	527	1770	3530	3430	1090	812	360
20	8.4	3.3	249	1360	1160	207	1810	3610	3340	828	904	356
21	8.4	68	571	1330	1200	298	1830	3680	3220	824	1020	356
22	8.4	110	813	1300	1260	385	1860	3800	3110	824	1100	354
23	8.4	126	812	1270	1270	480	1870	3940	3000	821	1200	350
24	8.5	160	814	1240	1300	1120	1870	4040	2890	817	1190	350
25	7.8	163	817	1160	1330	1300	1870	4090	2790	817	1180	350
26	7.8	163	816	1140	1320	1400	1890	4180	2650	809	1170	345
27	6.6	160	821	1130	1320	1500	1880	4250	2540	809	1160	266
28	6.6	221	825	1110	1310	1500	1880	4420	2510	809	1160	393
29	6.1	250	832	1100	1310	1500	1870	4510	2500	809	1160	390
30	5.7	282	843	1130	---	1500	1980	4530	2500	809	1140	390
31	5.6	---	852	1190	---	1600	---	4540	---	805	1140	---
TOTAL	585.9	1790.4	14649	40153	34330	39067	53480	97190	110550	47611	29300	15306
MEAN	18.9	59.7	473	1295	1184	1260	1783	3135	3685	1536	945	510
MAX	81	282	852	1530	1330	1600	1980	4540	4570	2540	1200	1050
MIN	5.6	3.3	247	863	1110	207	1600	2110	2500	805	783	266
ACFT	1160	3550	29060	79640	68090	77490	106100	192800	219300	94440	58120	30360

CAL YR 1983	TOTAL	464807.3	MEAN	1273	MAX	4920	MIN	3.3	ACFT	921900
WTR YR 1984	TOTAL	484012.3	MEAN	1322	MAX	4570	MIN	3.3	ACFT	960000

10219200 CHICKEN CREEK NEAR LEVAN, UT

LOCATION.--Lat 39°33'08", long 111°49'45", in NW1/4NE1/4SW1/4 sec.33, T.14 S., R.1 E., Juab County, Hydrologic Unit 16030005, on right bank 370 ft downstream from county road bridge, just upstream from diversion structure, 0.4 mi upstream from mouth of canyon, and 1.9 mi east of Levan.

DRAINAGE AREA.--27.9 mi^2.

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

GAGE.--Water-stage recorder. Altitude of gage is 5,500 ft from topographic map. Prior to Jan. 18, 1978 at site 250 ft upstream at different datum.

REMARKS.--Records poor. Due to changes in irrigation diversion downstream of orifice and heavy channel construction, plus the ground work for a dam upstream, a reliable stage-discharge relationship could not be maintained for the period Mar. 31 to Sept. 30.

AVERAGE DISCHARGE.--22 years, 9.39 ft^3/s, 6,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 390 ft^3/s Sept. 8, 1981, gage height, 5.70 ft, from rating curve extended above 250 ft^3/s on basis of velocity-area study; no flow Feb. 11, 14, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 15 ft^3/s not determined. Maximum daily discharge, 379 ft^3/s May 18; minimum daily discharge 4.5 ft^3/s Jan. 18, Feb. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	7.6	7.0	7.0	5.8	5.0	7.0	205	86	36	15	10
2	9.0	7.2	7.0	7.0	5.8	4.9	10	252	80	32	15	10
3	9.0	7.2	7.0	7.0	5.6	4.9	12	247	77	30	15	9.8
4	9.0	6.8	7.0	7.0	5.6	4.8	14	282	72	30	15	9.8
5	9.0	7.0	6.4	7.0	5.4	4.7	17	310	86	29	15	9.6
6	9.0	7.0	7.0	7.0	5.4	4.7	20	307	97	28	14	9.6
7	9.0	7.0	7.0	7.0	5.4	4.8	24	295	105	26	14	9.4
8	9.0	7.0	7.0	7.0	5.3	4.9	26	325	110	19	14	9.2
9	9.0	7.0	7.0	7.0	5.3	4.9	30	315	90	21	14	9.2
10	9.0	7.0	7.0	7.0	5.3	5.0	35	300	70	22	14	9.0
11	9.0	7.0	7.0	7.0	5.3	5.0	45	290	60	21	13	13
12	9.0	7.0	7.0	7.0	5.3	5.0	55	290	54	20	12	10
13	9.0	7.0	7.0	7.0	5.6	5.0	65	280	52	19	12	10
14	9.0	7.0	7.0	7.0	5.8	5.2	75	290	50	19	13	9.8
15	9.0	7.0	7.0	6.0	5.9	5.0	92	300	49	18	20	9.8
16	9.0	7.0	7.0	5.4	5.2	5.0	112	300	47	18	15	9.6
17	9.0	7.0	7.0	4.8	5.4	5.0	87	360	44	18	12	9.4
18	8.0	7.0	7.0	4.5	5.4	5.0	97	379	42	17	12	9.4
19	7.6	7.0	7.0	4.6	4.5	5.0	100	337	40	17	12	9.2
20	7.4	7.0	7.0	4.8	4.8	5.0	87	330	39	19	11	11
21	7.0	7.0	7.0	5.0	5.2	5.4	90	301	38	18	11	15
22	7.0	6.4	7.0	5.2	4.8	5.2	95	288	38	17	11	11
23	7.0	6.0	7.0	5.4	5.0	4.7	127	277	37	17	11	9.1
24	7.0	7.0	7.0	5.6	5.0	5.0	197	256	36	17	11	9.1
25	7.0	7.0	7.0	5.8	5.0	5.1	267	218	35	16	13	9.1
26	7.0	7.0	7.0	6.0	4.9	5.3	217	200	34	16	11	8.6
27	7.0	7.0	7.0	6.0	4.9	5.2	182	176	33	16	10	6.7
28	7.0	7.0	7.0	5.8	5.0	5.3	170	149	32	18	10	7.3
29	7.0	7.0	7.0	5.6	5.0	5.4	167	129	32	16	10	7.4
30	7.0	7.0	7.0	5.6	---	5.6	180	104	34	15	10	7.4
31	7.0	---	7.0	5.6	---	5.6	---	91	---	15	10	---
TOTAL	253.0	209.2	216.4	189.7	152.9	156.6	2702.0	8183	1699	640	395	287.5
MEAN	8.16	6.97	6.98	6.12	5.27	5.05	90.1	264	56.6	20.6	12.7	9.58
MAX	9.0	7.6	7.0	7.0	5.9	5.6	267	379	110	36	20	15
MIN	7.0	6.0	6.4	4.5	4.5	4.7	7.0	91	32	15	10	6.7
ACFT	502	415	429	376	303	311	5360	16230	3370	1270	783	570

CAL YR 1983	TOTAL	12078.7	MEAN	33.1	MAX	380	MIN	3.0	ACFT	23960
WTR YR 1984	TOTAL	15084.3	MEAN	41.2	MAX	379	MIN	4.5	ACFT	29920

10224000 SEVIER RIVER NEAR LYNNDYL, UT

LOCATION.--Lat 39°28'55", long 112°23'35", in NW1/4NE1/4SE1/4 sec.27, T.15 S., R.5 W., Millard County, Hydrologic Unit 16030005, on right bank 1.6 mi downstream from highway bridge and 3.5 mi southwest of Lynndyl.

DRAINAGE AREA.--5,966 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1914 to October 1919, October 1942 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 4,660 ft by barometer.

REMARKS.--Records good. Flow regulated by Sevier Bridge Reservoir about 35 mi upstream (see station 10218500). Several diversions for irrigation between reservoir and station.

AVERAGE DISCHARGE.--47 years, 235 ft^3/s, 170,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,020 ft^3/s June 15-17, 1983; minimum, 2.4 ft^3/s Jan. 26, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,810 ft^3/s May 30, gage height, 12.21 ft; minimum, 18 ft^3/s Nov. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	26	211	825	1130	1300	1810	2200	4580	2420	860	917
2	36	26	266	833	1130	1320	1840	2320	4610	2440	860	892
3	50	26	283	840	1130	1350	1800	2370	4640	2470	860	788
4	89	25	291	845	1130	1380	1850	2360	4660	2440	860	783
5	96	25	284	843	1110	1360	1990	2360	4700	2390	860	778
6	95	25	237	1130	1100	1370	2000	2370	4720	2380	860	775
7	88	25	267	1470	1100	1500	2130	2370	4720	2380	860	770
8	77	26	275	1510	1100	1560	2220	2380	4750	2370	834	767
9	75	25	276	1480	1100	1620	2210	2400	4730	2340	834	764
10	71	24	281	1480	1100	1640	2190	2390	4770	2300	832	762
11	70	24	278	1460	1100	1650	2230	2370	4780	2270	829	676
12	68	24	277	1440	1100	1660	2210	2390	4740	2200	818	302
13	50	24	275	1420	1080	1660	2130	2440	4660	1960	715	294
14	34	25	280	1410	1080	1680	2100	2550	4510	1700	605	292
15	33	24	297	1400	1070	1740	2070	2750	4330	1500	610	292
16	31	23	329	1380	1080	1780	2030	3270	4150	1400	612	294
17	30	23	326	1340	1090	1830	1980	3670	3850	1200	632	334
18	29	26	334	1310	1090	1870	1950	3800	3660	1100	639	346
19	29	25	338	1280	1090	1860	2000	3890	3500	1000	649	344
20	29	23	332	1260	1080	1510	2060	3930	3350	960	699	342
21	28	25	313	1250	1080	642	2080	3940	3220	930	738	338
22	28	26	376	1240	1080	647	2140	3940	3110	910	845	336
23	27	24	615	1220	1170	693	2190	3970	3000	900	898	334
24	28	45	623	1200	1220	753	2240	4010	2890	900	932	334
25	27	65	651	1160	1230	1100	2210	4070	2800	900	932	332
26	26	94	652	1140	1270	1700	2160	4150	2720	900	932	332
27	26	122	663	1130	1270	1840	2180	4230	2610	900	932	330
28	26	140	683	1120	1280	1830	2210	4310	2490	890	932	330
29	26	147	761	1110	1290	1830	2200	4370	2440	880	1000	340
30	26	195	780	1100	---	1830	2200	4440	2420	870	954	399
31	26	---	811	1130	---	1810	---	4530	---	870	926	---
TOTAL	1410	1377	12665	37756	32880	46315	62610	100540	116110	49070	25349	14917
MEAN	45.5	45.9	409	1218	1134	1494	2087	3243	3870	1583	818	497
MAX	96	195	811	1510	1290	1870	2240	4530	4780	2470	1000	917
MIN	26	23	211	825	1070	642	1800	2200	2420	870	605	292
ACFT	2800	2730	25120	74890	65220	91870	124200	199400	230300	97330	50280	29590

CAL YR 1983 TOTAL 453709 MEAN 1243 MAX 5020 MIN 23 ACFT 899900
WTR YR 1984 TOTAL 500999 MEAN 1369 MAX 4780 MIN 23 ACFT 993700

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.
WATER TEMPERATURES: March 1951 to September 1980, once daily, October 1980 to September 1981, continuous.
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 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
DEC 06...	1330	238	1980	8.1	4.0	2.5	17	11.1	640	K17
JAN 31...	1230	1130	1600	8.2	-3.5	1.0	26	10.1	640	K4
MAR 30...	1200	1150	1490	8.2	8.0	5.0	32	10.0	630	K8
MAY 31...	1230	4550	1060	8.2	26.5	19.0	14	8.1	670	110
JUL 20...	1030	960	1000	8.1	25.0	23.0	70	6.7	640	--

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)
DEC 06...	420	570	11	89	85	230	46	4.3	6.2	300
JAN 31...	160	450	9.0	74	64	160	43	3.4	5.5	280
MAR 30...	110	460	9.2	76	66	150	41	3.1	5.3	320
MAY 31...	660	330	6.6	55	47	99	39	2.4	5.2	240
JUL 20...	--	330	6.7	61	44	84	35	2.0	4.5	250

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
DEC 06...	300	310	0.4	18	1290	1220	1.8	829	--	--
JAN 31...	230	210	0.4	18	1110	929	1.5	3390	--	--
MAR 30...	230	200	0.4	20	963	938	1.3	2990	0.59	0.01
MAY 31...	140	110	0.3	10	623	609	0.85	7650	<0.1	0.04
JUL 20...	120	110	0.3	14	593	587	0.81	1540	0.3	0.05

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

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
DEC 06...	--	--	--	--	--	--	--	--	--	--
JAN 31...	--	--	--	--	--	--	--	--	--	--
MAR 30...	0.01	0.6	0.6	0.6	2.7	0.07	0.21	0.01	0.03	0.09
MAY 31...	0.05	0.7	0.7	0.7	3.1	0.07	--	0.02	0.01	0.03
JUL 20...	0.06	1.0	1.00	1.0	4.4	0.17	--	0.01	<0.01	0.03

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
DEC 06...	1330	40	6	100	<0.50	<1	1	<3.00	1	30	1
MAR 30...	1200	<10	3	83.00	<0.50	<1	<1	<3.00	2	<3.00	3
JUL 20...	1030	20	5	100	<1.00	<1	1	<3.00	2	370	<1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
DEC 06...	80	16	0.1	<10	<1	1	1	1100	<6.0	4.00
MAR 30...	60	2	<0.1	<10	3	<1	<1	1000	<6.0	9.00
JUL 20...	50	31	<0.1	<10	2	<1	<1	640	6.0	30

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDIMENT, SUSPENDED (MG/L)
MAR 30...	1200	1150	5.0	77	193	599
MAY 31...	1230	4550	19.0	97	381	4680
JUL 20...	1030	960	23.0	91	227	588
SEP 11...	1300	757	19.5	83	148	302

10224100 OAK CREEK ABOVE LITTLE CREEK, NEAR OAK CITY, UT

LOCATION.--Lat 39°21'23", long 112°13'55", in NE1/4NE1/4NW1/4 sec.7, T.17 S., R.3 W., Millard County, Hydrologic Unit 16030005, Fish Lake National Forest, on right bank 0.3 mi upstream from a 12-inch pipeline diversion at Walker's Fork and 5.7 mi east of Oak City.

DRAINAGE AREA.--5.58 mi^2.

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

GAGE.--Water-stage recorder. Altitude of gage is 6,480 ft from topographic map.

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

AVERAGE DISCHARGE.--20 years, 3.37 ft^3/s, 2,440 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 120 ft^3/s Apr. 29, 1973, gage height, 2.21 ft; minimum, 0.03 ft^3/s Dec. 31, 1967, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 10 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 18	1700	39	1.36
May 12	2400	*68	1.53

Minimum, 0.45 ft^3/s Sept. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	1.6	1.9	3.5	1.7	.73	4.1	19	24	2.1	1.9	1.1
2	1.9	1.6	1.9	3.2	1.7	.73	4.1	26	22	2.0	1.7	1.1
3	1.8	1.6	2.1	3.4	1.7	.73	4.1	33	20	1.9	1.7	1.0
4	1.7	1.5	2.1	3.4	1.7	.76	4.1	36	19	1.9	1.7	.97
5	1.7	1.5	2.1	3.3	1.7	.62	4.1	37	18	1.8	1.7	.93
6	1.7	1.5	2.1	3.4	1.7	.73	4.6	37	17	1.8	1.7	.88
7	1.7	1.5	2.0	3.4	1.7	.73	5.4	37	20	1.7	1.5	.88
8	1.7	1.5	2.0	3.4	1.7	.73	5.9	36	15	1.9	1.5	.82
9	1.7	1.4	2.0	3.4	1.7	.75	7.6	40	14	1.8	1.5	.81
10	1.7	1.4	2.0	3.3	1.8	.83	7.6	47	14	1.9	1.4	.81
11	1.7	1.4	2.1	3.4	1.8	.98	8.1	56	13	1.9	1.4	.81
12	1.8	1.4	2.1	3.3	1.4	1.1	8.1	59	11	1.9	1.4	.73
13	2.0	1.5	2.1	2.8	1.8	1.1	8.6	60	9.5	2.0	1.4	.73
14	2.3	1.4	2.1	3.2	1.8	1.9	10	61	8.7	2.0	1.4	.73
15	2.2	1.2	2.3	2.9	1.3	2.4	14	52	7.4	2.0	1.4	.67
16	2.2	1.2	2.1	2.5	1.8	2.9	23	44	6.6	2.2	1.4	.61
17	2.2	1.2	2.2	2.0	1.8	3.4	32	39	5.6	2.2	1.4	.61
18	2.1	1.5	2.0	1.6	1.7	3.4	35	34	4.9	2.0	1.4	.61
19	2.1	1.2	2.1	1.3	.94	3.6	32	32	4.2	2.0	1.7	.55
20	2.0	1.4	2.0	1.1	1.1	4.0	30	31	3.9	2.0	1.5	.55
21	2.0	1.2	1.6	.92	1.4	4.6	24	33	3.5	2.0	1.5	.55
22	2.0	1.1	2.0	.76	1.4	5.2	19	32	3.3	2.0	1.4	.54
23	2.0	1.5	2.0	.94	.82	5.1	21	31	3.0	2.0	1.4	.49
24	2.0	1.4	2.1	1.1	.97	5.0	27	30	2.8	1.9	1.4	.49
25	1.9	1.6	2.7	1.3	.97	5.0	32	28	2.7	1.8	1.2	.49
26	1.9	1.4	4.2	1.7	.97	5.4	29	29	2.6	1.9	1.2	.60
27	1.9	1.5	4.5	1.7	.68	4.9	27	27	2.3	3.3	1.2	1.1
28	1.9	1.6	3.6	1.7	.73	4.7	25	25	2.3	1.8	1.2	1.0
29	1.8	1.6	3.6	1.6	.73	4.4	21	25	2.1	1.7	1.1	1.0
30	1.6	1.7	3.6	1.6	---	4.3	21	26	2.2	1.7	1.1	.96
31	1.7	---	3.7	1.7	---	4.4	---	26	---	1.7	1.1	---
TOTAL	58.9	43.1	74.9	72.82	41.21	85.12	498.4	1128	284.6	60.8	44.5	23.12
MEAN	1.90	1.44	2.42	2.35	1.42	2.75	16.6	36.4	9.49	1.96	1.44	.77
MAX	2.3	1.7	4.5	3.5	1.8	5.4	35	61	24	3.3	1.9	1.1
MIN	1.6	1.1	1.6	.76	.68	.62	4.1	19	2.1	1.7	1.1	.49
ACFT	117	85	149	144	82	169	989	2240	565	121	88	46

CAL YR 1983	TOTAL	3701.4	MEAN	10.1	MAX	67	MIN	1.1	ACFT	7340
WTR YR 1984	TOTAL	2415.47	MEAN	6.60	MAX	61	MIN	.49	ACFT	4790

10224300 OAK CREEK BELOW BIG SPRING, NEAR OAK CITY, UT

LOCATION.--Lat 39°21'11", long 112°17'07", in NE1/4NE1/4SW1/4, sec.10, T.17 S., R.4 W., Millard County, Hydrologic Unit 16030005, on right bank 0.5 mi upstream from Fish Lake National Forest, 3.2 mi east of Oak City along road to Forest Camp.

DRAINAGE AREA.--17.8 mi^2.

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,640 ft from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 190 ft^3/s May 23, 1983; minimum daily, 1.7 ft^3/s Oct. 1-3, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 117 ft^3/s May 14, 15; peaks above base of 20 ft^3/s not determined; minimum daily, 5.0 ft^3/s Nov. 16, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	7.8	6.5	10	9.1	10	23	85	73	30	14	8.6
2	11	7.4	6.7	10	9.1	11	23	87	60	30	14	8.6
3	11	7.0	6.9	9.5	9.1	11	23	94	55	30	13	8.6
4	11	7.0	7.4	10	9.1	11	23	85	52	29	13	8.6
5	11	7.0	7.4	10	9.1	11	24	80	47	28	13	8.6
6	10	7.0	7.1	9.8	9.1	11	25	84	46	27	13	8.3
7	10	7.0	7.3	10	9.1	12	26	85	52	26	12	8.2
8	10	7.0	7.7	10	9.3	12	28	87	47	25	12	8.2
9	10	7.0	7.8	10	10	12	30	91	46	24	11	8.2
10	10	7.0	8.2	9.8	10	12	32	96	44	24	11	8.2
11	10	7.0	8.2	10	10	15	30	102	43	23	11	8.3
12	10	7.0	8.6	10	10	15	31	107	40	23	10	8.2
13	10	6.7	8.2	9.8	10	15	31	107	40	21	10	8.1
14	9.9	6.7	8.6	10	10	17	34	117	39	21	10	7.8
15	9.5	6.0	9.1	10	10	18	39	117	39	20	10	7.8
16	9.5	5.0	8.6	9.1	10	20	57	102	39	19	10	7.8
17	9.3	5.0	8.6	9.1	10	20	90	100	38	18	10	7.8
18	8.6	5.6	8.6	9.1	10	20	94	92	38	18	10	7.8
19	8.4	5.6	8.6	9.1	10	22	101	94	40	17	10	7.8
20	8.4	5.6	8.6	9.5	10	22	84	94	38	17	10	7.7
21	8.6	5.6	8.2	10	9.9	23	71	98	38	17	10	7.8
22	8.2	5.6	7.8	10	10	23	67	89	37	16	10	7.4
23	8.2	5.3	7.8	10	10	24	73	91	35	15	9.6	7.4
24	8.2	5.3	7.8	10	10	24	74	91	35	14	9.5	7.4
25	7.8	6.3	8.2	10	11	24	79	91	34	14	9.5	7.2
26	7.8	6.3	10	10	11	24	79	87	33	15	9.5	7.4
27	7.8	6.3	11	9.5	10	23	80	84	31	15	9.4	7.4
28	7.8	6.3	10	9.5	11	23	74	74	30	15	9.1	7.5
29	7.8	6.3	9.5	9.5	10	23	82	73	31	15	9.1	7.4
30	7.8	6.3	9.8	9.1	---	22	82	71	31	15	9.1	7.4
31	7.8	---	10	9.1	---	22	---	71	---	14	9.0	---
TOTAL	287.4	191.0	258.8	301.5	285.9	552	1609	2826	1251	635	330.8	237.5
MEAN	9.27	6.37	8.35	9.73	9.86	17.8	53.6	91.2	41.7	20.5	10.7	7.92
MAX	12	7.8	11	10	11	24	101	117	73	30	14	8.6
MIN	7.8	5.0	6.5	9.1	9.1	10	23	71	30	14	9.0	7.2
ACFT	570	379	513	598	567	1090	3190	5610	2480	1260	656	471

CAL YR 1983	TOTAL	11781.0	MEAN	32.3	MAX	190	MIN	5.0	ACFT	23370
WTR YR 1984	TOTAL	8765.9	MEAN	24.0	MAX	117	MIN	5.0	ACFT	17390

10234500 BEAVER RIVER NEAR BEAVER, UT

LOCATION.--Lat 38°16'50", long 112°34'25", in SW1/4SW1/4SE1/4 sec.18, T.29 S., R.6 W., Beaver County, Hydrologic Unit 16030007, on left bank 4.2 mi east of Beaver.

DRAINAGE AREA.--91.0 mi^2.

PERIOD OF RECORD.--June to September 1906, March 1914 to current year.

REVISED RECORDS.--WDR UT-80-1: 1979.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft from topographic map. Prior to Mar. 30, 1914, nonrecording gage, and Mar. 30, 1914 to Oct. 15, 1937, water-stage recorder, at site 800 ft upstream at different datum. Oct. 16, 1937 to Mar. 20, 1959, at site 1,800 ft upstream at different datum. Mar. 21, 1959 to Mar. 21, 1978 at site 3,800 ft upstream at different datum. Mar. 21, 1978 to May 28, 1983, at site 1,800 ft upstream at different datum.

REMARKS.--Records fair. No diversion for irrigation above station. Water diverted for hydroelectric power, but returned to stream above station. Some regulation by powerplants and several small reservoirs.

AVERAGE DISCHARGE.--70 years, 52.8 ft^3/s, 38,250 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,080 ft^3/s July 22, 1936, gage height, 7.27 ft, site and datum then in use, from rating curve extended above 500 ft^3/s; minimum, 1.8 ft^3/s Dec. 6, 1976, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 150 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 15	2030	534	2.32
May 24	1830	*1,060	3.83
Aug. 15	2300	327	2.00

Minimum daily, 17 ft^3/s Jan. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	34	67	24	24	33	31	78	521	148	95	60
2	48	35	67	22	26	31	24	83	454	142	94	57
3	42	35	72	22	28	29	28	94	405	137	97	55
4	36	36	60	27	27	27	33	110	378	133	110	52
5	33	36	40	30	28	27	38	133	404	130	90	49
6	32	36	40	30	27	26	38	153	352	127	78	46
7	28	39	42	28	26	26	36	161	365	123	77	43
8	31	39	43	27	27	25	38	175	332	120	76	42
9	28	39	48	26	27	25	42	194	299	117	74	40
10	27	40	52	26	29	25	41	234	281	113	74	40
11	27	42	50	29	30	28	48	321	266	110	72	40
12	27	44	45	27	28	26	59	398	256	106	70	40
13	28	48	38	25	27	26	66	380	243	108	67	40
14	30	46	40	24	28	27	75	430	246	118	77	44
15	31	46	38	23	28	30	93	477	248	118	114	44
16	31	46	30	22	30	29	114	448	234	111	110	44
17	31	56	32	21	27	28	121	431	224	109	80	44
18	32	50	30	17	28	27	118	419	219	105	75	45
19	33	58	32	19	27	28	116	440	212	105	85	43
20	33	54	28	18	29	28	99	487	211	108	88	42
21	35	50	21	20	31	29	90	681	209	117	74	52
22	37	50	23	26	28	28	82	671	200	119	63	42
23	38	56	20	28	30	28	79	702	195	111	59	39
24	38	62	25	27	28	30	90	884	183	106	73	36
25	36	58	27	30	26	31	100	824	176	116	77	36
26	35	50	30	31	27	35	94	678	178	112	74	38
27	36	48	29	29	27	33	90	624	171	105	67	38
28	35	58	26	29	29	31	89	551	163	102	65	38
29	34	58	22	28	31	31	91	503	158	101	61	37
30	33	60	25	27	---	28	90	462	156	103	63	38
31	34	---	28	26	---	26	---	445	---	106	63	---
TOTAL	1040	1409	1170	788	808	881	2153	12671	7939	3586	2442	1304
MEAN	33.5	47.0	37.7	25.4	27.9	28.4	71.8	409	265	116	78.8	43.5
MAX	48	62	72	31	31	35	121	884	521	148	114	60
MIN	27	34	20	17	24	25	24	78	156	101	59	36
ACFT	2060	2790	2320	1560	1600	1750	4270	25130	15750	7110	4840	2590

CAL YR 1983	TOTAL	44547	MEAN	122	MAX	880	MIN	15	ACFT	88360
WTR YR 1984	TOTAL	36191	MEAN	98.9	MAX	884	MIN	17	ACFT	71780

10237000 BEAVER RIVER AT ADAMSVILLE, UT

LOCATION.--Lat 38°15'13", long 112°45'56", in NE1/4SW1/4SW1/4 sec.28, T.29 S., R.8 W., Beaver County, Hydrologic Unit 16030007, on right bank 80 ft upstream from bridge on State Highway 21, 1.6 mi upstream from Indian Creek, and 1.6 mi east of Adamsville.

DRAINAGE AREA.--303 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1913 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,550 ft from topographic map. Prior to Sept. 15, 1936, water-stage recorder and Sept. 15, 1936, to Oct. 15, 1937, nonrecording gage, at site 1.1 mi downstream at different datum. Oct. 16, 1937, to May 28, 1946, water-stage recorder at site 1.2 mi downstream at different datum. May 29, 1946, to Mar. 19, 1970 at site 1.75 mi downstream at different datum. Mar. 20, 1970, to July 25, 1979 at site 450 ft downstream at different datum.

REMARKS.--Records fair except for periods of no gage height record, Dec. 22 to Jan. 25, which are poor. One small diversion between station and Minersville Reservoir. Several ditches above station divert practically entire flow during irrigation season to supply Adamsville and Beaver districts.

AVERAGE DISCHARGE.--70 years (1914-84), 39.2 ft^3/s, 28,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,700 ft^3/s June 19, 20, 1983; no flow during summer and fall months in many years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,380 ft^3/s May 24; minimum, 8.6 ft^3/s July 12-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	53	80	52	46	85	81	88	721	40	46	26
2	118	56	85	47	55	93	91	105	604	35	39	22
3	88	54	91	45	58	80	84	117	503	30	37	22
4	81	54	100	55	54	62	76	151	467	25	46	20
5	77	55	77	61	58	62	72	191	503	22	55	17
6	78	55	57	58	52	59	69	220	443	20	50	16
7	77	55	52	54	50	55	70	228	472	17	45	15
8	80	61	55	52	54	55	71	227	458	14	42	16
9	74	60	64	50	54	52	76	316	418	12	33	16
10	74	59	85	49	56	52	74	457	385	10	34	15
11	69	60	83	52	66	65	80	512	386	9.5	41	17
12	71	62	69	50	58	57	98	681	332	9.1	38	19
13	72	66	56	47	53	55	117	738	291	9.4	40	15
14	68	66	64	45	58	58	139	737	171	10	151	17
15	64	62	58	44	58	69	167	1090	110	11	147	17
16	60	63	42	43	69	68	212	999	100	14	139	16
17	61	62	50	42	59	65	244	772	86	13	84	14
18	61	84	47	37	63	62	258	628	81	11	74	13
19	61	69	50	39	59	63	287	649	100	12	102	13
20	62	81	45	38	65	62	253	677	84	15	92	15
21	61	76	34	42	71	63	214	822	87	33	96	20
22	57	69	38	46	55	63	186	808	88	31	91	31
23	53	68	34	54	70	59	169	1120	74	35	85	25
24	57	83	38	52	66	62	196	1380	67	34	81	25
25	55	88	45	55	59	58	236	1200	61	31	78	28
26	53	72	51	53	59	70	216	990	62	33	77	30
27	54	69	58	62	61	73	171	880	65	45	70	30
28	55	73	50	56	64	64	125	736	65	43	57	31
29	52	79	44	54	73	70	95	646	58	44	48	32
30	50	81	42	53	---	75	88	581	50	34	36	36
31	53	---	48	51	---	74	---	546	---	36	29	---
TOTAL	2074	1995	1792	1538	1723	2010	4315	19292	7392	738.0	2083	629
MEAN	66.9	66.5	57.8	49.6	59.4	64.8	144	622	246	23.8	67.2	21.0
MAX	118	88	100	62	73	93	287	1380	721	45	151	36
MIN	50	53	34	37	46	52	69	88	50	9.1	29	13
ACFT	4110	3960	3550	3050	3420	3990	8560	38270	14660	1460	4130	1250

CAL YR 1983	TOTAL	66345	MEAN	182	MAX	1700	MIN	21	ACFT	131600
WTR YR 1984	TOTAL	45581.0	MEAN	125	MAX	1380	MIN	9.1	ACFT	90410

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.
WATER TEMPERATURES: October 1975 to September 1981.

