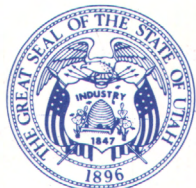
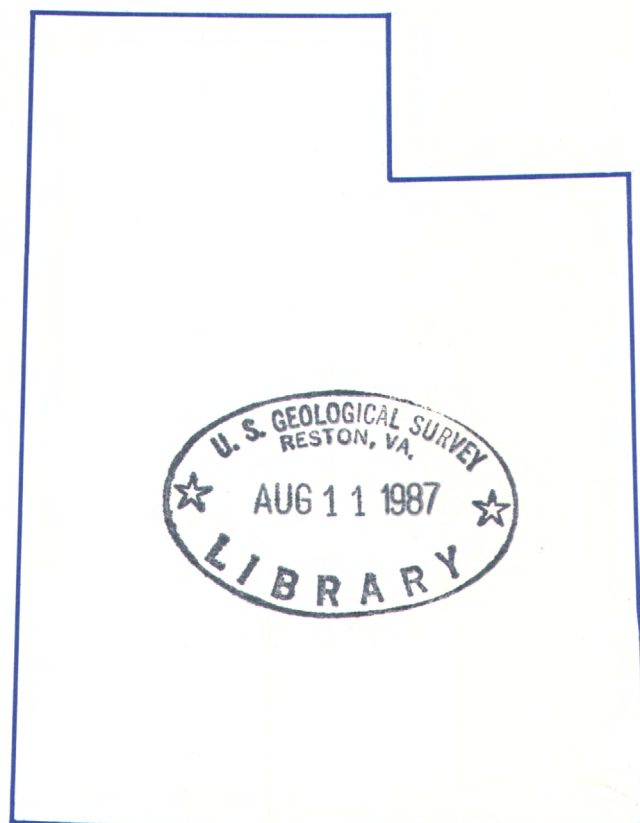


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Water Resources Data Utah Water Year 1986



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT UT-86-1

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

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

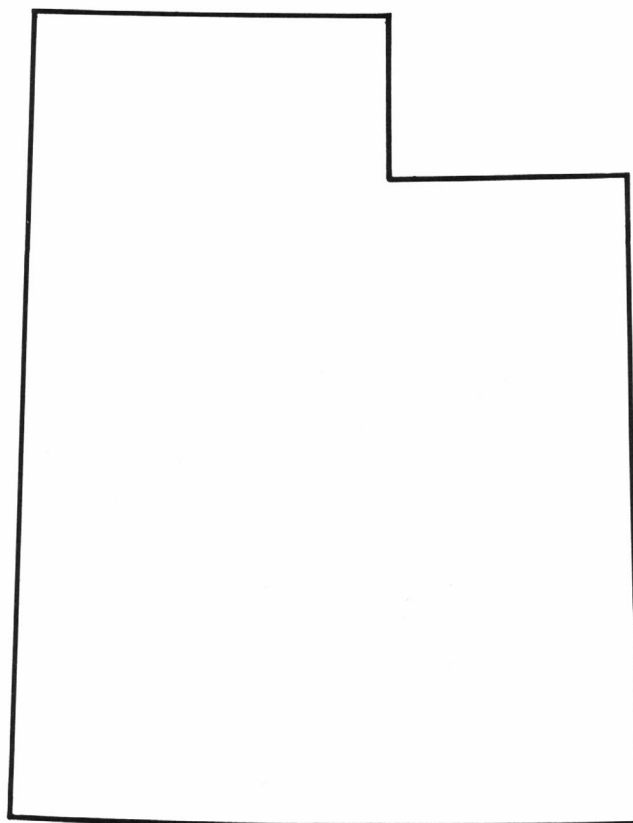
| Multiply inch-pound units | By | To obtain SI units |
|--|------------------------|--|
| <i>Length</i> | | |
| inches (in) | 2.54×10^1 | millimeters (mm) |
| | 2.54×10^{-2} | meters (m) |
| feet (ft) | 3.048×10^{-1} | meters (m) |
| miles (mi) | 1.609×10^0 | kilometers (km) |
| <i>Area</i> | | |
| acres | 4.047×10^3 | square meters (m ²) |
| | 4.047×10^{-1} | square hectometers (hm ²) |
| | 4.047×10^{-3} | square kilometers (km ²) |
| square miles (mi ²) | 2.590×10^0 | square kilometers (km ²) |
| <i>Volume</i> | | |
| gallons (gal) | 3.785×10^0 | liters (L) |
| | 3.785×10^0 | cubic decimeters (dm ³) |
| | 3.785×10^{-3} | cubic meters (m ³) |
| million gallons | 3.785×10^3 | cubic meters (m ³) |
| | 3.785×10^{-3} | cubic hectometers (hm ³) |
| cubic feet (ft ³) | 2.832×10^1 | cubic decimeters (dm ³) |
| | 2.832×10^{-2} | cubic meters (m ³) |
| cfs-days | 2.447×10^3 | cubic meters (m ³) |
| | 2.447×10^{-3} | cubic hectometers (hm ³) |
| acre-feet (acre-ft) | 1.233×10^3 | cubic meters (m ³) |
| | 1.233×10^{-3} | cubic hectometers (hm ³) |
| | 1.233×10^{-6} | cubic kilometers (km ³) |
| <i>Flow</i> | | |
| cubic feet per second (ft ³ /s) | 2.832×10^1 | liters per second (L/s) |
| | 2.832×10^1 | cubic decimeters per second (dm ³ /s) |
| | 2.832×10^{-2} | cubic meters per second (m ³ /s) |
| gallons per minute (gal/min) | 6.309×10^{-2} | liters per second (L/s) |
| | 6.309×10^{-2} | cubic decimeters per second (dm ³ /s) |
| | 6.309×10^{-5} | cubic meters per second (m ³ /s) |
| million gallons per day | 4.381×10^1 | cubic decimeters per second (dm ³ /s) |
| | 4.381×10^{-2} | cubic meters per second (m ³ /s) |
| <i>Mass</i> | | |
| tons (short) | 9.072×10^{-1} | megagrams (Mg) or metric tons |



Water Resources Data Utah

Water Year 1986

by M.D. ReMillard, L.R. Herbert, G.W. Sandberg, and G.A. Birdwell



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT UT-86-1
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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GROUND-WATER LEVELS

BEAVER COUNTY

| | |
|---|-----|
| Well 382551112555101 Local number (C-27-10)25cbd- 1 | 378 |
| Well 382020112585901 Local number (C-28-10)28cdd- 1 | 378 |

BOX ELDER COUNTY

| | |
|---|-----|
| Well 414236112101201 Local number (B-11- 3)10abb- 4 | 378 |
| Well 414411112543701 Local number (B-12- 9)30cda- 1 | 379 |
| Well 415703112514501 Local number (B-14- 9)9add- 1 | 379 |

DAVIS COUNTY

| | |
|---|-----|
| Well 405447111524301 Local number (A- 2- 1)18abd-12 | 379 |
|---|-----|

IRON COUNTY

| | |
|---|-----|
| Well 375241112471001 Local number (C-34- 8)5bca- 1 | 380 |
| Well 374524113421501 Local number (C-35-17)13bdc- 1 | 380 |
| Well 374132113063601 Local number (C-36-11)8aab- 1 | 380 |
| Well 374053113415101 Local number (C-36-16)6cbc- 1 | 381 |
| Well 374306113422501 Local number (C-36-17)1acc- 1 | 381 |
| Well 373643113415301 Local number (C-36-17)36add- 1 | 381 |

JUAB COUNTY

| | |
|---|-----|
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|---|-----|

KANE COUNTY

| | |
|---|-----|
| Well 370523112334702 Local number (C-42- 6)30dcc- 2 | 382 |
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MILLARD COUNTY

| | |
|---|-----|
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| Well 393020112362201 Local number (C-15- 7)23bac- 1 | 383 |
| Well 390758113565501 Local number (C-19-19)26aba- 1 | 383 |
| Well 385844112245801 Local number (C-21- 5)21aba- 1 | 383 |
| Well 384906112330601 Local number (C-23- 6)17baa- 1 | 384 |

SALT LAKE COUNTY

| | |
|---|-----|
| Well 403916111575901 Local number (C- 2- 1)9ccc- 1 | 384 |
| Well 404356111503901 Local number (D- 1- 1)16caa- 1 | 384 |
| Well 403452111484301 Local number (D- 3- 1)2ccc- 1 | 385 |

SAN JUAN COUNTY

| | |
|---|-----|
| Well 375802109191301 Local number (D-33-24)30dab- 1 | 385 |
| Well 373830109283201 Local number (D-36-22)22daa- 1 | 385 |

TOOELE COUNTY

| | |
|---|-----|
| Well 403539112282901 Local number (C- 2- 6)36dcc- 1 | 386 |
| Well 401312112442301 Local number (C- 7- 8)10cbd- 1 | 386 |

UINTAH COUNTY

| | |
|---|-----|
| Well 403158109372201 Local number (D- 3-20)25abc- 2 | 386 |
|---|-----|

UTAH COUNTY

| | |
|---|-----|
| Well 401818112014501 Local number (C- 6- 2)14aba- 1 | 387 |
| Well 402333111513401 Local number (D- 5- 1)8dcc- 1 | 387 |

WASHINGTON COUNTY

| | |
|---|-----|
| Well 371415113471501 Local number (C-41-17)7ada- 1 | 387 |
| Well 370231113320301 Local number (C-43-15)16dac- 1 | 388 |

WEBER COUNTY

| | |
|---|-----|
| Well 411544111461001 Local number (A- 6- 2)18bad- 1 | 388 |
| Well 411348112013601 Local number (B- 6- 2)26ada- 1 | 388 |

QUALITY OF GROUND WATER

| | |
|----------------------------------|-----|
| Beaver County wells | 390 |
| Box Elder County wells | 390 |
| Cache County wells | 390 |
| Davis County wells | 392 |
| Garfield County wells | 392 |
| Grand County wells | 392 |

x

HYDROLOGIC STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED
QUALITY OF GROUND WATER--Continued

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|-----------------------------------|-----|
| Iron County wells | 392 |
| Juab County wells | 392 |
| Kane County wells | 392 |
| Millard County wells | 392 |
| Plute County wells | 396 |
| Salt Lake County wells | 396 |
| San Juan County wells | 396 |
| SanPete County wells | 396 |
| Sevier County wells | 396 |
| Tooele County wells | 396 |
| Uintah County wells | 396 |
| Utah County wells | 396 |
| Washington County wells | 398 |
| Wayne County wells | 398 |
| Weber County wells | 398 |

WATER RESOURCES DATA FOR UTAH, 1986

INTRODUCTION

Water resources data for the 1986 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 209 gaging stations; stage and contents for 21 lakes and reservoirs; water quality for 25 hydrologic stations, and 210 wells; miscellaneous temperature measurements and field determinations for 162 stations; and water levels for 33 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, D. C. Hansen, Executive Director
Division of Water Rights, R. Morgan, State Engineer
Division of Water Resources, D. L. Anderson, 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 7 gaging stations and by the Bureau of Land Management, U.S. Department of the Interior, for 3 gaging stations. Records for 12 gaging stations in Idaho in the Bear River basin and 8 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

Wyoming District.--Bear River at Evanston, WY
Blacks Fork near Robertson, WY
Blacks Fork near Millburne, WY
East Fork of Smith Fork near Robertson, WY
Green River near Green River, WY
Henry's Fork near Manila, UT

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.

SUMMARY OF HYDROLOGIC CONDITIONS

By L. R. Herbert

The general wet cycle of the 1980's continued during water year 1986, as indicated by the above normal precipitation listed below for several representative sites operated by the National Oceanic and Atmospheric Administration.