INSTRUMENTATION.--Specific-conductance recorder and temperature recorder since October 1975.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,130 micromhos Oct. 14, 1976; minimum, 258 micromhos Feb. 4, 1977.
WATER TEMPERATURES: Maximum, 31.5°C June 28, 1977; minimum, 0.0°C on many days during winter periods.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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)
MAR										
20...	1020	61	350	8.0	9.0	6.5	16	10.0	613	65
JUN										
22...	1045	106	285	7.8	19.5	12.0	3.7	9.6	612	1300
SEP										
19...	1155	13	690	8.3	27.5	16.0	35	8.4	615	370

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)
MAR										
20...	150	140	2.8	39	9.8	21	24	0.8	4.4	140
JUN										
22...	760	140	2.7	39	9.1	16	20	0.6	4.2	140
SEP										
19...	460	240	4.9	68	18	94	45	2.7	8.8	280

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
MAR										
20...	26	16	0.5	34	235	238	0.32	38.7	0.45	0.18
JUN										
22...	17	9.6	0.6	26	199	204	0.27	57.0	<0.1	<0.01
SEP										
19...	61	33	1.2	42	458	494	0.62	15.6	<0.1	0.01

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
MAR										
20...	0.23	0.8	0.8	0.8	3.5	0.17	0.52	0.06	0.07	0.21
JUN										
22...	0.01	0.7	0.7	0.7	3.1	0.13	--	0.04	0.03	0.09
SEP										
19...	0.01	0.5	0.5	0.5	2.2	0.10	--	0.10	0.09	0.28

10237000 BEAVER RIVER AT ADAMSVILLE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
MAR											
20...	1020	20	2	32.00	<0.50	<1	<1	<3.00	1	20	<1
JUN											
22...	1045	20	2	32.00	<1.00	<1	<1	<3.00	2	20	1
SEP											
19...	1155	<10	6	54.00	<1.00	<1	<1	<3.00	3	20	2

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
MAR										
20...	10	99	<0.1	<10	<1	<1	<1	280	<6.0	10
JUN										
22...	10	82	<0.1	<10	<1	<1	<1	280	<6.0	6.00
SEP										
19...	20	63	<0.1	<10	1	<1	<1	520	<6.0	10

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
DEC						
06...	1050	66	2.0	--	35	6.2
MAR						
20...	1020	61	6.5	51	97	16
JUN						
22...	1045	106	12.0	--	124	35
SEP						
19...	1155	13	16.0	--	40	1.4

10238500 MINERSVILLE RESERVOIR NEAR MINERSVILLE, UT

LOCATION.--Lat 38°13'03", long 112°50'05", in SE1/4NE1/4NW1/4 sec.11, T.30 S., R.9 W., Beaver County, Hydrologic Unit 16030007, at right end of Rocky Ford Dam on Beaver River, 5.0 mi east of Minersville.

DRAINAGE AREA.--534 mi^2.

PERIOD OF RECORD.--April to August 1915, November 1915 to September 1917, December 1917 to March 1921, June to September 1922, October 1937 to current year. Month-end contents only for some periods, published in WSP 1314. Published as Rockyford Reservoir near Minersville prior to October 1, 1967.

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

GAGE.--Staff gage. Datum of gage is at 5,452.0 ft NGVD of 1929 (levels by topographic survey).

REMARKS.--Reservoir is formed by earthfill dam completed in 1914. Capacity, 23,260 acre-ft between gage height, 8.0 ft (bottom of outlet tunnel) and 51.0 ft (spillway crest). Prior to fall of 1937, the spillway crest was at elevation 52.5 ft; capacity, 24,910 acre-ft. Dead storage negligible. Figures given herein represent total contents. Water is used for irrigation in vicinity of Minersville and Milford.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 26,330 acre-ft June 24-29, 1969, gage height, 53.8 ft. No contents at times in 1915, 1918-19, 1939, 1956, and 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 24,620 acre-ft Mar. 19, 31, gage height, 53.7 ft; minimum observed, 14,220 acre-ft, gage height, 43.0 ft Sept. 20.

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

43	14,220	50	20,560
45	15,830	53	23,850
47	17,720	54	24,950

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANTANEOUS OBSERVATIONS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	21660	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	18860	---
3	---	---	---	---	---	---	---	---	24290	---	---	---
4	---	---	---	---	---	---	---	20670	---	21660	---	---
5	---	---	---	23190	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	19420	15750
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	23300	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	24070	---	---	19520	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	22200	---	---	---	14860
15	---	---	---	---	---	---	---	---	---	18570	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	22750	---	---	---	---
18	---	---	---	---	---	---	---	---	---	17720	---	---
19	---	---	---	---	---	24620	---	---	24510	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	14220
21	---	---	---	---	---	---	---	22970	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	21660	---	---	23740	---	---	---	---
24	---	---	---	---	---	---	23410	---	---	---	---	---
25	20080	---	---	20780	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	18480	---
28	---	21660	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	a21660	24070	---	---	---	---	---	---
30	---	a21780	---	---	---	---	a21770	23850	a22420	---	17820	a14940
31	a20360	---	23630	a21720	---	24620	---	a23960	---	17720	a17520	---
(*)	+2370	+1420	+1850	-1910	-60	+2960	-2850	+2190	-1540	-4700	-200	-2580

CAL YR 1983 . . . . . (*) +3950
WTR YR 1984 . . . . . (*) -3050

(*) CHANGE IN CONTENTS, IN ACRE-FEET.
(a) NO GAGE HEIGHT READING, CONTENTS INTERPOLATED.

10239000 BEAVER RIVER AT ROCKY FORD DAM, NEAR MINERSVILLE, UT

LOCATION.--Lat 38°13'03", long 112°50'22", in SE1/4NW1/4NW1/4 sec.11, T.30 S., R.9 W., Beaver County, Hydrologic Unit 16030007, on right bank and 0.5 mi downstream from Rocky Ford Dam and 4.8 mi east of Minersville.

DRAINAGE AREA.--535 mi^2.

PERIOD OF RECORD.--December 1913 to September 1936, April 1937 to current year.

REVISED RECORDS.--WSP 1564: 1920, 1924. WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Concrete control since Nov. 12, 1916. Altitude of gage is 5,400 ft by barometer. Prior to June 1, 1916, at site 1,500 ft upstream at different datum.

REMARKS.--Records fair. One small diversion between dam and station. Flow regulated by Minersville Reservoir (formerly published as Rockyford Reservoir). Numerous diversions for irrigation and municipal use above reservoir.

AVERAGE DISCHARGE.--69 years (1914-36, 1937-84), 40.6 ft^3/s, 29,410 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,220 ft^3/s June 12, 1983, gage height, 4.74 ft, from rating curve extended above 500 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 0.4 ft^3/s Mar. 20, 1914.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 882 ft^3/s May 25, gage height, 3.97 ft; minimum daily, 9.2 ft^3/s Sept. 28, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	55	10	117	71	63	39	304	453	206	20	181
2	61	55	10	117	54	63	58	268	485	206	20	181
3	61	55	10	123	39	62	91	223	490	205	20	179
4	61	54	10	127	39	62	118	205	448	197	20	179
5	61	55	10	127	39	62	128	205	396	176	48	178
6	61	55	10	127	25	62	127	206	377	175	77	172
7	61	55	10	127	10	63	126	206	381	191	94	167
8	31	55	10	127	10	64	125	206	397	199	116	154
9	10	55	10	127	10	64	124	208	394	199	143	145
10	10	55	10	127	10	64	124	218	380	198	149	145
11	10	55	10	127	9.6	64	94	254	336	198	154	117
12	10	55	27	127	9.5	64	62	336	160	198	159	98
13	10	55	11	127	9.5	64	79	395	160	200	159	98
14	10	55	11	127	9.6	65	144	459	160	199	164	93
15	10	55	11	127	9.5	64	147	543	160	198	166	87
16	10	55	56	127	9.6	64	174	584	160	193	165	78
17	10	47	94	126	9.5	54	196	589	159	176	138	72
18	10	29	94	125	9.5	28	163	586	158	162	120	72
19	32	90	94	125	9.5	28	280	518	121	142	119	72
20	74	78	94	125	23	28	314	494	166	141	125	44
21	74	45	94	125	43	28	316	495	171	107	129	30
22	74	44	94	124	52	28	316	503	195	80	129	52
23	74	44	94	124	61	28	316	580	212	61	129	52
24	74	44	94	124	62	28	317	738	211	64	136	53
25	33	45	94	116	62	28	320	843	190	62	144	30
26	10	44	94	108	62	28	322	856	187	60	144	9.5
27	9.9	44	99	108	62	28	318	828	185	42	145	9.3
28	9.9	44	111	108	62	28	315	743	198	20	151	9.2
29	85	44	117	108	62	27	311	620	203	20	155	9.3
30	115	35	117	108	---	27	317	503	208	20	154	9.2
31	55	---	117	98	---	33	---	464	---	20	170	---
TOTAL	1277.8	1556	1727	3760	943.8	1463	5881	14180	7901	4315	3762	2775.5
MEAN	41.2	51.9	55.7	121	32.5	47.2	196	457	263	139	121	92.5
MAX	115	90	117	127	71	65	322	856	490	206	170	181
MIN	9.9	29	10	98	9.5	27	39	205	121	20	20	9.2
ACFT	2530	3090	3430	7460	1870	2900	11660	28130	15670	8560	7460	5510

CAL YR 1983	TOTAL	63147.2	MEAN	173	MAX	1210	MIN	5.5	ACFT	125300
WTR YR 1984	TOTAL	49542.1	MEAN	135	MAX	856	MIN	9.2	ACFT	98270

10241470 CENTER CREEK ABOVE PAROWAN CREEK, NEAR PAROWAN, UT

LOCATION.--Lat 37°47'35", long 112°48'55", in SW1/4NE1/4NE1/4 sec.1, T.35 S., R.9 W., Iron County, Hydrologic Unit 16030006, on left bank about 900 ft above mouth of Parowan Creek and 3.5 mi south of Parowan.

DRAINAGE AREA.--11.6 mi^2.

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

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

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

REMARKS.--Records good except for periods of ice effect, which are poor. No diversion or regulation above station.

AVERAGE DISCHARGE.--20 years, 6.56 ft^3/s, 4,750 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 353 ft^3/s Aug. 10, 1965, gage height, 4.96 ft from floodmarks, from rating curve extended above 18 ft^3/s on basis of slope-area measurements at gage height 4.96 ft; minimum recorded, 1.4 ft^3/s July 16, 1972 and Jan. 24, 1979.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 29	0500	53	1.75
July 14	0500	53	1.65
July 25	0800	52	1.63
Aug. 13	1900	150	3.31
Aug. 24	1500	*191	3.69

Minimum daily, 5.0 ft^3/s Jan. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	6.9	7.0	6.2	6.5	6.2	6.8	9.0	15	12	8.7	7.0
2	7.9	7.0	7.0	6.0	6.5	6.2	6.6	11	15	12	8.3	7.0
3	7.4	6.9	7.0	6.2	6.4	6.2	6.9	13	16	12	8.0	6.8
4	7.3	6.9	6.8	6.4	6.4	6.0	7.7	15	18	12	8.0	6.8
5	7.2	6.9	6.7	6.4	6.5	6.2	8.1	15	17	11	8.1	6.8
6	7.2	6.9	5.9	6.5	6.4	5.8	8.0	13	18	11	7.8	6.8
7	7.1	6.9	5.4	6.5	6.4	6.1	8.0	13	19	11	7.8	6.8
8	7.1	7.3	5.6	6.4	6.4	5.9	8.1	15	20	11	7.6	6.8
9	7.1	7.2	6.2	6.4	6.5	5.9	8.2	17	20	11	7.7	7.0
10	7.1	6.9	6.3	6.4	6.7	5.9	9.1	20	20	11	7.6	7.3
11	7.1	6.8	6.6	6.5	6.6	6.0	8.8	21	20	11	7.4	7.1
12	7.0	6.7	6.4	6.3	6.4	5.9	8.9	21	21	11	7.4	7.0
13	7.0	6.6	6.4	6.2	6.5	5.9	9.5	22	21	10	13	7.0
14	6.9	6.6	6.4	6.2	6.5	6.3	10	23	21	14	7.3	7.0
15	6.9	6.5	6.5	6.3	6.4	6.4	12	22	22	11	7.1	7.0
16	6.9	6.6	6.7	6.2	6.4	6.5	13	19	21	10	7.1	7.0
17	6.9	6.6	6.4	6.0	6.8	6.4	14	18	21	10	7.1	7.1
18	6.9	6.7	6.4	5.6	6.6	6.2	14	18	21	10	7.0	7.3
19	6.9	6.8	6.4	5.0	5.8	6.2	12	18	20	10	7.1	7.3
20	6.9	6.9	6.4	5.6	6.0	6.4	11	20	20	13	8.2	7.1
21	6.9	6.9	6.2	6.0	6.2	6.7	9.6	20	19	9.5	7.4	7.0
22	6.9	6.8	6.0	6.0	6.4	6.9	10	19	18	10	7.5	7.0
23	6.9	6.6	6.2	6.0	6.2	6.6	11	19	18	9.3	7.5	7.0
24	6.9	6.8	6.4	6.0	6.2	6.6	12	18	17	11	14	6.8
25	6.9	7.0	6.5	5.9	6.2	6.6	12	16	17	15	7.5	6.8
26	6.9	6.6	6.5	6.1	6.0	6.9	11	16	16	11	7.3	6.8
27	6.9	6.8	6.4	6.3	5.8	7.0	9.7	15	15	10	7.1	6.8
28	6.9	6.8	6.2	6.6	6.3	7.1	9.2	14	15	9.0	7.1	6.8
29	6.9	6.8	6.4	6.8	6.2	6.9	8.9	14	16	9.4	7.1	6.7
30	6.9	6.8	6.4	7.0	---	6.9	8.8	15	14	9.4	7.0	6.7
31	6.9	---	6.3	7.3	---	7.0	---	15	---	9.0	7.0	---
TOTAL	218.5	204.5	198.0	193.3	184.2	197.8	292.9	524.0	551	336.6	244.8	208.4
MEAN	7.05	6.82	6.39	6.24	6.35	6.38	9.76	16.9	18.4	10.9	7.90	6.95
MAX	7.9	7.3	7.0	7.3	6.8	7.1	14	23	22	15	14	7.3
MIN	6.9	6.5	5.4	5.0	5.8	5.8	6.6	9.0	14	9.0	7.0	6.7
ACFT	433	406	393	383	365	392	581	1040	1090	668	486	413

CAL YR 1983	TOTAL	3883.8	MEAN	10.6	MAX	42	MIN	2.7	ACFT	7700
WTR YR 1984	TOTAL	3354.0	MEAN	9.16	MAX	23	MIN	5.0	ACFT	6650

10241600 SUMMIT CREEK NEAR SUMMIT, UT

LOCATION.--Lat 37°47'13", long 112°54'56", in NW1/4NE1/4SW1/4 sec.6, T.35 S., R.9 W., Iron County, Hydrologic Unit 16030006, on left bank about 900 ft upstream from concrete diversion dam, 1.2 mi south of U.S. Highway 91, and 1.3 mi southeast of Summit.

DRAINAGE AREA.--24.0 mi^2.

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

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

GAGE.--Water-stage recorder. Altitude of gage is 6,313 ft (levels by U.S. Geological Survey). Prior to July 15, 1971, at site 600 ft downstream at different datum.

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

AVERAGE DISCHARGE.--20 years, 4.73 ft^3/s, 3,430 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 795 ft^3/s (revised) July 28, 1969, gage height, 5.20 ft from rating curve extended on basis of slope-area measurement of peak flow; minimum, 0.05 ft^3/s Feb. 5-7, 1971.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 15 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 17	2100	20	2.54
May 14	2000	*129	3.42
Aug. 21	2400	22	2.55

Minimum daily, 1.9 ft^3/s Dec. 22.

REVISIONS.--The maximum discharges for the water years 1971 and 1983 have been revised to 600 ft^3/s Aug. 6, 1971, gage height, 4.25 ft, and 372 ft^3/s May 31, 1983, gage height, 3.78 ft, superseding figures published in the reports for 1971 and 1983.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	3.9	4.2	3.5	3.0	2.9	3.6	12	21	6.5	4.0	5.3
2	5.6	4.3	4.2	3.5	2.9	3.0	3.7	12	18	6.2	3.7	5.2
3	4.8	4.1	4.1	3.2	3.0	2.9	3.4	17	17	5.9	3.6	5.1
4	4.4	3.9	4.3	2.9	3.1	2.9	3.8	23	16	5.7	3.1	4.8
5	4.4	3.9	3.9	3.1	3.1	2.5	4.3	36	17	5.6	2.9	4.7
6	4.2	3.9	3.5	3.2	3.2	2.6	3.9	43	15	5.5	2.9	4.6
7	4.8	4.1	3.0	3.4	3.2	3.0	4.0	42	14	5.2	2.8	4.5
8	4.2	4.9	3.9	3.7	3.0	3.0	4.0	48	14	4.8	2.9	4.1
9	4.1	3.3	3.9	3.5	3.3	3.0	4.2	56	13	4.9	2.5	4.0
10	4.0	4.4	3.9	3.4	3.3	3.0	4.2	59	12	5.0	2.5	4.0
11	3.9	4.2	3.9	3.8	3.1	3.1	4.7	64	11	4.9	2.9	4.1
12	4.0	4.2	3.9	3.3	3.0	3.0	4.8	67	9.9	5.5	2.3	4.1
13	4.0	4.2	3.4	3.5	3.3	3.1	5.4	76	9.4	5.7	2.8	3.8
14	4.0	4.1	3.9	3.9	3.3	3.6	6.6	75	9.0	5.1	7.2	3.7
15	4.0	3.4	4.1	3.8	3.1	3.5	9.2	57	9.1	4.9	6.4	3.2
16	4.0	3.7	3.0	3.4	3.3	3.4	13	41	9.1	4.8	4.5	3.4
17	4.0	3.8	4.1	2.8	3.4	3.4	16	34	8.8	4.6	4.0	3.5
18	3.9	4.2	3.8	2.0	3.0	3.0	17	32	8.4	4.4	4.7	3.5
19	3.9	3.8	4.0	2.0	2.6	2.9	16	31	8.4	4.2	5.4	3.4
20	3.9	4.2	3.5	2.2	2.8	3.4	14	30	8.6	4.1	7.7	3.5
21	3.9	3.8	2.5	2.5	3.0	3.9	11	30	8.4	4.2	6.7	3.3
22	3.9	3.8	1.9	3.2	2.8	3.4	11	29	8.2	6.0	12	2.8
23	3.9	3.4	3.5	3.2	2.5	3.2	12	28	8.1	5.9	8.6	2.6
24	3.9	3.6	2.5	3.3	2.9	3.4	14	26	7.7	4.6	9.0	2.8
25	3.9	4.3	3.3	3.2	2.9	3.5	18	27	7.5	5.6	9.8	2.9
26	3.9	2.8	5.1	3.2	2.9	3.8	16	26	7.2	5.5	7.8	2.9
27	3.9	3.5	5.0	3.3	2.9	3.5	13	25	7.0	5.0	7.3	2.7
28	3.9	3.8	2.0	3.0	2.8	2.9	12	25	6.9	4.5	6.8	2.7
29	3.9	4.3	2.3	2.9	2.9	3.3	12	24	7.3	4.2	6.2	2.5
30	3.9	4.1	2.8	2.9	---	3.2	12	23	7.3	5.0	5.9	2.4
31	3.9	---	3.7	3.0	---	3.2	---	22	---	5.0	5.8	---
TOTAL	128.1	117.9	111.1	97.8	87.6	98.5	276.8	1140	324.3	159.0	164.7	110.1
MEAN	4.13	3.93	3.58	3.15	3.02	3.18	9.23	36.8	10.8	5.13	5.31	3.67
MAX	5.6	4.9	5.1	3.9	3.4	3.9	18	76	21	6.5	12	5.3
MIN	3.9	2.8	1.9	2.0	2.5	2.5	3.4	12	6.9	4.1	2.3	2.4
ACFT	254	234	220	194	174	195	549	2260	643	315	327	218

CAL YR 1983	TOTAL	4609.4	MEAN	12.6	MAX	271	MIN	1.3	ACFT	9140
WTR YR 1984	TOTAL	2815.9	MEAN	7.69	MAX	76	MIN	1.9	ACFT	5590

10242000 COAL CREEK NEAR CEDAR CITY, UT

LOCATION.--Lat 37°40'20", long 113°02'02", in SE1/4SE1/4NE1/4 sec.13, T.36 S., R.11 W., Iron County, Hydrologic Unit 16030006, on right bank 600 ft downstream from powerplant, 1.2 mi east of Cedar City, and 3.0 mi from the mouth of Right Hand Creek.

DRAINAGE AREA.--80.9 mi^2.

PERIOD OF RECORD.--May to September 1915 (gage heights and discharge measurements only), October 1915 to July 1916, September 1916 to July 1918, September 1918 to November 1919, May 1935 to September 1937, April 1938 to current year. Records prior to November 1919 exclude flow of power canal; records would be equivalent if flow in canal were added.

REVISED RECORD.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,000 ft from topographic map. Prior to Mar. 30, 1939, nonrecording gages and Mar. 30, 1939 to May 14, 1945, water-stage recorder at several sites about 0.5 mi upstream at various datums. May 15, 1945 to Oct. 10, 1951, May 4 to July 2, 1952, water-stage recorder at site 2 mi upstream at different datum. July 3, 1952 to Nov. 17, 1967, water-stage recorder at site 600 ft upstream at different datum.

REMARKS.--Records good. No diversion above station for irrigation. Diversion above station for municipal supply at Cedar City. Slight regulation at low flow by steam powerplant above station.

AVERAGE DISCHARGE.--48 years (1935-37, 1938-84), 33.7 ft^3/s, 24,420 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,620 ft^3/s July 23, 1969, gage height, 11.67 ft from floodmark, based on slope-area measurement of July 16, 1967 and applied to site and datum now in use; minimum, 0.3 ft^3/s Nov. 5, 14, 17, 26, 1959, Feb. 17, 1960, Feb. 24, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge and peak above base of 550 ft^3/s, 695 ft^3/s May 14, gage height, 5.73 ft; minimum, 4.5 ft^3/s Feb. 20, 23, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	20	25	20	19	24	22	56	82	43	26	13
2	61	24	25	12	18	25	23	68	72	31	20	13
3	57	20	24	16	22	24	24	102	66	24	17	13
4	45	20	22	22	23	18	38	143	62	21	15	12
5	38	19	14	25	24	14	52	180	79	19	15	12
6	33	19	19	28	23	14	46	188	65	19	14	12
7	30	20	27	30	19	16	36	175	61	18	14	12
8	28	31	23	29	17	20	45	218	57	16	13	12
9	26	17	24	22	17	21	43	260	54	15	12	12
10	26	20	23	19	14	21	43	297	51	15	17	14
11	25	19	24	21	12	23	55	347	49	14	22	16
12	24	20	22	14	14	22	52	369	46	61	17	14
13	24	20	21	18	15	21	66	359	44	51	13	13
14	24	18	21	18	11	26	77	399	41	46	45	13
15	23	16	22	16	14	25	94	395	39	28	29	13
16	22	17	19	12	15	26	106	283	38	26	29	13
17	23	17	22	12	13	22	130	245	37	23	24	15
18	23	26	20	8.6	13	19	115	221	35	24	31	14
19	22	18	21	9.9	11	22	98	208	33	38	58	19
20	22	22	20	11	12	33	76	193	31	28	84	18
21	21	19	17	15	17	45	70	176	30	25	66	14
22	21	19	18	12	14	31	74	170	29	43	24	14
23	20	16	21	14	12	26	91	161	28	77	17	13
24	20	24	20	16	15	32	109	151	27	35	27	13
25	19	24	21	17	13	34	105	138	27	92	42	14
26	19	12	25	15	13	35	78	124	26	42	19	13
27	19	17	23	13	12	25	64	112	24	58	16	13
28	19	21	13	17	16	22	59	101	22	38	16	13
29	19	20	15	21	21	24	55	93	22	32	14	13
30	19	26	25	20	---	22	54	87	34	50	14	13
31	19	---	25	24	---	23	---	84	---	49	13	---
TOTAL	844	601	661	547.5	459	755	2000	6103	1311	1101	783	406
MEAN	27.2	20.0	21.3	17.7	15.8	24.4	66.7	197	43.7	35.5	25.3	13.5
MAX	61	31	27	30	24	45	130	399	82	92	84	19
MIN	19	12	13	8.6	11	14	22	56	22	14	12	12
ACFT	1670	1190	1310	1090	910	1500	3970	12110	2600	2180	1550	805

CAL YR 1983	TOTAL	32213	MEAN	88.3	MAX	1080	MIN	10	ACFT	63890
WTR YR 1984	TOTAL	15571.5	MEAN	42.5	MAX	399	MIN	8.6	ACFT	30890

13077700 GEORGE CREEK NEAR YOST, UT

LOCATION.--Lat 41°55'07", long 113°28'51", in SE1/4SW1/4SW1/4 sec.20, T.14 N., R.14 W., Box Elder County, Hydrologic Unit 17040201, on right bank 1,000 ft upstream from section corner and boundary of Sawtooth National Forest, 4.5 mi southeast of Yost, 5 mi south of Utah-Idaho State line, and 16 mi southwest of Strevell, Idaho.

DRAINAGE AREA.--7.84 mi^2.

PERIOD OF RECORD.--July 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,000 ft from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--25 years, 8.16 ft^3/s, 5,910 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 295 ft^3/s May 30, 1983, gage height, 1.78 ft; minimum, 1.0 ft^3/s July 14-19, 1976, Feb. 5, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 170 ft^3/s May 14, gage height, 1.45 ft; minimum daily, 1.4 ft^3/s Apr. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	4.8	3.4	2.3	2.6	2.6	1.6	4.8	74	34	5.9	6.0
2	8.8	5.3	3.4	2.3	2.6	2.3	1.6	5.1	36	28	5.8	6.1
3	6.6	4.7	2.9	2.3	2.6	2.3	1.5	5.2	30	26	5.4	6.0
4	5.0	4.2	3.8	2.3	2.6	2.3	1.4	4.9	28	24	5.4	5.6
5	4.4	4.4	3.4	2.3	2.6	2.3	1.7	4.7	24	22	5.6	5.6
6	4.2	4.2	3.4	2.3	2.6	2.3	2.1	4.2	21	22	5.5	5.6
7	4.1	4.4	3.4	2.3	2.5	2.3	1.8	4.0	20	21	5.6	5.6
8	3.8	3.9	3.1	2.3	2.3	2.3	1.7	5.0	17	19	5.6	5.9
9	4.7	3.5	3.0	2.3	2.3	2.3	1.7	8.9	13	17	5.8	6.1
10	4.4	4.2	3.0	2.3	2.3	2.4	1.9	14	13	15	5.7	6.1
11	4.0	4.2	3.0	2.3	2.3	2.6	1.7	23	13	13	6.3	6.1
12	3.8	4.2	2.9	2.0	2.3	2.6	1.5	47	13	12	6.2	5.6
13	4.4	4.3	2.6	2.0	2.3	2.3	1.6	94	13	11	6.1	5.1
14	4.7	3.9	2.9	2.3	2.1	2.3	2.0	120	15	9.4	5.9	5.1
15	4.2	4.0	2.7	2.3	2.0	2.6	4.5	105	21	9.6	5.6	5.1
16	4.3	4.0	2.6	2.3	2.0	2.6	12	64	27	9.0	6.1	4.6
17	4.3	4.3	2.6	2.3	2.0	2.6	18	47	30	9.3	5.8	4.6
18	4.2	4.1	2.5	2.3	2.0	2.5	17	33	34	10	6.1	4.6
19	4.2	3.0	2.6	2.3	2.0	2.3	13	37	39	10	6.0	4.6
20	4.6	4.4	2.3	2.1	2.0	2.7	10	59	45	10	5.9	4.7
21	4.4	4.1	2.3	1.9	2.0	3.2	7.9	64	45	14	5.6	4.6
22	4.2	3.8	2.3	2.3	2.1	3.1	6.7	42	39	13	5.5	4.6
23	4.9	3.8	2.3	2.3	2.3	3.1	6.4	49	33	10	5.2	4.5
24	5.1	3.8	2.3	2.3	2.1	2.7	6.7	85	31	7.2	5.2	4.2
25	4.5	3.8	2.3	2.3	2.0	2.6	6.5	62	32	6.7	7.5	4.2
26	4.3	3.5	2.3	2.3	2.0	2.6	6.1	52	34	6.3	5.9	4.2
27	4.2	3.4	2.3	2.3	2.1	2.4	6.0	57	32	6.7	5.6	4.2
28	4.2	3.4	2.3	2.3	2.3	2.0	5.4	60	31	6.6	5.6	4.2
29	4.2	3.5	2.4	2.6	2.6	2.0	5.3	72	35	5.9	5.6	4.2
30	4.6	3.6	2.6	2.6	---	2.0	4.8	99	38	6.6	5.6	4.2
31	6.2	---	2.4	2.6	---	1.7	---	98	---	6.0	5.6	---
TOTAL	147.8	120.7	85.3	71.0	65.5	75.9	160.1	1429.8	876	420.3	179.2	151.8
MEAN	4.77	4.02	2.75	2.29	2.26	2.45	5.34	46.1	29.2	13.6	5.78	5.06
MAX	8.8	5.3	3.8	2.6	2.6	3.2	18	120	74	34	7.5	6.1
MIN	3.8	3.0	2.3	1.9	2.0	1.7	1.4	4.0	13	5.9	5.2	4.2
ACFT	293	239	169	141	130	151	318	2840	1740	834	355	301

CAL YR 1983	TOTAL	6065.7	MEAN	16.6	MAX	240	MIN	2.2	ACFT	12030
WTR YR 1984	TOTAL	3783.4	MEAN	10.3	MAX	120	MIN	1.4	ACFT	7500

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		GREEN RIVER BASIN				
Mud Creek	Price River	Lat 39°41'03", long 111°09'16", Carbon County, above Eccles Canyon north of Clear Creek.		1980-82	10-12-83 9-21-84	4.0 5.8
North Fork Eccles Canyon	Eccles Canyon	Lat 39°41'00", long 111°11'33", Carbon County, above South Fork.		1980-82	10-12-83 9-21-84	.58 1.5
South Fork Eccles Canyon	Eccles Canyon	Lat 39°40'54", long 111°11'32", Carbon County, at mouth.		1980-82	10-12-83 9-21-84	.37 .53
Eccles Canyon	Mud Creek	Lat 39°41'00", long 111°11'33", Carbon County, above South Fork.		1980-82	10-12-83	.58
Mud Creek	Price River	Lat 39°38'57", long 111°09'07", Carbon County, above Boardinghouse Canyon on State Highway 96 north of Clear Creek.		1980-82	10-12-83 9-21-84	1.8 3.3
Boardinghouse Creek	Mud Creek	Lat 39°38'57", long 111°09'08", Carbon County, at mouth on State Highway 96 south of Scofield.		1980-82	10-12-83 9-21-84	1.6 2.3
Mud Creek	Price River	Lat 39°35'05", long 111°09'05", Carbon County, below Long Canyon south of Clear Creek.		1980-82	10-12-83 9-21-84	.78 1.5
Winter Quarters Canyon	Mud Creek	Lat 39°43'16", long 111°09'38", Carbon County, at mouth, south of Scofield.		1980-82	10-12-83 9-21-84	1.8 2.6
		TRIBUTARIES BETWEEN WEBER AND JORDAN RIVER BASINS				
10141500 Holmes Creek	Great Salt Lake	Lat 41°03'13", long 111°54'35", Davis County, 1 mi northeast of Kaysville.	2.49	1950-66,83	5-16-84	a40 b130
10142000 Farmington Creek	Great Salt Lake	Lat 41°00'05", long 111°52'21", Davis County, 1 mi northeast of Farmington.	10.0	1949-83	5-19-84 5-22-84 5-31-84	150 172 238
10142500 Ricks Creek	Great Salt Lake	Lat 40°56'24", long 111°52'44", Davis County, 1.6 mi north of Centerville.	2.35	1950-66,83	5-16-84 5-23-84 6- 1-84	32 44 49
10143000 Parish Creek	Great Salt Lake	Lat 40°55'25", long 111°51'50", Davis County, 1 mi northeast of Centerville.	2.08	1949-68,83	5-15-84 5-17-84 5-23-84 5-23-84 6- 1-84	26 26 33 27 37
10143500 Centerville Creek	Great Salt Lake	Lat 40°54'59", long 111°51'44", Davis County, 0.5 mi east of of 600 East Street in Centerville.	3.15	1949-80,83	5-15-84 5-22-84 5-23-84 6- 1-84	65 40 40 42
10144000 Stone Creek	Great Salt Lake	Lat 40°53'49", long 111°50'10", Davis County, 0.9 mi east of Bountiful.	4.48	1950-66,83	5-16-84 5-23-84 5-30-84	97 81 42
10145000 Mill Creek	Great Salt Lake	Lat 40°52'50", long 111°52'19", Davis County, 100 ft southeast of intersection of Orchard Dr. and Mill St. in Bountiful.	10.4	1950-68,83	5-16-84 5-22-84 5-23-84 6- 1-84	166 129 118 163
Mill Creek	Great Salt Lake	Lat 40°53'59", long 111°53'06", Davis County, 200 ft downstream from 200 East, in Bountiful.			5-16-84 5-18-84 5-22-84 5-23-84	189 105 100 103

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		WEBER RIVER BASIN				
10140900 Coldwater Creek	Weber River	Lat 41°17'53", long 111°57'00", Weber County, at culvert under Fruitland Drive, 0.5 mi southeast of North Ogden.	1.98	1983	5-17-84 5-22-84	23 27
		PAVANT VALLEY				
10232500 Chalk Creek	Pavant Valley	Lat 38°57'49", long 112°18'27", Millard County, 1 mi East of Fillmore.	58.7	1944-70	5-21-84	1030
10233500 Corn Creek	Pavant Valley	Lat 38°46'27", long 112°23'56", Millard County, 2.7 mi SE of Kanosh.	87.0	1965-75	5-21-84	672
		PAROWAN VALLEY				
Bowery Creek	Parowan Creek	Lat 37°47'48", long 112°48'37", Iron County, 3.4 mi south of Parowan at road crossing.			7-17-84	17
Parowan Creek	Parowan Creek	Lat 37°47'40", long 112°49'01", Iron County, 3.7 mi south of Parowan at road crossing.			7-17-84	5.5
		GREAT SALT LAKE BASIN				
Settlement Canyon	Tooele Valley	Lat 40°30'07", long 112°17'17", 0.73 mile upstream from Settlement Canyon Dam and 1.4 miles south of Tooele.		1961-74*	5-15-84 5-16-84 5-21-84 8-23-84 9- 3-84 9-17-84	123 101 86.7 16.0 13.6 12.0
Settlement Canyon drainage	Tooele Valley	Lat 40°31'23", long 112°18'49", downstream of culvert at 575 South Coleman Street at Tooele.			5-25-84 6- 8-84 9- 3-84	115 84.2 8.89
Settlement Canyon drainage	Tooele Valley	Lat 40°31'19", long 112°19'32", 100 feet east of Tooele Municipal Airport runway and 0.64 mile west of Tooele.			5-21-84	77.6
Settlement Canyon drainage	Tooele Valley	Lat 40°31'50", long 112°19'31", 100 feet south of Vine Street and 0.58 mile west of Tooele.			5-21-84 9- 3-84	5.04 5.07
Middle Canyon (10172794)	Tooele Valley	Lat 40°32'00", long 112°16'41", 40 feet downstream of old Tooele Valley Railroad fill crossing Middle Canyon and 1.45 miles east of Tooele.			5-14-84 5-15-84 5-21-84 5-26-84 6-11-84 6-16-84 6-26-84 7-25-84 8-21-84 9- 3-84 9-17-84	32.5 51.0 42.2 36.2 47.1 47.1 34.3 15.6 9.56 9.69 6.98
Diversion ditch		Lat 40°33'04", long 112°17'51", 50 feet west of State Highway 36 and 1.15 miles north of First North street at Tooele.			5-21-84 6-11-84 6-26-84	21.2 10.5 13.4
Middle Canyon drainage		Lat 40°33'56", long 112°17'34", downstream of culvert under road to Lincoln, 0.3 mile east of State Highway 36, and 2.2 miles north of Tooele.			5-21-84 6-11-84 6-26-84	2.43 10.4 5.03
Middle Canyon drainage		Lat 40°34'19", long 112°17'01", downstream of culvert under Union Pacific Railroad fill, 0.58 mile east of State Highway 36, and 2.65 miles north of Tooele.			5-21-84 6-11-84 6-26-84	14.9 3.34 5.79

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
Middle Canyon drainage		Lat 40°36'33", long 112°17'16", 0.3 mile east of State Highway 36 along Bryan Road and 0.8 mile east of Erda.			5-21-84	14.4
Middle Canyon drainage		Lat 40°36'14", long 112°17'36", 800 feet north of Erda Way along east side of State Highway 36.			5-21-84	8.71
Middle Canyon drainage		Lat 40°36'07", long 112°17'42", south side of Erda Way, 250 feet west of State Highway 36.			5-21-84	6.12
Middle Canyon drainage		Lat 40°38'29", long 112°18'53", 200 feet south of State Highway 138 between Mills Junction and Grantsville, and 500 feet west of Stansbury Lake.			5-21-84 6-11-84 6-26-84	34.2 11.4 5.59
Pass Canyon	Tooele Valley	Lat 40°34'01", long 112°14'44", Tooele County, at inlet to small storage pond and about 1/2 mile east of Lincoln.			6-11-84	2.50
Rose Spring	Tooele Valley	Lat 40°36'47", long 112°16'29", at culverts under Droubay Road, 0.3 mile north of Byran Road, and 2 miles east of Erda.		1978	9-26-84	3.50
Sixmile Canal	Kennecott Aqueduct	Lat 40°38'50", long 112°19'14", 0.45 mile north of State Highway 138, 1.75 miles west of Mills Junction, and 1.0 mile northwest of Stansbury Park.		1978	7-26-84 9- 3-84	4.16 4.21

a Indirect measurement.
b Indirect measurement of peak flow.
* Partial-record, annual maximum only.