Precipitation at selected sites, for water year 1986, in inches
(departure from average for 1951-80)

| Site | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Total |
|--------------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|-----------------|-----------------|-------------------|
| Blanding | 1.39 (-.07) | 2.17 (+1.28) | 0.02 (-1.27) | 0.21 (-1.13) | 1.37 (+.42) | 0.76 (-.04) | 1.59 (+.92) | 0.49 (-.10) | 1.06 (+.69) | 1.80 (+.76) | 2.40 (+.99) | 2.35 (+1.46) | 15.61 (+3.91) |
| Callao | .40 (-.05) | .88 (+.57) | .46 (+.21) | .26 (-.05) | .32 (-.02) | .34 (-.01) | .78 (+.35) | .35 (-.32) | .09 (-.63) | .49 (+.08) | .67 (+.14) | .49 (+.12) | 5.53 (+.39) |
| Cedar City | 1.75 (+.97) | 1.09 (+.18) | .37 (-.28) | .13 (-.51) | .67 (-.13) | 1.72 (+.66) | 1.46 (+.48) | .33 (-.49) | .31 (-.14) | .76 (-.34) | 3.57 (+2.40) | 1.72 (+.82) | 13.88 (+3.62) |
| Green River | -- | -- | -- | -- | -- | -- | .61 (+.16) | .76 (+.15) | .21 (-.07) | 2.75 (+2.37) | .76 (-.03) | 1.03 (+.42) | -- |
| Hanksville | 1.28 (+.65) | -- | .04 (-.26) | .17 (-.13) | -- | .16 (-.19) | .41 (-.01) | .63 (+.14) | .23 (.00) | .59 (+.15) | .33 (-.50) | .79 (+.19) | -- |
| Logan | 1.78 (+.35) | 5.05 (+3.52) | 1.46 (-.17) | 1.51 (-.17) | 4.44 (+2.87) | 2.88 (+1.13) | 5.80 (+3.74) | 2.35 (+.64) | .10 (-1.43) | 1.95 (+1.48) | .95 (-.03) | 4.54 (+3.48) | 32.77 (+15.41) |
| Milford | 1.12 (+.39) | 1.17 (+.48) | .61 (-.02) | .22 (-.47) | .58 (-.16) | 1.82 (+.83) | 2.09 (+1.13) | .84 (+.11) | .28 (-.14) | .24 (-.37) | 1.50 (+.79) | .94 (+.25) | 11.41 (+2.82) |
| Nephi | 1.28 (+.21) | 2.80 (+1.58) | 1.64 (+.38) | .62 (-.68) | 2.29 (+1.02) | 2.39 (+.93) | 3.42 (+1.94) | 1.45 (+.21) | .40 (-.36) | 1.47 (+.84) | .68 (-.27) | 2.23 (+1.35) | 20.65 (+7.15) |
| Salt Lake City | 1.61 (+.47) | 2.63 (+1.41) | 1.42 (+.05) | .86 (-.49) | 1.28 (-.05) | 2.32 (+.60) | 4.55 (+2.34) | 3.39 (+1.92) | .42 (-.55) | .85 (+.13) | 1.32 (+.40) | 2.75 (+1.86) | 23.40 (+8.09) |
| Vernal | .99 (+.17) | 1.01 (+.45) | .43 (-.20) | .18 (-.32) | .36 (-.04) | 1.09 (+.52) | 2.21 (+1.52) | 1.21 (+.45) | .41 (-.26) | 1.00 (+.59) | 1.21 (+.54) | 1.92 (+1.30) | 12.08 (+4.70) |
| Zion National Park | 1.07 (+.17) | 3.48 (+2.28) | .69 (-.57) | .44 (-1.32) | 1.84 (+.13) | 2.75 (+.97) | 1.14 (+.02) | .08 (-.72) | .27 (-.33) | 1.80 (+.82) | 2.00 (+.41) | 2.11 (+1.23) | 17.67 (+3.09) |

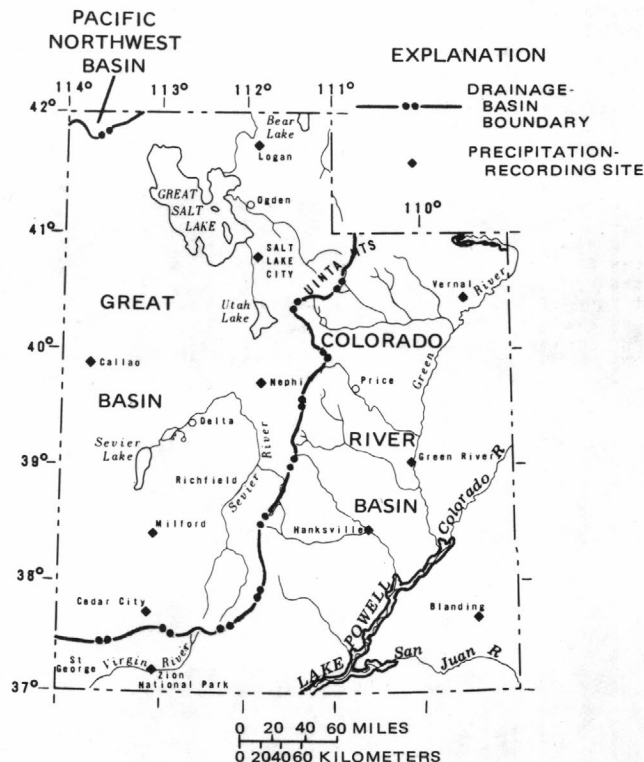


Figure 1.—Precipitation recording sites.

For 9 of the 11 sites (fig. 1), the total precipitation for water year 1986 ranged from 0.39 to 15.41 inches above average and departures averaged 4.92 inches. The maximum departure, 15.41 inches above average, was recorded at Logan and includes much above-average values for November and February to May. In particular, the 5.80 inches of precipitation for April set an all-time record for the Logan site. April was generally a wet month statewide, and departures for the selected sites ranged from -0.01 to 3.74 inches. The extreme precipitation during November and February to May, and an intense thunderstorm during August produced record peak discharges at 21 of the 209 streamflow stations listed in this report. The Great Salt Lake reached an all-time historical peak level of 4,211.85 feet above sea level on June 3, 1986. Ground-water withdrawals for irrigation during calendar year 1986 were below average because of the above-average precipitation and streamflow.

SURFACE WATER

by L. R. Herbert

Annual streamflow for 1986 water year as measured at seven representative gaging stations, averaged 165 percent of the median discharge for water years 1946-85 (compared to 145 percent a year ago); annual streamflow ranged from 143 percent of median for Whiterocks River near Whiterocks to 190 percent for San Juan River near Bluff. The average of 165 percent of median discharge for water year 1986 compares to averages of 190 percent for water year 1983 and 170 percent for water year 1984. Discharge for water year 1986 compared with the median for water years 1946-85 at seven representative gaging stations is shown in figure 2.

While annual streamflow generally was less for water year 1986 compared to the extreme water years of 1983-84, there were 21 record peak discharges in 1986 compared to 9 in 1983 and only 4 in 1984. The peak discharges for water year 1986 compared to the previous peak discharges for the 21 sites with new record peaks are tabulated below:

| Station number | Peak discharge in water year 1986 (cubic feet per second) | Previous peak discharge | |
|----------------|---|-------------------------|------------|
| | | (cubic feet per second) | Water year |
| 09163675 | 541 | 425 | 1984 |
| 09278000 | 216 | 189 | 1975 |
| 09278500 | 2,710 | 2,510 | 1983 |
| 09279100 | 2,470 | 2,320 | 1968 |
| 09279150 | 4,970 | 4,360 | 1983 |
| 10011200 | 191 | 145 | 1965 |
| 10032000 | 2,100 | 1,870 | 1983 |
| 10058600 | 249 | 248 | 1971 |
| 10072800 | 310 | 230 | 1984 |
| 10090500 | 4,900 | 4,720 | 1985 |
| 10093000 | 1,070 | 840 | 1982 |
| 10099000 | 702 | 485 | 1983 |
| 10104700 | 1,540 | 1,180 | 1982 |
| 10106000 | 2,250 | 2,000 | 1962 |
| 10126180 | 326 | 296 | 1984 |
| 10127100 | 331 | 323 | 1984 |
| 10128000 | 885 | 844 | 1983 |
| 10153800 | 728 | 705 | 1975 |
| 10154200 | 6,040 | 2,950 | 1979 |
| 10155000 | 6,100 | 4,020 | 1983 |
| 10171000 | 449 | 384 | 1944 |

The storage in 17 major irrigation reservoirs on October 1, 1986 was 128 percent of average, compared to 126 percent of average on October 1, 1985. The level of Bear Lake was 5,921.39 feet above sea level on October 1, 1986; the contents of the lake was 1,262,000 acre-feet, compared to 1,125,000 acre-feet a year ago.

The Great Salt Lake rose 3.50 feet to reach a seasonal peak level of 4,211.85 feet above sea level on June 3, 1986. The peak level was 1.90 feet higher than the previous year's peak and was the highest of record. The lake level on September 30, 1986 was 4,210.80 feet. This was 2.35 feet higher than a year ago and 19.45 feet higher than the documented low level of 4,191.35 feet, October-November 1963.

The historical record for level of Great Salt Lake begins in 1847, when the pioneers reached the Salt Lake Valley. The level of the lake at that time was about 4,200 feet. The previous historical record high occurred during 1873 when the lake level was 4,211.6 feet above sea level. The fluctuations of Great Salt Lake's level are shown in figure 3.

Summary of Surface-Water Studies

Four reports summarizing surface-water studies or that include information on surface water in Utah were completed or published during the last year. Selected information in those reports is summarized in the following paragraphs.

A study of the seepage gains or losses of the Weber River, Davis-Weber Canal, and the Ogden Valley Canal in Davis and Weber Counties, Utah, was completed in 1986 (Herbert and others, 1987). Overall net losses of 20.0 cubic feet per second in the upper reaches of the Weber River and gains of 17.0 cubic feet per second in the lower reaches were determined. A net loss of 17.0 cubic feet per second was determined for the Davis-Weber Canal, and a net loss of 4.0 cubic feet per second was determined for the Ogden Valley Canal.

A study of the water resources of the Park City area was completed in 1985 (Holmes, Thompson, and Enright, 1986). The study included information on streamflow and the availability of ground and surface water for future needs. In addition, the report discusses the potential hydrologic effects that might result from increased withdrawals of ground water and possible hydrologic effects of the proposed Jordanelle Reservoir on mining activities in the area. The estimated long-term average flows of the two major streams that originate in the area are 55 cubic feet per second for East Canyon Creek near Park City and 8.55 cubic feet per second for Silver Creek near Wanship.

Explanation

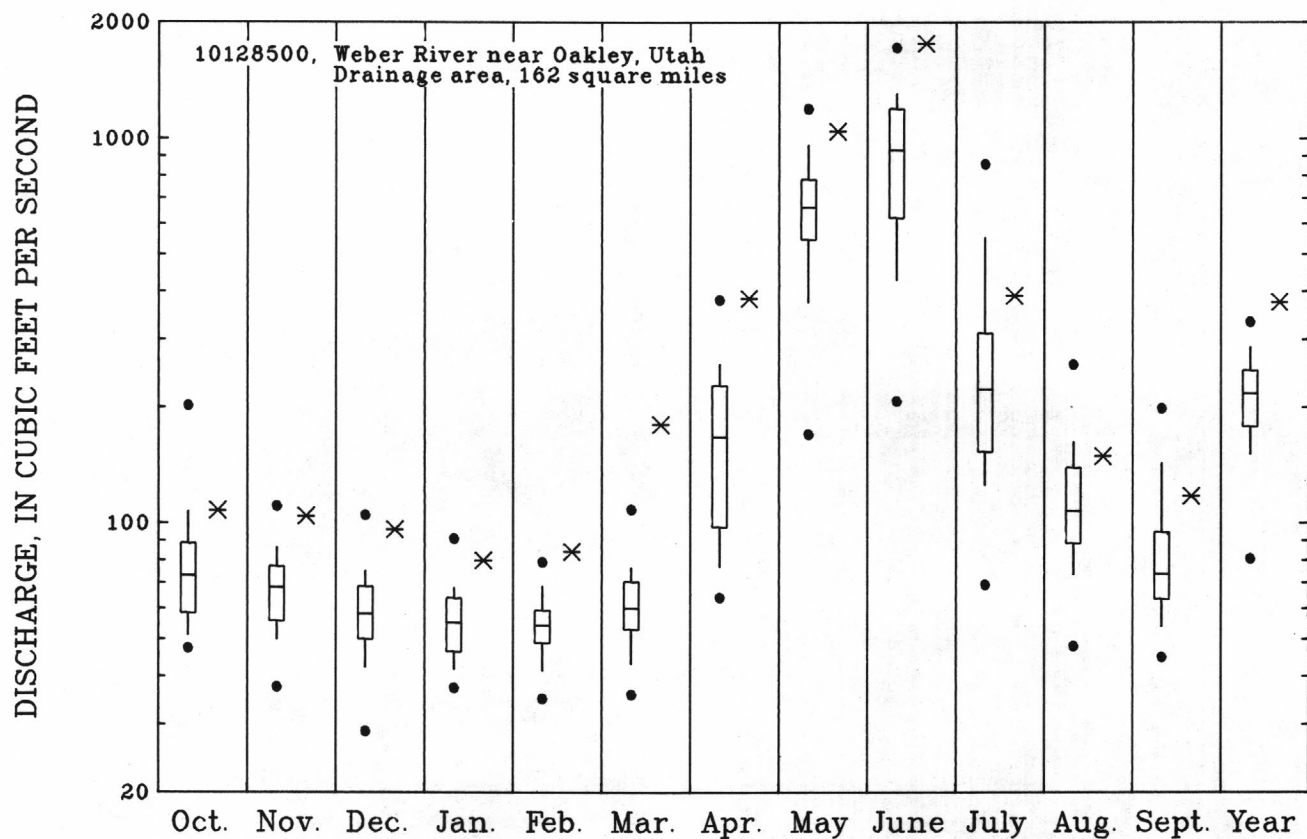
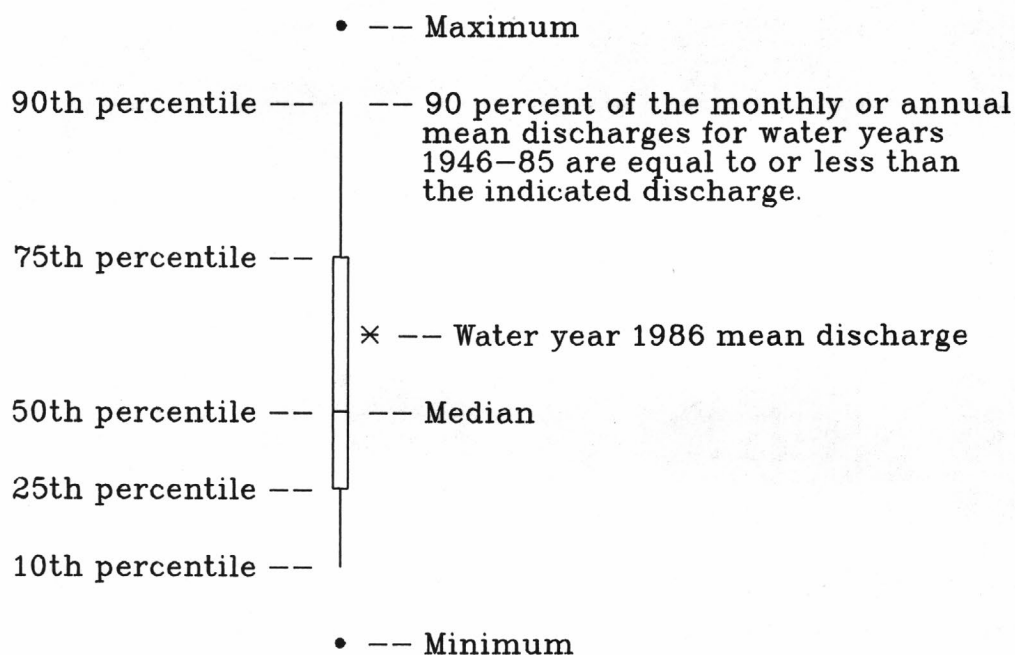