Compilation of data for flow through the two 15-ft culverts

GREAT SALT LAKE BASIN

Date of observation	EAST CULVERT Lat 41°13'17", Long 112° 33'36" 3.2 mi west along the railroad causeway from the east end of the causeway			WEST CULVERT Lat 41°13'24", Long 112°40'00" 8.2 mi west along the railroad causeway from the east end of the causeway		
	Discharge (ft^3/s)	Specific gravity	Temperature (°C)	Discharge (ft^3/s)	Specific gravity	Temperature (°C)
Oct. 17, 1983	(a) 1,340	1.058	15.0	(a) 1,710	1.058	15.5
	(b) 0	-----	----	(b) 0	-----	----
Nov. 14	(a) 1,210	1.062	10.0	(a) 1,690	1.063	10.5
	(b) 0	-----	----	(b) 0	-----	----
Dec. 15	(a) 1,790	1.060	3.0	(a) 2,190	1.061	3.0
	(b) 0	-----	---	(b) 0	-----	---
Jan. 16, 1984	(a) 1,380	1.056	-2.0	(a) 2,110	1.056	-1.5
	(b) 0	-----	---	(b) 0	-----	----
June 15	(a) 1,100	1.043	20.5	(a) 2,470	1.044	19.5
	(b) 0	--	--	(b) 0	--	--
Aug. 15	(a) 787	1.040	25.5	(a) 819	1.040	26.0
	(b) 0	--	--	(b) 0	--	--
Sept. 19	(a) 52.2	1.038	22.0	(a) 69.2	1.039	24.0
	(b) 194	1.155	21.5	(b) 456	1.098	23.0

Compilation of data through the 300 ft breach opening

Lat 41°13'20", long 112°50'30"
1.2 mi east of Lakeside and 1500 ft
east of west shore

Date of observation	Discharge (ft^3/s)	Specific gravity	Temperature (°C)
Aug. 6	(a) 13,500	--	--
Aug. 9	(a) 13,200	--	--
Aug. 14	(a) 12,000	1.040	25.0
Aug. 21	(a) 11,800	1.039	24.5
Aug. 28	(a) 9,440	1.039	25.0
Sept. 4	(a) 8,300	1.040	24.5
Sept. 13	(a) 5,800	1.043	22.0
Sept. 26	(a) 5,490	1.044	16.0

(a) Indicates flow from south to north
(b) Indicates flow from north to south

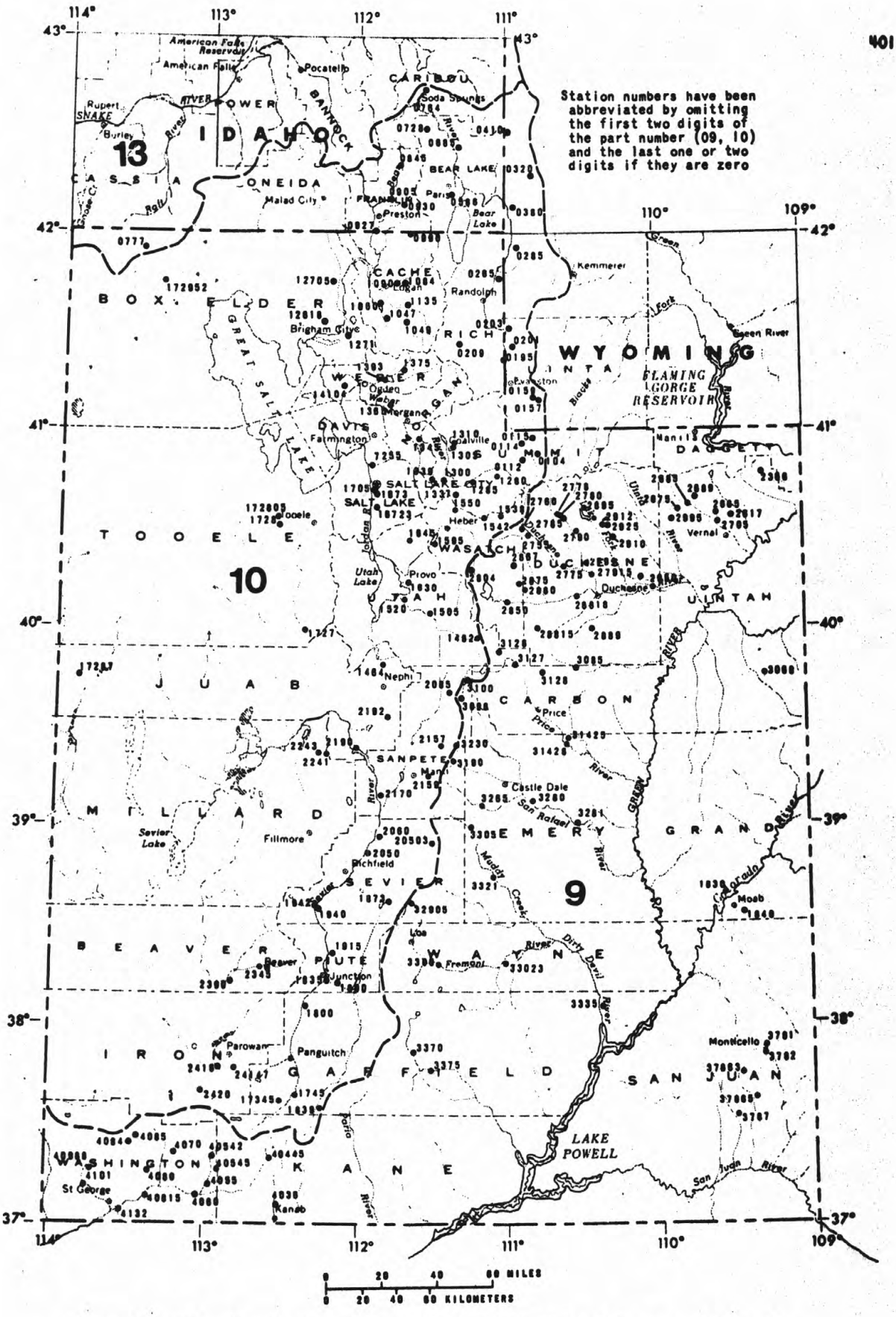

Figure 18.—Map showing location of sites in Utah where data were obtained on the specific conductance of surface water.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
COLORADO RIVER BASIN									
TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER									
09183000 COURTHOUSE WASH NEAR MOAB, UT									
(LAT 38°36'46", LONG 109°34'45")									
OCT , 1983					MAY , 1984				
19...	1215	.20	12.5	830	03...	1200	.50	23.0	930
NOV					JUN				
03...	0910	.20	8.5	830	08...	1015	.66	15.5	780
DEC					JUL				
14...	1055	.87	4.0	810	06...	0830	.10	18.0	860
JAN , 1984					AUG				
19...	1015	.04	.0	800	14...	0905	.08	20.5	850
FEB					SEP				
29...	1230	1.2	10.0	850	07...	0925	.18	14.5	870
APR									
04...	0955	.93	10.5	820					
09184000 MILL CREEK NEAR MOAB, UT									
(LAT 38°33'44", LONG 109°30'48")									
OCT , 1983					MAY , 1984				
19...	1415	6.4	14.0	230	03...	0924	22	9.0	280
NOV					JUN				
03...	1050	5.3	10.5	250	07...	1140	230	10.5	135
DEC					JUL				
14...	1309	14	3.5	200	06...	1020	12	18.5	200
JAN , 1984					AUG				
19...	1205	11	.0	290	14...	1230	14	23.0	190
FEB					SEP				
29...	1000	9.8	1.5	225	05...	1330	16	21.0	200
APR									
04...	1120	12	10.0	270					
GREEN RIVER BASIN									
09235600 POT CREEK ABOVE DIVERSIONS, NEAR VERNAL, UT									
(LAT 40°46'05", LONG 109°19'06")									
NOV , 1983					JUN , 1984				
07...	1345	1.4	9.0	320	23...	1335	17	15.0	155
FEB , 1984					JUL				
10...	1435	1.8	.0	390	12...	1135	2.3	19.0	245
MAY					AUG				
14...	1445	135	6.0	140	21...	0745	1.0	12.0	285
23...	1200	61	12.5	145					
09261700 BIG BRUSH CREEK ABOVE RED FLEET RESERVOIR, NEAR VERNAL, UT									
(LAT 40°35'20", LONG 109°27'53")									
OCT , 1983					MAY , 1984				
28...	0955	28	6.5	410	14...	0935	242	5.5	160
DEC					31...	1400	278	9.0	100
01...	0920	25	4.0	410	JUL				
JAN , 1984					03...	0805	77	10.0	240
14...	1310	22	4.5	430	AUG				
FEB					06...	1010	48	13.0	265
14...	1550	19	6.0	450	SEP				
MAR					20...	1420	27	13.0	370
20...	1245	19	9.5	460					
09266500 ASHLEY CREEK NEAR VERNAL, UT									
(LAT 40°34'39", LONG 109°37'17")									
OCT , 1983					MAY , 1984				
13...	1545	83	8.5	135	17...	1515	917	6.5	--
NOV					JUN				
30...	1050	43	5.0	160	01...	1530	504	9.0	70
JAN , 1984					14...	1425	326	10.0	78
12...	1145	28	6.0	175	JUL				
MAR					19...	0950	111	11.0	120
01...	1055	27	7.0	160	AUG				
APR					23...	1145	117	13.5	105
13...	1116	29	8.0	200					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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									
09267500 MOSBY CANAL NEAR LAPOINT, UT (LAT 40°36'30", LONG 109°53'00")									
OCT , 1983					JUL , 1984				
12...	1310	15	7.5	<50	06...	1145	16	17.5	<50
JUN , 1984					AUG				
06...	0845	26	5.0	<50	22...	0650	24	11.5	52
09268500 NORTH FORK OF DRY FORK NEAR DRY FORK, UT (LAT 40°38'34", LONG 109°48'37")									
OCT , 1983					MAY , 1984				
17...	1220	5.6	3.5	<50	18...	1800	60	3.5	<50
NOV					JUN				
17...	1230	4.0	6.5	<50	05...	1045	27	4.0	<50
FEB , 1984					JUL				
22...	1350	1.9	.5	<50	10...	1450	12	9.5	59
APR					AUG				
04...	1230	.99	3.0	<50	20...	1550	3.8	9.5	<50
09268900 BROWNIE CANYON ABOVE SINKS, NEAR DRY FORK, UT (LAT 40°39'34", LONG 109°45'01")									
OCT , 1983					MAY , 1984				
17...	1500	9.0	3.5	<50	18...	1545	85	3.5	<50
NOV					JUN				
17...	1455	5.8	1.5	<50	05...	0755	55	3.0	<50
FEB , 1984					JUL				
08...	1315	2.4	.0	<50	10...	1200	17	7.0	53
APR					AUG				
04...	1615	2.0	.5	<50	20...	1355	8.8	9.5	<50
09270500 DRY FORK AT MOUTH, NEAR DRY FORK, UT (LAT 40°31'35", LONG 109°36'18")									
OCT , 1983					MAY , 1984				
13...	1250	8.6	12.0	530	24...	0825	632	6.5	81
NOV					JUN				
30...	1320	5.0	.5	750	04...	1555	122	13.0	135
JAN , 1984					14...	1130	100	11.5	160
12...	1515	3.6	.0	850	JUL				
MAR					03...	1140	68	14.5	225
01...	1450	2.1	.0	920	AUG				
APR					06...	1605	17	20.0	450
10...	1455	2.8	7.5	870	SEP				
MAY					13...	1245	1.7	24.0	580
16...	0830	192	6.0	140					
09275500 WEST FORK DUCHESNE RIVER NEAR HANNA, UT (LAT 40°27'01", LONG 110°53'01")									
OCT , 1983					MAY , 1984				
11...	1635	28	9.5	455	10...	0915	68	5.0	410
NOV					21...	1845	457	10.0	340
17...	0915	24	.5	520	JUN				
DEC					14...	1445	243	13.5	335
12...	1140	24	.5	--	JUL				
JAN , 1984					16...	1245	65	16.0	450
26...	1715	17	.5	415	AUG				
MAR					16...	0910	41	13.0	450
07...	1340	20	.5	460					
09276000 WOLF CREEK ABOVE RHOADES CANYON, NEAR HANNA, UT (LAT 40°28'16", LONG 110°55'05")									
NOV , 1983					MAY , 1984				
17...	1140	7.6	5.0	320	21...	1900	60	4.0	230
JAN , 1984					JUN				
26...	1500	6.2	4.0	--	14...	1040	47	7.0	270
MAR					JUL				
07...	1220	5.7	6.0	290	16...	1430	25	10.0	320
MAY					AUG				
10...	1130	6.0	8.5	330	16...	1105	14	9.0	--

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

GREEN RIVER BASIN

09277500 DUCHESNE RIVER NEAR TABIONA, UT
(LAT 40°18'01", LONG 110°36'06")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
NOV , 1983				
17...	1500	174	6.0	500
DEC				
12...	1400	158	3.5	460
JAN , 1984				
26...	1700	132	.0	480
MAR				
27...	1340	114	5.5	480
MAY				
10...	1410	286	13.0	360
MAY , 1984				
22...	1300	1600	8.5	210
JUN				
14...	1845	788	14.0	275
JUL				
17...	1015	283	14.0	460
AUG				
16...	1345	217	17.5	460

09277800 ROCK CREEK ABOVE SOUTH FORK, NEAR HANNA, UT
(LAT 40°33'27", LONG 110°41'50")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
12...	1445	102	5.5	<50
NOV				
15...	1110	62	.5	<50
JAN , 1984				
09...	1445	47	.0	<50
FEB , 1984				
28...	1250	28	.5	<50
MAR				
28...	1345	47	1.0	--

09278000 SOUTH FORK ROCK CREEK NEAR HANNA, UT
(LAT 40°32'54", LONG 110°41'37")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
12...	1655	12	4.5	200
NOV				
15...	1250	9.3	.5	210
JAN , 1984				
09...	1645	5.2	.0	220
FEB				
28...	1520	3.9	.0	250
MAR				
28...	1555	6.9	.5	230
APR				
30...	1320	5.7	2.0	200
MAY , 1984				
22...	1345	73	7.0	120
JUN				
05...	1340	67	5.5	140
26...	1250	40	7.0	145
JUL				
23...	1225	31	9.5	150
AUG				
30...	1130	16	9.0	130

09278500 ROCK CREEK NEAR HANNA, UT
(LAT 40°32'44", LONG 110°39'20")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
14...	0955	129	5.0	<50
NOV				
15...	1440	93	.5	60
JAN , 1984				
10...	1150	42	.0	<50
FEB				
29...	1035	34	1.0	80
MAR				
29...	1030	27	1.0	<50
APR				
30...	1530	53	6.5	63
MAY , 1984				
22...	1640	1070	7.5	<50
JUN				
05...	1530	756	7.0	<50
26...	1450	695	9.5	<50
JUL				
23...	1430	387	14.5	<50
AUG				
30...	1345	137	14.0	50

09279000 ROCK CREEK NEAR MOUNTAIN HOME, UT
(LAT 40°29'36", LONG 110°34'39")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
14...	1130	163	4.0	100
NOV				
16...	0920	90	.5	130
JAN , 1984				
10...	1430	86	.0	<50
FEB				
29...	1250	79	1.0	170
MAR				
29...	1230	51	3.5	200
MAY				
01...	1015	74	4.5	140
MAY , 1984				
22...	1900	1100	9.0	<50
JUN				
05...	1815	823	9.0	<50
26...	1645	750	11.5	<50
JUL				
23...	1645	437	15.0	55
AUG				
30...	1545	150	16.0	50

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)

GREEN RIVER BASIN

09279100 ROCK CREEK NEAR TALMAGE, UT
(LAT 40°18'40", LONG 110°29'36")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
10...	1455	165	12.0	180
NOV				
17...	1000	107	.5	200
DEC				
20...	1150	88	.0	190
JAN , 1984				
26...	1445	79	.0	260
MAR				
09...	1010	72	.0	280
29...	1510	61	5.5	300
MAY , 1984				
17...	1520	619	10.0	110
JUN				
07...	1630	624	10.0	70
JUL				
11...	1630	448	18.5	80
SEP				
11...	1225	128	14.0	170

09279150 DUCHESNE RIVER ABOVE KNIGHT DIVERSION, NEAR DUCHESNE, UT
(LAT 40°16'14", LONG 110°26'31")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
13...	1000	404	7.5	405
NOV				
17...	1250	303	5.5	540
DEC				
12...	1615	276	.5	385
JAN , 1984				
26...	1235	218	1.0	1000
MAR				
09...	1155	199	5.5	410
MAY				
15...	1400	1730	9.0	190
JUN , 1984				
05...	1830	1930	10.5	170
22...	1540	1780	14.0	--
JUL				
11...	2000	786	19.0	230
AUG				
21...	1300	428	16.5	290
SEP				
21...	1420	257	15.0	370

09280400 HOBBLE CREEK AT DANIELS SUMMIT, NEAR WALLSBURG, UT
(LAT 40°17'54", LONG 111°15'52")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
14...	1325	.70	5.0	180
NOV				
16...	0835	.38	.0	165
MAY				
09...	0910	4.9	2.0	135
24...	--	57	2.0	--
JUN				
22...	1610	6.2	15.0	--
JUL , 1984				
12...	1130	1.6	14.5	145
AUG				
23...	1635	.34	16.0	190
SEP				
12...	1640	.62	13.0	200

09285000 STRAWBERRY RIVER NEAR SOLDIER SPRINGS, UT
(LAT 40°08'00", LONG 111°01'27")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
14...	1115	214	11.0	380
NOV				
16...	1050	110	7.0	405
FEB , 1984				
07...	1605	260	2.0	415
MAR				
20...	1630	104	2.0	--
MAY				
08...	1450	23	5.0	490
JUN , 1984				
06...	1310	199	10.5	335
JUL				
12...	1420	238	15.0	335
AUG				
23...	1930	24	12.0	350
SEP				
12...	1450	257	16.0	355

09286700 CURRANT CREEK BELOW CURRANT CREEK DAM NEAR FRUITLAND, UT
(LAT 40°19'51", LONG 111°02'56")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
12...	1210	18	12.0	370
NOV				
16...	1335	17	6.0	380
DEC				
19...	1355	17	2.0	470
JAN , 1984				
27...	1440	16	2.5	340
MAR				
08...	1510	11	4.5	395
MAY				
09...	1150	83	4.0	350
09...	1400	152	3.5	410
MAY , 1984				
22...	1800	248	7.0	--
JUN				
13...	1730	156	9.0	305
JUL				
12...	1700	49	12.5	320
AUG				
24...	1620	19	17.0	400
SEP				
12...	0930	18	14.0	380

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

GREEN RIVER BASIN

09287500 WATER HOLLOW NEAR FRUITLAND, UT
(LAT 40°14'30", LONG 110°58'48")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983					MAY , 1984				
12...	1420	9.1	9.0	380	21...	1920	45	13.0	365
NOV					JUN				
16...	1525	7.5	2.5	470	06...	1535	36	4.0	365
FEB , 1984					JUL				
07...	1700	5.8	--	390	12...	1825	21	16.0	395
MAR					AUG				
08...	1030	10	.5	405	24...	1805	13	15.5	400
20...	1820	6.9	6.0	--	SEP				
MAY					12...	1145	12	13.0	410
09...	1640	10	15.0	450					

09288000 CURRANT CREEK NEAR FRUITLAND, UT
(LAT 40°12'01", LONG 110°54'25")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983					MAY , 1984				
12...	1600	66	10.5	430	08...	1820	152	12.5	450
NOV					21...	1645	654	12.5	330
16...	1815	62	4.0	460	JUN				
DEC					07...	1700	350	13.5	345
19...	1710	66	2.0	420	JUL				
JAN , 1984					12...	1915	103	18.0	405
27...	1710	72	.5	315	AUG				
FEB					20...	1810	83	17.5	380
08...	1505	73	2.0	460	SEP				
MAR					12...	1625	74	16.0	420
08...	1710	54	5.0	470					

09288150 WEST FORK AVINTAQUIN CREEK NEAR FRUITLAND, UT
(LAT 39°59'35", LONG 110°48'51")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983					MAY , 1984				
13...	1600	5.9	11.5	580	23...	1230	241	10.0	470
NOV					JUN				
17...	1515	3.6	5.5	690	13...	1430	52	15.0	530
FEB , 1984					JUL				
07...	1410	4.8	4.5	590	13...	1105	16	11.0	570
MAR					AUG				
20...	1550	9.6	8.5	--	24...	1340	6.6	21.0	670
MAY					SEP				
04...	1615	52	9.5	620	13...	1530	6.0	17.0	580

09288180 STRAWBERRY RIVER NEAR DUCHESNE, UT
(LAT 40°09'17", LONG 110°33'15")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983					MAY , 1984				
13...	1315	354	11.5	560	17...	1810	1630	10.0	510
NOV					JUN				
18...	0945	215	4.0	700	07...	1240	1010	10.0	550
DEC					JUL				
20...	1410	396	1.0	570	13...	1405	478	16.0	540
JAN , 1984					AUG				
27...	1500	357	.0	610	20...	1640	295	18.0	680
MAR					SEP				
09...	1400	224	4.5	660	11...	1740	388	16.5	520
MAY									
04...	1045	345	7.5	700					

09288900 SOWERS CREEK NEAR DUCHESNE, UT
(LAT 39°59'22", LONG 110°27'33")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983					MAY , 1984				
10...	1840	7.3	9.0	1190	23...	1650	7.4	21.0	1350
NOV					JUN				
15...	1515	5.6	4.5	1360	08...	1130	7.4	10.0	1200
FEB , 1984					JUL				
07...	1135	3.4	1.0	1300	13...	1800	5.3	15.0	1180
MAR					AUG				
20...	1335	5.0	6.0	1260	21...	1515	5.0	18.0	1160
MAY					SEP				
08...	0955	4.8	2.0	1180	13...	1140	3.5	24.0	1230

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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									
09289500 LAKE FORK RIVER ABOVE MOON LAKE, NEAR MOUNTAIN HOME, UT (LAT 40°36'24", LONG 110°31'35")									
OCT , 1983					MAY , 1984				
13...	1210	116	5.0	<50	23...	1150	703	5.0	<50
NOV					JUN				
09...	1120	48	2.0	<50	27...	1130	427	7.0	<50
MAR , 1984					JUL				
20...	1115	25	1.5	<50	24...	1105	255	10.0	<50
MAY					AUG				
02...	1220	39	4.0	<50	31...	1020	127	6.5	<50
09291000 LAKE FORK RIVER BELOW MOON LAKE, NEAR MOUNTAIN HOME, UT (LAT 40°33'23", LONG 110°29'02")									
OCT , 1983					JUN , 1984				
13...	1540	91	8.5	<50	07...	1035	422	6.0	<50
NOV					27...	1415	515	11.0	<50
09...	1545	132	6.0	<50	JUL				
MAR , 1984					24...	1500	278	15.0	<50
20...	1215	29	2.0	<50	AUG				
MAY					29...	1220	135	13.5	<50
01...	1350	215	3.5	<50					
23...	1445	348	6.0	<50					
09291200 LAKE FORK RIVER BELOW TASKEECH DAMSITE, NEAR MOUTAIN HOME, UT (LAT 40°30'05", LONG 110°24'17")									
OCT , 1983					MAY , 1984				
13...	1755	82	11.0	90	25...	1705	200	13.0	60
NOV					JUN				
16...	1140	79	3.0	95	06...	1635	296	7.5	<50
DEC					27...	1640	391	13.5	<50
13...	1020	16	.0	280	JUL				
MAR , 1984					25...	1010	228	15.0	55
20...	1500	32	5.0	150	AUG				
MAY					29...	1425	86	17.5	80
04...	1215	200	4.0	60					
09292500 YELLOWSTONE RIVER NEAR ALTONAH, UT (LAT 40°30'43", LONG 110°20'27")									
OCT , 1983					MAY , 1984				
14...	1430	188	5.5	60	24...	1000	962	5.0	<50
NOV					JUN				
16...	1400	108	3.5	80	07...	1255	318	7.0	<50
DEC					28...	1030	392	9.0	<50
13...	1220	98	.5	95	JUL				
FEB , 1984					25...	1210	265	14.0	<50
08...	1400	60	.0	180	AUG				
MAR					29...	1700	218	9.0	50
21...	1135	55	4.5	120					
MAY									
03...	1215	64	6.5	100					
09295000 DUCHESNE RIVER AT MYTON, UT (LAT 40°12'01", LONG 110°03'47")									
OCT , 1983					MAY , 1984				
19...	1345	577	9.0	600	23...	2005	3280	14.0	310
NOV					JUL				
18...	1240	1100	6.5	580	05...	1500	978	20.0	540
DEC					AUG				
19...	1315	938	.5	750	15...	1400	380	24.0	--
MAR , 1984					SEP				
06...	1800	568	1.5	720	14...	1105	418	17.0	760

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

GREEN RIVER BASIN

09299500 WHITEROCKS RIVER NEAR WHITEROCKS, UT
(LAT 40°33'54", LONG 109°55'37")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
25...	1310	86	4.5	65
FEB , 1984				
23...	1355	44	.0	115
MAR				
26...	1345	36	2.0	--
APR				
27...	1105	45	6.5	95
MAY				
30...	1405	553	10.5	<50
JUN , 1984				
23...	0610	236	9.0	<50
JUL				
19...	1440	152	16.0	57
AUG				
28...	0720	258	11.0	<50
SEP				
24...	1405	152	7.5	52

09306800 BITTER CREEK NEAR BONANZA, UT
(LAT 39°45'12", LONG 110°35'00")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
10...	1400	12	9.0	2980
DEC				
09...	1500	8.0	2.5	3100
JAN , 1984				
24...	1405	6.2	1.5	4050
MAR				
01...	1605	7.3	2.5	--
APR , 1984				
11...	1435	19	11.0	3480
MAY				
31...	1555	29	18.0	2730
JUL				
25...	1600	16	24.0	2660
SEP				
06...	1325	11	18.5	--

09308500 MINNIE MAUD CREEK NEAR MYTON, UT
(LAT 39°47'55", LONG 110°33'55")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
13...	1335	5.1	12.0	880
NOV				
07...	1225	4.6	6.0	830
FEB , 1984				
07...	1255	6.0	.0	--
MAR				
20...	1415	4.7	8.0	810
APR				
18...	0925	30	6.0	640
MAY , 1984				
17...	0850	72	4.0	550
JUN				
21...	0915	19	8.5	860
JUL				
18...	1440	6.1	24.0	820
AUG				
23...	1015	5.4	14.0	630
SEP				
11...	0930	3.4	11.0	820

09309600 FAIRVIEW TUNNEL NEAR FAIRVIEW, UT
(LAT 39°40'03", LONG 111°18'41")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
JUN , 1984				
21...	1520	11	14.5	340
JUL				
02...	1600	6.9	16.5	385
20...	0940	16	15.0	320
AUG , 1984				
22...	1045	16	16.5	310
SEP				
21...	1630	12	13.0	225

09310000 GOOSEBERRY CREEK NEAR SCOFIELD, UT
(LAT 39°42'57", LONG 111°17'58")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
14...	--	10	--	--
DEC				
30...	1330	9.0	1.0	405
FEB , 1984				
06...	1520	7.0	1.0	375
APR				
04...	1230	6.5	2.5	380
MAY				
08...	0900	22	2.0	355
14...	2045	202	1.0	255
MAY , 1984				
29...	1115	324	7.0	--
JUN				
21...	1200	120	12.0	345
JUL				
02...	1340	48	17.0	350
19...	1055	17	21.0	245
AUG				
22...	1225	11	18.5	340
SEP				
22...	0945	9.5	--	155

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

GREEN RIVER BASIN

09312600 WHITE RIVER BELOW TABBYUNE CREEK, NEAR SOLDIER SUMMIT, UT
(LAT 39°52'33", LONG 111°02'12")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
10...	1615	10	11.0	640
NOV				
08...	1645	8.2	3.0	660
DEC				
06...	1410	8.6	.0	690
JAN , 1984				
25...	1330	8.6	.0	670
MAR				
27...	1410	16	.0	670
MAY				
01...	1450	120	7.5	680
MAY , 1984				
22...	1515	529	13.0	560
JUN				
01...	1350	184	12.0	590
07...	1540	153	9.5	610
JUL				
03...	1830	43	20.0	620
24...	1355	26	19.5	630
SEP				
10...	1200	9.7	11.5	630

09312700 BEAVER CREEK NEAR SOLDIER SUMMIT, UT
(LAT 39°49'50", LONG 110°58'07")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
10...	1405	2.4	11.0	570
NOV				
11...	1000	2.3	.0	465
DEC				
06...	1520	2.1	.0	480
JAN , 1984				
25...	1050	1.9	.0	475
MAR				
27...	1220	3.0	2.0	480
MAY				
01...	1320	13	6.0	420
MAY , 1984				
22...	1735	103	11.5	350
24...	1610	98	11.5	340
JUN				
01...	1220	48	10.5	400
06...	1110	39	7.0	410
JUL				
03...	1325	11	18.0	440
24...	1215	6.5	19.0	460
SEP				
10...	1315	2.6	14.0	430

09312800 WILLOW CREEK NEAR CASTLE GATE, UT
(LAT 39°46'37", LONG 110°47'30")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
10...	1135	6.4	8.5	1150
NOV				
10...	1055	5.5	.0	1000
DEC				
09...	1150	4.2	.0	1100
JAN ,1984				
26...	1540	3.9	.0	1130
MAR				
30...	1225	11	4.0	1000
MAY , 1984				
03...	1615	57	10.5	770
22...	1920	74	15.0	640
JUN				
05...	1145	30	10.0	820
JUL				
05...	1730	10	25.5	870
24...	1805	7.3	26.0	1040
SEP				
10...	1435	3.8	20.0	1000

09314250 PRICE RIVER BELOW MILLER CREEK, NEAR WELLINGTON, UT
(LAT 39°26'59", LONG 110°37'38")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
14...	1140	265	12.0	1190
NOV				
08...	0840	69	7.0	2700
DEC				
15...	1250	80	.0	2510
JAN , 1984				
31...	1010	50	.0	--
MAR				
28...	1300	439	6.5	890
APR				
17...	1410	595	10.0	740
MAY , 1984				
17...	1100	1840	11.0	760
JUN				
21...	1115	669	15.0	750
JUL				
17...	1330	127	23.0	1770
AUG				
22...	1330	195	21.0	1890
SEP				
10...	1405	87	20.0	1960

09314280 DESERT SEEP WASH NEAR WELLINGTON, UT
(LAT 39°25'16", LONG 110°38'44")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
14...	0855	68	12.0	3690
NOV				
07...	1605	39	8.5	3600
DEC				
15...	1520	26	.0	--
MAR , 1984				
28...	1505	10	11.5	6100
APR				
18...	1420	82	15.0	2130
MAY , 1984				
16...	1455	49	18.5	3490
JUN				
20...	1800	98	21.0	2580
JUL				
17...	1415	47	24.5	3380
AUG				
22...	1500	90	21.0	2020
SEP				
10...	1500	48	19.5	2540

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
GREEN RIVER BASIN									
09319000 EPHRAIM TUNNEL NEAR EPHRAIM, UT (LAT 39°19'47", LONG 111°25'51")									
OCT , 1983					AUG , 1984				
13...	1450	.36	8.0	405	13...	1425	2.6	18.5	315
JUL , 1984									
03...	0950	.82	7.0	255					
09323000 SPRING CITY TUNNEL NEAR SPRING CITY, UT (LAT 39°25'34", LONG 111°21'51")									
OCT , 1983					AUG , 1984				
13...	1720	1.9	2.0	310	21...	1255	3.7	9.5	--
MAY , 1984					SEP				
14...	1315	13	1.0	260	22...	1540	1.8	8.5	335
29...	1235	18	2.0	285					
JUN									
22...	1140	13	3.5	270					
09326500 FERRON CREEK (UPPER STATION) NEAR FERRON, UT (LAT 39°06'15", LONG 111°12'47")									
OCT , 1983					MAY , 1984				
13...	1230	29	8.0	490	17...	1205	376	5.0	420
NOV					JUN				
08...	1150	27	3.5	540	22...	1000	E613	8.5	360
DEC					JUL				
16...	1000	15	.0	570	18...	1240	152	14.0	425
JAN , 1984					AUG				
31...	1405	13	.0	530	23...	1320	64	16.5	510
MAR					SEP				
30...	0930	19	.0	530	11...	1310	34	14.5	510
APR									
18...	1205	74	5.5	580					
09328000 SAN RAFAEL RIVER NEAR CASTLE DALE, UT (LAT 39°08'37", LONG 110°53'50")									
OCT , 1983					JUN , 1984				
12...	1410	158	11.5	2130	20...	1530	1830	17.0	600
NOV					JUL				
07...	1350	97	8.0	2760	17...	1525	317	22.5	1440
MAR , 1984					AUG				
28	1500	114	8.0	2040	22...	1515	306	21.0	1820
APR					SEP				
17...	1500	497	12.0	1020	10...	1450	71	20.5	2830
MAY									
16...	1305	882	9.5	820					
09328100 SAN RAFAEL RIVER AT SAN RAFAEL BRIDGE CAMPGROUND, NEAR CASTLE DALE, UT (LAT 39°04'51", LONG 110°39'56")									
OCT , 1983					MAY , 1984				
12...	1100	153	11.5	2190	16...	1020	790	12.0	910
NOV					JUN				
07...	1050	105	8.0	2740	20...	1105	1910	15.0	660
DEC					JUL				
15...	1100	115	.0	2510	17...	1210	327	22.5	1510
JAN , 1984					AUG				
30...	1330	93	.0	1810	22...	1200	302	21.5	2250
MAR					SEP				
28...	1225	107	7.5	2350	10...	1135	73	20.5	2820
APR									
17...	1115	450	11.5	1050					

E Estimate

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DIRTY DEVIL RIVER BASIN

09329050 SEVEN MILE CREEK NEAR FISH LAKE, UT
(LAT 38°37'40", LONG 111°38'50")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983					MAY , 1984				
13...	1535	15	7.5	115	24...	1020	153	3.5	77
NOV					JUN				
16...	1230	19	.5	125	11...	1215	86	5.5	98
JAN , 1984					JUL				
30...	1215	17	.5	145	17...	1145	33	10.5	130
MAY					AUG				
14...	1815	83	1.0	105	21...	1335	28	10.5	130

09330000 FREMONT RIVER NEAR BICKNELL, UT
(LAT 38°18'25", LONG 111°31'03")

OCT , 1983					APR , 1984				
13...	1340	117	14.0	465	17...	1205	120	11.0	490
NOV					MAY				
16...	1425	105	4.0	540	22...	1150	181	16.0	500
JAN , 1984					JUN				
04...	1300	106	1.0	455	12...	1345	178	17.0	415
FEB					JUL				
08...	1305	127	1.0	455	18...	1350	123	20.0	400
MAR					SEP				
14...	1250	115	9.0	510	06...	1005	142	16.0	--

09330230 FREMONT RIVER NEAR CAINEVILLE, UT
(LAT 38°16'40", LONG 111°04'00")

OCT , 1983					APR , 1984				
12...	1330	115	13.5	610	17...	1335	92	16.0	540
NOV					MAY				
17...	1250	99	3.0	630	22...	1310	153	18.0	550
JAN , 1984					JUN				
04...	1350	97	.5	540	11...	1430	179	18.5	460
FEB					JUL				
07...	1250	141	5.0	500	17...	1440	90	24.0	550
MAR					AUG				
13...	1300	123	9.5	550	21...	0920	173	16.0	800

09330500 MUDDY CREEK NEAR EMERY, UT
(LAT 38°58'55", LONG 111°14'55")

OCT , 1983					MAY , 1984				
13...	1015	27	5.0	400	18...	0900	235	4.5	400
NOV					JUN				
09...	0920	13	.0	470	22...	1110	260	8.0	350
DEC					JUL				
16...	1210	18	.0	460	19...	0930	141	10.5	365
JAN , 1984					AUG				
31...	1520	12	.0	550	24...	0855	76	11.0	405
MAR					SEP				
30...	1200	16	3.5	440	12...	1015	61	11.0	380
APR									
19...	1000	63	2.5	435					

09332100 MUDDY CREEK BELOW INTERSTATE 70, NEAR EMERY, UT
(LAT 38°58'55", LONG 111°14'55")

OCT , 1983					MAY , 1984				
12...	1150	30	12.5	1850	18...	1055	302	8.5	580
NOV					JUN				
09...	1225	22	4.5	2000	22...	1250	281	15.0	740
DEC					JUL				
08...	1410	31	.0	1890	19...	1200	41	23.5	1200
FEB , 1984					AUG				
01...	1310	30	.5	1960	24...	1105	61	17.0	1180
MAR					SEP				
30...	1110	32	10.0	1850	12...	1220	24	18.0	1520
APR									
19...	1300	100	6.5	860					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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									
09333500 DIRTY DEVIL RIVER ABOVE POISON SPRING WASH, NEAR HANKSVILLE, UT (LAT 38°05'50", LONG 110°24'27")									
OCT , 1983					APR , 1984				
13...	0935	116	12.5	1440	18...	0825	119	11.0	1510
NOV					MAY				
17...	0925	133	4.0	1480	23...	0750	600	19.5	--
JAN , 1984					JUN				
05...	0910	125	1.0	1450	12...	0820	287	17.0	900
FEB					JUL				
08...	0900	138	.5	1150	18...	0820	129	22.0	1890
MAR					AUG				
14...	0930	190	10.0	1350	29...	0955	190	23.0	2060
ESCALANTE RIVER BASIN									
09337000 PINE CREEK NEAR ESCALANTE, UT (LAT 37°51'45", LONG 111°38'07")									
OCT , 1983					APR , 1984				
18...	1350	9.0	8.0	370	12...	1005	5.1	7.0	435
DEC					MAY				
07...	1313	8.7	.5	385	10...	1355	22	9.5	160
JAN , 1984					JUN				
12...	1035	2.8	.5	410	13...	0910	4.7	10.5	400
FEB					JUL				
09...	1210	7.0	.5	390	18...	1605	7.1	23.0	320
MAR					AUG				
12...	1120	5.5	3.0	400	22...	1310	10	15.5	285
09337500 ESCALANTE RIVER NEAR ESCALANTE, UT (LAT 37°46'41", LONG 111°34'26")									
OCT , 1983					APR , 1984				
18...	1150	11	9.0	870	12...	1025	5.8	6.0	1270
DEC					MAY				
07...	1220	26	.5	760	10...	1100	27	10.0	315
JAN , 1984					JUN				
12...	1150	24	1.0	1030	13...	0745	15	12.0	710
FEB					JUL				
09...	1040	19	.5	810	19...	0705	2.9	15.0	1560
MAR					AUG				
12...	1220	8.4	9.0	910	22...	1050	36	17.0	600
SAN JUAN RIVER BASIN									
09378100 NORTH CREEK ABOVE RANGER STATION, NEAR MONTICELLO, UT (LAT 37°52'23", LONG 109°21'57")									
OCT , 1983					MAR , 1984				
19...	1610	1.8	10.0	230	07...	1620	.27	5.5	440
NOV					APR				
17...	1535	1.2	7.0	280	30...	1545	.52	7.5	410
DEC					MAY				
27...	1430	.91	5.0	200	29...	1450	4.8	15.5	200
JAN , 1984					JUN				
31...	1325	.34	2.0	210	26...	1420	.34	12.0	425
09378200 MONTEZUMA CREEK AT GOLF COURSE, AT MONTICELLO, UT (LAT 37°51'38", LONG 109°20'30")									
OCT , 1983					MAY , 1984				
20...	0950	2.1	4.5	360	29...	1350	1.3	17.5	300
NOV					JUN				
18...	0830	.85	4.0	400	26...	1610	.36	20.0	490
DEC					JUL				
27...	1520	1.4	2.0	350	31...	--	.23	--	600
JAN , 1984					AUG				
31...	1400	.96	.0	370	30...	1355	.07	23.5	510
MAR					SEP				
07...	1555	1.7	4.0	430	18...	1535	.10	22.5	500
APR									
30...	1435	1.8	9.0	280					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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									
09378630 RECAPTURE CREEK NEAR BLANDING, UT									
(LAT 37°45'20", LONG 109°28'33")									
OCT , 1983					MAY , 1984				
19...	1030	.07	7.5	200	30...	1300	.82	15.0	160
NOV					01...	1310	2.2		
17...	1100	.07	4.0	200	30...	1300	.82	15.0	160
JAN , 1984					JUL				
30...	1150	.07	.0	180	12...	1315	.07	23.0	260
MAR									
20...	1055	.94	4.5	220					
MAY									
01...	1310	2.2	7.0	150					
09378650 RECAPTURE CREEK BELOW JOHNSON CREEK, NEAR BLANDING, UT									
(LAT 37°40'51", LONG 109°27'43")									
OCT , 1983					MAR , 1984				
19...	1215	.42	10.0	410	07...	1400	.46	9.0	430
NOV					20...	1300	.39	14.5	370
17...	1150	.05	4.0	460	MAY				
DEC					01...	1130	5.0	9.5	240
27...	1050	1.5	3.0	310	20...	1115	14	13.0	200
FEB , 1984					JUN				
01...	1015	.10	.0	210	27...	0930	.77	13.5	300
09378700 COTTONWOOD WASH NEAR BLANDING, UT									
(LAT 37°33'38", LONG 109°34'41")									
OCT , 1983					MAR , 1984				
19...	1415	2.4	15.0	540	07...	1030	6.6	3.5	580
NOV					MAY				
17...	1425	3.2	7.5	410	01...	0910	8.8	10.0	490
DEC					30...	0855	3.8	16.0	410
27...	1250	16	7.0	580	SEP				
FEB , 1984					19...	1430	.12	26.0	360
01...	1155	4.1	.0	550					
KANAB RIVER BASIN									
09403600 KANAB CREEK NEAR KANAB, UT									
(LAT 37°06'02", LONG 112°32'50")									
OCT , 1983					MAY , 1984				
13...	1810	9.8	14.0	720	23...	1010	9.4	23.0	470
DEC					JUN				
15...	1210	17	1.5	650	14...	1800	5.6	22.0	450
28...	1320	18	4.0	1010	JUL				
JAN , 1984					16...	1410	7.9	32.0	520
09...	1405	16	9.0	790	AUG				
FEB					16...	1330	7.5	25.0	520
16...	1130	19	5.0	940	SEP				
MAR					13...	1315	10	24.0	530
19...	1425	16	10.0	950					
APR									
16...	1050	11	10.0	690					
VIRGIN RIVER BASIN									
09404450 EAST FORK VIRGIN RIVER NEAR GLENDALE, UT									
(LAT 37°20'19", LONG 112°36'13")									
OCT , 1983					MAY , 1984				
13...	1615	20	10.5	550	23...	0915	14	10.5	510
DEC					JUN				
05...	1000	20	2.0	600	15...	1055	12	11.0	495
JAN , 1984					JUL				
09...	1205	24	3.0	560	16...	1610	15	23.0	470
FEB					AUG				
16...	0950	21	1.0	560	16...	1510	12	19.5	475
MAR					SEP				
19...	1230	23	7.0	520	13...	1705	11	18.0	495
APR									
16...	0920	24	6.0	550					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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									
09405420 NORTH FORK VIRGIN RIVER BELOW BULLOCK CANYON, NEAR GLENDALE, UT (LAT 37°25'06", LONG 112°47'59")									
OCT , 1983					JUN , 1984				
13...	1230	22	9.0	395	14...	1320	17	15.0	390
FEB , 1984					JUL				
09...	1105	25	3.0	395	16...	1025	16	13.0	400
MAR					AUG				
22...	1050	22	3.0	375	16...	1020	22	18.0	380
APR					SEP				
16...	1425	20	9.0	405	13...	0945	9.6	10.0	430
MAY									
23...	1320	20	15.5	400					
09405450 NORTH FORK VIRGIN RIVER ABOVE ZION NARROWS, NEAR GLENDALE, UT (LAT 37°23'26", LONG 112°49'30")									
OCT , 1983					JUN , 1984				
13...	1345	23	10.5	435	14...	1510	13	16.0	415
FEB , 1984					JUL				
09...	1200	24	3.0	460	16...	1130	11	15.0	405
MAR					AUG				
22...	1220	23	6.0	475	16...	1125	22	18.0	400
APR					SEP				
16...	1550	22	10.0	445	13...	1100	6.5	10.0	460
MAY									
23...	1500	15	20.0	440					
09405500 NORTH FORK VIRGIN RIVER NEAR SPRINGDALE, UT (LAT 37°12'35", LONG 112°58'40")									
OCT , 1983					MAY , 1984				
14...	0800	67	10.5	700	24...	1130	122	16.0	470
DEC					JUN				
08...	1300	70	4.5	660	26...	1300	54	20.0	660
JAN , 1984					JUL				
31...	1330	71	4.5	680	18...	0925	47	18.0	740
MAR					AUG				
15...	1055	80	10.0	670	28...	1045	41	16.5	720
APR					SEP				
18...	1320	216	10.5	460	13...	0930	37	14.0	750
09406000 VIRGIN RIVER AT VIRGIN, UT (LAT 37°11'53", LONG 113°12'22")									
OCT , 1983					MAY , 1984				
19...	1400	142	17.0	820	24...	0950	195	17.5	640
DEC					JUN				
08...	1115	184	3.5	740	26...	1100	102	22.0	740
JAN , 1984					JUL				
31...	1150	167	4.5	640	26...	0810	188	20.5	1070
MAR					AUG				
15...	1115	194	10.0	730	28...	0815	105	18.0	900
APR					SEP				
18...	1050	345	12.0	500	13...	0730	107	16.0	870
09408000 LEEDS CREEK NEAR LEEDS, UT (LAT 37°16'03", LONG 113°22'12")									
OCT , 1983					MAY				
17...	1615	8.3	11.0	275	29...	1035	5.9	14.0	245
DEC					JUN				
19...	1100	6.4	4.0	305	19...	1705	4.0	25.0	235
JAN , 1984					JUL				
30...	1550	6.6	5.0	305	20...	1100	4.3	19.5	255
FEB					AUG				
15...	0945	5.8	1.0	305	14...	1250	3.3	20.0	275
MAR					SEP				
15...	1610	4.5	11.0	310	14...	1310	3.2	17.0	280
APR									
13...	1830	5.3	15.0	305					

VIRGIN RIVER BASIN

09408150 VIRGIN RIVER NEAR HURRICANE, UT
(LAT 37°09'45", LONG 113°23'42")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983					MAY , 1984				
19...	1600	177	19.0	1870	24...	0805	193	19.5	1680
DEC					JUN				
08...	0930	248	5.0	1500	26...	0915	78	22.0	2860
JAN , 1984					JUL				
31...	1005	214	6.5	1810	18...	0650	88	23.0	2510
MAR					AUG				
15...	0930	213	12.0	1780	28...	1320	146	26.5	1950
APR					SEP				
18...	0915	410	14.0	1360	13...	1145	132	22.0	2340

09408400 SANTA CLARA RIVER NEAR PINE VALLEY, UT
(LAT 37°23'00", LONG 113°28'57")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983					MAY , 1984				
12...	1525	9.6	9.0	93	22...	1440	11	13.0	72
JAN , 1984					JUN				
05...	1105	5.4	2.0	110	19...	1000	4.4	13.0	105
FEB					JUL				
15...	1730	3.6	2.0	105	18...	1410	3.3	20.0	95
MAR					AUG				
15...	0940	4.5	3.5	115	23...	1115	3.1	16.0	120
APR									
11...	1030	10	5.0	94					

09408500 SANTA CLARA-PINTO DIVERSION NEAR PINTO, UT
(LAT 37°28'04", LONG 113°28'21")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983					APR , 1984				
12...	1245	1.6	12.0	215	11...	0915	19	2.5	99
NOV					MAY				
23...	1030	1.0	.5	235	03...	1500	8.6	10.0	140
JAN , 1984					22...	1320	7.0	13.0	190
05...	1305	1.8	1.0	215	AUG				
MAR					23...	1005	2.0	16.0	240
15...	0830	1.3	4.0	185					

09409880 SANTA CLARA RIVER AT GUNLOCK, UT
(LAT 37°16'55", LONG 113°46'00")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983					MAY , 1984				
18...	1010	22	11.0	490	24...	1255	8.8	26.0	430
DEC					JUN				
15...	1030	24	10.0	485	19...	1130	5.7	26.0	510
JAN , 1984					JUL				
19...	1200	25	.5	305	17...	1425	5.5	30.0	530
FEB					AUG				
15...	1600	17	11.5	430	23...	1310	18	26.5	475
MAR					SEP				
15...	1115	17	11.0	460	20...	1540	13	18.0	420
APR									
11...	1235	17	16.0	460					

09410100 SANTA CLARA RIVER BELOW WINDSOR DAM, NEAR SANTA CLARA, UT
(LAT 37°11'24", LONG 113°46'03")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983					MAY , 1984				
18...	1140	24	14.0	370	24...	1450	22	20.0	435
DEC					JUN				
15...	1200	43	10.0	405	19...	1330	20	26.0	420
JAN , 1984					JUL				
19...	1425	29	6.0	305	17...	--	20	22.0	410
FEB					AUG				
15...	1405	20	8.0	430	14...	1440	17	30.0	445
MAR					SEP				
15...	1305	14	13.0	450	20...	1340	18	21.5	455
APR									
11...	1455	22	18.0	440					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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									
09413200 VIRGIN RIVER NEAR BLOOMINGTON, UT (LAT 37°04'14", LONG 113°34'55")									
OCT , 1983					APR , 1984				
18...	1405	218	12.0	2010	24...	1620	118	23.0	2170
DEC					JUN				
15...	1340	287	7.0	1640	19...	1515	44	38.0	3190
JAN , 1984					JUL				
10...	1025	266	4.0	1670	17...	1105	81	16.0	2550
FEB					AUG				
15...	1205	257	6.0	1710	13...	1500	35	33.0	3560
MAR					SEP				
15...	1425	211	14.0	2170	14...	1605	54	30.0	3210
APR									
11...	1750	134	19.5	2680					
BEAR RIVER BASIN									
10010400 EAST FORK BEAR RIVER NEAR EVANSTON, WY (LAT 40°52'25", LONG 110°47'00")									
OCT , 1983					MAY , 1984				
19...	0910	29	1.0	100	09...	1205	23	3.0	120
NOV					18...	1040	216	2.5	<50
16...	1030	29	2.0	160	30...	1910	527	4.0	100
DEC					JUN				
20...	1105	16	.0	320	27...	1435	327	8.5	<50
JAN , 1984					AUG				
25...	0900	13	.0	300	08...	1520	72	6.0	100
FEB					SEP				
14...	1210	12	.0	200	20...	1215	41	9.0	105
APR									
03...	1420	12	3.0	200					
10011200 WEST FORK BEAR RIVER AT WHITNEY DAM, NEAR OAKLEY, UT (LAT 40°50'30", LONG 110°55'35")									
OCT , 1983					JUN , 1984				
19...	1150	24	10.0	200	27...	1125	51	10.0	230
FEB , 1984					AUG				
14...	1345	.08	.5	425	08...	1650	5.3	9.0	--
MAY					SEP				
09...	1330	1.4	2.0	200	20...	1315	7.0	10.0	220
10011400 WEST FORK BEAR RIVER BELOW DEER CREEK, NEAR EVANSTON, WY (LAT 40°56'40", LONG 110°51'40")									
OCT , 1983					MAY , 1984				
18...	1550	48	8.0	175	09...	1355	44	3.0	190
NOV					30...	1400	302	4.0	140
16...	0850	16	.0	--	JUN				
DEC					28...	1025	161	8.5	285
20...	1235	19	.0	175	AUG				
FEB , 1984					08...	1415	32	7.0	210
14...	1410	14	1.0	215	SEP				
APR					20...	0840	26	10.0	175
03...	1040	24	2.0	205					
10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE (LAT 40°57'55", LONG 110°51'10")									
OCT , 1983					MAY , 1984				
18...	1750	160	7.5	200	09...	1430	152	3.0	150
NOV					18...	1445	1250	9.0	210
15...	1625	150	1.0	200	30...	1100	1630	4.0	180
DEC					31...	0750	1920	4.0	180
20...	1355	83	.5	280	JUN				
JAN , 1984					28...	1325	953	11.5	185
25...	1100	61	1.0	290	AUG				
FEB					08...	1315	162	7.0	--
14...	1500	60	1.0	295	SEP				
APR					20...	0950	124	11.0	--
03...	1350	90	2.0	200					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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									
10015700 SULPHER CREEK ABOVE RESERVOIR, NEAR EVANSTON, WY (LAT 41°08'38", LONG 110°48'19")									
OCT , 1983					MAY , 1984				
13...	1550	9.5	10.5	590	09...	1130	176	3.0	360
NOV					17...	1025	266	2.5	--
15...	1435	25	1.0	700	JUN				
DEC					28...	1715	21	24.5	670
20...	1530	8.4	.0	700	AUG				
FEB , 1984					08...	1135	11	11.0	720
14...	0900	3.8	.0	600	SEP				
APR					19...	1535	6.1	17.0	720
03...	0730	14	1.0	720					
10015900 SULPHER CREEK BELOW RESERVOIR, NEAR EVANSTON, WY (LAT 41°09'21", LONG 110°50'05")									
DEC , 1983					JUN , 1984				
20...	1635	22	2.0	620	27...	2000	8.7	13.0	460
FEB , 1984					AUG				
14...	0930	44	3.0	720	08...	1100	.25	10.0	1220
APR					SEP				
03...	0610	62	2.0	610	19...	1335	82	14.0	475
MAY									
09...	1030	170	4.0	--					
17...	1410	445	6.5	340					
10019500 CHAPMAN CANAL AT STATE LINE, NEAR EVANSTON, WY (LAT 41°24'24", LONG 111°02'26")									
OCT , 1983					JUN , 1984				
14...	0945	9.8	8.0	385	26...	1615	33	18.0	210
MAY , 1984					AUG				
08...	1250	6.0	3.0	620	14...	1800	11	24.0	400
17...	1735	15	13.5	300					
24...	1050	54	10.5	235					
10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT (LAT 41°26'04", LONG 111°01'01")									
OCT , 1983					MAY , 1984				
18...	1220	218	7.0	400	08...	1335	788	5.0	550
NOV					MAY				
15...	1140	175	2.0	410	23...	1605	2840	15.5	250
JAN , 1984					JUN				
24...	1240	148	.0	500	26...	1815	1160	17.0	190
MAR					AUG				
07...	0935	152	.0	420	08...	0910	167	8.0	500
APR					SEP				
02...	1415	277	3.0	440	19...	1120	201	14.0	490
10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT (LAT 41°30'20", LONG 111°00'50")									
OCT , 1983					APR , 1984				
18...	1050	371	12.0	310	02...	1235	596	4.0	310
NOV					MAY				
15...	0950	360	7.0	380	08...	1105	618	4.5	450
DEC					23...	1245	3060	13.5	350
19...	1250	96	4.0	520	JUN				
JAN , 1984					29...	1105	1090	14.5	275
24...	1310	101	.5	510	AUG				
FEB					14...	1420	128	20.5	330
13...	1235	97	3.0	450	SEP				
MAR					19...	0915	130	12.0	470
06...	1520	163	5.0	400					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

BEAR RIVER BASIN

10020900 WOODRUFF CREEK BELOW RESERVOIR, NEAR WOODRUFF, UT
(LAT 41°28'06", LONG 111°18'50")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
18...	0855	12	10.0	260
NOV				
14...	1515	11	5.0	300
DEC				
21...	1010	11	2.0	310
FEB , 1984				
14...	1625	9.5	3.0	300
APR				
04...	0805	19	2.0	--
MAY , 1984				
09...	1430	82	3.0	--
16...	1555	451	9.5	330
JUN				
26...	1455	65	10.5	320
AUG				
07...	1410	13	11.0	790

10026500 BEAR RIVER NEAR RANDOLPH, UT
(LAT 41°48'02", LONG 111°04'20")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
17...	1620	473	17.0	610
NOV				
14...	1235	467	3.0	310
DEC				
19...	1015	146	.0	410
JAN , 1984				
24...	1005	146	.0	420
FEB				
13...	0930	159	.0	475
APR , 1984				
02...	1005	791	3.0	--
MAY				
08...	0850	810	2.5	475
24...	1350	2780	15.0	540
JUN				
26...	0810	865	11.0	800
SEP				
05...	1215	203	12.0	640

10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY
(LAT 41°56'20", LONG 110°59'05")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
MAY , 1984				
08...	1015	904	7.5	630
25...	1120	1500	12.0	580
JUN				
08...	1750	1470	13.0	510
JUL , 1984				
25...	1910	449	23.0	710
SEP				
06...	1610	247	17.5	--

10032000 SMITHS FORK NEAR BORDER, WY
(LAT 42°17'16", LONG 110°52'14")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
17...	1410	126	8.0	240
DEC				
21...	1250	73	.0	225
FEB , 1984				
15...	0945	108	.0	200
MAY				
10...	0900	321	1.0	410
25...	1955	1260	7.5	295
JUN , 1984				
08...	1415	973	6.0	290
26...	1210	761	7.0	425
AUG				
07...	1310	248	8.0	415
SEP				
18...	1440	133	10.0	240

10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY
(LAT 42°07'36", LONG 110°58'21")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
17...	1040	786	8.0	450
NOV				
14...	0950	724	2.0	455
FEB , 1984				
15...	1220	371	.0	410
APR				
04..	1010	1280	4.0	390
MAY				
08...	1400	1390	8.5	620
JUN , 1984				
07...	1550	3970	11.5	470
26...	1415	1780	16.0	780
AUG				
07...	1100	557	9.0	--
SEP				
18...	1215	455	14.0	580

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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 , 1983					MAY , 1984				
17...	0940	31	4.0	750	17...	1040	942	3.0	290
NOV					JUN				
09...	1535	32	4.0	750	08...	1010	302	6.5	600
DEC					26...	1440	139	11.0	580
21...	1435	30	.0	720	AUG				
FEB , 1984					07...	0955	51	8.0	820
15...	1050	17	.0	700	SEP				
APR					18...	1055	30	10.0	620
04...	1415	35	4.0	410					
MAY									
09...	1005	282	4.0	560					
10058600 BLOOMINGTON CREEK AT BLOOMINGTON, ID (LAT 42°11'05", LONG 111°25'30")									
OCT , 1983					MAY , 1984				
20...	1510	26	7.5	350	09...	1000	40	10.0	300
NOV					17...	1310	88	3.0	200
10...	1135	25	6.0	260	24...	1520	143	5.0	175
JAN , 1984					JUN				
19...	1405	18	2.0	260	06...	1335	149	6.0	--
FEB					27...	1210	132	8.0	--
07...	1035	20	1.0	275	AUG				
MAR					07...	0815	49	5.0	280
20...	1605	20	4.0	275	SEP				
APR					18...	0905	33	7.0	240
17...	--	35	2.5	275					
10068500 BEAR RIVER AT PESCADERO, ID (LAT 42°24'06", LONG 111°21'22")									
OCT , 1983					APR , 1984				
20...	1710	2210	8.0	650	17...	1235	1940	4.0	590
NOV					MAY				
09...	1340	2280	2.0	600	09...	1500	1450	11.0	600
JAN , 1984					24...	1320	1860	4.0	510
18...	1320	1070	1.0	600	JUN				
MAR					06...	1625	2510	12.5	480
20...	1415	1600	3.5	280					
10072800 EIGHTMILE CREEK NEAR SODA SPRINGS, ID (LAT 42°32'15", LONG 111°34'20")									
OCT , 1983					MAY , 1984				
21...	1145	7.4	5.0	315	10...	1035	40	4.5	230
NOV					17...	0830	165	1.0	--
09...	1155	9.1	2.0	210	JUN				
JAN , 1984					14...	1305	102	6.0	275
18...	1440	5.1	1.0	300	JUL				
FEB					26...	1100	25	10.5	275
02...	1025	5.7	1.0	280	SEP				
MAR					06...	1220	12	10.0	210
20...	1220	4.4	4.0	275					
10076400 SODA CREEK AT FIVEMILE MEADOWS, NEAR SODA SPRINGS, ID (LAT 42°43'45", LONG 111°36'55")									
OCT , 1983					MAY , 1984				
19...	0840	24	3.5	840	07...	1730	42	14.5	840
NOV					JUN				
09...	1035	30	2.0	520	14...	1035	47	9.0	510
FEB , 1984					JUL				
02...	1210	24	.0	600	26...	1310	44	15.0	870
MAR					SEP				
20...	0955	23	4.0	700	06...	1045	39	10.0	840
APR									
17...	1015	99	3.0	350					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