Figure 2.—Comparisons of monthly and annual mean discharge for water year 1986 with monthly and annual mean discharges for water years 1946-85 at seven long-term, representative gaging stations.

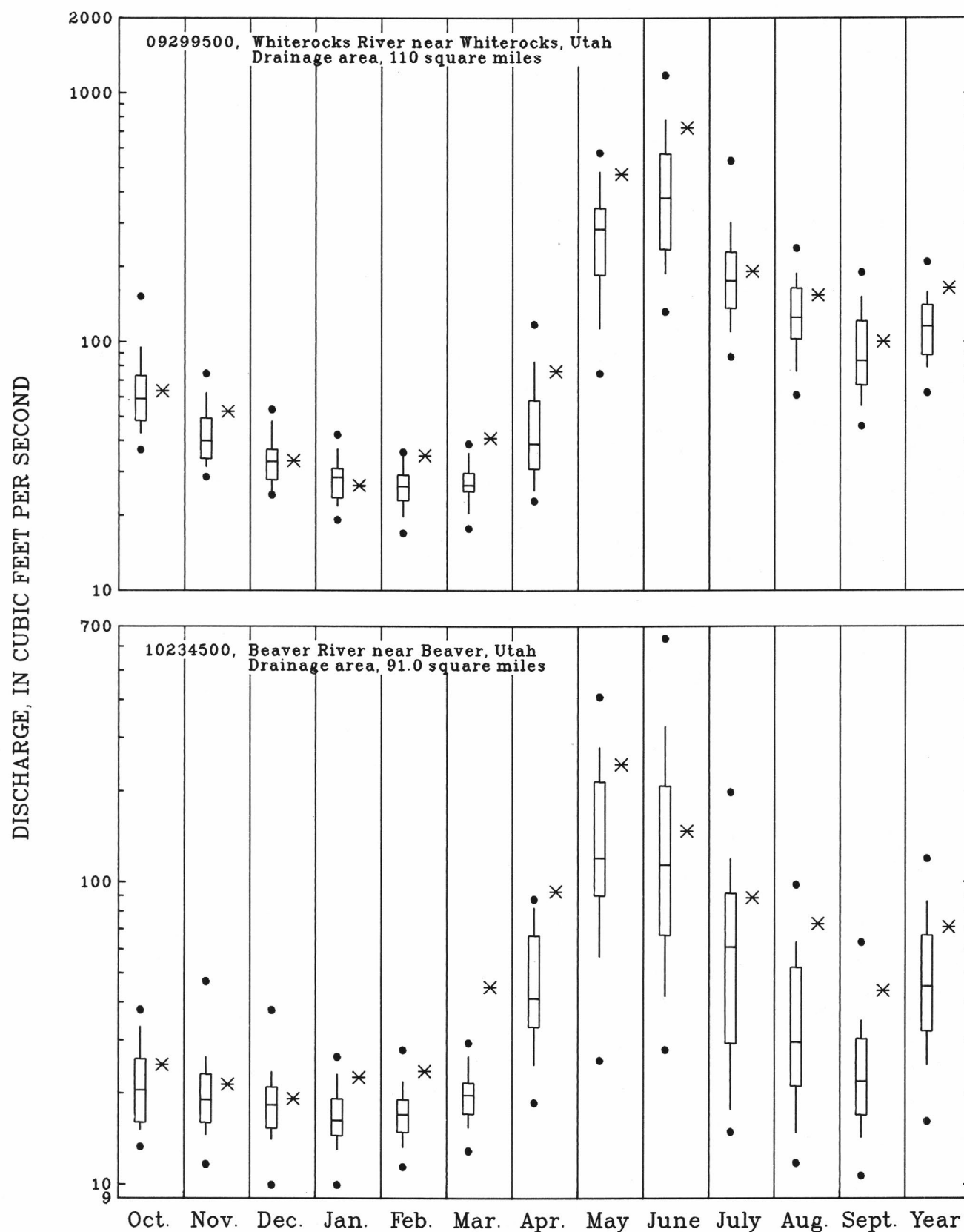


Figure 2.—Comparisons of monthly and annual mean discharge for water year 1986 with monthly and annual mean discharges for water years 1946–85 at seven long-term, representative gaging stations—Continued.

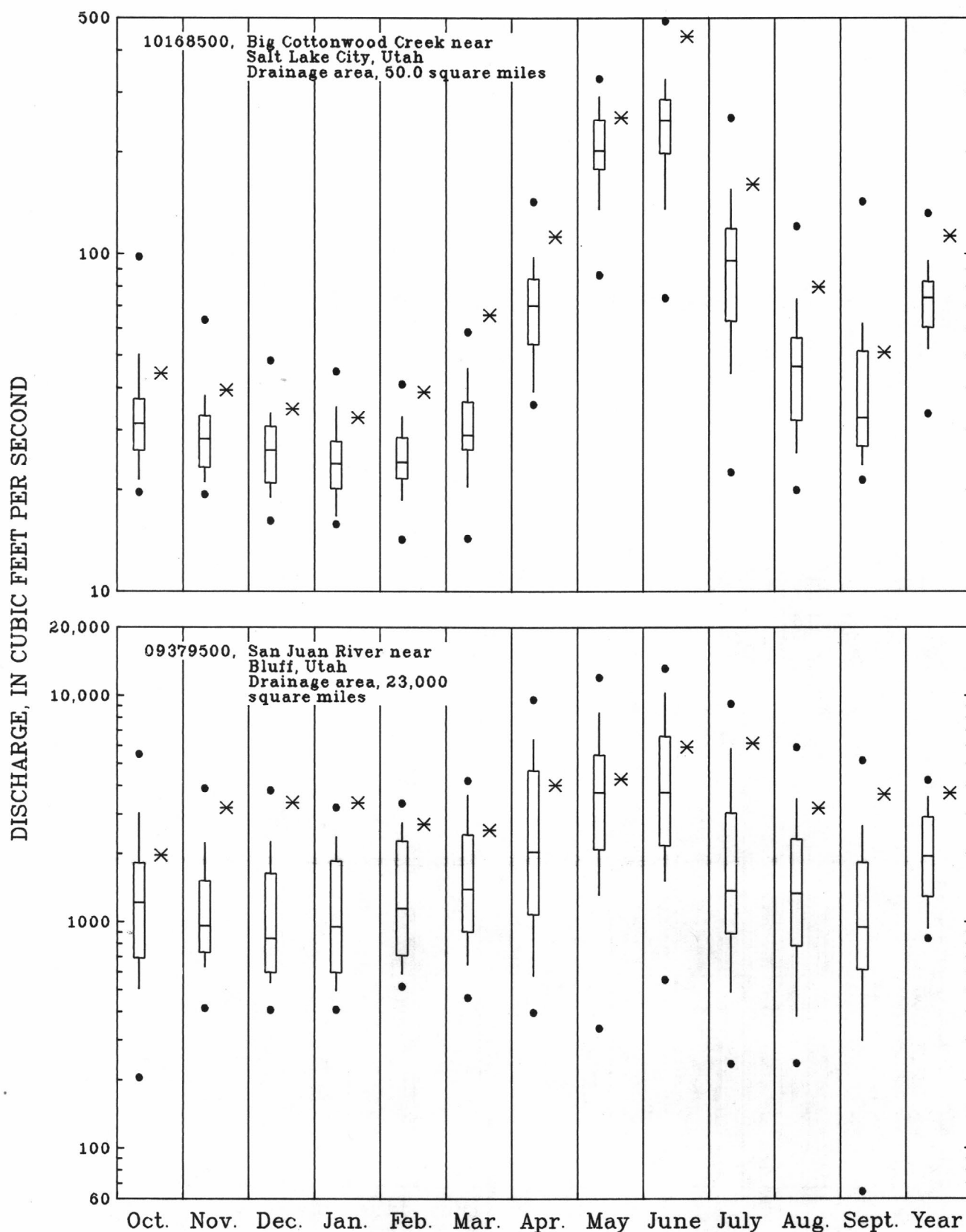


Figure 2.—Comparisons of monthly and annual mean discharge for water year 1986 with monthly and annual mean discharges for water years 1946–85 at seven long-term, representative gaging stations—Continued.

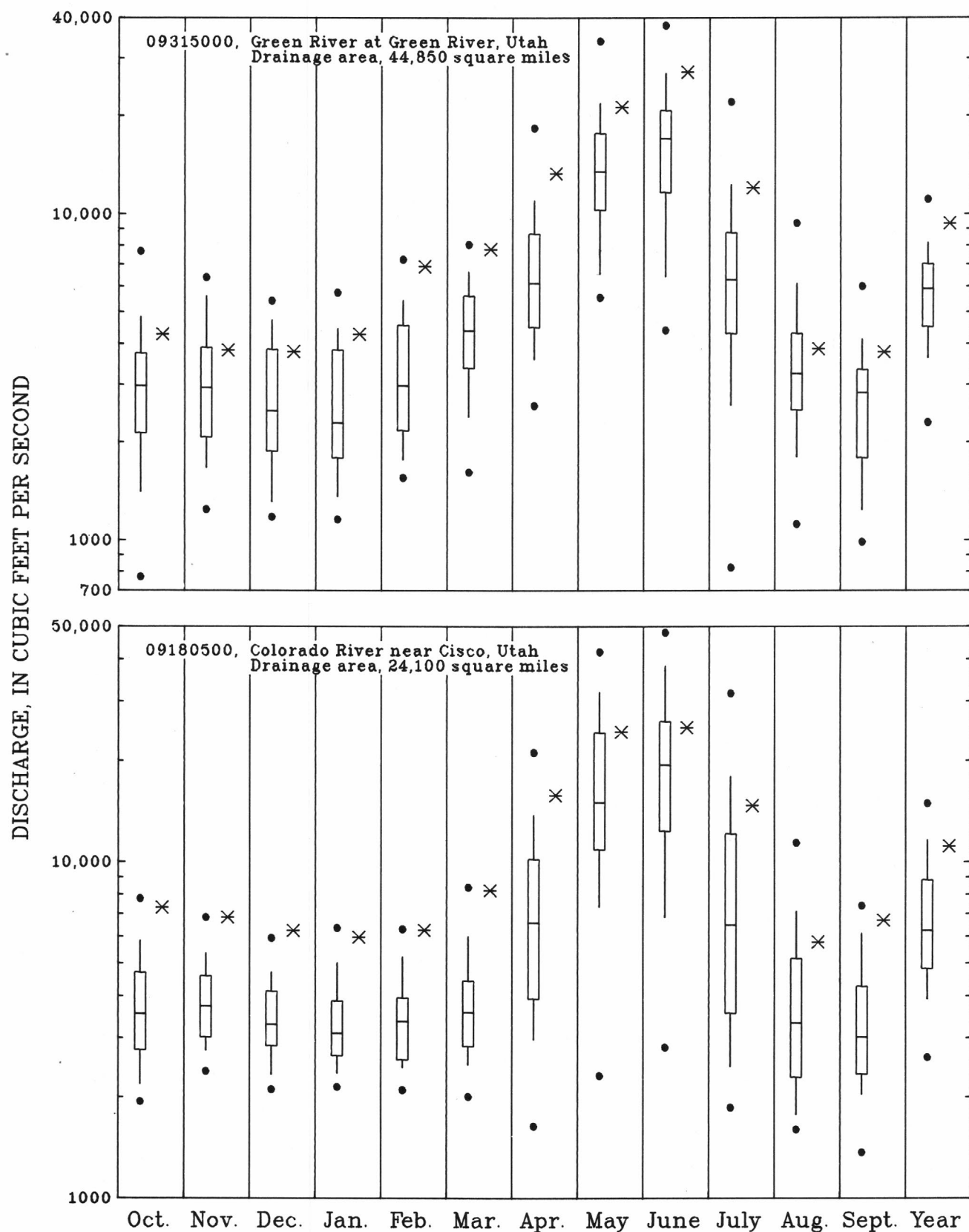


Figure 2.—Comparisons of monthly and annual mean discharge for water year 1986 with monthly and annual mean discharges for water years 1946–85 at seven long-term, representative gaging stations—Continued.

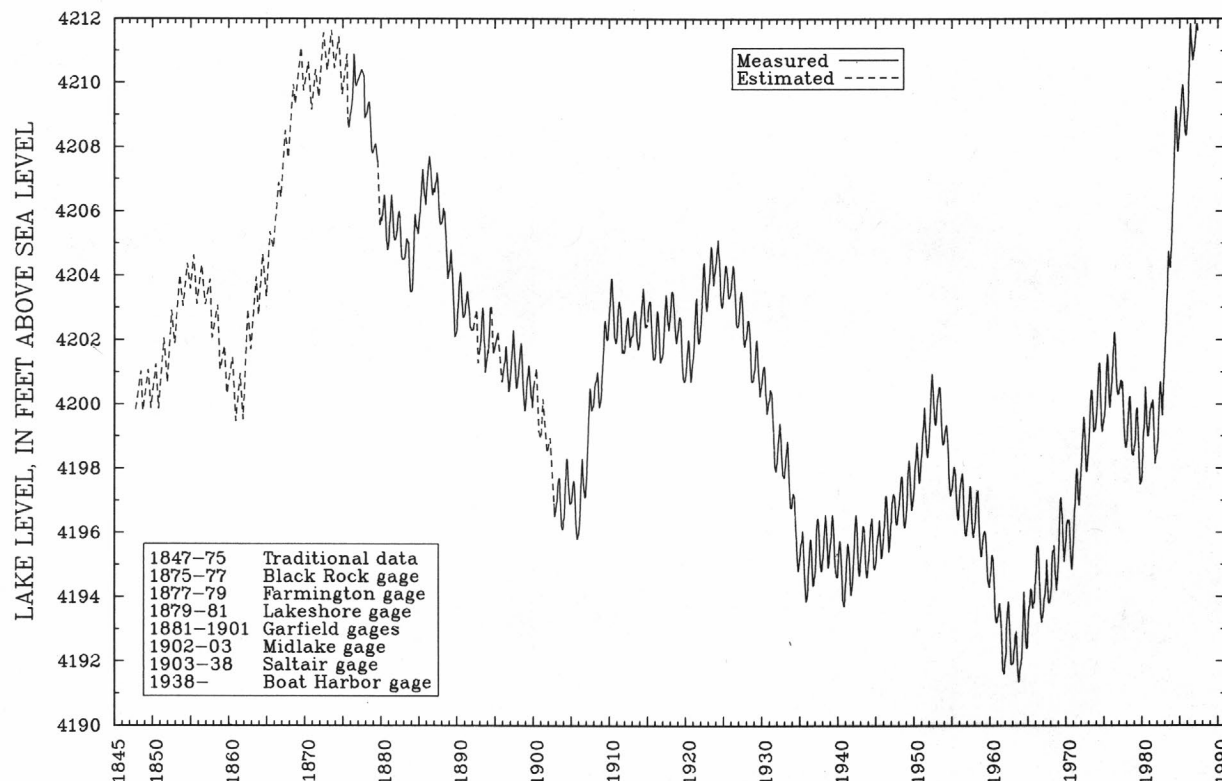


Figure 3.—Fluctuations in level of Great Salt Lake.

A study of the hydrology and effects of coal mining on water quality of Scofield Reservoir and its major tributary streams in the Pleasant Valley area was completed in 1984 (Stephens and others, 1987). Streamflow during 1983-84 was about 200 percent of average for Fish Creek, 150 percent of average for Mud Creek, and 140 percent of average for Eccles Canyon Creek. The high flows transported considerable sediment and associated trace metals and nutrients to Scofield Reservoir, but concentrations of most toxic substances were not sufficient to constitute a hazard in the streams or reservoir.

Arnow and Stephens, in press, report on the hydrology of Great Salt Lake and discuss fluctuation of levels, water quality, and biota of the lake. Streamflow is 66 percent of the inflow into the lake and precipitation on the lake accounts for most of the remainder. The combined inflow into Great Salt Lake from the Bear, Weber, and Jordan Rivers is about 92 percent of the inflow into the lake from streamflow. The hydrology of Great Salt Lake is discussed in more detail in the following paragraphs.

WATER QUALITY

by Kendall R. Thompson

CHANGES IN SIZE, SALINITY, AND BIOTA OF GREAT SALT LAKE

This section was freely adapted from previous reports by Arnow and Stephens, in press, and Arnow (1984).

Introduction

During the 1986 water year, the rising waters of Great Salt Lake exceeded the historic peak level established in 1873. This increase in lake level and volume is directly related to much above-average precipitation which began in 1982. The large inflow of freshwater to the lake has caused substantial changes in the size, salinity, and biota of the lake. The Great Salt Lake, a terminal lake with no outlet to the sea, is unique among lakes of the Western Hemisphere because of its size and salt content. It is the fourth largest such lake in the world (Greer, 1977, p. 23). The Great Salt Lake is a remnant of Lake Bonneville (fig. 4), which covered about 20,000 square miles in Utah, Nevada, and Idaho. Lake Bonneville began to form about 26,000 years ago, reached a peak of about 1,000 feet above the average level of Great Salt Lake about 16,000 to 17,000 years ago, and declined to the approximate level of Great Salt Lake by about 11,000 years ago (Scott and others, 1982, p.3).

Size and Lake Elevation

The surface area of Great Salt Lake varies considerably depending on fluctuations in level caused by changes in climate. For example at a level of 4,200 feet above sea level, the lake covers about 1,700 square miles with an average depth of 34 feet (U.S. Geological Survey, 1974). At the peak level of 4,211.85 feet, the lake covered about 2,400 square miles (fig 5.). The drainage area of Great Salt Lake is about 35,000 square miles, which includes about 14,000 square miles of arid land west of the lake, which virtually is noncontributory.

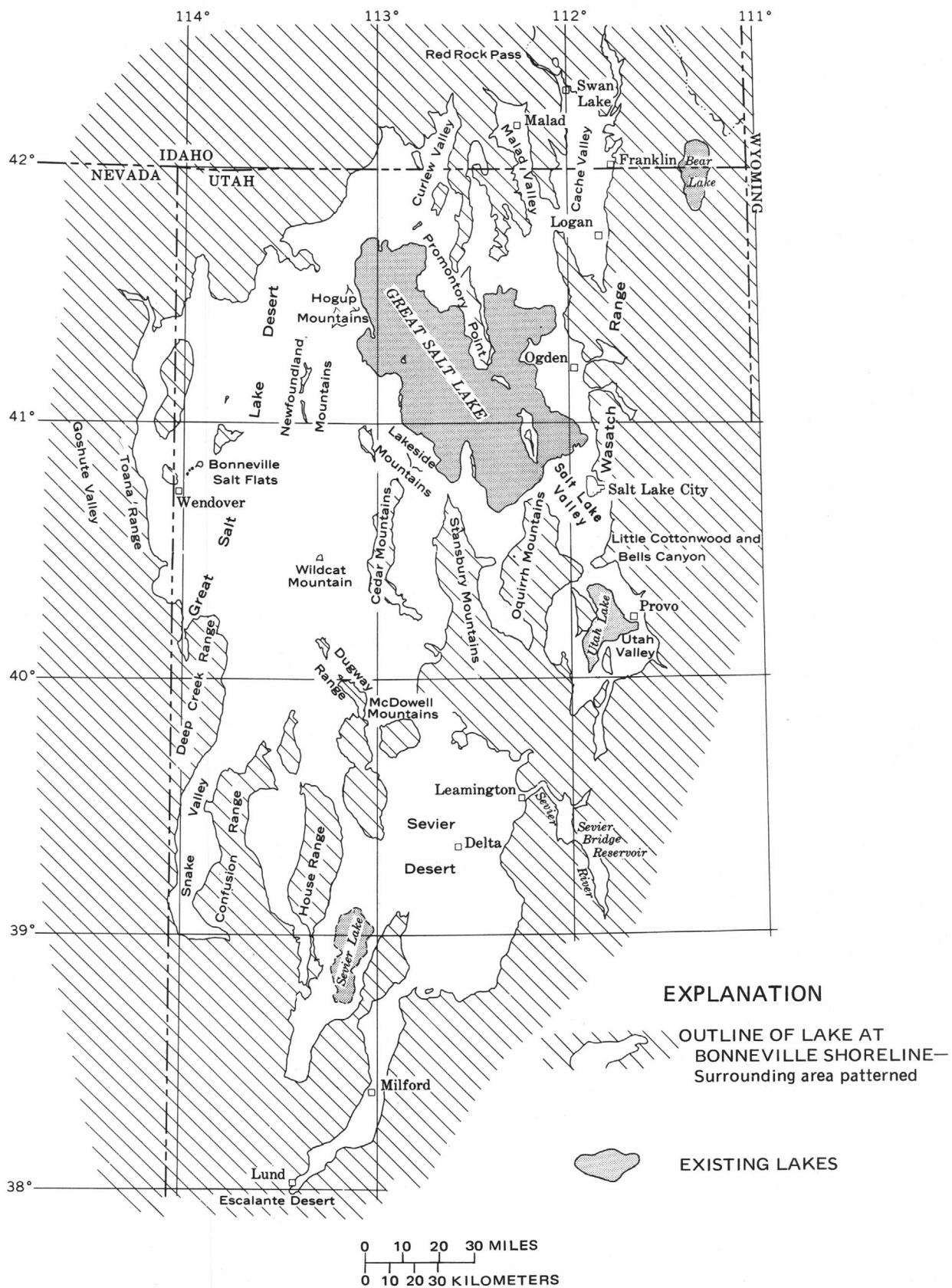


Figure 4.—Extent of Lake Bonneville (modified from Crittenden, 1963, fig. 1).

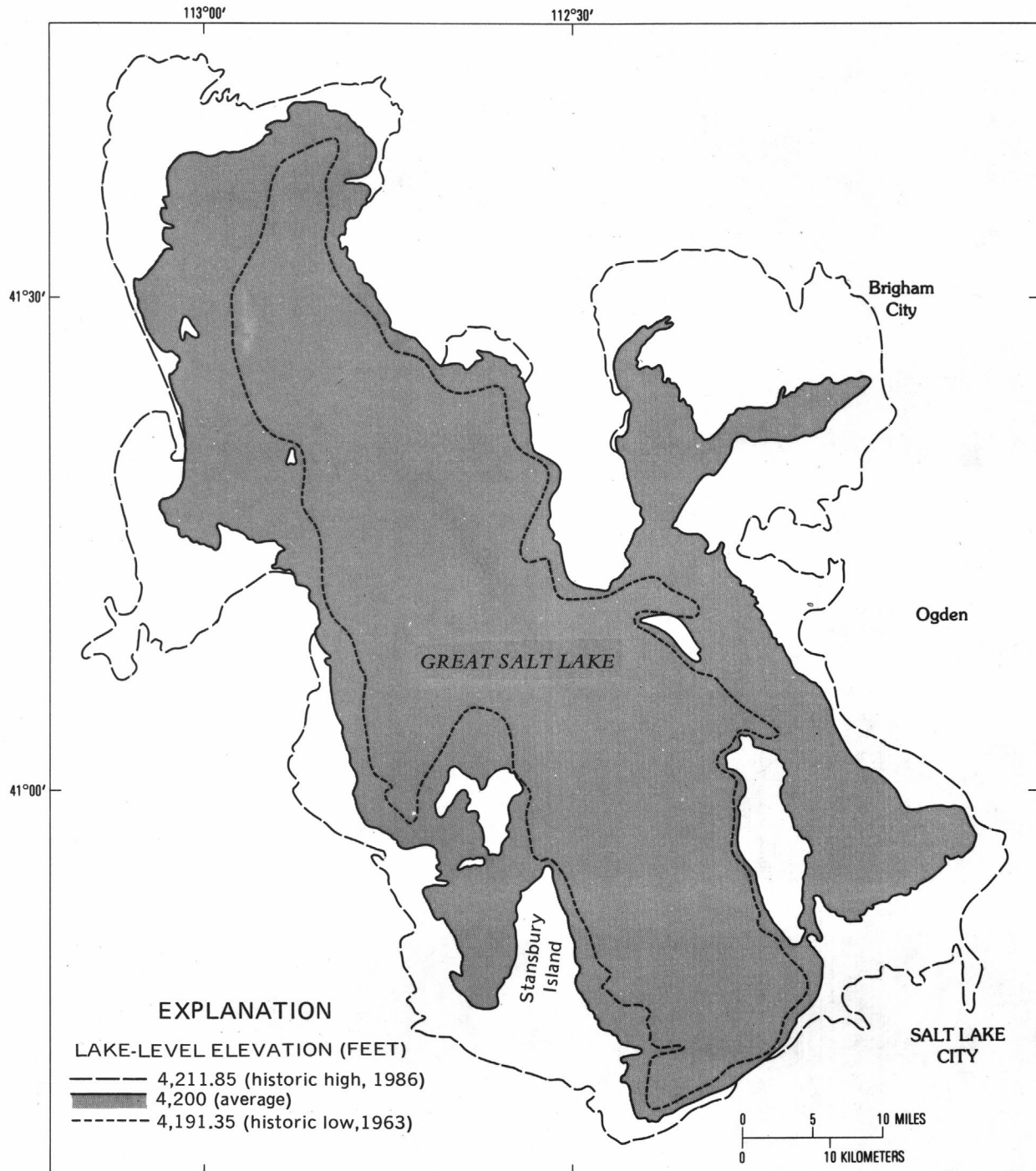


Figure 5.—Area covered by Great Salt Lake at historic high, low, and average levels, 1847-1986 (modified from Currey, 1980, fig. 2).