BEAR RIVER BASIN

10084500 COTTONWOOD CREEK NEAR CLEVELAND, ID
(LAT 42°19'57", LONG 111°46'27")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
21...	1510	22	9.0	330
NOV				
09...	0835	26	4.0	300
DEC				
13...	0940	34	2.0	--
FEB , 1984				
02...	1425	25	1.0	--
MAR				
20...	0835	31	5.0	250
APR				
17...	0820	252	4.0	195
MAY , 1984				
07...	1305	200	5.5	230
15...	--	580	4.0	210
JUN				
14...	0915	136	6.0	250
JUL				
26...	1550	34	18.5	295
SEP				
06...	0930	22	12.0	270

10090500 BEAR RIVER NEAR PRESTON, ID
(LAT 42°10'05", LONG 111°50'59")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
12...	0920	2900	10.0	620
NOV				
09...	1245	3230	8.5	600
DEC				
09...	0910	2950	3.0	630
JAN , 1984				
26...	1210	2450	4.0	610
APR				
26...	1050	3400	3.0	510
JUN , 1984				
12...	1315	4520	8.0	490
JUL				
25...	--	2630	8.0	--
AUG				
23...	1035	268	17.0	620
SEP				
17...	1745	2680	17.5	610

10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE
(LAT 42°00'47", LONG 111°55'14")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
07...	1915	3010	14.5	720
NOV				
09...	1535	3240	10.0	800
DEC				
09...	1215	3150	4.0	780
MAR , 1984				
28...	1250	1700	4.5	1000
APR				
26...	1305	4050	5.0	740
JUN , 1984				
12...	1015	4860	8.0	520
JUL				
25...	0850	2850	7.0	580
AUG				
24...	1020	2890	19.0	660
SEP				
17...	1100	1390	15.0	1000

10093000 CUB RIVER NEAR PRESTON, ID
(LAT 42°08'28", LONG 111°41'19")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
12...	1315	55	7.0	280
NOV				
08...	1515	46	6.0	300
DEC				
06...	0925	46	3.0	310
JAN , 1984				
10...	0910	34	2.0	305
MAR				
15...	0955	36	5.0	210
APR				
26...	0850	87	3.0	270
MAY , 1984				
15...	1420	684	6.0	275
JUN				
05...	0950	720	2.0	150
05...	1000	708	2.0	150
29...	--	612	4.5	180
AUG				
02...	0910	87	4.0	205
23...	1150	64	11.0	290
SEP				
17...	1320	45	11.0	300

10099000 HIGH CREEK NEAR RICHMOND, UT
(LAT 41°58'40, LONG 111°44'40")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
12...	1435	20	7.0	300
NOV				
08...	1240	16	4.0	260
DEC				
06...	1320	21	3.5	280
JAN , 1984				
10...	1340	14	1.0	220
FEB				
13...	1015	14	2.5	230
MAR				
15...	1230	20	4.0	275
APR				
26...	--	45	1.0	175
MAY , 1984				
15...	0950	328	4.0	--
JUN				
05...	1400	210	3.0	110
27...	1320	151	4.0	200
JUL				
17...	1000	62	6.0	200
AUG				
23...	1455	29	--	340
SEP				
20...	1020	14	9.0	310

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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									
10104700 LITTLE BEAR RIVER BELOW DAVENPORT CREEK, NEAR AVON, UT (LAT 41°30'45", LONG 111°48'40")									
OCT , 1983					APR , 1984				
03...	1220	60	7.0	360	18...	1805	455	3.0	210
NOV					MAY				
01...	0825	48	7.0	290	01...	1105	195	3.0	300
DEC					JUN				
09...	1050	70	3.0	320	07...	--	261	4.0	--
JAN , 1984					JUL				
10...	1000	50	1.5	--	03...	0950	117	9.0	485
31...	1000	37	2.0	--	AUG				
MAR					06...	1235	64	7.0	325
01...	1150	52	2.0	--	31...	0850	53	12.0	410
29...	1010	68	4.0	275	SEP				
APR					19...	1405	47	15.0	400
16...	1300	235	6.0	260					
10104900 EAST FORK LITTLE BEAR RIVER ABOVE RESERVOIR, NEAR AVON, UT (LAT 41°31'06", LONG 111°42'49")									
OCT , 1983					JUN , 1984				
07...	1440	22	12.0	350	12...	--	139	4.0	210
NOV					JUL				
10...	1445	14	6.0	360	03...	1040	46	5.0	--
DEC					AUG				
22...	1330	23	1.0	490	06...	1430	23	7.0	310
FEB , 1984					31...	1010	19	10.0	450
01...	1405	18	2.0	--	SEP				
MAR					19...	1225	14	13.0	490
13...	1100	22	2.5	415					
MAY									
10...	1530	567	4.0	--					
10106000 LITTLE BEAR RIVER NEAR PARADISE, UT (LAT 41°35'25", LONG 111°51'10")									
OCT , 1983					APR , 1984				
03...	0840	198	5.5	285	10...	1030	393	4.0	270
31...	1350	110	5.0	280	16...	1550	498	7.0	300
NOV					MAY				
02...	1430	111	11.0	460	01...	0950	429	5.0	275
DEC					14...	0825	1460	4.0	310
02...	1045	105	2.0	420	15...	1530	1350	12.5	290
JAN , 1984					31...	1520	622	10.0	300
05...	1010	122	2.0	400	JUL				
31...	0825	68	1.0	460	03...	0830	149	5.0	--
MAR					AUG				
01...	0950	166	2.0	--	03...	0830	124	6.0	400
29...	0900	128	4.0	--	30...	0830	114	8.0	370
10108400 LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UT (LAT 41°44'35", LONG 111°45'40")									
OCT , 1983					MAY , 1984				
03...	0815	16	7.0	360	29...	1450	36	4.0	--
NOV					JUL				
01...	1130	.38	8.5	380	02...	0805	59	8.0	--
DEC					AUG				
01...	1530	.06	3.0	350	01...	0925	31	6.0	--
JAN , 1984					30...	1250	56	7.0	410
31...	1120	1.9	2.0	340	31...	--	19	10.0	450
MAR									
01...	0920	.56	4.0	300					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

BEAR RIVER BASIN

10109000 LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UT
(LAT 41°44'40", LONG 111°47'00")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
03...	0945	271	7.0	310
NOV				
01...	1045	224	8.0	300
DEC				
01...	1430	200	3.0	320
JAN , 1984				
04...	1015	176	2.0	340
31...	0850	156	1.0	350
MAR				
01...	1015	138	4.0	300
29...	1155	175	3.5	210
APR				
30...	1055	372	3.0	240
MAY , 1984				
14...	1150	1370	6.0	--
21...	1440	1410	8.0	295
28...	1340	1380	4.0	--
31...	1320	1890	4.0	--
JUL				
02...	0930	1070	4.0	--
03...	1415	999	5.5	320
AUG				
01...	--	445	--	--
30...	1445	267	8.0	370

10113500 BLACKSMITH FORK ABOVE UTAH POWER & LIGHT CO.'S DAM, NEAR HYRUM, UT
(LAT 41°37'18", LONG 111°44'42")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
03...	0840	210	8.5	370
NOV				
01...	0850	164	8.0	300
DEC				
02...	1210	163	4.0	300
JAN , 1984				
05...	1130	155	2.5	320
31...	1220	140	1.0	320
MAR				
01...	1035	124	1.5	350
29...	0830	206	2.0	280
APR				
18...	0945	669	3.0	210
APR , 1984				
19...	0910	664	3.0	210
30...	1325	448	2.5	--
MAY				
11...	1105	1010	4.0	--
13...	--	1290	7.0	--
16...	1430	1410	5.0	285
31...	1010	785	9.5	335
JUL				
02...	1310	347	10.0	500
AUG				
01...	1410	243	7.5	275
30...	1010	222	12.0	320

10126180 SULPHER CREEK NEAR CORINNE, UT
(LAT 41°34'25", LONG 112°13'07")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
11...	0945	103	12.0	1200
NOV				
16...	1255	76	5.0	1255
DEC				
16...	1310	118	2.5	1450
FEB , 1984				
07...	1210	38	1.0	1550
MAR				
06...	1210	48	3.5	1400
26...	1130	151	3.0	--
MAY , 1984				
03...	1310	44	3.5	1200
JUN				
13...	--	112	12.0	780
JUL				
26...	1140	96	13.0	--
AUG				
21...	1235	100	17.0	1380

10127050 SALT CREEK BELOW SALT SPRING, NEAR TREMONTON, UT
(LAT 41°42'41", LONG 112°13'36")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
11...	1150	75	16.0	1450
NOV				
22...	1135	58	15.0	2600
JAN , 1984				
30...	1440	30	15.0	3300
MAR				
06...	1450	30	15.0	2400
27...	1040	82	15.0	2000
MAY , 1984				
03...	1005	41	17.0	1600
JUN				
13...	1405	98	18.0	1100
AUG				
16...	1300	99	19.0	1350
SEP				
18...	1625	59	20.0	2600

10127100 BLACK SLOUGH NEAR BRIGHAM CITY, UT
(LAT 41°30'36", LONG 112°03'34")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983				
17...	1710	132	14.0	1300
NOV				
16...	1100	73	4.5	1350
DEC				
16...	0925	211	3.0	1300
FEB , 1984				
07...	0940	107	1.0	1400
MAR				
06...	0935	90	2.5	1450
26...	0930	232	4.0	--
MAY , 1984				
03...	1440	183	4.5	--
JUN				
13...	0900	131	8.0	1150
JUL				
26...	0910	59	8.0	--
AUG				
21...	0920	56	13.0	1100

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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									
10128000 SMITH AND MOREHOUSE CREEK NEAR OAKLEY, UT (LAT 40°47'09", LONG 111°06'42")									
OCT , 1983					MAY , 1984				
03...	1110	37	5.0	160	24...	1005	611	6.0	52
NOV					JUN				
01...	1400	21	6.0	185	21...	1110	443	9.5	45
DEC					JUL				
02...	1230	21	.0	52	10...	1055	127	11.0	84
JAN , 1984					AUG				
26...	1045	16	1.5	64	02...	1050	58	13.5	120
APR					SEP				
17...	1230	42	6.0	56	07...	1115	40	9.0	170
MAY									
16...	1420	462	6.0	62					
10128500 WEBER RIVER NEAR OAKLEY, UT (LAT 40°44'14", LONG 111°14'50")									
NOV , 1983					MAY , 1984				
01...	1145	116	5.5	230	24...	1210	2100	7.0	120
29...	1240	108	.0	260	JUN				
JAN , 1984					01...	1255	2080	7.0	125
12...	1540	87	.5	255	21...	1330	1320	11.0	100
26...	1310	91	.0	245	JUL				
FEB					10...	1240	514	12.0	140
28...	1215	71	.0	275	AUG				
MAR					02...	1230	237	14.0	155
28...	1255	81	2.0	285	24...	1115	243	11.0	210
MAY					SEP				
30...	--	209	--	260	26...	0940	158	4.0	250
16...	1150	1780	8.0	250					
10130000 SILVER CREEK NEAR WANSHIP, UT (LAT 40°45'25", LONG 111°28'15")									
OCT , 1983					APR , 1984				
14...	1325	14	8.0	910	12...	1080	25	2.5	1080
NOV					16...	1740	87	13.0	640
03...	--	8.5	8.0	--	MAY				
DEC					25...	1125	23	10.0	610
23...	--	7.3	--	1100	JUN				
JAN , 1984					25...	1301	6.3	19.5	790
12...	--	5.5	1.0	900	JUL				
FEB					26...	1330	5.9	20.0	850
23...	1350	6.8	.5	--	AUG				
MAR					27...	1010	6.6	14.5	910
23...	1440	15	4.0	1050					
10130500 WEBER RIVER NEAR COALVILLE, UT (LAT 40°53'43", LONG 111°24'04")									
OCT , 1983					MAY , 1983				
03...	1440	143	12.0	415	06...	1050	604	6.5	360
NOV					23...	1110	1480	10.0	275
18...	1155	193	6.5	410	JUN				
JAN , 1984					20...	1725	1200	13.5	245
06...	1635	889	3.0	330	JUL				
30...	0940	207	0.0	250	17...	1100	255	14.5	290
APR					AUG				
13...	1145	425	6.0	420	20...	1115	218	14.0	340
10131000 CHALK CREEK AT COALVILLE, UT (LAT 40°55'14", LONG 111°24'03")									
OCT , 1983					MAY , 1984				
03...	1330	72	11.0	445	06...	1300	292	7.0	610
NOV					20...	1725	847	15.0	405
18...	1430	67	7.5	640	JUN				
JAN , 1984					20...	1420	362	17.0	--
06...	1215	53	1.0	660	JUL				
30...	1215	46	.0	680	11...	1145	148	14.0	600
APR					AUG				
07...	1050	107	5.0	720	20...	1320	173	16.0	600

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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									
10133700 THREEMILE CREEK NEAR PARK CITY, UT (LAT 40°43'32", LONG 111°33'44")									
OCT , 1983					MAY , 1984				
20...	1100	1.4	5.0	560	04...	1245	6.2	5.0	460
DEC					23...	1300	20	9.5	--
06...	1130	1.2	3.0	560	JUN				
JAN , 1984					27...	1430	8.6	12.0	--
10...	--	1.1	--	530	AUG				
MAR					03...	1115	3.7	10.0	530
20...	--	1.1		550	SEP				
APR					18...	1110	2.0	9.0	520
13...	1355	1.4	2.0	520					
10133900 EAST CANYON CREEK NEAR PARK CITY, UT (LAT 40°47'24", LONG 111°35'47")									
OCT , 1983					APR , 1984				
11...	1420	34	12.0	700	23...	1145	216	6.0	640
27...	0940	25	2.5	670	MAY				
NOV					16...	1215	420	--	350
04...	--	20	7.5	600	JUN				
DEC					25...	1600	131	17.0	--
28...	1245	29	5.0	820	JUL				
JAN , 1984					25...	1130	53	14.5	610
30...	1100	18	.0	800	AUG				
FEB					23...	1035	42	16.5	620
29...	1030	19	.5	860	SEP				
MAR					17...	1410	26	17.0	670
21...	1030	53	3.0	770					
10134500 EAST CANYON CREEK NEAR MORGAN, UT (LAT 40°55'21", LONG 111°36'23")									
OCT , 1983					MAY , 1984				
14...	1210	45	8.0	540	06...	1600	343	7.5	455
NOV					23...	1355	8.8	13.5	500
19...	1110	45	7.0	--	JUN				
DEC					20...	1050	240	15.0	420
28...	1345	278	3.0	490	JUL				
FEB , 1984					17...	1350	138	14.5	480
02...	0945	46	2.5	490	AUG				
APR					20...	1550	131	12.0	580
03...	1310	85	3.5	580					
10136500 WEBER RIVER AT GATEWAY, UT (LAT 41°08'13", LONG 111°49'54")									
OCT , 1983					MAY , 1984				
17...	1700	436	9.0	540	16...	1415	4460	7.5	240
DEC					JUN				
09...	1330	460	2.5	570	08...	1420	5050	11.0	320
JAN , 1984					JUL				
11...	1430	1580	1.0	--	06...	1440	921	16.0	415
MAR					AUG				
27...	1630	760	4.0	--	17...	1500	746	16.0	460
MAY					SEP				
02...	1500	4030	7.5	370	11...	1230	445	14.0	480
10137500 SOUTH FORK OGDEN RIVER NEAR HUNTSVILLE, UT (LAT 41°16'07", LONG 111°40'24")									
OCT , 1983					MAY , 1984				
13...	1345	60	8.0	350	16...	1325	1510	7.5	185
DEC					18...	1500	1160	9.0	205
15...	1310	154	2.0	355	JUN				
FEB , 1984					27...	1320	223	15.5	290
23...	1430	108	3.5	325	JUL				
APR					30...	1300	119	13.0	290
18...	1325	529	8.0	215	AUG				
MAY					20...	1245	109	14.5	320
10...	1415	600	8.5	210					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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 , 1983					MAY , 1984				
13...	1615	3.3	8.0	430	18...	1710	84	10.5	255
DEC					JUN				
15...	1510	6.6	1.0	425	27...	1635	35	13.0	225
FEB , 1984					JUL				
23...	1650	4.7	1.5	405	30...	1450	12	14.0	345
APR					AUG				
18...	1520	138	4.5	160	20...	1445	5.6	15.5	400
MAY									
10...	1715	94	7.5	180					
10141040 HOOPER SLOUGH NEAR HOOPER, UT (LAT 41°11'26", LONG 112°09'07")									
OCT , 1983					APR , 1984				
18...	1510	8.6	13.0	1200	27...	1120	9.3	8.5	1440
NOV					MAY				
23...	1330	8.8	1.0	1340	30...	1015	27	16.0	600
DEC					JUN				
21...	1035	19	.0	1280	27...	0905	14	18.0	680
FEB , 1984					JUL				
28...	1015	9.9	.0	1200	19...	1030	13	22.0	740
MAR					AUG				
29...	1125	14	7.5	1550	28...	1015	27	20.0	610
APR									
12...	1045	16	6.0	1540					
JORDAN RIVER BASIN									
10146400 CURRANT CREEK NEAR MONA, UT (LAT 39°48'09", LONG 111°51'44")									
OCT , 1983					APR , 1984				
19...	1620	58	12.0	1700	10...	1145	132	6.0	--
NOV					MAY				
04...	1530	60	12.0	1620	14...	1330	592	14.0	720
JAN , 1984					JUN				
09...	1555	77	1.0	2000	13...	1520	131	22.5	1000
FEB					JUL				
07...	1100	54	2.0	--	20...	1145	26	19.0	--
MAR					SEP				
09...	0925	84	1.5	2140	27...	1600	52	15.0	1750
10148200 TIE FORK NEAR SOLDIER SUMMIT, UT (LAT 39°57'00", LONG 111°12'58")									
OCT , 1983					MAY , 1984				
17...	1405	5.8	8.5	650	22...	1145	68	10.0	710
NOV					JUN				
08...	1510	5.3	5.0	670	06...	1315	42	10.5	690
DEC					JUL				
06...	1015	4.7	.0	680	03...	1605	22	17.0	680
JAN , 1984					24...	1600	17	15.5	680
25...	1555	4.0	5.0	690	SEP				
MAR					10...	1130	8.5	10.0	680
27...	1805	7.6	6.0	710					
MAY									
01...	1715	31	7.5	740					
10150500 SPANISH FORK AT CASTILLA, UT (LAT 40°02'59", LONG 111°32'50")									
OCT , 1983					APR , 1984				
01...	1630	912	13.5	790	18...	1255	1240	9.0	670
17...	0920	484	10.0	--	30...	2015	900	9.0	860
19...	1200	1000	10.5	680	MAY				
NOV					17...	1755	2530	11.0	590
09...	--	801	10.0	--	25...	1325	2130	10.0	590
28...	1500	326	4.0	800	JUN				
DEC					04...	1720	991	10.0	720
05...	1530	200	4.0	900	JUL				
JAN , 1984					02...	1700	643	20.0	730
05...	1620	91	4.5	1180	23...	1815	362	20.5	830
23...	1630	166	3.5	940	AUG				
MAR					30...	1605	253	19.0	840
21...	1210	296	5.5	930					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

JORDAN RIVER BASIN

10152000 SPANISH FORK NEAR LAKESHORE, UT
(LAT 40°09'30", LONG 111°43'50")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983					MAY , 1984				
13...	1220	964	11.5	630	21...	1610	2270	13.0	570
DEC					30...	1510	1110	13.0	670
01...	1330	324	4.0	900	JUN				
JAN , 1984					08...	1145	1400	8.5	720
27...	1455	120	3.0	950	29...	1430	66	21.0	860
MAR					JUL				
26...	1500	432	6.0	920	23...	1420	170	19.5	830
APR					AUG				
30...	1735	954	9.0	870	30...	1345	76	18.0	900
MAY									
09...	1355	1540	8.0	740					
14...	1600	3220	10.0	580					

10153800 NORTH FORK PROVO RIVER NEAR KAMAS, UT
(LAT 40°35'48", LONG 111°05'48")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983					MAY , 1984				
12...	1535	20	7.0	<50	25...	1450	272	6.0	<50
DEC					JUN				
02...	1015	14	.0	<50	27...	1255	156	10.0	<50
FEB , 1984					JUL				
08...	1250	9.8	.0	<50	09...	1450	68	13.5	<50
APR					AUG				
24...	0930	34	2.5	<50	07...	1125	46	13.0	<50
MAY					SEP				
18...	1345	218	7.0	<50	12...	1010	25	10.0	<50

10154200 PROVO RIVER NEAR WOODLAND, UT
(LAT 40°33'28", LONG 111°10'05")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983					MAY , 1984				
12...	1355	109	12.5	155	15...	1405	1640	7.0	145
DEC					24...	1400	1860	6.5	88
06...	1130	85	2.0	205	JUN				
JAN , 1984					28...	1205	602	10.5	93
12...	1315	94	1.5	195	JUL				
FEB					10...	1420	304	11.0	115
28...	1345	75	3.0	215	AUG				
APR					07...	1300	194	16.0	145
03...	1315	83	5.0	215	SEP				
24...	1145	245	5.0	130	13...	1155	130	12.0	180

10155000 PROVO RIVER NEAR HAILSTONE, UT
(LAT 40°36'03", LONG 111°21'35")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983					JUL , 1984				
12...	1200	146	7.5	195	09...	1145	423	14.0	155
MAR , 1984					AUG				
30...	1535	126	8.0	205	07...	1520	170	19.0	170
MAY					SEP				
15...	1255	1830	9.0	185	13...	1400	146	15.5	190
25...	1300	1810	7.0	120					
JUN									
28...	1240	586	11.0	120					

10159500 PROVO RIVER BELOW DEER CREEK DAM, UT
(LAT 40°24'12", LONG 111°31'44")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983					MAY , 1984				
11...	1025	523	15.0	375	25...	0920	2140	12.0	290
DEC					JUN				
06...	1550	263	2.0	395	12...	1430	1030	26.0	255
MAR ,1984					15...	1330	1040	11.0	240
30...	1155	508	4.0	460	29...	1420	543	11.5	300
APR					AUG				
23...	1305	581	6.0	380	07...	1805	342	11.0	255
MAY					SEP				
08...	1540	1140	9.5	395	11...	1210	406	19.0	375

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 , 1983					MAY , 1984				
11...	1245	524	14.0	360	14...	1135	1440	9.0	380
DEC					JUN				
01...	0945	204	6.0	--	15...	1135	847	11.5	290
JAN , 1984					AUG				
11...	1155	512	3.0	--	06...	1500	50	19.0	365
MAR					SEP				
29...	1555	610	6.0	455	12...	0830	109	15.0	385
MAY									
08...	1225	1280	9.0	390					
10164500 AMERICAN FORK ABOVE UPPER POWERPLANT, NEAR AMERICAN FORK, UT (LAT 40°26'52", LONG 111°40'53")									
OCT , 1983					MAY , 1984				
07...	1225	48	8.5	--	08...	1000	72	5.5	420
DEC					14...	1430	320	7.0	290
01...	1155	33	3.5	--	23...	1200	486	7.5	250
JAN , 1984					JUN				
11...	1225	26	2.0	455	22...	1125	352	8.0	250
FEB					AUG				
24...	1110	20	3.0	480	06...	1130	77	11.0	360
MAR									
29...	1240	26	5.0	510					
10167230 JORDAN RIVER AT 9000 SOUTH, NEAR MIDVALE, UT (LAT 40°35'15", LONG 111°54'43")									
OCT , 1983					MAY , 1984				
12...	1700	1140	14.0	1270	07...	1230	2060	11.0	1200
DEC					29...	1345	2220	19.5	1050
16...	1330	1740	2.0	1370	JUN				
JAN , 1984					19...	1530	2570	21.5	990
24...	1250	1750	.5	1170	JUL				
24...	1430	1600	1.5	1060	24...	1150	1560	24.5	1080
FEB					AUG				
27...	1430	1780	3.5	1190	16...	1230	1220	21.0	1190
MAR									
10...	1340	1700	6.0	1410					
10167300 JORDAN RIVER AT 5800 SOUTH, NEAR SALT LAKE CITY, UT (LAT 40°38'43", LONG 111°55'18")									
OCT , 1983					MAY , 1984				
12...	1400	1270	13.5	1270	29...	1630	2390	20.0	1120
JAN , 1984					JUN				
09...	1500	1930	1.0	1240	29...	1210	2310	21.0	1080
24...	1600	1870	.5	1260	JUL				
MAR					24...	1450	1770	26.0	1130
23...	1430	1860	6.5	1240	AUG				
APR					16...	1500	1360	21.0	1140
27...	1600	2220	11.0	1220					
10170500 SURPLUS CANAL AT SALT LAKE CITY, UT (LAT 40°43'37", LONG 111°55'33")									
OCT , 1983					MAY , 1984				
11...	1300	1420	13.5	1260	14...	1445	3440	8.0	1160
DEC					15...	1245	3610	13.5	900
02...	1540	1700	4.0	1230	16...	1020	3780	11.5	--
JAN , 1984					18...	1315	3190	13.5	960
23...	1625	1800	1.0	1240	JUN				
MAR					05...	1315	4080	13.5	830
05...	1600	1780	1.0	1380	JUL				
APR					03...	1410	2520	18.0	1040
04...	1600	2020	8.0	1310	AUG				
19...	1330	2430	8.0	1140	13...	1230	1400	20.0	1310

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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									
10172550 JORDAN RIVER AT 500 NORTH, AT SALT LAKE CITY, UT (LAT 40°46'49", LONG 111°56'16")									
DEC , 1983					MAY , 1984				
29...	1600	237	.0	1320	14...	1700	666	10.5	450
FEB , 1984					JUN				
28...	1610	167	4.0	1220	01...	1435	677	12.0	550
APR					JUL				
04...	1250	180	6.5	1210	03...	1600	416	17.0	930
MAY					AUG				
07...	1530	444	9.5	840	13...	1500	194	29.5	1200
RUSH VALLEY									
10172700 VERNON CREEK NEAR VERNON, UT (LAT 39°58'46", LONG 112°22'46")									
OCT , 1983					MAY , 1984				
07...	1155	9.5	10.5	520	15...	1450	37	10.0	--
NOV					JUN				
02...	0940	8.8	10.0	490	13...	1130	13	12.5	530
JAN , 1984					JUL				
12...	1030	7.9	5.0	520	19...	1325	9.9	15.5	520
MAR					AUG				
19...	0910	7.6	3.5	--	08...	1410	9.4	16.5	530
APR					SEP				
16...	0800	13	6.0	520	10...	1055	9.3	11.5	560
MAY									
08...	1330	22	12.5	530					
TOOELE VALLEY									
10172800 SOUTH WILLOW CREEK NEAR GRANTSVILLE, UT (LAT 40°29'47", LONG 112°34'25")									
OCT , 1983					MAY , 1984				
12...	1315	7.5	7.5	310	29...	1110	47	7.0	220
DEC					JUN				
15...	1140	5.0	4.5	310	07...	1030	52	6.0	230
JAN , 1984					13...	1020	37	7.0	220
19...	1325	6.0	3.0	320	26...	1000	42	7.0	220
FEB					JUL				
23...	1245	5.8	4.0	310	26...	1055	16	9.0	270
MAY					AUG				
03...	1030	14	7.5	415	20...	1115	14	10.0	350
14...	1100	75	8.5	260	SEP				
21...	1150	57	6.5	230	18...	1045	8.9	9.0	315
10172805 NORTH WILLOW CREEK NEAR GRANTSVILLE, UT (LAT 40°31'58", LONG 112°34'19")									
OCT , 1983					MAY , 1984				
12...	1125	4.6	8.0	290	31...	1130	54	8.5	180
DEC					JUN				
15...	1000	5.3	4.0	290	07...	1200	45	7.0	215
JAN , 1984					13...	1150	26	8.0	255
19...	1050	4.0	2.5	330	26...	1430	25	9.0	230
FEB					JUL				
23...	1040	4.1	3.0	280	26...	0915	8.0	10.0	290
APR					AUG				
05...	0945	6.2	7.0	--	20...	1245	6.7	12.0	360
MAY					SEP				
03...	1135	15	7.0	340	18...	1210	4.2	12.0	330
22...	1130	59	8.0	220					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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)
GREAT SALT LAKE DESERT									
10172870 TROUT CREEK NEAR CALLAO, UT									
(LAT 39°44'39", LONG 113°53'21")									
OCT , 1983					JUN , 1984				
11...	1600	3.7	9.0	125	06...	1710	39	7.0	80
NOV					19...	1240	36	10.0	75
28...	1400	3.5	1.5	125	JUL				
DEC					18...	1820	5.8	13.0	90
27...	1520	3.2	1.0	125	AUG				
FEB , 1984					13...	1640	2.7	15.0	105
23...	1610	2.4	.0	120	SEP				
MAR					20...	1540	2.7	13.0	105
28...	1055	3.2	1.5	130					
MAY									
07...	1310	7.8	7.5	165					
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 , 1983					MAY , 1984				
13...	0920	3.0	6.0	240	14...	1425	66	7.5	130
NOV					30...	1250	59	10.5	110
08...	0910	2.3	4.0	250	JUL				
DEC					19...	1115	12	6.0	280
22...	1025	1.9	.0	310	AUG				
FEB , 1984					14...	0935	8.2	8.0	280
23...	1005	1.7	1.0	300	SEP				
APR					12...	1610	4.8	12.0	290
24...	0915	9.9	1.0	315					
SEVIER LAKE BASIN									
10173450 MAMMOTH CREEK ABOVE WEST HATCH DITCH, NEAR HATCH, UT									
(LAT 37°37'19", LONG 112°31'07")									
OCT , 1983					MAY , 1984				
11...	1255	59	6.5	190	16...	1355	412	8.0	130
NOV					JUN				
30...	1350	47	.5	155	01...	1330	192	10.0	160
FEB , 1984					28...	1315	57	11.5	180
07...	1210	24	1.0	225	AUG				
28...	1010	15	.0	205	09...	1305	39	14.0	210
APR					SEP				
04...	1355	22	9.5	190	11...	1315	33	12.0	200
MAY									
03...	1340	49	9.0	215					
10174500 SEVIER RIVER AT HATCH, UT									
(LAT 37°39'04", LONG 112°25'46")									
OCT , 1983					MAY , 1984				
11...	1035	159	7.5	280	16...	1115	602	5.0	79
JAN , 1984					JUN				
19...	1330	109	.5	290	01...	1140	265	10.0	210
FEB					28...	1210	112	15.0	280
28...	1130	81	3.5	295	AUG				
APR					09...	1155	92	16.0	325
04...	1220	90	8.5	315	SEP				
MAY					11...	1155	85	13.5	320
03...	1235	119	10.0	295					
10180000 SEVIER RIVER NEAR CIRCLEVILLE, UT									
(LAT 38°06'15", LONG 112°20'08")									
OCT , 1983					MAY , 1984				
21...	1200	223	7.5	380	03...	1030	339	9.0	295
NOV					JUN				
30...	1145	226	1.5	370	01...	1005	269	13.0	310
JAN , 1984					28...	1000	112	16.0	395
19...	1030	145	.5	225	AUG				
FEB					09...	1005	126	16.0	470
28...	1400	179	5.5	365	SEP				
APR					11...	1005	94	13.5	455
04...	1000	189	6.5	395					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