During 1847-1982, the lake fluctuated annually about 1.5 feet within a range of 20 feet reaching a maximum elevation of 4,211.6 feet in 1873. During 1982-86, above-average precipitation caused the lake to rise 9.6 feet in the first 2 years (from a seasonal low on September 18, 1982 to a seasonal high on July 1, 1984), and the lake rose a total of 12.2 feet during 1982-86. On May 12, 1986, the lake reached 4,211.65 feet, which exceeded the historic peak set in 1873, and on June 3, 1986 a new historic peak of 4,211.85 was recorded. The increase in lake area caused by the increasing lake level resulted in extensive damage to roads, railroads, wildlife-management areas, recreational facilities, and industrial installations that had been established on the exposed lakebed. The increasing lake level also caused changes in the salinity of the lake.

Salinity

The Great Salt Lake is one of the saltiest inland bodies of water in the world. It is much saltier than the oceans but not as salty as the Dead Sea. The proportion of the dissolved ions in the brine has remained fairly constant throughout the recorded history of sampling on the lake. Some variation occurred, however, after the lake was divided by the railroad causeway in 1959, particularly during 1966-70 when halite was precipitated. The lake has a dissolved-mineral content of almost 5 billion tons (Sturm, 1980, p. 155). More than 2 million tons have been added to the lake annually in recent years (Arnow and Mundorff, 1972, table 3). The density of the lake brines resulting from these minerals gave the lake its buoyancy and permitted swimmers to float without effort.

Chloride and sodium comprise about 90 percent (by weight) of the dissolved ions in the brine. The brine also contains large concentrations of dissolved sulfate, magnesium, and potassium and small concentrations of other minor elements (see table A).

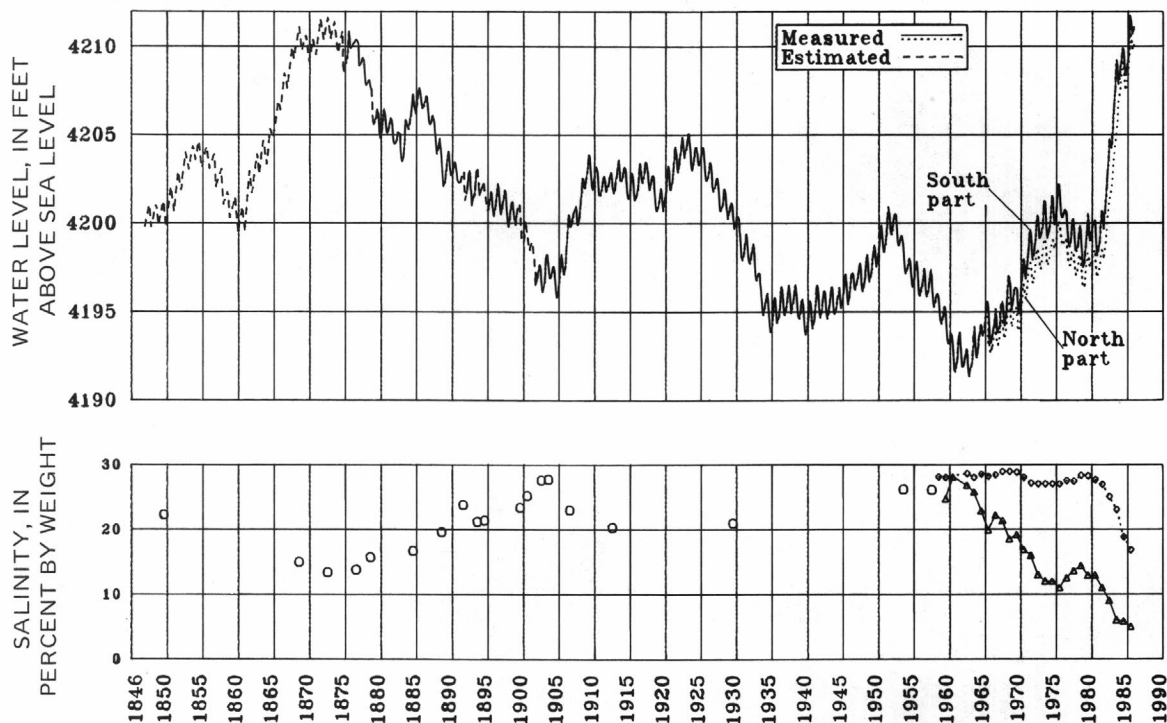
Table A.--Composition of Great Salt Lake brine, in percentage by weight

(Data prior to 1976 from Hahl and Handy (1969, p. 14); data for 1976 adapted from Sturm (1980, p. 155);

data for 1986 from Utah Geological and Mineral Survey, unpublished)

| Date | Silica (SiO ₂) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Lithium (Li) | Bicarbonate (as CO ₃) | Sulfate (SO ₄) | Chloride (Cl) | Fluoride (F) | Boron (B) | Bromine (Br) | Total percentage | Dissolved solids |
|-------------------|-------------------------------|-----------------|-------------------|----------------|------------------|-----------------|--------------------------------------|-------------------------------|------------------|-----------------|--------------|-----------------|---------------------|---------------------|
| Precauseway | | | | | | | | | | | | | | |
| 1850 | -- | -- | 0.27 | 38.29 | -- | -- | -- | 5.57 | 55.87 | -- | -- | -- | 100.0 | 22.3 |
| 1869 | -- | 0.17 | 2.52 | 33.15 | 1.60 | -- | -- | 6.57 | 55.99 | -- | -- | -- | 100.0 | 15.0 |
| August 1892 | -- | 1.05 | 1.23 | 33.22 | 1.71 | -- | -- | 6.57 | 56.22 | -- | -- | -- | 100.0 | 23.8 |
| October 1903 | -- | .16 | 2.76 | 33.17 | 1.66 | -- | 0.09 | 6.68 | 55.48 | -- | -- | -- | 100.0 | 20.3 |
| March 1930 | -- | .17 | 2.75 | 32.90 | 1.61 | -- | .05 | 5.47 | 57.05 | -- | -- | -- | 100.0 | 21.0 |
| South of causeway | | | | | | | | | | | | | | |
| April 1960 | 0.002 | 0.12 | 2.91 | 32.71 | 1.71 | -- | 0.06 | 6.60 | 55.88 | -- | 0.01 | -- | 100.0 | 24.7 |
| December 1963 | .001 | .09 | 3.29 | 31.02 | 1.86 | -- | .07 | 9.02 | 54.64 | -- | .01 | -- | 100.0 | 27.3 |
| May 1966 | .003 | .09 | 3.80 | 30.56 | 2.22 | 0.02 | .10 | 7.99 | 55.21 | 0.003 | .01 | -- | 100.0 | 18.9 |
| June 1976 | -- | .17 | 3.47 | 31.29 | 2.66 | .02 | -- | 7.22 | 55.11 | -- | .01 | 0.04 | 100.0 | 11.0 |
| June 1986 | -- | .24 | 3.66 | 31.14 | 2.41 | -- | -- | 6.99 | 55.56 | -- | -- | -- | 100.0 | 5.0 |
| North of causeway | | | | | | | | | | | | | | |
| December 1963 | 0.001 | 0.09 | 4.66 | 29.08 | 2.75 | -- | 0.09 | 7.28 | 56.04 | -- | 0.01 | -- | 100.0 | 27.5 |
| May 1966 | -- | .05 | 4.38 | 29.67 | 2.61 | 0.02 | .09 | 8.58 | 54.59 | 0.002 | .01 | -- | 100.0 | 26.9 |
| June 1976 | -- | .13 | 3.17 | 32.04 | 2.58 | .02 | -- | 6.62 | 55.39 | -- | .01 | 0.04 | 100.0 | 24.7 |
| June 1986 | -- | .16 | 3.17 | 32.17 | 1.82 | -- | -- | 6.81 | 55.87 | -- | -- | -- | 100.0 | 15.2 |

Prior to the completion of the railroad causeway in 1959, the salinity of the brine varied inversely with the lake level (fig. 6). After the causeway divided the lake into two parts, the movement of brine was restricted. The south part of the lake receives more than 90 percent of the freshwater inflow, and the salinity of the brine in the south part continued to vary inversely with the lake level. The north part of the lake however, has been cut off from most of the direct freshwater inflow, and almost all its inflow consists of brine from the south part. The salinity of the north part remained relatively constant at about 28 percent from at least 1959 to 1982 regardless of lake level. The salinity then decreased during the large lake-level rises of 1983 and 1984. The salinity of the north part continued to decrease after the causeway was breached on August 3, 1984. The causeway was breached to lower the higher level of the south part, which reached a maximum difference of 3.7 feet on July 1, 1984. In 1986, the average salinity was 5.5 percent in the south part of the lake and 17 percent in the north part. This compares to an average salinity of about 3.5 percent for the oceans. This decreasing salinity has affected the biota in the lake.



The symbols generally represent single measurements of salinity as reported in the literature by various investigators. Values plotted for 1892, 1900, 1903, 1904, and 1959-86 represent averages of more than one measurement during the year. Since completion of the railroad causeway in 1959, the north and south parts of the lake have differed in water level and salinity. The values plotted for 1960-86, therefore, represent measurements of salinity in the south (triangles) and north (diamonds) parts. Data for 1977-86 from Utah Geological and Mineral Survey.

Figure 6.—Changes of water level and salinity of Great Salt Lake, 1847-1986.

Biota

Biota of Great Salt Lake are restricted to organisms that can adapt to the hostile environment of the lake brine. In general, as salinity decreases, more organisms are capable of existing in the water. The principal types of organisms capable of tolerating this environment are listed in table B.

During the late 1800's, brine shrimp and brine flies were reported inhabiting the lake (Packard, 1871; Verrill, 1878). In addition, five different types of green and blue-green algae were described by Josephine Tilden in 1898 (Kirkpatrick, 1934, p. 2). Blue-green algae, which live on the bottom sediments of the lake in water less than 15 feet deep, produce deposits of carbonate minerals in ridges and mounds called biostromes as a byproduct of food production, and were described by Eardley (1938) and Carozzi (1962). These algae, in turn, serve as a principal source of food for larvae of brine flies that have been estimated to number 370 million per mile of beach (Garvanian and Havertz, 1973). Between 1930 and 1959, the discovery of additional organisms in the lake was limited to the identification by Evans (1960) of about 15 species of bacteria and 8 species of protozoa. During the early 1970's, small aquatic insects called "water boatmen" were collected at the south end of the lake (Rawley and others, 1974, p. 25). These insects are predatory on brine shrimp and brine flies.

Table B.--Principal organisms found in Great Salt Lake, listed in general decreasing order of their tolerance to salinity

[From Arnow and Stephens, in press, table 3]

| Common name | Scientific name | Principal habitat (Dates of occurrence) |
|----------------------------|---|--|
| Red bacteria | <u>Halobacterium</u> sp. <u>Halococcus</u> sp. | Water and sediment of the north part (1960-83) |
| Red brine algae | <u>Dunaliella salina</u> | Water of the north part (1960-83) |
| Biostrome blue-green algae | <u>Coccochloris elebens</u> | Biostromes of the south part (unknown-1983) |
| Green brine algae | <u>Dunaliella viridis</u> | Water of the south part (unknown-1983); Water of the north part (1983-86) |
| Brine fly (two species) | <u>Ephydra cinerea</u> <u>Ephydra hians</u> | Sediment and biostromes of the south part (unknown-1986) |
| Brine shrimp | <u>Artemia salina</u> | Water of the south part (unknown-1986) Water of the north part (unknown-1986) |
| Blue-green algae | <u>Nodularia spumigena</u> | Water of the south part (1983-86) |
| Diatoms (four species) | <u>Amphora coffeiformis</u> <u>Navicula graciloides</u> <u>Navicula tripunctata</u> <u>Rhopalodia musculus</u> | Do. Do. Do. Do. |
| Water boatman | <u>Trichocorixa verticalis</u> | Shallow surface water of the south part (1973-86) |

The north part of the lake was a distinct red until about 1982 when salinity began to decrease. This color was caused by a pigment called bacteriorhodopsin which allows bacteria to use light as an alternative energy source to respiration in environments where oxygen is limited. The north part also contains a species of algae that has a red pigment. This algae is closely related to the green brine algae of the south part. The dominance of the red bacteria in the north part is evident in biomass calculations from data in Post (1980, p. 314). The bacterial population in the north part of the lake exceeded 2 million tons. Red algae comprised only 8 percent of the biomass of the bacteria and brine shrimp comprised less than 0.05 percent.

As salinity decreased in the south part to near 14 percent, 29 species of algae, which included 17 species of diatoms, were identified (Felix and Rushforth, 1980, p. 306). When the lake was more saline, only two diatoms were present (Rushforth and Felix, 1982, p. 158).

Salinity in the south part continued to decrease to 5.5 percent in 1986, causing changes in the biota of the lake. A filamentous blue-green alga, *Nodularia spumigena*, common in a freshwater bay adjacent to the lake but rare in the lake itself, was quite common throughout the south part of the lake by mid-1984. The harvest of brine-shrimp eggs, which had been economically feasible only in the south part of the lake, decreased from 85 tons in 1965 to less than 9 tons in 1981. However, the harvest of brine-shrimp eggs in the north part has been increasing since 1982 because of salinity decreasing from 28 to 17 percent, which is more suitable for the brine-shrimp population. A record harvest of brine-shrimp eggs was anticipated for 1985 (Kevin Sanders, Sanders Brine Shrimp Co., Ogden, Utah, oral commun., 1986). Of the two species of brine flies living in the lake, the smaller *Ephydra cinerea* has been 100 times more abundant than *Ephydra hians* (Rushforth and Felix, 1982, p. 158) but with the decreasing salinity of the south part *Ephydra hians* is now becoming more dominant (Betinna Rosay, Salt Lake City Mosquito Abatement District, oral commun., 1986). A breeding population of rainwater killifish (*Lucania parva*) was able to enter the lake near Stansbury Island in 1986 because of the decreasing salinity of the lake. The fish likely entered the lake from warm spring water discharging in the area (Salt Lake Tribune, August 8, 1986).

GROUND WATER

By James L. Mason

Summary of Conditions

According to a study completed in the spring of 1986 (Mason and others, 1986), the estimated withdrawal of water from wells in Utah during calendar year 1985 was about 733,000 acre-feet, which is about 110,000 more than during 1984 and about 49,000 less than the average annual withdrawal for 1975-84 (fig. 7). Most of the increase was due to an increase in withdrawal for irrigation. Withdrawal for irrigation was 427,000 acre-feet during calendar year 1985, which is 89,000 more than the revised estimate for 1984. Other withdrawals, in acre-feet, for calendar year 1985 included: 80,000 for industry, 6,000 less than during 1984; 159,000 for public supply, 21,000 more than during 1984; and 69,000 for domestic and stock use, 9,000 more than during 1984. The areas of major ground-water development from which most of the ground water was withdrawn by wells in Utah during calendar year 1985 are shown in figure 8.

The quantity of water withdrawn from wells is related to demand and availability of water from other sources, which in turn, is related to local climatic conditions. Precipitation in most of Utah during calendar year 1985 was closer to average than during the previous 3 years, although still generally above average (National Oceanic and Atmospheric Administration, 1986). Graphs of cumulative departure from average annual precipitation are shown for 32 weather stations in the report of Mason and others (1986); nine stations recorded below-average precipitation as compared to the 0 to 5 stations that recorded below-average precipitation during calendar years 1982-84. This was the fourth consecutive calendar year of generally above-average precipitation in Utah. The largest departures above the average annual precipitation for calendar year 1985, were 5.04 inches recorded at Fillmore and 5.52 inches at Spanish Fork.

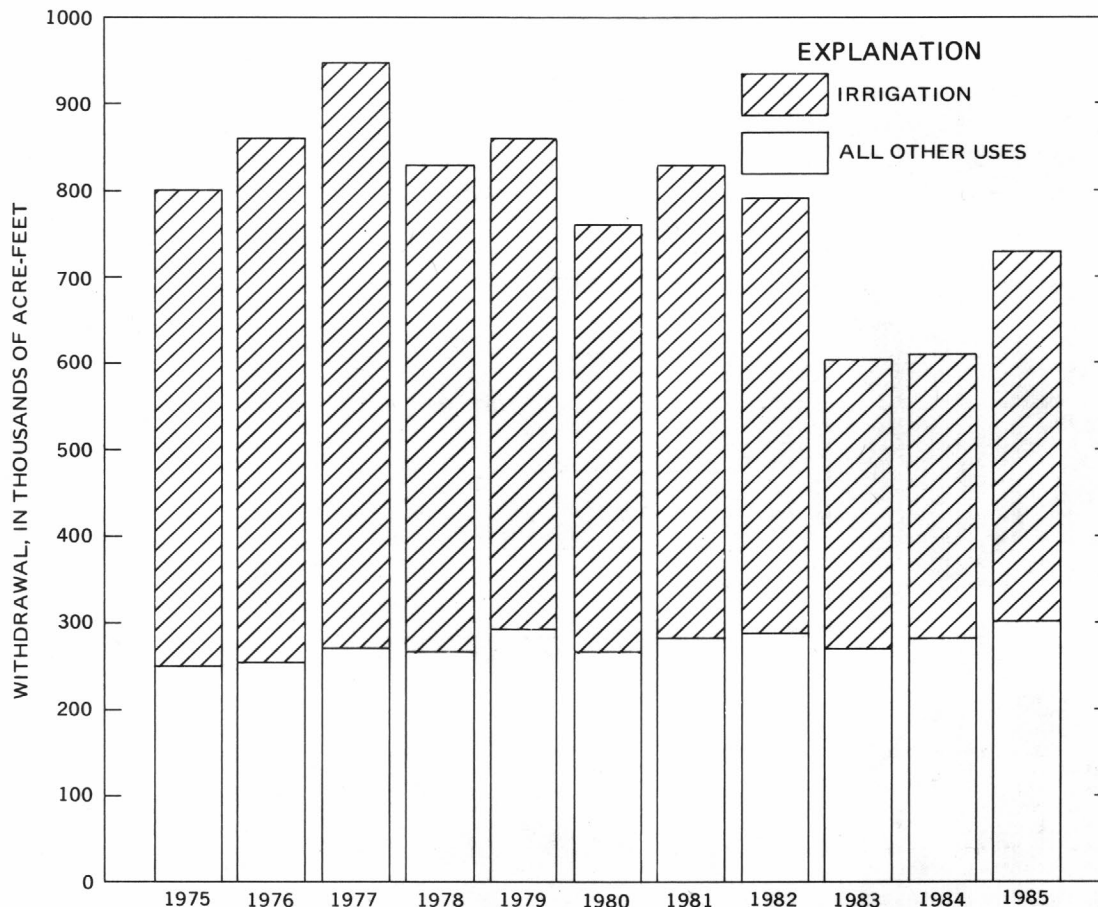


Figure 7.—Ground-water withdrawals in Utah.

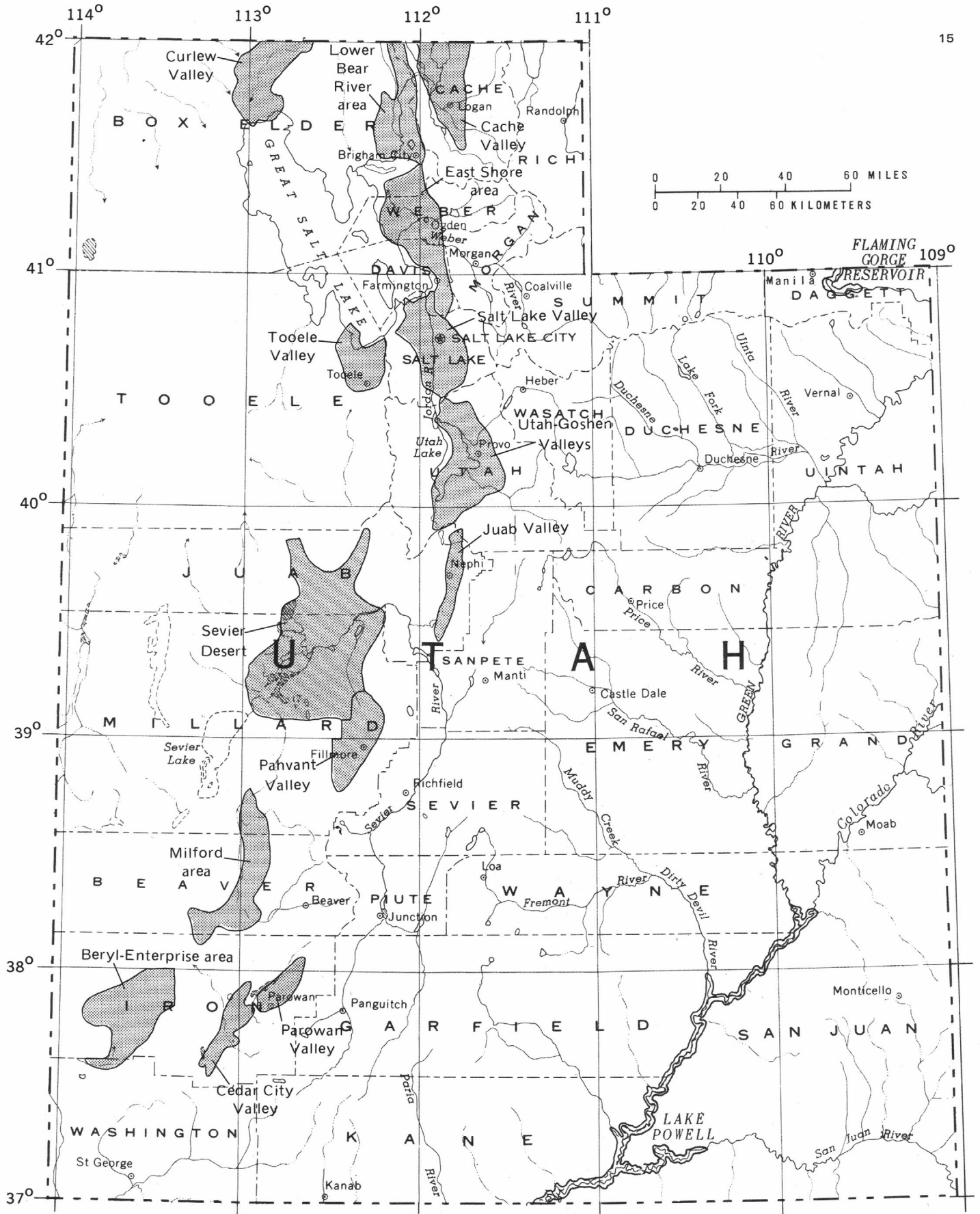


Figure 8.—Areas of major ground-water development.

Due to closer to average precipitation in calendar year 1985 compared to the preceding 3 years, ground-water withdrawals for calendar year 1985 increased by 18 percent compared to withdrawals for 1984, but were 6 percent less than the 1975-84 average annual withdrawals. Withdrawals for calendar year 1985 were less than the 1975-84 average annual withdrawals in 12 of the 16 areas specifically referred to in the report by Mason and others (1986). There were only minor changes in ground-water levels in most of the State from spring of 1985 to spring of 1986. Water levels declined slightly in most areas due to increased ground-water withdrawals since 1984. In a few areas, water levels rose slightly where withdrawals have not increased substantially. However, in local areas, as in Pahvant and Tooele Valleys, where precipitation was much above the average annual precipitation, recharge to the ground-water reservoirs continued to be large. This resulted in large water-level rises in local areas where, in addition, ground-water withdrawals remained small due to the availability of surface water.

The number of wells drilled during calendar year 1985, as indicated by well-drillers' reports filed with the Utah Division of Water Rights, was about 15 percent more than reported for 1984. The number of large-diameter wells, which are constructed mostly for public supply, irrigation, and industrial use, was more than three times the number reported for 1984.

Conditions in Selected Areas

Some of the largest water-level rises in the State continued to be in Pahvant Valley, where the ground-water withdrawal during calendar year 1985 was about 80 percent of the 1975-84 average. As in the previous 3 years, precipitation during 1985 at Fillmore was above average, 134 percent of the 1931-85 average. Water levels rose from March 1985 to March 1986 in the northeastern and southwestern parts of the valley with the maximum measured rise of about 14 feet occurring in the southwestern part. However, there were minor water-level declines in the central part of the valley where most of the ground-water withdrawals occurred. A water-level hydrograph for well (C-20-5)13daa-1 west-southwest of Holden is presented in figure 9.