SEVIER LAKE BASIN

10183500 SEVIER RIVER NEAR KINGSTON, UT
(LAT 38°12'22", LONG 112°12'25")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1983					MAY , 1984				
11...	1205	225	11.0	460	02...	1035	305	6.0	340
NOV					16...	1130	511	11.0	240
08...	1050	227	6.0	500	31...	1025	170	14.0	380
DEC					JUL				
08...	1120	253	2.0	470	05...	0950	47	14.0	570
JAN , 1984					AUG				
24...	1100	226	.5	425	01...	1010	144	16.5	530
MAR					SEP				
06...	1000	200	1.0	455	05...	1145	93	16.5	--
APR									
04...	1040	230	8.0	550					

10183900 EAST FORK SEVIER RIVER NEAR RUBYS INN, UT
(LAT 37°34'33", LONG 112°15'54")

OCT , 1983					JUN , 1984				
17...	1145	16	6.0	500	04...	1040	11	12.0	435
JAN , 1984					JUL				
16...	1220	18	.5	--	19...	0930	10	16.0	440
APR					AUG				
11...	1145	30	4.0	445	22...	1545	11	20.0	445
MAY									
10...	0900	19	7.5	435					

10189000 EAST FORK SEVIER RIVER NEAR KINGSTON, UT
(LAT 38°11'49", LONG 112°09'01")

OCT , 1983					MAY , 1984				
11...	1345	44	14.0	485	02...	1125	110	12.0	440
NOV					16...	1155	420	11.0	260
08...	1230	119	7.5	440	31...	1150	219	16.0	430
DEC					JUL				
08...	1150	103	3.0	450	05...	1115	99	17.0	485
JAN , 1984					AUG				
24...	1150	122	1.0	425	01...	1120	54	19.5	490
MAR					SEP				
06...	1130	127	6.0	425	05...	1230	59	17.0	--
APR									
04...	1210	317	7.0	460					

10191500 SEVIER RIVER BELOW PIUTE DAM, NEAR MARYSVALE, UT
(LAT 38°19'43", LONG 112°11'30")

OCT , 1983					MAY , 1984				
21...	1005	300	12.5	425	02...	1330	344	12.0	395
NOV					31...	1405	429	16.5	385
30...	1000	420	4.0	420	JUL				
JAN , 1984					05...	1305	604	19.5	395
24...	1350	202	10.0	445	AUG				
MAR					01...	1305	82	22.0	460
06...	1330	749	4.0	425	SEP				
20...	1200	374	5.5	400	12...	1150	352	20.0	415

10194000 SEVIER RIVER ABOVE CLEAR CREEK, NEAR SEVIER, UT
(LAT 38°34'20", LONG 112°15'27")

OCT , 1983					MAY , 1984				
19...	1250	315	11.0	465	02...	1545	616	12.0	405
NOV					JUN				
08...	1445	348	6.0	--	01...	0750	899	12.0	275
DEC					JUL				
08...	1050	488	3.0	490	06...	0955	681	16.0	375
JAN , 1984					AUG				
24...	--	193	2.0	465	10...	1100	340	20.0	455
MAR					SEP				
06...	1435	735	3.0	425	12...	1335	335	20.5	425
27...	1310	92	6.0	475					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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									
10194200 CLEAR CREEK ABOVE DIVERSIONS, NEAR SEVIER, UT (LAT 38°34'45", LONG 112°17'22")									
OCT , 1983					MAY , 1984				
14...	1015	23	6.0	235	03...	1130	482	7.0	--
NOV					10...	1110	523	11.0	215
18...	0920	20	3.0	260	17...	0925	471	11.0	--
DEC					24...	1305	595	11.0	155
08...	0820	18	.5	270	JUN				
JAN , 1984					01...	0950	317	11.0	315
26...	0915	18	.5	270	29...	0950	105	17.0	--
MAR					JUL				
06...	1630	30	4.5	300	25...	1055	49	15.0	260
20...	1305	27	9.0	--	AUG				
27...	1420	34	5.0	300	10...	1010	39	14.0	245
APR					SEP				
04...	1515	38	9.0	340	05...	1505	28	20.0	--
10205000 SEVIER RIVER NEAR SIGURD, UT (LAT 38°52'13", LONG 111°57'14")									
OCT , 1983					APR , 1984				
19...	1515	285	12.0	830	17 ...	1355	1010	13.0	550
NOV					MAY				
15...	1210	337	8.0	--	16...	1810	976	15.0	420
DEC					JUL				
13...	--	382	5.0	800	17...	1130	44	22.0	1180
JAN , 1984					AUG				
17...	1205	513	.5	700	15...	2200	92	20.5	950
FEB					SEP				
08...	1330	514	5.0	650	17...	1625	87	18.5	950
MAR									
07...	1610	814	6.5	650					
10205030 SALINA CREEK NEAR EMERY, UT (LAT 38°54'43", LONG 111°31'47")									
OCT , 1983					MAY , 1984				
20...	0915	17	2.0	445	09...	1700	171	9.0	570
NOV					JUN				
14...	1600	15	4.0	450	14...	1415	121	12.0	540
JAN , 1984					JUL				
11...	1210	13	1.5	480	16...	1915	41	17.0	540
MAR					AUG				
07...	0920	8.8	.0	550	06...	2040	32	15.0	510
APR					SEP				
17...	0735	41	1.5	560	17...	1220	27	12.0	560
10206000 SALINA CREEK AT SALINA, UT (LAT 38°57'24", LONG 111°51'58")									
OCT , 1983					APR , 1984				
20...	1250	30	7.5	960	17...	1105	255	6.0	850
NOV					JUL				
15...	1405	29	5.0	1050	02...	2100	125	19.0	580
DEC					17...	1345	51	22.0	1060
13...	1500	36	2.0	1080	AUG				
FEB , 1984					07...	1015	61	17.0	1020
07...	1710	40	.0	1130	SEP				
MAR					17...	1420	16	20.0	1220
07...	1320	35	9.0	1190					
10208500 OAK CREEK NEAR FAIRVIEW, UT (LAT 39°40'26", LONG 111°24'30")									
OCT , 1983					MAY , 1984				
14...	1525	5.9	6.0	650	21...	1750	333	7.5	420
NOV					29...	1720	255	10.5	425
18...	1130	4.8	3.0	560	JUN				
JAN , 1984					21...	1945	38	13.5	470
07...	1425	4.3	3.0	560	JUL				
FEB					02...	1030	22	11.0	560
06...	1050	4.2	2.0	540	AUG				
APR					22...	1515	5.6	15.5	--
04...	1615	4.7	6.0	590	SEP				
MAY					22...	1145	4.9	9.5	560
08...	1320	20	7.0	620					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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									
10215700 OAK CREEK NEAR SPRING CITY, UT (LAT 39°26'52", LONG 111°25'29")									
OCT , 1983					MAY , 1984				
14...	0950	8.7	2.5	500	21...	1535	116	7.0	370
NOV					29...	1605	142	7.5	395
30...	1130	7.2	0.5	415	JUL				
JAN , 1984					05...	1400	53	10.5	400
08...	1220	5.7	2.5	405	24...	1050	27	9.5	425
FEB					AUG				
03...	1410	5.0	2.0	420	22...	1845	12	11.0	--
APR					SEP				
06...	1150	5.7	4.5	410	23...	0900	9.2	6.0	430
MAY									
07...	1730	7.8	7.0	450					
10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UT (LAT 39°15'33", LONG 111°34'45")									
OCT , 1983					MAY , 1984				
13...	1200	16	5.5	570	21...	1230	320	9.0	440
NOV					29...	1415	352	10.0	500
29...	1410	11	.0	610	JUL				
JAN , 1984					05...	1145	150	10.0	480
08...	1515	9.5	1.0	640	24...	1355	51	14.5	590
FEB					AUG				
03...	1110	8.3	.5	590	13...	1110	35	13.0	580
APR					SEP				
06...	1650	11	5.5	--	23...	1350	17	12.0	560
MAY									
07...	1330	27	7.0	660					
10217000 SEVIER RIVER BELOW SAN PITCH RIVER, NEAR GUNNISON, UT (LAT 39°09'19", LONG 111°52'37")									
OCT , 1983					APR , 1984				
19...	1345	801	11.5	1340	04...	0845	777	7.5	--
NOV					JUL				
16...	1450	799	8.0	--	16...	1600	234	22.0	1950
JAN , 1984					SEP				
17...	1620	883	5.0	--	26...	1305	380	12.5	1550
10219000 SEVIER RIVER NEAR JUAB, UT (LAT 39°22'29", LONG 112°02'20")									
OCT , 1983					MAY , 1984				
17...	1230	9.2	15.0	1600	30...	1810	4510	17.0	1050
NOV					JUN				
17...	1525	3.8	8.5	1700	27...	--	2490	19.0	850
DEC					JUL				
13...	1305	269	6.0	1500	17...	1630	1100	21.0	820
JAN , 1984					AUG				
16...	1345	1500	2.5	--	17...	1425	780	22.0	1000
FEB					SEP				
22...	1700	1270	3.0	1500	26...	1610	317	18.0	1250
MAY									
03...	1230	2110	10.0	1280					
10219200 CHICKEN CREEK NEAR LEVAN, UT (LAT 39°33'08", LONG 111°49'45")									
OCT , 1983					APR , 1984				
19...	1350	7.7	12.0	980	17...	1945	95	--	750
NOV					JUL				
04...	--	7.0	8.5	950	03...	1220	29	16.0	880
JAN , 1984					20...	1515	18	20.0	850
09...	1315	7.1	3.0	880	AUG				
FEB					15...	1855	46	15.5	--
07...	1350	5.4	7.0	950	SEP				
APR					28...	1100	7.0	11.0	1180
03...	1555	11	12.5	1000					

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									
10224100 OAK CREEK ABOVE LITTLE CREEK, NEAR OAK CITY, UT (LAT 39°21'23", LONG 112°13'55")									
OCT , 1983					MAY , 1984				
17...	1605	2.0	9.5	295	15...	1830	51	7.0	--
NOV					JUN				
17...	1105	1.2	5.5	305	07...	1330	16	10.0	145
DEC					JUL				
12...	1635	2.1	3.5	230	17...	2015	2.1	15.0	335
MAR , 1984					AUG				
22...	1200	5.3	2.0	--	14...	1340	1.6	16.0	350
APR					SEP				
18...	0920	32	5.0	150	26...	1830	1.1	10.0	360
10224300 OAK CREEK BELOW BIG SPRING, NEAR OAK CITY, UT (LAT 39°21'11", LONG 112°17'07")									
OCT , 1983					APR , 1984				
17...	1455	8.4	10.5	480	18...	1430	93	9.0	270
NOV					JUN				
17...	1230	5.1	9.0	560	07...	1425	52	10.0	400
DEC					JUL				
13...	0955	8.5	7.0	510	17...	2105	17	11.0	530
JAN , 1984					AUG				
30...	1030	9.5	4.0	440	14...	1450	11	14.0	520
MAR					SEP				
22...	1515	23	7.0	360	26...	1930	7.4	10.0	540
BEAVER RIVER BASIN									
10234500 BEAVER RIVER NEAR BEAVER, UT (LAT 38°16'49", LONG 112°34'01")									
OCT , 1983					MAY , 1984				
25...	1040	36	4.0	115	17...	1130	447	5.0	60
NOV					22...	1950	674	9.0	60
28...	1240	58	.5	125	30...	1235	481	8.0	57
DEC					JUN				
27...	1110	29	1.5	120	06...	1220	359	7.5	63
JAN , 1984					14...	1225	262	10.0	78
05...	0945	31	1.0	135	19...	1345	212	11.0	--
25...	1045	28	1.5	140	27...	1025	161	10.5	87
FEB					JUL				
23...	1110	27	.0	110	10...	1145	109	13.0	95
MAR					25...	1040	101	13.5	99
09...	1005	26	2.0	135	AUG				
27...	1125	32	1.5	115	27...	1240	74	14.5	120
APR					SEP				
24...	1130	85	6.5	92	28...	1430	37	11.5	130
MAY									
14...	1205	412	6.0	61					
10239000 BEAVER RIVER AT ROCKY FORD DAM, NEAR MINERSVILLE, UT (LAT 38°13'03", LONG 112°50'22")									
OCT , 1983					MAR , 1984				
25...	1345	11	14.0	490	29...	1200	27	8.5	460
NOV					MAY				
28...	1410	44	8.0	485	04...	1100	205	10.5	390
JAN , 1984					JUN				
05...	1310	128	4.0	480	18...	1345	152	17.0	260
25...	1330	119	4.5	465	AUG				
FEB					10...	1105	144	20.0	405
23...	1410	63	6.0	490	27...	0945	140	19.5	400
PAROWAN VALLEY									
10241470 CENTER CREEK ABOVE PAROWAN CREEK, NEAR PAROWAN, UT (LAT 37°47'35", LONG 112°48'55")									
OCT , 1983					APR , 1984				
05...	1520	7.4	8.0	275	13...	1345	9.0	10.5	390
DEC					MAY				
13...	1130	6.9	2.5	255	23...	1315	18	12.0	255
JAN , 1984					JUL				
24...	1100	5.8	2.5	285	17...	0855	10	9.5	265
MAR					AUG				
14...	1000	6.0	4.5	325	21...	1040	7.5	10.5	300

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

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									
10241600 SUMMIT CREEK NEAR SUMMIT, UT									
(LAT 37°47'13", LONG 112°54'56")									
OCT , 1983					MAY , 1984				
07...	1545	3.8	12.0	410	23...	1440	28	15.0	395
DEC					JUN				
13...	1250	2.6	3.5	440	14...	1430	8.7	17.0	430
JAN , 1984					JUL				
24...	1215	3.2	3.0	425	17...	1150	4.7	16.5	425
MAR					AUG				
14...	1110	3.0	6.5	470	21...	1145	5.2	15.0	415
APR									
13...	1455	5.0	13.0	510					
CEDAR CITY VALLEY									
10242000 COAL CREEK NEAR CEDAR CITY, UT									
(LAT 37°40'20", LONG 113°02'02")									
OCT , 1983					APR , 1984				
14...	1505	24	10.0	570	16...	1455	78	11.5	470
27...	1115	18	5.0	550	MAY				
NOV					11...	2005	518	9.5	--
14...	1340	18	6.0	600	16...	1940	289	10.5	280
DEC					JUN				
20...	1340	19	1.5	610	21...	1040	33	11.5	--
JAN , 1984					JUL				
24...	1345	20	.5	570	16...	0845	26	13.5	570
MAR					AUG				
14...	1430	22	10.0	600	21...	1320	29	18.0	680
RAFT RIVER BASIN									
13077700 GEORGE CREEK NEAR YOST, UT									
(LAT 41°55'07", LONG 113°28'51")									
OCT , 1983					MAY , 1984				
13...	1300	3.9	8.0	290	14...	1750	119	4.0	89
NOV					30...	1555	135	7.5	80
08...	1210	3.6	4.0	300	JUL				
DEC					19...	1405	10	6.0	250
22...	1120	2.1	1.0	275	AUG				
MAR , 1984					14...	1200	5.9	7.0	240
22...	1015	3.2	4.0	380	SEP				
APR					12...	1210	5.0	11.0	275
24...	1310	6.7	2.0	300					

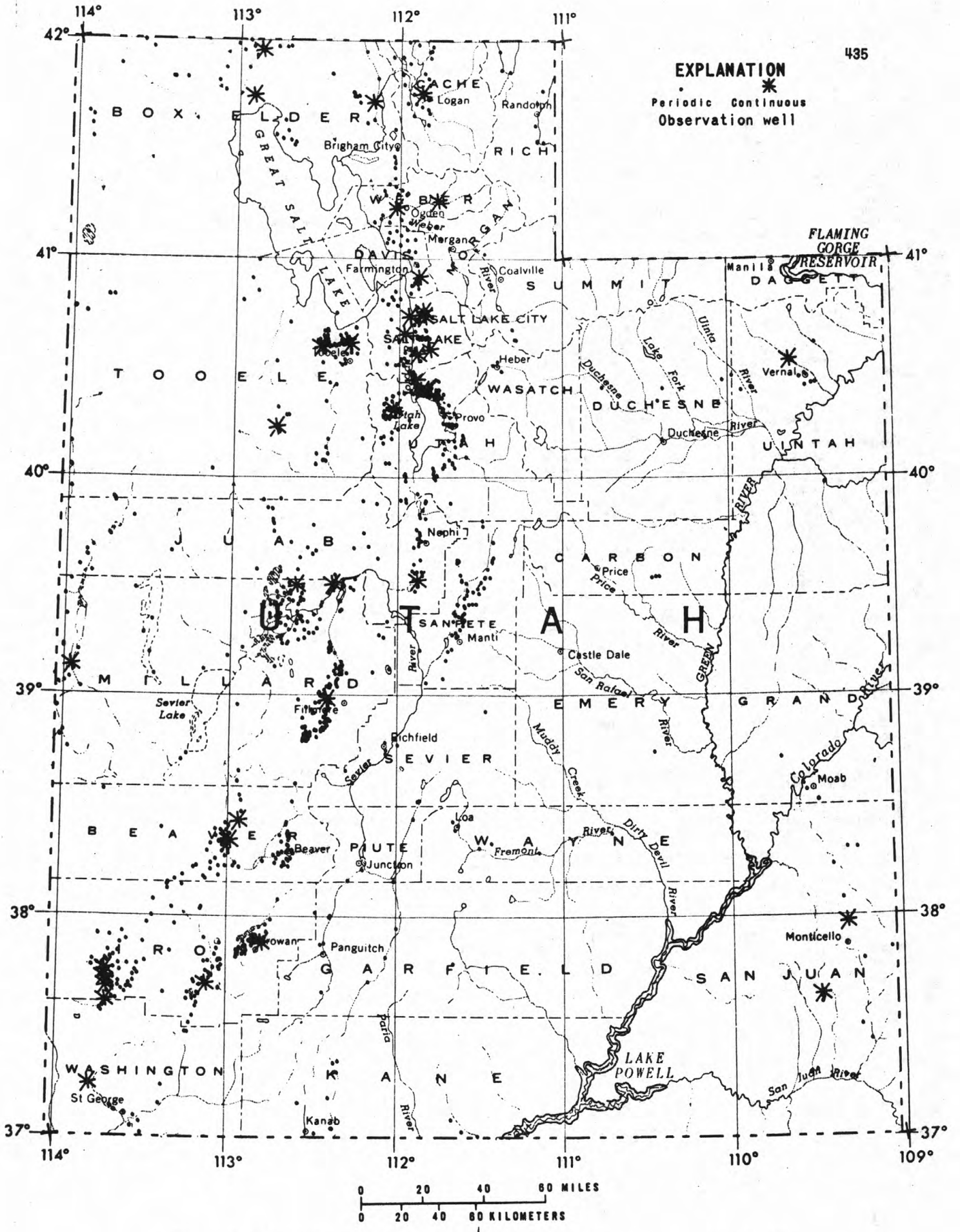

Figure 19.—Location of observation wells in Utah where data were obtained on ground-water levels.

BEAVER COUNTY

382551112555101. LOCAL NUMBER, (C-27-10)25cbd-1.
LOCATION.--Lat 38°25'51", long 112°55'51", Hydrologic Unit 16030007.
Owner: Phillips Petroleum.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled well, diameter 6 in., depth 400 ft.
DATUM.--Land-surface datum is 5,320 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--April 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 323.75 ft below land-surface datum, May 15, 1976; lowest, 326.72 ft below land-surface datum, Mar. 21, 1984.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	326.28	326.24	326.06	326.24	326.43	325.95	326.67	326.47	326.45	326.45	326.49	326.65
10	326.30	326.19	326.14	326.11	326.43	326.59	326.43	326.64	326.53	326.51	326.51	326.65
15	326.34	326.24	325.86	326.06	326.25	326.52	326.55	326.67	326.40	326.46	326.54	326.54
20	326.27	326.00	326.15	326.19	326.40	326.58	326.35	326.53	326.46	326.41	326.54	326.56
25	326.28	326.10	326.12	326.27	326.50	326.51	326.60	326.42	326.48	326.56	326.62	326.22
EOM	326.23	326.13	326.09	326.42	326.64	326.39	326.44	326.52	326.44	326.58	326.76	326.46

382020112585901. LOCAL NUMBER, (C-28-10)28cdd-1.
LOCATION.--Lat 38°20'20", Long 112°58'59", Hydrologic Unit 16030007.
Owner: Wiseman.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 16 in., depth 360 ft, cased to 60 ft.
DATUM.--Land-surface datum is 5,019 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--April 1952 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.99 ft below land-surface datum, Sep. 30, 1984; lowest, 59.26 below land-surface datum, Oct. 8, 1965.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.04	18.13	19.01	19.76	20.77	20.78	21.33	21.82	22.96	19.74	16.17	15.51
10	17.87	18.30	19.11	19.85	20.77	20.84	21.42	22.19	21.87	20.05	16.35	15.86
15	17.78	18.48	19.27	19.93	20.77	20.90	21.58	22.93	20.29	20.11	16.29	14.75
20	17.83	18.51	19.37	20.65	20.78	21.05	21.58	23.77	19.17	20.10	16.08	13.68
25	17.97	18.59	19.56	20.78	20.78	21.11	20.20	24.19	18.64	18.29	15.87	13.34
EOM	18.02	18.82	19.67	20.74	20.78	21.19	21.77	23.46	18.75	16.68	15.60	12.99

BOX ELDER COUNTY

414236112101201. LOCAL NUMBER, (B-11-3)10abb-4.
LOCATION.--Lat 41°42'36", long 112°10'12", Hydrologic Unit 16010204.
Owner: Rocky Mountain Packing Company.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 705 ft, cased to 437 ft.
DATUM.--Land-surface datum is 4,318 ft above mean sea level. Measuring point: Top of casing, at land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--October 1979 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.00 ft below land-surface datum, Jul. 27, Sep. 12, 1984; lowest, 24.43 ft below land-surface datum, Mar. 5, 9, 10, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.12	17.35	17.47	17.90	18.26	18.32	18.07	16.57	15.06	14.31	14.03	14.08
10	17.12	17.43	17.60	17.97	18.18	18.36	17.84	16.38	14.80	14.21	14.03	14.05
15	17.12	17.47	17.65	18.04	18.16	18.29	17.72	16.07	14.73	14.19	14.03	14.10
20	17.18	17.42	17.69	18.11	18.26	18.42	17.32	15.90	14.57	14.19	14.03	14.15
25	17.27	17.46	17.76	18.18	18.21	18.35	17.09	15.65	14.52	14.12	14.03	14.08
EOM	17.32	17.58	17.83	18.22	18.31	18.19	16.92	15.37	14.40	14.04	14.04	14.16

BOX ELDER COUNTY--Continued

414411112543701. LOCAL NUMBER, (B-12-9)30cda-1.
LOCATION.--Lat 41°44'11", long 112°54'37", Hydrologic Unit 16020309.
Owner: U.S. Geological Survey.
AQUIFER.--Basalt.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 in., depth 162 ft, cased to 131 ft.
DATUM.--Land-surface datum is 4,239 ft above mean sea level. Measuring point: Top of casing, 2.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--August 1972 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 23.88 ft below land-surface datum, Aug. 22, 1972; lowest, 25.53 ft below land-surface datum, Oct. 15, 20, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 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

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.44	25.47	25.46	25.39	25.29	25.14	25.15	25.04	25.04	24.94	24.83	24.82
10	25.46	25.45	25.43	25.38	25.27	25.15	25.13	25.06	25.00	24.94	24.83	24.83
15	25.46	25.47	25.40	25.34	25.23	25.16	25.14	25.06	25.02	24.90	24.83	24.82
20	25.46	25.46	25.40	25.31	25.23	25.15	25.09	25.09	25.00	24.80	24.83	24.86
25	25.46	25.46	25.40	25.31	25.18	25.13	25.08	25.08	24.99	24.80	24.83	24.85
EOM	25.46	25.39	25.40	25.28	25.19	25.12	25.07	25.04	24.97	24.81	24.82	24.82

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.83	24.77	24.81	24.73	24.53	24.43	24.39	24.37	24.27	24.24	24.22	24.16
10	24.84	24.76	24.77	24.69	24.47	24.41	24.40	24.35	24.25	24.24	24.22	24.16
15	24.84	24.79	24.77	24.68	24.49	24.37	24.42	24.30	24.25	24.23	24.22	24.18
20	24.83	24.76	24.78	24.64	24.48	24.36	24.41	24.34	24.25	24.23	24.21	24.15
25	24.84	24.78	24.76	24.59	24.45	24.35	24.41	24.32	24.24	24.23	24.16	24.21
EOM	24.80	24.80	24.77	24.56	24.45	24.37	24.41	24.28	24.24	24.23	24.16	24.18

415703112514501. LOCAL NUMBER, (B-14-9)9add-1.
LOCATION.--Lat 41°57'03", long 112°51'45", Hydrologic Unit 16020309.
Owner: Hogan.
AQUIFER.--Basalt.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 20 in., depth 400 ft, cased to 395 ft.
DATUM.--Land-surface datum is 4,384 ft above mean sea level. Measuring point: Top of casing, at land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--July 1981 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 164.05 below land-surface datum, Apr. 24, 1984; lowest, 177.03 below land-surface datum, Oct. 1, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	168.15	166.53	166.07	165.45	165.15	164.97	164.34	164.16	166.09	172.10	169.81	172.36
10	167.79	166.35	165.71	165.40	165.10	164.96	164.21	164.11	166.37	172.30	169.48	172.06
15	167.41	166.38	165.65	165.35	165.05	164.96	164.16	165.85	166.97	173.50	169.61	172.04
20	167.14	165.93	165.50	165.30	165.00	164.83	164.10	166.79	168.59	173.49	171.23	171.42
25	167.07	165.94	165.43	165.25	164.97	164.70	164.08	167.16	170.04	171.26	171.39	170.60
EOM	166.70	165.99	165.62	165.20	164.97	164.57	164.25	167.40	170.56	170.54	172.03	169.10

CACHE COUNTY

414501111520001. LOCAL NUMBER, (A-12-1)29cab-1.
LOCATION.--Lat 41°45'01", long 111°52'00", Hydrologic Unit 16010203.
Owner: Edwin Gossner.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 2 in., depth 43 ft, cased to 43 ft.
DATUM.--Land-surface datum is 4,442 ft above mean sea level. Measuring point: Top of coupling, 0.30 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--August 1940 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 23.60 ft above land-surface datum, Sept. 10, 15, 1983, Sep. 5, 10, 25, 1984; lowest, 13.60 ft above land-surface datum, Aug. 24, 1940.

WATER-LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.00	22.90	22.50	21.30	21.30	21.30	20.40	20.60	20.80	21.80	23.40	23.60
10	23.00	22.60	22.00	21.40	21.10	20.50	20.20	20.80	21.10	22.10	23.10	23.60
15	23.10	22.70	22.00	21.20	20.90	21.00	20.50	20.80	22.40	22.40	22.50	23.50
20	23.40	22.40	21.70	21.50	20.90	21.00	20.50	21.00	22.00	21.80	23.20	23.50
25	23.30	22.50	21.60	21.00	20.70	20.40	20.60	21.20	22.00	22.30	22.90	23.60
EOM	22.70	22.30	21.30	21.00	20.80	20.10	20.60	20.50	21.00	23.20	23.40	23.50

DAVIS COUNTY

405447111524301. LOCAL NUMBER, (A-2-1)18abd-12.
LOCATION.--Lat 40°54'47", long 111°52'43". Hydrologic Unit 16020102.
Owner: T. Q. Williams.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Jetted unused artesian well, diameter 2 in., depth 90 ft, cased to 90 ft.
DATUM.--Land-surface datum is 4,285 ft above mean sea level. Measuring point: Top of recorder shelter support, 2.40 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--May 1938 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 31.60 ft above land-surface datum, June 9, 1944; lowest, 2.70 ft above land-surface datum Aug. 5, 1961.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.50	25.00	23.90	23.00	22.30	20.70	20.40	22.20	21.80	21.80	24.60	23.80
10	25.70	24.90	22.40	23.00	22.20	19.60	19.80	22.10	22.70	22.60	24.30	24.80
15	25.70	24.80	23.30	21.60	22.20	20.80	20.90	22.40	20.50	22.60	24.20	25.10
20	24.60	25.00	23.00	22.00	22.40	20.70	21.00	20.50	20.60	22.20	24.60	24.60
25	25.10	24.60	22.50	22.00	21.80	21.30	21.40	20.50	20.60	22.50	23.10	24.90
EOM	25.00	24.00	23.00	22.20	21.80	20.60	21.60	21.30	20.60	23.90	24.10	24.80

IRON COUNTY

375241112471001. LOCAL NUMBER, (C-34-8)5bca-1.
LOCATION.--Lat 37°52'41", long 112°47'10", Hydrologic Unit 16030006.
Owner: Paragonah Canal Company.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISITCS.--Drilled unused artesian well, diameter 12 in., depth 420 ft.
DATUM.--Land-surface datum is 5,802 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--September 1935 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 13.45 ft below land-surface datum, June 26, 1949; lowest, 42.40 ft below land-surface datum, Sept. 7, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	37.27	35.95	34.43	33.25	33.13	31.87	31.53	31.16	31.32	31.27	30.73	29.73
10	37.03	35.88	34.11	33.29	32.95	31.83	31.47	31.03	31.33	31.26	30.64	29.73
15	36.87	35.72	34.00	33.31	32.96	31.64	31.52	30.99	31.30	31.24	30.51	29.72
20	36.70	35.25	33.76	33.31	32.88	31.56	31.40	31.02	31.23	31.11	30.17	29.71
25	36.54	34.99	33.52	33.29	32.73	31.45	31.29	31.04	31.28	31.03	29.93	29.71
EOM	36.22	34.69	33.37	33.19	32.36	31.47	31.27	31.32	31.27	30.81	29.73	29.71

374524113421501. LOCAL NUMBER, (C-35-17)13bdc-1.
LOCATION.--Lat 37°45'24", long 113°42'15", Hydrologic Unit 16030006.
Owner: Austin D. Moyle.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 16 in., depth 100 ft, perforated 26-35 ft, 60-70 ft, 90-100 ft.
DATUM.--Land-surface datum is 5,166.20 ft above mean sea level. Measuring point: Top of tie, at land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--May 1937 to December 1942, August 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 25.99 ft below land-surface datum, Apr. 16, 1938; lowest, 81.64 ft below land-surface datum, Sept. 15, 1983.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	75.88	74.28	73.57	73.00	72.62	72.31	71.98	75.44	78.79	79.81	76.24	78.75
10	75.49	74.10	73.41	72.89	72.49	72.26	71.91	76.23	79.19	80.60	77.73	78.35
15	75.17	73.99	73.29	72.91	72.53	72.18	71.96	77.02	79.54	80.95	79.36	77.95
20	74.91	73.71	73.18	72.83	72.47	72.14	74.41	77.52	79.91	78.93	79.86	77.54
25	74.73	73.64	73.14	72.71	72.37	72.08	73.93	78.16	79.93	77.64	79.62	77.14
EOM	74.45	73.60	73.11	72.66	72.34	72.00	73.79	78.70	79.45	76.61	79.15	76.74

374132113063601. LOCAL NUMBER, (C-36-11)8aab-1.
LOCATION.--Lat 37°41'32", long 113°06'36", Hydrologic Unit 16030006.
Owner: Arll Stratton.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 220 ft.
DATUM.--Land-surface datum is 5,563 ft above mean sea level. Measuring point: Top of casing, 3.50 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--September 1935 to December 1943, March 1945 to March 1973, April 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 45.67 ft below land-surface datum, Sept. 27, 1943; lowest, 100.08 ft below land-surface datum, Sept. 10, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	57.36	54.98	53.10	52.07	51.03	49.79	48.96	48.94	51.99	58.78	55.80	59.12
10	56.87	54.47	52.90	51.76	50.64	49.58	48.85	49.78	52.56	59.38	58.25	59.23
15	56.36	54.29	52.70	51.83	50.65	49.54	48.99	50.47	53.45	59.37	58.48	58.51
20	56.16	53.98	52.48	51.52	50.42	49.26	48.78	50.06	54.34	59.37	58.31	57.60
25	55.82	53.50	52.37	51.48	50.03	49.19	48.53	50.19	55.86	57.51	56.70	57.31
EOM	55.28	53.30	52.34	51.18	49.95	48.97	48.75	52.39	57.72	56.79	57.98	56.74