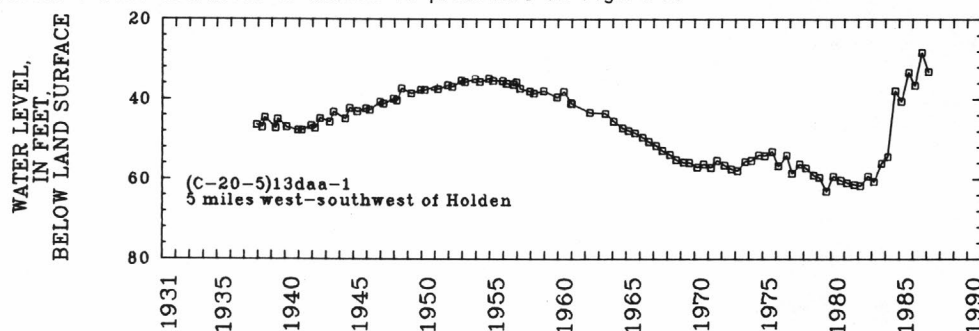


Figure 9.—Hydrograph of a well in Pahvant Valley.

Similar to Pahvant Valley, water levels in the East Shore area also rose sharply, as much as 33 feet, from March 1982 to March 1985 (Seller, 1986, fig. 15). However, from March 1985 to March 1986, water levels generally declined throughout the area. Maximum declines of almost 17 feet occurred in the recharge area, whereas rises of almost 5 feet occurred locally in the discharge area. The declines can be attributed to increased ground-water withdrawals for public supply and industry and below-average precipitation. A hydrograph for well (B-5-2)33ddc-1 west-northwest of Clearfield, is shown in figure 10, indicating about a 7-foot decline from March 1985 to March 1986. Withdrawal of water from wells during calendar year 1985 was 67,000 acre-feet, 18,000 acre-feet more than reported for 1984. Part of this increase in ground-water withdrawal was due to a revision in the method of estimating total discharge from flowing wells. Precipitation during calendar year 1985 at the East Shore area was 25 percent below the 1937-85 average.

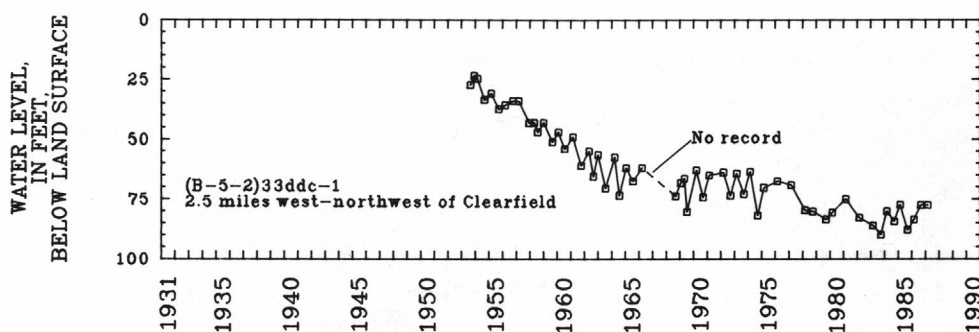


Figure 10.—Hydrograph of a well in the East Shore area.

During calendar year 1985, ground-water withdrawal in Tooele Valley was about 21,000 acre-feet, which was a decrease of 2,000 acre-feet from that reported for 1984 and 7,000 acre-feet less than the average withdrawal for 1975-84. Despite above-average precipitation for the fourth consecutive year, water levels declined as much as 7 feet along the valley margins from March 1985 to March 1986. These declines can be attributed to decreased flow in and decreased recharge from streams as compared to the preceding 3 years and to local increases in ground-water withdrawals, although water levels rose as much as 6 feet in the center of the valley.

Ground-water withdrawals in the Salt Lake Valley during calendar year 1985 totaled about 110,000 acre-feet, or about 8,000 acre-feet more than during 1984. Withdrawal for public supply was 69,100 acre-feet or about 12,700 acre-feet more than during 1984. Despite above-average precipitation for the area, water levels generally declined throughout most of the valley from February 1985 to February 1986, with the largest decline, nearly 18 feet, measured in a well on the east side of Salt Lake City. This downward trend after 3 years of water-level rises is shown in the hydrograph for well (D-2-1)34acb-1 east of Sandy (fig. 11). Water levels rose in the south-central part of the valley with the largest rise, nearly 17 feet, measured in a well in the southwest part of the valley.

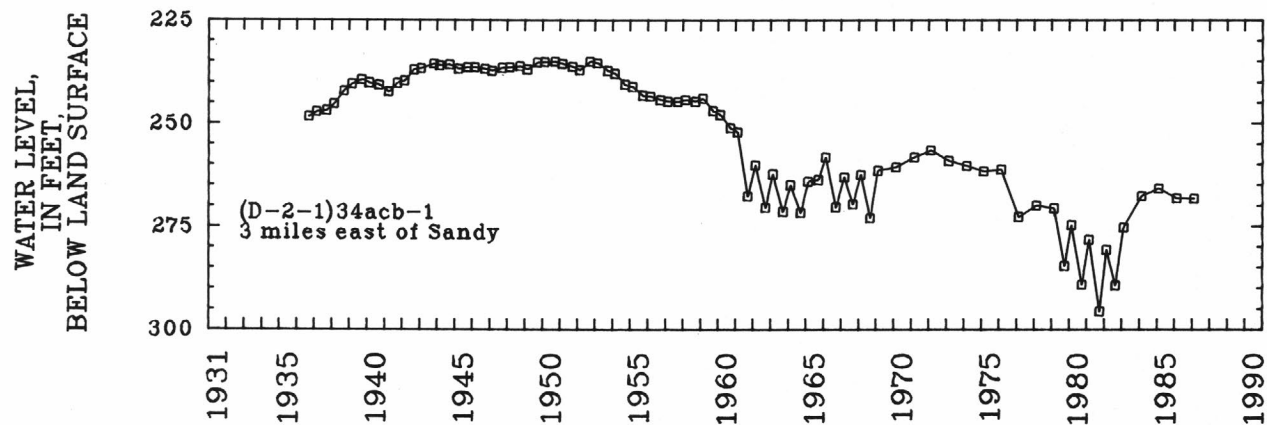


Figure 11.—Hydrograph of a well in Salt Lake Valley.

Withdrawal of water from wells in the Beryl-Enterprise area was about 100,000 acre-feet during calendar year 1985. This was an increase of 5,000 acre-feet from the 1984 withdrawal and an increase of 16,000 acre-feet from the average withdrawal for 1975-84. Ground-water withdrawals for irrigation increased, whereas withdrawals for industrial use decreased. Ground water withdrawn for industrial use, 19,000 acre-feet, was due to mine dewatering and was returned to the ground-water reservoir as recharge in an adjacent area except for minor evaporation losses. Despite above-average precipitation, water levels continued to decline throughout most of the area due to large withdrawals (fig. 12). Water levels rose slightly in the southwest corner of the area due to recharge from Shoal Creek.

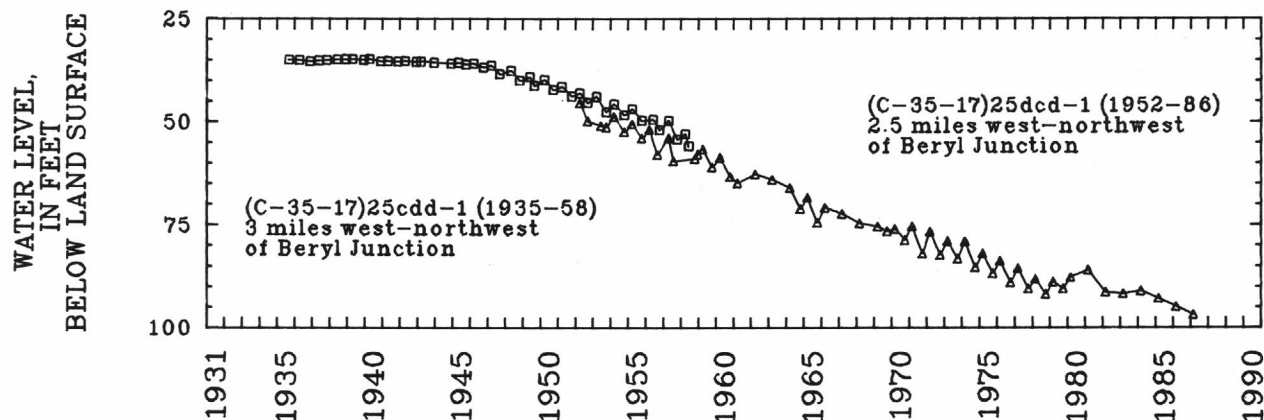


Figure 12.—Combined hydrograph of two wells in the Beryl-Enterprise area of Escalante Valley.

Although precipitation continued above average during calendar year 1985 in the Milford area, the departure from average was less than in 4 of the 5 preceding years. In addition, flow in the Beaver River was 57,100 acre-feet during calendar year 1985, 37,700 less than during the previous year. These two factors resulted in an increase in ground-water withdrawal, which was 44,000 acre-feet during 1985. This is an increase of 12,000 acre-feet from the amount reported for 1984, but 11,000 less than the 1975-84 average annual withdrawal. Water levels declined by as much as 10 feet from March 1985 to March 1986 within the pumped area. This sharp reversal of the rising water-level trend can be seen in the hydrograph of well (C-29-10)6ddc-2 south of Milford (fig. 13), although water levels rose slightly from March 1985 to March 1986 in the northeastern and southwestern parts of the area.

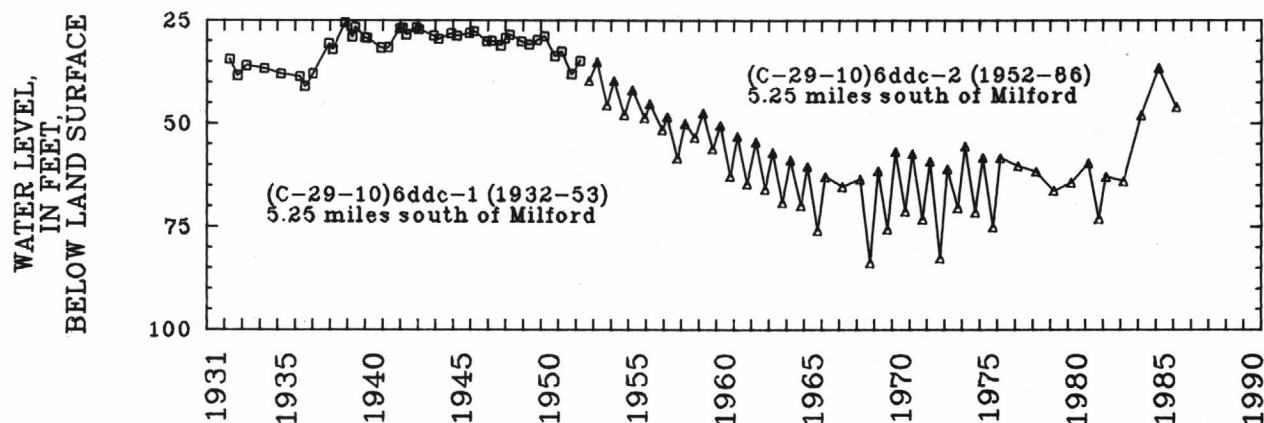


Figure 13.—Combined hydrograph of two wells in the Milford area of Escalante Valley.

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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 equal to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

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, while others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

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

Fecal streptococcal bacteria are bacteria found also in the intestines of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as Gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms which produce red or pink colonies within 48 hours at $35^{\circ}\text{C} \pm 1.0^{\circ}\text{C}$ on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

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.

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 foot per second (ft³/s, ft³/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

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

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

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

Dissolved refers to that material in a representative water sample which passes through a 0.45 μ m membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

Drainage area of a stream at a specified 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 stream above the specified point. Figures of drainage area given herein include all closed basins, or non-contributing 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.

Epilimnion is the uppermost region of a stratified lake which is characterized as having water of nearly uniform temperature, and dissolved oxygen concentrations generally near saturation.

Eutrophic is a condition in which the water in the lake, pond, or reservoir is enriched with plant nutrients such as nitrogen and phosphorus which results in large amounts of plant and algal production. As the plants and algae die and sink to the bottom, an organic sediment is created which removes oxygen from the water as it decays.

Eutrophication is the natural process of enrichment and aging of a body of water that may be accelerated by the activities of man. Pertains to water bodies in which primary production of high because of a large supply of available nutrients.

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 computed as the sum of equivalents of polyvalent cations and is expressed as the equivalent concentration of calcium carbonate (CaCO₃).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or 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 eight-digit number.

Hypolimnion is the lower region of a stratified lake which is characterized as having water with cooler temperatures, and low to very low concentrations of dissolved oxygen.