374053113415101. LOCAL NUMBER, (C-36-16)6cbc-1.
LOCATION.--Lat 37°40'53", long 113°41'51", Hydrologic Unit 16030006.
Owner: Robert Holt.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16 in., depth 270 ft, perforated 81-85 ft, 95-100 ft, 114-120 ft, 144-147 ft, 156-162 ft, 182-184 ft, 188-193 ft, 198-202 ft, 218-222 ft, 227-232 ft, 249-252 ft, 257-259 ft, 263-267 ft.
DATUM.--Land-surface datum is 5,210.67 ft above mean sea level. Measuring point: Bottom lip of access pipe, at land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--December 1951 to December 1953, April 1959 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 73.35 ft below land-surface datum, Apr. 4, 1952; Lowest, 139.86 ft below land-surface datum, Aug. 31, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	136.57	133.64	130.41	128.70	127.43	126.39	125.33	125.67	131.85	136.22	137.47	138.75
10	136.19	132.86	130.12	128.40	127.24	126.21	125.11	126.66	132.96	137.15	137.38	139.05
15	135.81	132.09	129.75	128.19	127.05	126.00	125.02	127.80	133.59	138.08	137.79	139.07
20	134.97	131.31	129.40	128.00	126.86	125.93	124.84	128.94	134.18	138.46	138.03	138.72
25	134.18	130.84	129.14	127.81	126.67	125.73	124.78	129.78	134.81	137.74	138.34	138.43
EOM	134.41	130.54	128.90	127.62	126.51	125.47	124.97	131.05	135.44	137.53	138.63	138.13

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., depth 200 ft, cased to 200 ft.
DATUM.--Land-surface datum is 5,208.41 ft above mean sea level. Measuring point: Top of casing, 1.50 ft above land-surface datum.
REMARKS.--Record fair.
PERIOD OF RECORD.--April 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 111.11 ft below land-surface datum, Apr. 11, 1975; lowest, 153.50 ft below land-surface datum, Sept. 14-18, 1984.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	148.56	146.67	145.44	144.60	143.50	142.91	142.71	142.68	146.11	149.61	151.74	153.05
10	148.18	146.58	145.36	144.37	143.30	142.78	142.46	143.04	146.86	150.23	151.82	153.32
15	147.71	146.37	145.19	144.20	143.14	142.69	142.58	143.59	147.60	150.84	152.12	153.50
20	147.28	146.02	145.18	144.04	142.88	142.90	142.53	144.27	148.11	151.55	152.48	153.45
25	140.00	145.69	144.80	143.84	142.75	142.99	142.43	144.87	148.62	151.74	152.63	153.41
EOM	146.71	145.54	144.67	143.64	142.68	142.81	142.55	145.57	149.05	151.74	152.88	153.19

373643113415301. LOCAL NUMBER, (C-36-17)36add-1.
LOCATION.--Lat 37°36'43", long 113°41'53", Hydrologic Unit 16030006.
Owner: Sherwood Bracken.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 14 in., depth 202 ft.
DATUM.--Land-surface datum is 5,269.89 ft above mean sea level. Measuring point: Top of casing, 0.50 ft above land-surface datum.
REMARKS.--There are several nearby pumped wells. Record good.
PERIOD OF RECORD.--July 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 112.40 ft below land-surface datum, Mar. 24, 1950; lowest, 183.94 ft below land-surface datum, Sept. 10, 1977.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	162.46	160.90	159.40	158.89	158.91	158.11	157.23	158.08	163.61	169.65	171.48	171.85
10	162.14	160.64	159.34	158.89	158.60	157.86	157.12	159.04	164.01	171.24	173.34	172.23
15	161.82	160.53	159.33	159.09	158.91	157.62	157.24	159.58	164.56	171.15	173.29	171.82
20	161.62	159.90	159.45	159.02	158.94	157.57	157.11	160.71	164.78	171.94	171.84	170.83
25	161.53	159.80	159.15	158.85	158.71	157.39	156.93	161.96	165.16	169.74	171.53	170.35
EOM	161.09	159.72	158.91	158.89	158.84	157.25	157.10	162.68	168.37	170.67	173.74	169.99

JUAB COUNTY

393143111523301. LOCAL NUMBER, (C-15-1)12aba-1.
LOCATION.--Lat 39°31'43", long 111°52'33", Hydrologic Unit 16030005.
Owner: R. C. Mangelson.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled stock artesian well, diameter 6 in., depth 117 ft, cased to 117 ft.
DATUM.--Land-surface datum is 5,196.90 ft above mean sea level. Measuring point: Top of casing, 1.50 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--August 1935 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 29.44 ft below land-surface datum, Sept. 23, 30, 1984; lowest, 62.16 ft below land-surface datum, June 20, 1936.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	41.35	40.43	39.40	38.59	37.27	36.70	36.17	35.13	34.01	32.58	30.86	29.76
10	41.90	40.27	39.25	38.40	36.87	36.64	36.02	34.94	33.77	32.38	30.69	29.57
15	40.45	40.18	39.06	38.19	36.97	36.55	35.86	34.76	33.54	32.17	30.55	29.54
20	40.05	39.82	38.99	38.94	36.92	36.55	35.70	34.43	33.21	31.93	30.58	29.46
25	40.24	39.70	38.93	37.73	36.73	36.50	35.50	34.34	32.98	31.31	30.10	29.48
EOM	40.36	39.67	38.76	37.49	36.74	36.32	35.32	34.23	32.78	31.15	29.88	29.44

MILLARD COUNTY

395046112231301. LOCAL NUMBER, (C-15-5)15dad-1.
LOCATION.--Lat 39°30'46", long 112°23'13", Hydrologic Unit 16030005.
Owner: Anaconda Copper Co.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 1,190 ft, cased to 1,115 ft, perforated 860-1,050 ft.
DATUM.--Land-surface datum is 4,780 ft above mean sea level. Measuring point: Top of 12-in. casing, 2.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--January 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 100.34 ft below land-surface datum, June 10, 1984; lowest, 174.62 ft below land-surface datum, Aug. 24, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	103.38	103.30	103.06	102.57	102.09	101.86	101.35	101.20	100.52	100.60	100.48	100.70
10	103.46	103.26	103.02	102.51	101.89	101.84	101.33	101.12	100.34	100.79	100.68	100.75
15	103.39	103.22	102.84	102.38	102.09	101.63	101.30	100.84	100.47	100.84	100.87	100.85
20	103.40	103.18	102.75	102.05	102.00	101.59	101.11	100.83	100.42	100.88	100.71	100.73
25	103.40	103.14	102.68	102.02	101.82	101.57	101.16	100.79	100.63	100.76	100.78	101.00
EOM	103.35	103.10	102.77	102.15	101.91	101.44	101.09	100.49	100.70	100.61	100.80	100.84

395020112362201. LOCAL NUMBER, (C-15-7)23bac-1.
LOCATION.--Lat 39°30'20", long 112°36'22", Hydrologic Unit 16030007.
Owner: U.S. Geological Survey.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 182 ft.
DATUM.--Land-surface datum is 4,629 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--August 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.37 ft below land-surface datum, May 15, 1984; lowest, 15.91 ft below land-surface datum, Oct. 16, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.06	10.76	10.30	10.06	9.87	9.75	9.53	9.45	9.52	9.79	9.94	9.94
10	11.02	10.66	10.24	10.00	9.75	9.72	9.51	9.38	9.52	9.82	9.96	9.92
15	10.93	10.62	10.19	9.92	9.78	9.62	9.50	9.37	9.60	9.91	9.96	9.97
20	10.93	10.40	10.13	9.95	9.79	9.57	9.48	9.45	9.63	9.95	9.95	9.95
25	10.95	10.33	10.09	9.91	9.74	9.57	9.47	9.50	9.72	9.94	9.97	9.97
EOM	10.82	10.35	10.09	9.89	9.76	9.55	9.46	9.54	9.75	9.92	9.93	9.88

390758113565501. LOCAL NUMBER, (C-19-19)26aba-1.
LOCATION.--Lat 39°07'58", long 113°56'55", Hydrologic Unit 16020301.
Owner: Eskdale town.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth unknown.
DATUM.--Land-surface datum is 4,948 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--April 1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.24 ft below land-surface datum, Apr. 5, 1977; lowest, 20.81 ft below land-surface datum, Sept. 21-24, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.75	18.26	17.86	17.52	17.14	17.01	16.80	16.77	17.19	17.62	17.70	17.42
10	18.70	18.17	17.79	17.46	17.13	16.98	16.77	16.85	17.23	17.69	17.69	17.42
15	18.60	18.11	17.73	17.42	17.10	16.94	16.76	16.93	17.31	17.71	17.65	17.41
20	18.52	18.02	17.67	17.29	17.10	16.92	16.72	17.01	17.38	17.68	17.60	17.36
25	18.45	17.97	17.62	17.25	17.07	16.87	16.70	17.08	17.46	17.68	17.53	17.31
EOM	18.34	17.91	17.58	17.19	17.04	16.83	16.73	17.13	17.55	17.68	17.45	17.25

MILLARD COUNTY--Continued

385844112245801. LOCAL NUMBER, (C-21-5)21aba-1.
LOCATION.--Lat 38°58'44", long 112°24'58", Hydrologic Unit 16030005.
Owner: Delbert Crapo.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 246 ft, cased to 220 ft.
DATUM.--Land-surface datum is 4,744.44 ft above mean sea level. Measuring point: Top of casing, 0.50 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--May 1929 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.96 ft above land-surface datum, Feb. 24, 1949; lowest, 83.02 ft below land-surface datum, July 20, 1965.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	29.26	25.43	23.09	21.61	20.50	19.56	18.11	17.86	19.19	18.64	8.66	8.54
10	28.60	24.74	22.62	21.38	20.17	19.00	17.81	18.79	15.55	18.72	10.69	6.96
15	27.93	24.36	22.42	21.24	20.20	19.03	17.67	18.02	14.15	16.59	11.29	6.49
20	27.28	23.69	22.12	21.03	20.01	18.73	17.31	18.60	13.74	16.83	10.16	5.57
25	26.74	23.39	21.93	20.73	19.72	18.31	17.58	21.12	15.82	12.63	10.94	4.29
EOM	25.94	23.37	21.85	20.53	19.67	18.31	17.96	20.85	18.31	10.62	10.21	4.26

SALT LAKE COUNTY

404403111562001. LOCAL NUMBER, (C-1-1)15bdd-11.
LOCATION.--Lat 40°44'03", long 111°56'20", Hydrologic Unit 16020204.
Owner: Souvall Brothers.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Jetted artesian well, diameter 2 in., depth 455 ft.
DATUM.--Land-surface datum is 4,230 ft above mean sea level. Measuring point: Bottom of recorder shelter, 0.50 ft above land-surface datum.
REMARKS.--Record fair.
PERIOD OF RECORD.--December 1956 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 24.00 ft above land-surface datum, May 25, 1973; lowest, 8.00 ft above land-surface datum, Sept. 20, 1964, July 20, 25, 1970, Aug. 10, 15, 1970.

WATER LEVEL, IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.80	15.60	14.00	14.00	14.60	12.20	14.00	15.80	16.90	16.50	12.00	11.50
10	15.80	15.40	14.50	14.50	14.70	12.80	14.30	16.30	16.50	16.30	11.00	11.50
15	15.80	15.30	14.00	14.30	14.00	12.60	14.50	16.50	16.90	16.00	10.00	11.60
20	15.70	14.90	14.30	14.50	13.50	13.00	14.80	16.80	16.70	15.00	10.60	11.70
25	15.70	14.90	14.00	14.60	13.00	12.90	15.50	17.00	16.60	14.00	11.00	12.00
EOM	15.70	14.40	14.00	14.50	12.50	13.50	15.50	16.50	16.50	13.00	11.50	12.20

403916111575901. LOCAL NUMBER, (C-2-1)9ccc-1.
LOCATION.--Lat 40°39'16", long 111°57'59", Hydrologic Unit 16020204.
Owner: Salt Lake County Conservancy District.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled artesian unused public supply well, diameter 16 in., depth 795 ft, perforated 187-372 ft.
DATUM.--Land-surface datum is 4,461 ft above mean sea level. Measuring point: Top of casing, 2.10 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--April 1966 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 49.75 ft below land-surface datum, Oct. 25, 1971; lowest, 86.80 ft below land-surface datum, July 25, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	83.90	83.07	82.32	83.41	82.98	81.67	82.18	81.98	82.48	78.99	75.85	78.79
10	83.95	83.05	82.56	83.62	82.65	81.93	81.92	81.84	82.44	77.70	77.24	79.19
15	83.37	82.68	82.75	83.77	81.90	82.08	81.47	81.22	81.93	76.62	78.33	79.75
20	83.22	82.22	82.87	83.91	81.83	81.64	81.38	81.36	81.50	75.62	78.50	80.07
25	83.11	81.67	83.01	83.90	81.70	81.87	81.61	81.46	81.14	74.76	78.68	80.31
EOM	83.01	81.95	83.18	83.49	81.45	82.18	81.97	82.13	80.50	74.57	78.40	80.56

SALT LAKE COUNTY--Continued

402713111545801. LOCAL NUMBER, (C-4-1)23dbd-1.
LOCATION.--Lat 40°27'13", long 111°54'58", Hydrologic Unit 16020204.
Owner: Metropolitan Water District.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 152 ft, perforated 74-83, 97-102, 112-119 ft.
DATUM.--Land-surface datum is 4494.7 ft above mean sea level. Measuring point: Top of casing 3.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--January 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 41.49 ft below land-surface datum, May 20, 1984; lowest, 50.06 ft below land-surface datum, May 10, 1964.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	43.58	42.74	42.46	41.85	42.00	42.20	42.05	41.88	41.56	41.73	42.70	43.41
10	43.59	42.75	42.36	41.77	42.11	42.15	42.00	41.87	41.56	41.90	42.80	43.49
15	43.55	42.76	42.27	41.71	42.20	42.15	42.00	41.50	41.56	42.17	42.92	43.51
20	43.43	42.71	42.26	41.70	42.26	42.10	41.97	41.49	41.56	42.30	42.96	43.56
25	43.02	42.56	41.82	41.80	42.25	42.10	42.04	41.58	41.56	42.42	43.15	43.57
EOM	42.80	42.59	41.83	41.90	42.20	42.05	41.90	41.56	41.56	42.61	43.27	43.55

404531111510101. LOCAL NUMBER, (D-1-1)4cbc-1.
LOCATION.--Lat 40°45'31", long 111°51'01", Hydrologic Unit 16020204.
Owner: University of Utah.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled artesian well, diameter 20 in, depth 500 ft, cased to 138 ft.
DATUM.--Land-surface datum is 4,606.34 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--January 1980 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 99.14 ft below land-surface datum, Sept. 26, 27, 1982; lowest, 168.73 ft below land-surface datum, Oct. 11, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	149.01	142.21	137.05	133.59	131.25	130.20	129.64	129.18	136.04	138.44	137.85	138.83
10	148.12	141.29	136.56	133.25	131.02	130.13	129.50	131.01	134.51	139.36	137.04	135.88
15	146.82	140.30	135.91	132.78	130.86	130.07	129.36	132.72	137.43	137.42	139.35	135.04
20	145.61	139.27	135.02	132.84	130.47	129.95	129.68	134.82	137.04	139.94	136.40	135.62
25	144.50	138.43	134.38	132.33	130.31	129.47	129.45	135.18	137.31	138.77	135.70	134.27
EOM	142.92	137.95	134.08	131.74	130.32	129.49	129.23	135.61	138.56	138.44	138.07	133.71

404356111503901. LOCAL NUMBER, (D-1-1)16caa-1.
LOCATION.--Lat 40°43'56", long 111°50'39", Hydrologic Unit 16020204.
Owner: Salt Lake City Corporation.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 20 in., depth 502 ft, cased to 502 ft, perforated 90-486 ft.
DATUM.--Land-surface datum is 4,489.69 ft above mean sea level. Measuring point: Top of casing, at land-surface datum.
REMARKS.-- Record good.
PERIOD OF RECORD.--September 1934 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 47.32 ft below land-surface datum, Jun. 19-22, 1984; lowest, 70.65 ft below land-surface datum, Apr. 29, 1935.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	49.32	49.53	49.86	50.09	50.24	50.42	50.24	48.98	47.54	47.33	47.39	47.70
10	49.36	49.57	49.88	50.10	50.28	50.48	49.95	48.58	47.43	47.33	47.45	47.75
15	49.38	49.64	49.91	50.12	50.30	50.48	49.79	48.19	47.39	47.33	47.49	47.80
20	49.42	49.64	49.95	50.16	50.35	50.49	49.46	47.99	47.32	47.33	47.52	47.85
25	49.48	49.69	50.00	50.17	50.34	50.48	49.33	47.85	47.33	47.33	47.54	47.90
EOM	49.50	49.79	50.07	50.19	50.37	50.37	49.31	47.68	47.33	47.37	47.65	47.95

SALT LAKE COUNTY--Continued

403452111484301. LOCAL NUMBER, (D-3-1)2ccc-1.
LOCATION.--Lat 40°34'52", long 111°48'43", Hydrologic Unit 16020204.
Owner: Metropolitan Water District.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 24 in., depth 1,007 ft, perforated 525-990 ft.
DATUM.--Land-surface datum is 5,000 ft above mean sea level. Measuring point: Top of flange, at land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--March 1956 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 515.66 ft below land-surface datum, Nov. 25, 1958; lowest, 564.51 ft below land-surface datum, Oct. 1, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	549.41	545.48	542.25	540.37	538.66	537.66	536.64	536.45	540.68	545.79	549.40	550.53
10	548.79	544.72	541.56	540.05	537.98	537.45	536.62	536.45	540.96	546.46	550.11	550.24
15	547.92	544.29	541.08	539.89	538.20	537.07	536.88	536.56	541.83	547.08	550.67	550.21
20	547.34	543.19	540.61	539.71	538.16	536.97	536.41	537.61	542.65	547.88	550.36	550.06
25	547.06	542.81	540.49	539.24	537.66	536.76	536.31	538.83	543.84	548.38	550.22	549.52
EOM	546.16	542.56	540.57	538.89	537.74	536.65	536.62	540.28	544.86	549.15	550.23	548.87

403330111531601. LOCAL NUMBER, (D-3-1)18cba-1.
LOCATION.--Lat 40°33'30", long 111°53'16", Hydrologic Unit 16020204.
Owner: Sandy City Corporation.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 16 in. to 350 ft, 12 in. from 350-741 ft, 10 in. from 741-1,150 ft, perforated 400-1,150 ft.
DATUM.--Land-surface datum is 4,414 ft above mean sea level. Measuring point: Top of casing, 1.15 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--July 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 67.87 ft below land-surface datum, Apr. 10, 1973; lowest, 83.20 ft below land-surface datum, Aug. 6, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	74.26	72.13	70.85	70.90	70.44	70.43	70.16	70.09	73.74	76.38	76.42	76.18
10	74.26	71.67	70.63	70.86	70.31	70.35	70.16	70.19	73.05	75.60	77.30	75.54
15	73.84	71.47	70.48	70.80	70.41	70.15	70.28	70.62	73.63	76.01	77.09	75.66
20	73.47	71.07	70.49	70.79	70.47	70.08	70.17	71.78	74.51	76.93	75.37	75.66
25	73.15	70.91	70.63	70.66	70.37	70.07	70.17	73.59	75.52	76.37	75.29	74.22
EOM	72.75	70.96	70.92	70.48	70.44	70.17	70.16	74.61	76.20	76.76	75.77	73.83

SAN JUAN COUNTY

375802109191301. LOCAL NUMBER, (D-33-24)30dab-1.
LOCATION.--Lat 38°58'02", long 109°19'13", Hydrologic Unit 14080203.
Owner: A. E. C.
AQUIFER.--Sandstone.
WELL CHARACTERISTICS.--Drilled unused well, diameter 10 in., depth 319 ft.
DATUM.--Land-surface datum is 6,916 ft above mean sea level. Measuring Point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--July 1955 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 163.20 ft below land-surface datum, May 20, 1975; lowest, 202.89 ft below land-surface datum, July 25, 1958.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	166.35	166.10	165.49	165.35	165.21	165.07	164.54	164.26	164.61	165.18	165.86	166.31
10	166.30	166.12	165.47	165.33	165.18	164.94	164.42	164.42	164.62	165.25	165.91	166.04
15	166.11	166.17	165.45	165.31	165.16	164.83	164.81	164.44	164.94	165.47	166.10	166.25
20	166.18	165.53	165.43	165.28	165.14	164.82	164.16	164.43	165.07	165.47	166.07	166.05
25	166.40	165.54	165.40	165.26	165.11	164.62	164.08	164.52	165.20	165.71	166.11	166.20
EOM	166.21	165.52	165.38	165.23	165.09	164.51	164.48	164.80	165.14	165.71	166.11	166.14

SAN JUAN COUNTY--Continued

373830109283201. LOCAL NUMBER, (D-36-22)22daa-1.
LOCATION.--Lat 37°38'30", long 109°28'32", Hydrologic Unit 14080201.
Owner: Joseph L. Nielson.
AQUIFER.--
WELL CHARACTERISTICS.--Drilled stock artesian well, diameter 7 in., depth 140 ft.
DATUM.--Land-surface datum is 6,200 ft above mean sea level. Measuring point: Top of recorder platform, 3.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--October 1960 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 40.24 ft below land-surface datum, Sep. 21, 1984; lowest, 57.23 ft below land-surface datum, Oct. 20, 1960.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	42.22	42.17	42.11	42.58	42.73	42.75	42.77	42.55	41.10	40.59	40.58	40.58
10	42.16	42.27	42.16	42.60	42.26	42.83	42.68	42.54	41.06	40.55	40.60	40.33
15	42.02	42.37	42.03	42.49	42.52	42.78	43.05	42.25	41.01	40.62	40.68	40.63
20	42.12	41.68	41.88	42.58	42.87	42.87	42.50	42.00	40.96	40.40	40.56	40.39
25	42.41	41.70	42.28	42.54	42.40	42.69	42.42	41.73	40.92	40.57	40.54	40.65
EOM	42.20	42.17	42.63	42.72	42.78	42.65	42.89	41.45	40.68	40.51	40.38	40.66

TOOELE COUNTY

403628112174701. LOCAL NUMBER, (C-2-4)33aac-1.
LOCATION.--Lat 40°36'28", long 112°17'47", Hydrologic Unit 16020304.
Owner: J. E. England.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Jetted unused observation artesian well, diameter 4 in., depth 182 ft.
DATUM.--Land-surface datum is 4,393.88 ft above mean sea level. Measuring point: Top of casing, at land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--October 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.60 ft above land-surface datum, Sep. 30, 1984; lowest, 25.44 ft below land-surface datum, July 20, 1968.

DEPTH BELOW AND ABOVE (-) LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.53	8.87	7.72	6.49	5.33	4.21	2.88	1.86	2.09	2.74	.61	-0.10
10	10.23	8.84	7.44	6.23	4.96	4.01	2.74	1.69	1.81	2.70	.53	-0.20
15	9.99	8.58	7.21	6.13	4.93	3.74	2.68	1.50	1.65	2.37	.50	-0.30
20	9.82	8.19	7.04	5.99	4.74	3.44	2.37	1.59	1.92	1.81	.15	-0.40
25	9.69	8.01	6.98	5.76	4.47	3.20	2.18	2.17	2.07	1.20	.10	-0.50
EOM	9.10	7.86	6.74	5.50	4.36	3.00	2.10	2.27	2.87	.61	.00	-0.60

403539112282901. LOCAL NUMBER, (C-2-6)36dcc-1.
LOCATION.--Lat 40°35'39", long 112°28'29", Hydrologic Unit 16020304.
Owner: E. C. Walk.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 176 ft, cased to 166 ft.
DATUM.--Land-surface datum is 4,373.70 ft above mean sea level. Measuring point: Top of casing, at land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--June 1940 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 72.82 ft below land-surface datum, June 11, 1952; lowest, 98.81 ft below land-surface datum, Oct. 7, 1961.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	82.32	81.90	81.61	81.53	81.24	80.94	80.43	78.33	76.93	77.86	78.40	78.99
10	82.22	81.80	81.54	81.39	81.00	80.90	80.37	77.54	76.70	78.08	78.70	78.90
15	82.30	81.70	81.62	81.45	81.06	80.80	80.40	76.76	76.84	78.36	78.74	79.19
20	82.20	81.60	81.70	81.39	80.95	80.74	80.21	76.85	76.98	78.30	78.61	79.27
25	82.10	81.50	81.63	81.28	80.87	80.59	79.65	77.04	77.17	78.70	78.70	79.22
EOM	82.00	81.52	81.63	81.28	80.94	80.50	79.03	77.24	77.62	78.44	78.90	79.04

TOOELE COUNTY--Continued

401312112442301. LOCAL NUMBER, (C-7-8)10cbd-1.
LOCATION.--Lat 40°13'12", long 112°44'23", Hydrologic Unit 16020305.
Owner: Dugway Proving Gound.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 175 ft, cased to 175 ft, perforated 115-175 ft.
DATUM.--Land-surface datum is 4,850 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--November 1946 to March 1947, January 1951 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 73.32 ft below land-surface datum, Jan. 26, 1951; lowest, 93.67 ft below land-surface datum, Oct. 15, 1966.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	80.98	80.66	80.42	80.13	79.83	79.63	79.18	79.01	79.02	79.09	79.27	79.22
10	81.00	80.52	80.38	80.08	79.78	79.56	79.14	79.05	78.97	79.21	79.33	79.11
15	80.93	80.52	80.33	80.03	79.73	79.46	79.20	78.98	79.04	79.29	79.41	79.20
20	80.85	80.34	80.28	79.98	79.65	79.38	79.13	78.95	78.95	79.26	79.33	79.08
25	80.86	80.35	80.23	79.93	79.63	79.26	79.04	79.08	79.03	79.33	79.31	79.17
EOM	80.71	80.35	80.18	79.88	79.64	79.21	79.07	78.97	79.11	79.27	79.20	78.97

UINTAH COUNTY

403158109372201. LOCAL NUMBER, (D-3-20)25abc-2.
LOCATION.--Lat 40°31'58", long 109°37'22", Hydrologic Unit 14060002.
Owner: H. T. Peltier.
AQUIFER.--Glacial outwash.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 12 in., depth 43 ft, cased to 32 ft.
DATUM.--Land-surface datum is 5,992 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--May 1965 to August 1966, March 1972 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.97 ft below land-surface datum, July 5, 1966; lowest, 7.50 ft below land-surface datum, Sept. 5, 1974.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.21	6.47	6.18	6.21	6.27	6.22	5.62	6.02	6.06	5.98	5.72	5.67
10	6.34	6.27	6.19	6.26	6.27	6.16	5.73	6.22	5.71	5.86	5.77	5.83
15	6.25	6.26	6.22	6.27	6.24	5.68	5.90	6.11	5.90	5.83	5.85	5.67
20	6.42	6.30	6.25	6.24	6.19	4.94	5.95	5.99	5.94	5.96	5.43	5.77
25	6.51	6.25	6.27	6.25	6.21	4.96	5.98	5.87	5.97	5.82	5.33	5.60
EOM	6.50	6.25	6.21	6.23	6.22	5.43	6.01	6.19	5.87	5.65	5.59	5.80

UTAH COUNTY

401818112014501. LOCAL NUMBER, (C-6-2)14aba-1.
LOCATION.--Lat 40°18'18", long 112°01'45", Hydrologic Unit 16020201.
Owner: Coop Security Corp.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused irrigation artesian well, diameter 16 in., depth 1,258 ft, cased to 1,254 ft.
DATUM.--Land-surface datum is 4,865.70 ft above mean sea level. Measuring point: Top of casing, at land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--December 1954 to April 1955, March 1963 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 109.06 ft below land-surface datum, Apr. 12, 1955; lowest, 141.41 ft below land-surface datum, Aug. 15, 1965.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	117.23	116.73	116.29	116.36	116.23	116.04	115.76	115.75	115.90	116.43	116.49	116.15
10	117.20	116.69	116.36	116.28	116.09	115.98	115.80	115.72	115.91	116.47	116.47	116.15
15	117.11	116.63	116.36	116.16	116.05	115.89	115.80	115.90	116.14	116.49	116.39	116.48
20	117.00	116.43	116.31	116.24	116.14	115.97	115.68	116.05	116.31	116.50	115.74	116.45
25	116.97	116.40	116.32	116.22	116.01	115.88	115.70	116.10	116.45	116.56	115.74	116.45
EOM	116.83	116.42	116.30	116.25	116.04	115.78	115.72	116.00	116.41	116.55	116.15	116.52

UTAH COUNTY--Continued

402333111513401. LOCAL NUMBER, (D-5-1)8dcc-1.
LOCATION.--Lat 40°23'33", long 111°51'34", Hydrologic Unit 16020201.
Owner: Lehi Irrigation Co.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused irrigation artesian well, diameter 14 in., depth 240 ft, cased to 240 ft, perforated at 85, 105, 165, and 200 ft.
DATUM.--Land-surface datum is 4,555.03 ft above mean sea level. Measuring point: Top of recorder platform, 3.50 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--September 1935 to December 1936, April 1947, March 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.07 ft above land-surface datum, Apr. 10, 1984, 1983; lowest, 35.29 ft below land-surface datum, Aug. 31, 1963.

DEPTH BELOW AND ABOVE (-) LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.25	.54	-0.94	-0.67	-0.64	-1.08	-2.03	-1.88	5.68	7.32	5.64	4.54
10	1.88	-0.27	-0.68	-0.70	-0.79	-1.22	-2.07	-1.31	2.75	6.56	4.19	5.17
15	1.18	-0.60	-0.87	-1.05	-1.10	-1.53	-1.97	.99	3.47	6.23	4.37	3.64
20	.83	-1.01	-0.96	-0.87	-1.05	-1.75	-1.55	3.42	5.40	8.43	5.47	4.30
25	.96	-0.88	-0.75	-0.80	-1.25	-1.92	-1.75	5.76	6.02	6.04	4.21	2.22
EOM	.95	-0.74	-0.61	-0.90	-1.04	-1.97	-1.81	7.23	7.56	5.74	4.77	1.46

WASHINGTON COUNTY

371415113471501. LOCAL NUMBER, (C-41-17)7ada-1.
LOCATION.--Lat 37°14'15", long 113°47'15", Hydrologic Unit 15010008.
Owner: St. George City.
AQUIFER.--Navajo Sandstone.
WELL CHARACTERISTICS.--Diameter 12 in., depth 375 ft, cased to 203 ft.
DATUM.--Land-surface datum is 3,600 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--March 1971 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 209.79 ft below land-surface datum, Jan 20, 1974; lowest, 231.47 ft below land-surface datum, Sept. 27, 28, 29, 1984.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	228.21	229.19	228.06	225.59	224.58	225.57	226.88	227.38	228.90	229.97	230.62	231.01
10	228.20	229.28	227.50	225.36	224.44	225.75	227.11	227.58	229.13	230.16	230.67	231.06
15	228.19	229.22	227.21	225.37	224.86	225.84	227.14	227.81	229.55	230.29	230.72	231.23
20	228.29	228.67	226.74	225.05	224.88	226.20	227.21	228.08	229.70	230.31	230.77	231.11
25	228.85	228.42	226.45	224.67	224.82	226.41	226.88	228.35	229.82	230.43	230.89	231.46
EOM	229.06	228.20	226.04	224.56	225.06	226.67	227.26	228.63	229.93	230.52	230.90	231.32

WEBER COUNTY

411544111461001. LOCAL NUMBER, (A-6-2)18bad-1.
LOCATION.--Lat 41°15'44", long 111°46'10", Hydrologic Unit 16020102.
Owner: U.S. Bureau of Reclamation.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 in., depth 155 ft, perforated 105-115 ft, 125-145 ft.
DATUM.--Land-surface datum is 4,924 ft above mean sea level. Measuring point: Top of casing, 2.00 ft above land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--January 1956 to March 1966, October 1968 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.01 ft below land-surface datum, June 20, 1982; lowest, 34.96 ft below land-surface datum, Nov. 30, 1956.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.98	14.11	16.95	20.33	24.31	25.45	25.79	20.70	9.70	10.73	11.64	15.85
10	15.45	13.87	17.07	22.43	24.32	26.06	25.23	20.09	8.37	9.97	13.45	14.05
15	14.71	13.81	16.44	23.06	24.32	26.46	24.67	18.65	8.03	11.19	13.32	14.91
20	15.08	13.85	17.07	23.74	24.32	25.87	22.77	16.90	8.99	12.67	13.64	15.10
25	14.79	14.11	17.90	24.31	25.82	26.05	21.40	15.58	9.22	9.65	14.74	15.72
EOM	14.90	14.44	19.26	24.31	26.13	25.95	21.12	14.93	10.35	11.65	15.17	16.87

411348112013601. LOCAL NUMBER, (B-6-2)26ada-1.
LOCATION.--Lat 41°13'48", long 112°01'36", Hydrologic Unit 16020102.
Owner: Amalgamated Sugar Company.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 16 in., depth 595 ft, cased to 400 ft.
DATUM.--Land-surface datum is 4,275 ft above mean sea level. Measuring point: Top of casing, 0.10 ft below land-surface datum.
REMARKS.--Record good.
PERIOD OF RECORD.--August 1935 to December 1950, January 1953 to October 1961, February 1963 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 20.50 ft above land-surface datum, Mar. 11, 1937; lowest, 11.38 below land-surface datum, Sept. 10, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.76	5.33	3.81	2.75	1.35	1.34	2.26	1.62	2.40	2.93	3.72	3.62
10	6.69	5.05	3.58	2.60	1.05	1.57	2.24	1.52	2.48	3.20	3.61	3.61
15	6.50	4.78	3.32	2.40	.86	1.72	2.32	1.33	2.46	3.56	3.62	3.63
20	6.19	4.52	3.09	2.13	.78	1.95	2.10	1.41	2.42	3.83	3.63	3.64
25	5.93	4.30	2.82	1.82	.85	2.07	1.95	1.74	2.43	4.10	3.59	3.57
EOM	5.58	4.05	2.62	1.56	1.09	2.18	1.86	2.15	2.52	3.97	3.57	3.30

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
				BEAVER COUNTY							
383101112365301	(C-26- 7)26CAC- 1		--	84-09-04	600	--	15.0	--	--	--	--
382336112592601	(C-28-10) 8ADD- 2		185	84-07-12	1240	--	15.5	--	--	--	--
382204113001302	(C-28-10)17CDC- 2	100VLFL	220	84-07-11	910	--	26.5	--	--	--	--
382313113021901	(C-28-11)12DBC- 1	100VLFL	--	84-07-12	1900	7.3	17.5	660	480	170	58
382020113015701	(C-28-11)25DCD- 1	100VLFL	431	84-07-13	1790	--	17.0	--	--	--	--
		100VLFL	431	84-08-15	1930	6.9	16.5	920	700	270	59
381516112422201	(C-29- 8)25CAC- 1	100VLFL	250	84-08-15	335	--	20.0	--	--	--	--
381835113000001	(C-29-10) 5CDD- 5	100VLFL	295	84-07-13	930	--	14.5	--	--	--	--
381714113003401	(C-29-10)18DAA- 1	100VLFL	298	84-09-04	530	--	13.5	--	--	--	--
381901113014101	(C-29-11) 1ADD- 2	100VLFL	200	84-09-04	900	--	16.0	--	--	--	--
381700113033401	(C-29-11)14CDB- 1	100VLFL	--	84-08-15	480	--	18.5	--	--	--	--
		100VLFL	--	84-08-16	475	--	18.0	--	--	--	--
381543113035501	(C-29-11)27AAD- 1	100VLFL	204	84-08-15	960	--	15.5	--	--	--	--
		100VLFL	204	84-07-12	920	--	15.0	--	--	--	--
				BOX ELDER COUNTY							
412214112023301	(B- 7- 2) 2CBA- 5	100VLFL	342	84-08-14	420	7.7	13.5	180	24	58	9.2
412405112022501	(B- 8- 2)26BCD- 1	100VLFL	118	84-08-14	490	7.2	13.0	230	32	62	18
413057112023901	(B- 9- 2)15DAA- 1	100VLFL	465	84-08-14	650	8.2	17.0	9	--	2.1	0.9
413452113544401	(B-10-18)21ABA- 1	100VLFL	--	84-07-31	1160	--	10.5	--	--	--	--
413300113543001	(B-10-18)33AAA- 1		84	84-07-31	1400	7.5	12.0	520	250	150	35
413240113543801	(B-10-18)33ADC- 1	100VLFL	94	84-07-31	1600	--	12.5	--	--	--	--
414313112172501	(B-11- 4) 3BAC- 1		--	84-06-27	2000	--	15.5	--	--	--	--
414618112164101	(B-12- 4)14CBC- 1		--	84-06-27	1290	--	17.0	--	--	--	--
414454112173101	(B-12- 4)27DBD- 1		478	84-06-28	1560	7.7	16.5	420	220	93	46
414406112173601	(B-12- 4)34BBD- 1	100VLFL	306	84-06-27	2300	--	16.5	--	--	--	--
		100VLFL	306	84-06-28	--	7.5	16.5	770	590	170	84
414339112173401	(B-12- 4)34CCA- 1	100VLFL	292	84-06-28	1730	7.5	16.5	530	340	120	56
414418112154801	(B-12- 4)35AAB- 1		--	84-06-27	2120	--	15.5	--	--	--	--
414745113063901	(B-12-11) 4BCC- 1	100VLFL	230	84-07-10	3400	7.6	17.0	850	690	190	92
414813113075401	(B-12-11) 5BBB- 1	100VLFL	240	84-07-10	1970	7.4	15.0	760	550	210	58
414747113073701	(B-12-11) 5BDC- 1		190	84-07-10	2900	7.7	14.0	1100	900	330	76
414811113081701	(B-12-11) 6ABA- 1		--	84-08-08	860	--	16.5	--	--	--	--
414720113071601	(B-12-11) 8ABB- 1		--	84-07-10	2480	--	14.5	--	--	--	--
415009112380801	(B-13- 7)27ADD- 1		450	84-06-28	--	--	15.0	--	--	--	--
414858113121901	(B-13-12)34BAC- 1		--	84-08-08	910	--	16.5	--	--	--	--
415833112145001	(B-14- 4) 1DAD- 1		212	84-07-24	910	--	15.0	--	--	--	--
415721112262301	(B-14- 5) 8DDD- 1		105	84-06-28	831	7.5	13.5	290	9	92	15
415800112525301	(B-14- 9) 4CCC- 1	100VLFL	360	84-08-07	3520	--	21.5	--	--	--	--
415759112534701	(B-14- 9) 5CCD- 1	100VLFL	400	84-07-23	3090	--	17.5	--	--	--	--
415754112551301	(B-14- 9) 7BBB- 1		608	84-07-09	840	--	19.0	--	--	--	--
415845112562201	(B-14-10) 1BBB- 1	100VLFL	420	84-07-09	560	7.7	16.5	210	58	58	16
415726112573301	(B-14-10)11CBB- 1		--	84-08-08	980	--	18.0	--	--	--	--
415850112481201	(B-15- 8)31CCC- 1		400	84-07-23	1440	7.5	20.0	--	--	--	--
415956112525201	(B-15- 9)28CBC- 1	100VLFL	400	84-08-07	6300	6.9	25.0	--	--	--	--
415847112545301	(B-15- 9)31CDC- 1		--	84-07-23	760	--	21.5	--	--	--	--
415939112562201	(B-15-10)36BBB- 1	100VLFL	613	84-07-09	480	--	17.0	--	--	--	--
				CACHE COUNTY							
414216111511001	(A-11- 1) 8DDA- 3	100VLFL	85	84-07-30	575	7.6	9.0	270	24	67	26
415020111520401	(A-13- 1)29BCD- 1	100VLFL	334	84-07-30	480	7.8	12.0	200	--	43	23
				DAVIS COUNTY							
405535111525101	(A- 2- 1) 7ABA- 4	100VLFL	450	84-08-16	290	--	19.5	--	--	--	--
405451111540801	(B- 2- 1)24BAD- 3	100VLFL	386	84-08-17	490	7.6	16.5	120	--	35	7.6
410340112030001	(B- 4- 2)27ABA- 1	100VLFL	304	84-08-15	650	7.9	14.0	51	--	13	4.4
410830111584001	(B- 5- 1)29BDC- 1		627	84-07-26	570	--	11.5	--	--	--	--
			627	84-09-19	600	7.3	11.0	260	4	71	19

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
110ALVM - QUATERNARY ALLUVIUM, QUATERNARY AGE.
112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.

DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	ALKA-LINITY (CACO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS (P) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED BORON (B) (UG/L)
					BEAVER COUNTY							
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150	21	--	270	380	2.1	53	1210	2.4	0.07	50	70	360
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82	8.9	--	580	210	0.3	42	1380	2.7	0.02	8.00	<1	160
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					BOX ELDER COUNTY							
11	1.4	--	17	18	<0.1	12	222	1.6	0.03	20	10	20.00
7.8	2.1	--	36	9.6	0.1	11	267	<0.1	0.05	2100	290	30.00
160	1.6	--	17	13	0.7	17	398	<0.1	1.70	200	12	250
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80	8.4	--	120	240	0.3	44	836	1.0	0.03	40	3	170
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150	3.8	--	67	360	0.2	25	863	2.3	0.01	9.00	2	60.00
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180	4.8	--	190	550	0.2	23	1510	3.4	<0.01	20	10	80.00
150	4.5	--	120	400	0.2	22	986	2.6	0.01	20	<1	70.00
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330	21	--	41	980	0.3	46	1800	0.75	<0.01	70	<10	250
95	12	--	56	470	0.2	25	1050	5.0	<0.01	60	10	110
140	9.8	--	78	760	0.1	20	1560	5.8	<0.01	50	10	160
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75	1.9	--	28	18	0.1	39	459	29	0.02	10	6	110
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29	8.2	--	21	74	0.3	60	358	0.39	<0.01	9.00	2	50.00
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					CACHE COUNTY							
6.6	1.3	--	24	9.0	0.2	9.3	295	1.3	0.45	7.00	2	30.00
24	1.6	--	15	8.5	0.1	11	256	0.25	0.45	260	56	60.00
					DAVIS COUNTY							
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63	0.9	--	26	30	0.2	17	281	1.8	0.03	6.00	3	30.00
130	5.7	--	5.6	45	0.4	32	405	<0.1	--	280	57	630
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21	2.2	--	26	20	0.1	12	322	0.55	--	<3.00	3	50.00

GEOLOGICAL UNIT (AQUIFER)--CONTINUED

112PVNT - PAVANT FLOW, PLEISTOCENE AGE.
122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.
220JRSC - JURASSIC SYSTEM, JURASSIC AGE.
220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
				DAVIS COUNTY--Continued							
410835111591501	(B- 5- 1)30ADA- 1		900	84-07-26	560	--	12.0	--	--	--	--
			900	84-09-19	570	7.4	11.5	250	15	70	18
				GARFIELD COUNTY							
375924112234001	(C-32- 5)35BAB- 1		456	84-07-10	295	--	14.5	--	--	--	--
				GRAND COUNTY							
383539109340901	(D-25-21)26DCC- 1	112ALVM	22	84-03-14	570	7.7	16.0	280	86	79	19
		112ALVM	55	84-09-20	580	7.6	20.0	270	80	74	20
				IRON COUNTY							
380218112421101	(C-32- 8)12ADB- 1		--	84-08-30	410	7.8	18.0	160	44	47	10
375257112483501	(C-33- 8)31CCC- 2		450	84-08-10	490	--	14.0	--	--	--	--
375320112510001	(C-33- 9)35ACD- 2	100VLFL	500	84-08-30	480	7.5	14.0	230	24	49	25
375151112525002	(C-34- 9) 9BBD- 2	100VLFL	324	84-08-30	920	7.3	17.5	210	--	37	28
375033112561101	(C-34-10)13CBD- 2	100VLFL	--	84-08-30	500	--	13.0	--	--	--	--
374834113384301	(C-34-16)28DCC- 2	100VLFL	148	84-06-18	1040	7.2	12.0	430	290	130	25
374753113464601	(C-34-17)32CCA- 1	100VLFL	--	84-09-06	520	7.5	21.0	180	10	57	8.5
374619113053101	(C-35-11) 9DBA- 1	100VLFL	--	84-08-31	620	7.6	19.0	300	140	60	37
374550113040601	(C-35-11)11CCC- 1		300	84-08-31	860	--	15.5	--	--	--	--
374649113305801	(C-35-15) 3DCC- 3	100VLFL	316	84-09-06	1870	7.3	14.5	730	590	170	74
374623113381301	(C-35-16) 9ADD- 1		150	84-06-18	910	--	12.0	--	--	--	--
374412113384503	(C-35-16)21DCC- 3	100VLFL	300	84-07-06	530	--	14.0	--	--	--	--
374227113394101	(C-35-16)32DCD- 2	100VLFL	140	84-08-27	1150	--	15.0	--	--	--	--
374209113322203	(C-36-15) 4BAD- 3	100VLFL	--	84-09-06	740	7.6	21.0	130	--	41	7.7
374040113343102	(C-36-15) 7CDD- 2	100VLFL	500	84-07-06	1110	7.7	24.0	230	110	59	19
374014113391101	(C-36-16) 9BDC- 2		--	84-07-06	440	--	15.5	--	--	--	--
373854113411501	(C-36-16)19ABB- 1	100VLFL	352	84-07-09	415	--	12.0	--	--	--	--
373710113381201	(C-36-16)27CDC- 1	100VLFL	344	84-07-09	630	--	16.5	--	--	--	--
373656113415201	(C-36-17)36AAD- 1	100VLFL	363	84-07-06	495	--	11.0	--	--	--	--
373542113122401	(C-37-12) 9ACC- 1		--	84-08-31	335	--	16.5	--	--	--	--
373407113100801	(C-37-12)23ACB- 1	100VLFL	300	84-08-31	760	7.7	14.5	340	200	75	36
373234113111601	(C-37-12)34ABB- 1	100VLFL	190	84-08-31	810	7.6	11.0	460	120	120	39
				JUAB COUNTY							
394545111531001	(C-12- 1)24BAA- 1	100VLFL	66	84-08-06	1280	--	13.0	--	--	--	--
394215111530501	(C-13- 1) 1CDD- 1	100VLFL	150	84-08-06	1060	--	11.0	--	--	--	--
394518111515801	(D-12- 1)19DBB- 1	100VLFL	248	84-08-06	1280	--	13.0	--	--	--	--
				KANE COUNTY							
370843112340602	(C-42- 6)19BDC- 2	220NVJO	250	84-06-14	245	--	15.0	--	--	--	--
				MILLARD COUNTY							
391326113595801	(C-18-19)20DAD- 1	100VLFL	100	84-08-01	450	--	12.0	--	--	--	--
390918112195801	(C-19- 4)17CCC- 1		--	84-06-21	510	--	16.0	--	--	--	--
390759112194801	(C-19- 4)29BCD- 1	100VLFL	390	84-06-21	770	--	13.5	330	140	72	37
391145112212801	(C-19- 5) 1ABC- 1		--	84-08-14	670	--	16.0	--	--	--	--
391147112221901	(C-19- 5) 2AAD- 1		--	84-06-22	750	--	15.0	--	--	--	--
391153112232701	(C-19- 5) 3AAA- 1		--	84-08-14	980	--	16.0	--	--	--	--
391134112234601	(C-19- 5) 3ACD- 1	100VLFL	530	84-08-14	1080	--	16.5	--	--	--	--
391039112233301	(C-19- 5)10ADD- 1		--	84-08-14	830	--	18.0	--	--	--	--
391020112215601	(C-19- 5)12CDB- 1		--	84-08-14	570	--	16.0	--	--	--	--
390823112225101	(C-19- 5)26BAA- 1		--	84-08-14	1250	--	16.0	--	--	--	--
390715112213001	(C-19- 5)36ACA- 1	100VLFL	--	84-08-14	1800	--	13.5	--	--	--	--
390614112193101	(C-20- 4) 5CAA- 1		--	84-06-21	1210	--	12.5	--	--	--	--
390628112201401	(C-20- 4) 6ACA- 1	100VLFL	506	84-06-21	3320	--	13.0	1500	1300	350	150
390528112231301	(C-20- 5)11BCA- 1		--	84-06-21	1620	--	18.5	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
110ALVM - QUATERNARY ALLUVIUM, QUATERNARY AGE.
112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.

DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	ALKA-LINITY (CACO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS (P) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED BORON (B) (UG/L)
						DAVIS COUNTY--Continued						
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19	2.1	--	27	18	0.1	12	307	0.97	--	20	7	40.00
						GARFIELD COUNTY						
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						GRAND COUNTY						
18	2.6	--	110	18	0.3	14	.375	1.1	0.02	7.00	2	40.00
18	3.0	--	95	19	0.3	14	355	1.0	0.01	3.00	2	40.00
						IRON COUNTY						
17	6.1	--	21	41	0.2	56	267	1.1	0.01	5.00	3	60.00
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12	3.2	--	23	16	0.2	25	274	3.1	0.02	<3.00	2	40.00
130	3.1	--	88	33	0.2	27	556	5.0	0.02	9.00	2	50.00
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37	8.5	--	93	200	0.6	61	639	1.9	0.03	10	9	90.00
36	9.0	--	79	19	0.6	70	379	0.84	0.02	10	2	180
15	2.9	--	170	8.2	0.4	22	410	0.71	<0.01	10	1	70.00
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110	6.6	--	490	250	0.4	56	1240	1.7	0.03	6.00	8	380
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110	3.6	--	140	48	1.8	53	503	2.0	0.02	6.00	5	290
150	4.8	--	340	46	2.2	43	733	0.32	0.03	9.00	3	460
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37	2.3	--	200	49	<0.1	18	501	1.4	<0.01	5.00	<1	90.00
16	2.5	--	150	9.2	0.2	18	559	1.7	<0.01	3.00	1	90.00
						JUAB COUNTY						
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						KANE COUNTY						
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						MILLARD COUNTY						
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28	2.2	--	24	78	0.2	18	377	6.0	0.01	20	5	190
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180	5.4	--	750	610	0.2	29	2220	5.4	0.01	70	20	290
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GEOLOGICAL UNIT (AQUIFER)--CONTINUED

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.
220JRSC - JURASSIC SYSTEM, JURASSIC AGE.
220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA, MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
				MILLARD COUNTY--Continued							
390523112225001	(C-20- 5)11BDD- 1		--	84-06-21	2110	--	15.5	--	--	--	--
385916112251701	(C-21- 5)16BDC- 1		--	84-06-18	660	--	13.0	--	--	--	--
385916112261403	(C-21- 5)17BDD- 3		--	84-08-13	690	--	14.0	--	--	--	--
385937112270601	(C-21- 5)18ABA- 1	100VLFL	150	84-08-13	1320	--	14.0	--	--	--	--
385853112264901	(C-21- 5)18DDA- 1		--	84-06-18	750	--	15.5	--	--	--	--
385822112264801	(C-21- 5)19ADD- 1		--	84-06-18	1100	--	18.0	--	--	--	--
385843112255701	(C-21- 5)20ABA- 1		--	84-06-18	660	--	13.5	--	--	--	--
385820112261501	(C-21- 5)20BDD- 2		--	84-08-13	730	--	16.0	--	--	--	--
385800112254001	(C-21- 5)20DDA- 1		--	84-08-13	640	--	15.0	--	--	--	--
385828112245501	(C-21- 5)21ACA- 1		--	84-06-18	720	--	12.0	--	--	--	--
385714112264701	(C-21- 5)29CBC- 1	100VLFL	--	84-08-13	--	7.4	20.5	1200	910	310	100
385715112271201	(C-21- 5)30DBC- 3	100VLFL	787	84-08-15	2060	7.2	19.5	730	470	180	68
385657112243201	(C-21- 5)34BBB- 1		--	84-08-15	680	--	--	--	--	--	--
390045112281201	(C-21- 6) 1DDB- 1	112PVNT	105	84-06-20	2310	--	12.5	860	490	190	94
385438112251401	(C-22- 5) 9CAD- 2	100VLFL	527	84-06-19	1310	--	19.5	--	--	--	--
385213112244701	(C-22- 5)28ADA- 1		--	84-08-15	1130	--	15.5	--	--	--	--
385135112250301	(C-22- 5)33ABD- 1	100VLFL	375	84-07-31	930	7.4	13.5	370	180	110	22
384829112315901	(C-23- 6)16CDA- 1	112PVNT	205	84-06-20	2440	--	15.5	820	540	220	66
384751112312201	(C-23- 6)21ADD- 1	100VLFL	--	84-06-20	--	--	13.5	410	220	72	55
384748112315801	(C-23- 6)21BDD- 1	100VLFL	415	84-06-20	--	--	13.0	3500	3300	750	400
				PIUTE COUNTY							
381440111584001	(C-29- 2)35BAD- 1	122BRHD	197	84-07-11	460	7.0	15.5	200	16	55	15
381003112010301	(C-30- 2)28BDC- 1		--	84-07-11	430	--	15.0	--	--	--	--
				SALT LAKE COUNTY							
404659112005601	(B- 1- 2)36BAA- 1	100VLFL	464	84-07-16	5910	7.5	27.5	--	--	--	--
404607112060701	(C- 1- 2) 6AAA- 4	100VLFL	835	84-09-12	3240	--	23.0	--	--	--	--
403408111543201	(C- 3- 1)12CCB- 1	100VLFL	118	84-07-12	950	7.5	20.0	280	89	60	31
402721111550801	(C- 4- 1)23DBB- 1	100VLFL	262	84-07-13	1040	7.8	13.5	300	--	64	33
403027112012401	(C- 4- 2) 1BBB- 1	100VLFL	540	84-07-13	1260	7.5	15.0	520	280	150	36
403116111524801	(D- 3- 1)31ABB- 1	100VLFL	138	84-07-13	480	7.4	15.0	200	--	45	21
				SAN JUAN COUNTY							
371657109331901	(D-40-21)25ACD- 1	220NVJO	450	84-03-08	400	--	--	--	--	--	--
371716109325501	(D-40-22)30BBB- 1	220JRSC	825	84-03-08	780	--	19.0	--	--	--	--
		220JRSC	825	84-09-19	780	--	--	--	--	--	--
371621109211001	(D-40-23)27BAA- 1	220JRSC	672	84-03-08	2900	9.5	14.0	--	--	--	--
				SEVIER COUNTY							
385910111512101	(C-21- 1)13ABD- 1		291	84-07-10	780	--	18.5	--	--	--	--
384800112002001	(C-23- 2)15DCB- 4	100VLFL	75	84-07-10	870	7.1	11.5	410	130	85	48
384702112031001	(C-23- 2)19DAB- 1	100VLFL	310	84-07-10	425	--	15.5	--	--	--	--
384450112034001	(C-24- 2) 6ABC- 1	100VLFL	323	84-07-10	1370	--	11.5	--	--	--	--
383140111522001	(C-26- 1)23DDB- 1	100VLFL	200	84-07-11	170	7.6	12.0	78	--	25	3.7
				TOOELE COUNTY							
403716112174801	(C- 2- 4)28AAC- 1	100VLFL	185	84-07-05	970	--	13.0	--	--	--	--
403657112173901	(C- 2- 4)28DAA- 1		--	84-07-05	980	--	13.0	--	--	--	--
403656112174901	(C- 2- 4)28DAB- 1	100VLFL	--	84-08-08	830	--	15.5	--	--	--	--
403550112203601	(C- 2- 4)31CDA- 2	100VLFL	500	84-08-08	1300	--	17.5	--	--	--	--
403556112195401	(C- 2- 4)31DAD- 2	100VLFL	727	84-07-05	1050	--	17.0	--	--	--	--
403557112193401	(C- 2- 4)32CAC- 1	100VLFL	--	84-08-08	945	--	17.5	--	--	--	--
403627112174701	(C- 2- 4)33AAB- 1	100VLFL	403	84-07-05	750	--	15.5	--	--	--	--
403552112211401	(C- 2- 5)36DAC- 1	100VLFL	346	84-08-08	1770	--	17.5	--	--	--	--
403802112301201	(C- 2- 6)23CBB- 1	100VLFL	210	84-07-17	1270	--	22.0	--	--	--	--
402514112254301	(C- 4- 5)32DCD- 1	100VLFL	--	84-07-05	1300	--	13.0	--	--	--	--
403006112442201	(C- 4- 8) 3BCA- 1	100VLFL	--	84-07-06	430	--	16.0	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
110ALVM - QUATERNARY ALLUVIUM, QUATERNARY AGE.
112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.

DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	ALKA-LINITY (CACO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS (P) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED BORON (B) (UG/L)
MILLARD COUNTY--Continued												
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290	23	--	810	520	0.5	15	2230	0.84	0.01	50	20	1100
170	16	--	420	300	0.4	18	1330	0.84	0.01	40	<10	710
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190	6.8	--	340	320	0.2	36	1400	7.6	0.03	50	20	350
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41	2.0	--	54	140	0.1	14	497	3.7	0.45	5.00	1	80.00
370	54	--	400	700	1.8	49	2030	--	0.02	--	--	1500
130	5.0	--	210	210	0.5	28	822	6.5	0.01	8.00	1	350
930	48	--	1700	2400	0.3	44	6420	24	0.02	100	30	2300
PIUTE COUNTY												
15	6.2	--	20	24	0.2	46	291	0.74	0.05	10	3	30.00
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SALT LAKE COUNTY												
--	--	160	--	--	--	--	97	--	--	--	--	--
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79	8.2	190	110	120	0.3	34	555	0.23	--	<3.00	<1	--
89	8.8	230	130	130	0.7	24	618	1.6	--	7.00	<1	--
56	7.8	--	76	230	0.2	50	751	1.5	--	6.00	2	--
17	8.9	--	1.4	11	0.5	39	284	<0.1	--	1200	500	--
SAN JUAN COUNTY												
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SEVIER COUNTY												
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21	3.8	--	71	71	0.4	33	498	1.0	0.03	<3.00	<1	50.00
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9.1	2.9	--	4.1	8.8	0.3	42	143	0.31	0.04	<3.00	<1	30.00
TOOELE COUNTY												
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GEOLOGICAL UNIT (AQUIFER)--CONTINUED

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.
220JRSC - JURASSIC SYSTEM, JURASSIC AGE.
220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA, MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
				TOOELE COUNTY--Continued							
402310112231401	(C- 5- 5)15ADD- 1	100VLFL	--	84-07-05	890	--	12.0	--	--	--	--
400745112263101	(C- 8- 5) 7DDD- 2	100VLFL	--	84-07-05	520	--	17.0	--	--	--	--
400636112260601	(C- 8- 5)20BCA- 1	100VLFL	--	84-07-05	1200	--	12.0	--	--	--	--
400418112271701	(C- 8- 5)31CCD- 5	100VLFL	60	84-08-08	1220	7.3	12.5	--	--	--	--
				UTAH COUNTY							
402355111531501	(C- 5- 1)12DAA- 2	100VLFL	330	84-07-18	750	7.6	15.0	300	150	66	33
401747112005101	(C- 6- 2)13CAA- 1	100VLFL	339	84-07-03	455	--	16.5	--	--	--	--
401734112052601	(C- 6- 2)17DCC- 2	100VLFL	--	84-07-03	405	--	12.5	--	--	--	--
401607112023401	(C- 6- 2)26CBB- 1	100VLFL	505	84-06-14	510	--	11.0	--	--	--	--
401610112053101	(C- 6- 2)29BDD- 1	100VLFL	150	84-09-14	405	--	10.5	--	--	--	--
395956111572101	(C- 9- 1)28CCB- 1	100VLFL	802	84-07-17	1140	7.5	18.5	280	150	71	24
395825111571801	(C-10- 1) 4CBB- 1	100VLFL	1220	84-07-18	1740	7.4	17.5	610	420	130	69
402259111525201	(D- 5- 1)18CAB- 2	100VLFL	618	84-07-18	310	7.8	16.0	120	--	26	13
402145111531101	(D- 5- 1)19CCC- 1	111ALVM	151	84-07-17	--	7.4	14.0	130	14	32	12
402103111461601	(D- 5- 2)30CCB- 2		225	84-07-17	790	--	13.0	--	--	--	--
401021111362701	(D- 7- 3)33BAA- 6	100VLFL	138	84-07-17	530	7.4	12.5	260	32	68	22
400751111392201	(D- 8- 2)12DDC- 2	100VLFL	172	84-07-17	510	7.6	16.0	240	20	55	26
400311111432001	(D- 9- 2) 9BAC- 1	100VLFL	445	84-08-09	640	7.4	14.0	290	24	69	28
				WASHINGTON COUNTY							
371305113470401	(C-41-17)17CBA- 1		626	84-08-09	540	7.4	17.5	270	74	81	17
370915113232302	(C-42-14)11ACA- 2		--	84-08-09	910	7.3	24.0	700	510	150	79
370515113310302	(C-42-15)34DBA- 2		--	84-08-09	5230	--	16.5	--	--	--	--
370036113282801	(C-43-14)31BBB- 1		--	84-08-09	3400	7.1	19.0	2000	1900	560	150
				WAYNE COUNTY							
382717111365601	(D-27- 3)19AAA- 1		285	84-07-11	1580	--	10.5	--	--	--	--
381902111321101	(D-29- 3) 1CAB- 1	110ALVM	433	84-07-11	200	--	16.5	--	--	--	--
				WEBER COUNTY							
411153112064602	(B- 5- 2) 6BDD- 3	100VLFL	609	84-08-15	380	8.0	17.5	150	--	42	11
411153112064601	(B- 5- 2) 6BDD- 4	100VLFL	303	84-08-15	470	7.9	18.0	150	--	38	14
411717112053301	(B- 6- 2) 5ACB- 2		850	84-09-05	495	7.8	16.5	67	--	19	4.8
411702112071701	(B- 6- 2) 6CBC- 2	100VLFL	512	84-08-14	940	7.7	19.0	180	19	45	16
412011112041401	(B- 7- 2)16DCD- 2	100VLFL	1180	84-08-14	355	7.6	27.0	69	--	21	4.0
411824112060101	(B- 7- 2)32BBB- 1	100VLFL	546	84-08-14	2450	7.8	19.0	350	210	73	41

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
110ALVM - QUATERNARY ALLUVIUM, QUATERNARY AGE.
112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.

DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	ALKA-LINITY (CACO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS (P) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED BORON (B) (UG/L)
					TOOELE COUNTY--Continued							
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					UTAH COUNTY							
33	3.0	--	78	110	0.3	19	434	1.2	0.19	60	2	40.00
--	--	--	--	--	--	--	--	--	--	--	--	--
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100	14	--	110	210	0.3	65	671	5.2	0.02	20	4	130
110	13	--	140	380	0.3	62	1020	5.2	0.02	10	5	180
18	2.3	--	8.1	17	0.4	16	173	0.31	0.14	9.00	4	30.00
7.8	1.2	--	14	6.6	0.3	15	158	0.33	0.01	10	<1	40.00
--	--	--	--	--	--	--	--	--	--	--	--	--
14	1.7	--	45	10	0.2	11	309	1.0	0.03	20	2	30.00
13	3.1	--	25	15	0.2	27	300	<0.1	0.02	890	62	30.00
32	9.1	--	47	30	0.3	51	425	3.4	0.03	8.00	2	70.00
					WASHINGTON COUNTY							
18	2.5	--	35	16	0.3	22	311	0.57	0.02	5.00	18	50.00
62	7.6	--	550	58	0.4	27	1050	3.2	0.03	20	8	180
--	--	--	--	--	--	--	--	--	--	--	--	--
140	16	--	2100	77	0.3	14	3110	8.3	0.01	40	10	570
					WAYNE COUNTY							
--	--	--	--	--	--	--	--	--	--	--	--	--
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					WEBER COUNTY							
22	2.5	--	15	12	0.2	20	219	<0.1	<0.01	460	77	30.00
36	7.7	--	1.5	15	0.3	18	263	<0.1	0.12	250	130	90.00
86	3.0	--	1.8	27	0.6	21	299	<0.1	--	490	51	150
97	7.9	--	0.8	170	0.3	29	462	<0.1	--	90	170	140
49	7.1	--	3.9	8.0	0.7	29	222	<0.1	0.01	130	44	60.00
330	22	--	1.1	690	0.3	30	1270	<0.1	--	230	310	320

GEOLOGICAL UNIT (AQUIFER)--CONTINUED

122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.
220JRSC - JURASSIC SYSTEM, JURASSIC AGE.
220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC AND TRIASSIC AGE.

October 1, 1978

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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