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Measuring point (MP) is an arbitrary permanent reference point from which the distance to the water surface in a well is measured to obtain the water level.

Meso-eutrophic is intermediate stage in lake classification between the oligotrophic and eutrophic stages, in which primary production occurs at a greater rate than in oligotrophic lakes, but at a lesser rate than in eutrophic lakes. This is due to a moderate supply of nutrients.

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

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents 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 dry sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a geodetic datum derived from a general adjustment of the the first-order level nets of both the United States and Canada, formerly called "MEAN SEA LEVEL."

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 a particle determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

| <u>Classification</u> | <u>Size (mm)</u> | <u>Method of analysis</u> |
|-----------------------|------------------|---------------------------|
| Clay | 0.00024 - 0.004 | Sedimentation |
| Silt | .004 - .062 | Sedimentation |
| Sand | .062 - 2.0 | Sedimentation or sieve |
| Gravel | 2.0 - 64.0 | Sieve |

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

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

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).

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).

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

Suspended-sediment discharge (tons/day) is the rate at which dry mass of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) \times discharge (ft^3/s) \times 0.0027.

Suspended-sediment load is a general term that refers to material in suspension. It is not synonymous with either discharge or concentration.

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 mass or volume, that passes a section during a given time.

Total sediment load or total load is a term which refers to the total sediment (bed load plus suspended-sediment load) that is in transport. It is not synonymous with total-sediment discharge.

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance 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 microsiemens per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in microsiemens). 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.

Stratification is a natural process in which bodies of standing water become colder near the bottom and warmer near the surface. The two layers are separated by a thinner middle layer characterized by a rapidly changing temperature profile.

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.

Surface area of a lake is that area outlined on the latest U.S.G.S 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 planimeted. All areas shown are those for the stage when the planimeted map was made.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is associated with the material retained on a 0.45-micrometer filter.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 μ m membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration of the constituent, 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 is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determined all of the constituent in the sample.)

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross-section per unit of time. This term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

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.

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1980, is called the "1980 water year".

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976).

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

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

DOWNSTREAM ORDER AND STATION NUMBER

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

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

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

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

The well and miscellaneous site 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.

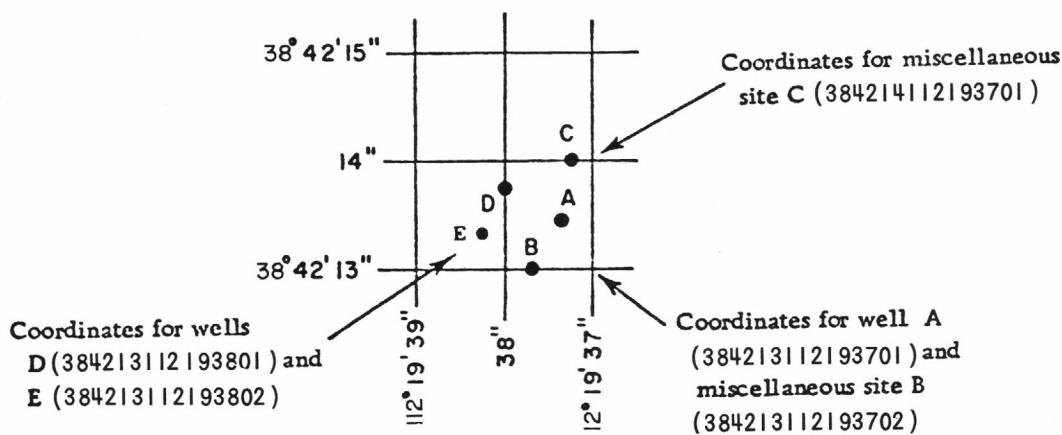


Figure 14.—System for numbering wells and miscellaneous sites (latitude and longitude).

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 counter-clockwise 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 a network of sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

National stream-quality accounting network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

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.

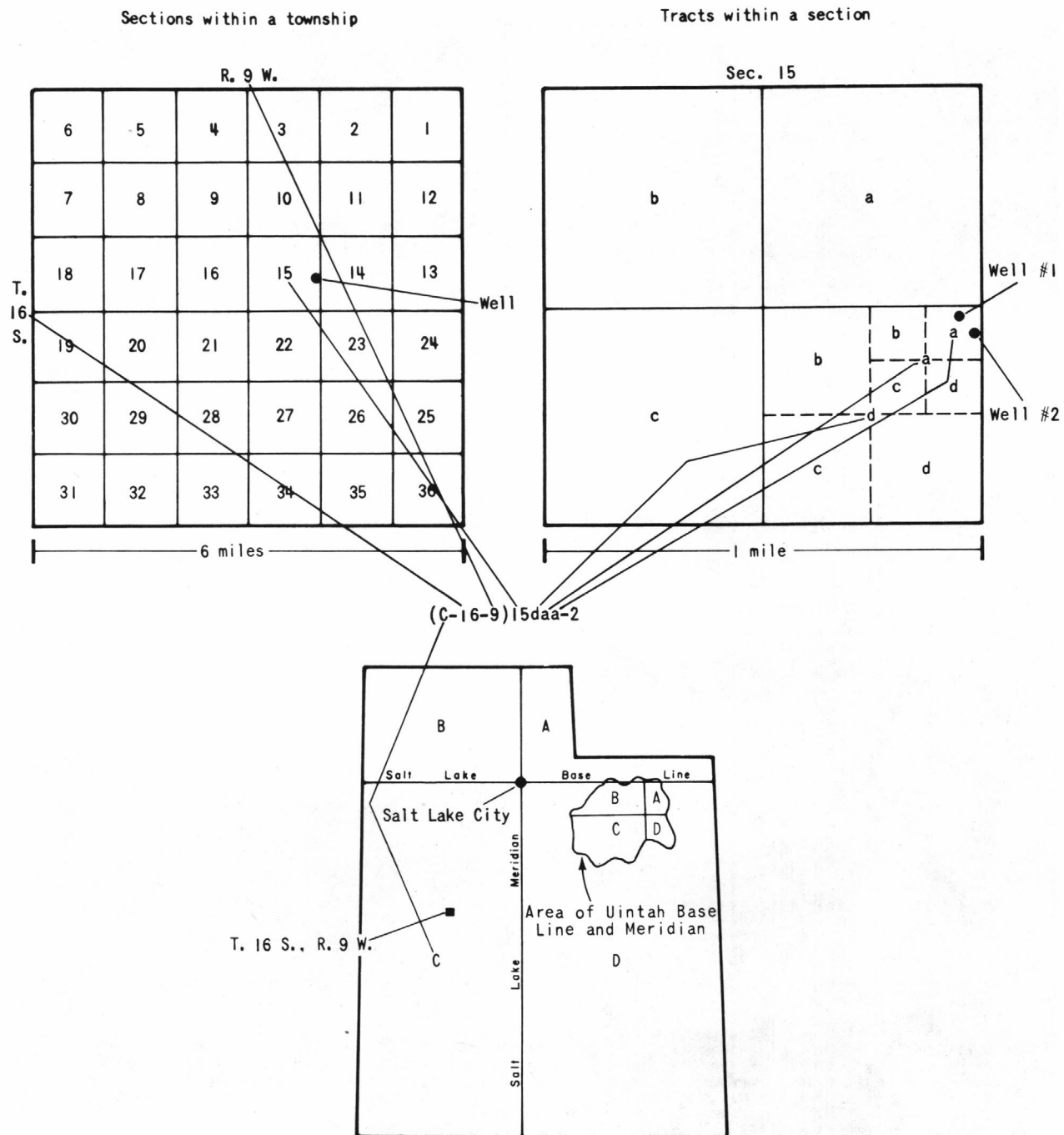


Figure 15.—System for numbering wells (township and range).

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 19.

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 tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

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

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

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

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 AgenciesOther 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 25 sites during the 1986 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 by 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 from that office upon request.

EXPLANATION OF WATER-QUALITY RECORDSCollection 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 collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

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

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

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

Specific conductance and temperature only were measured at 162 stations in Utah, usually at 1-month intervals (fig. 18). In the tables on pages 346 to 376 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.

WATER RESOURCES DATA FOR UTAH, 1986
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 hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

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

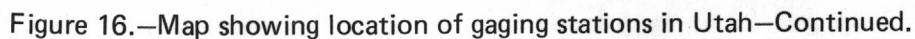
The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to 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.

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- 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-A10. *Discharge ratings at gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 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-A13. *Computation of continuous records of streamflow*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.
- 3-A14. *Use of flumes in measuring discharge*, by F. A. Kilpatrick and V. R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.
- 3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.
- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.

- 3-C1. *Fluvial sediment concepts* by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. *Field methods for measurement of fluvial sediment*. by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. *Computation of rate and volume of stream depletion by wells* by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. *Methods for determination of inorganic substances in water and fluvial sediments* by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.
- 5-A2. *Determination of minor elements in water by emission spectroscopy*. by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*. edited by P. E. Greeson, T. A. Ehlike, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.
- 5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*. by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments*, by L. C. Friedman and D. E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 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-A2. *Installation and service manual for U.S. Geological Survey manometers* by J. D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 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.



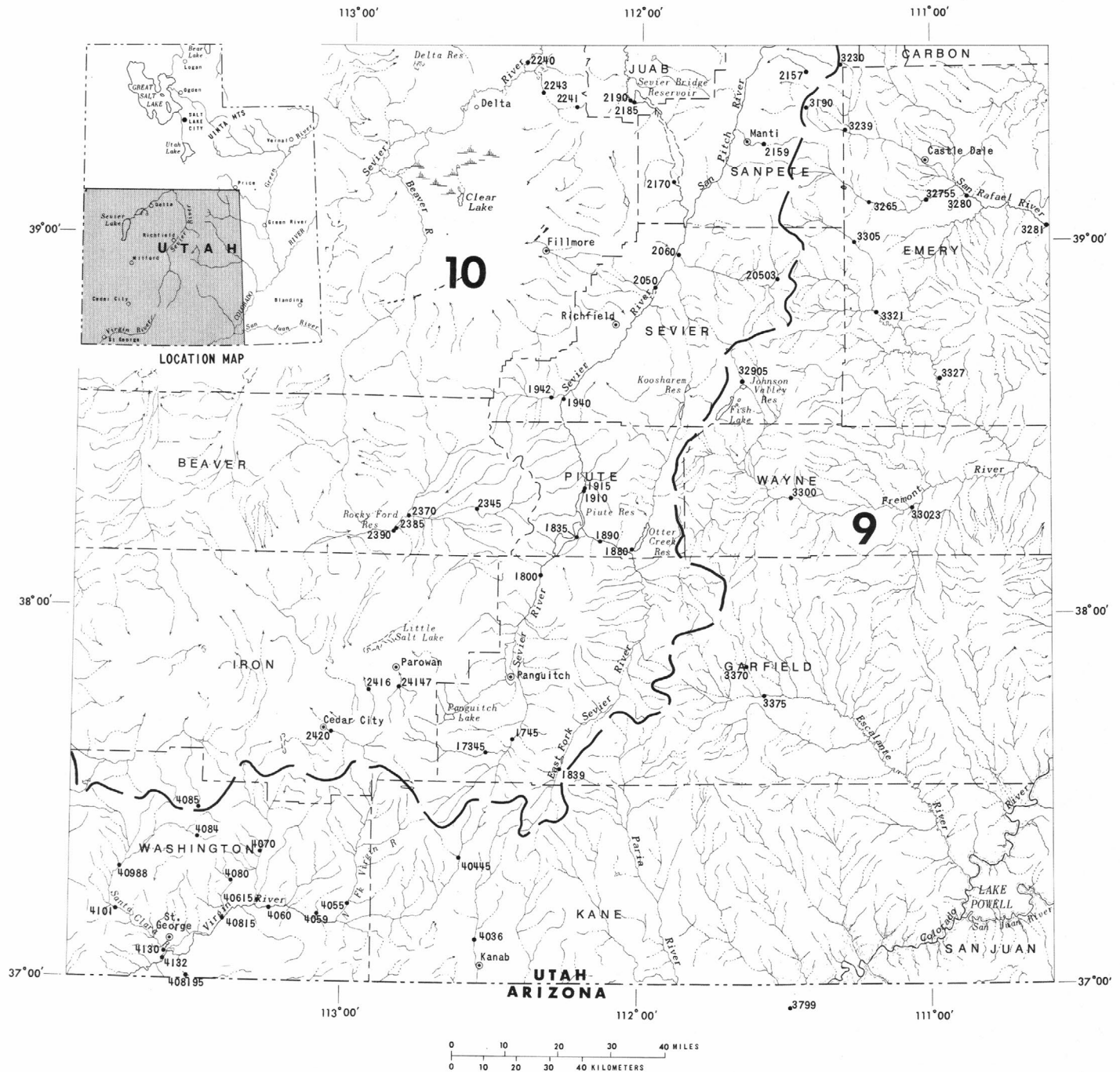


Figure 16.—Location of gaging stations in Utah—Continued.

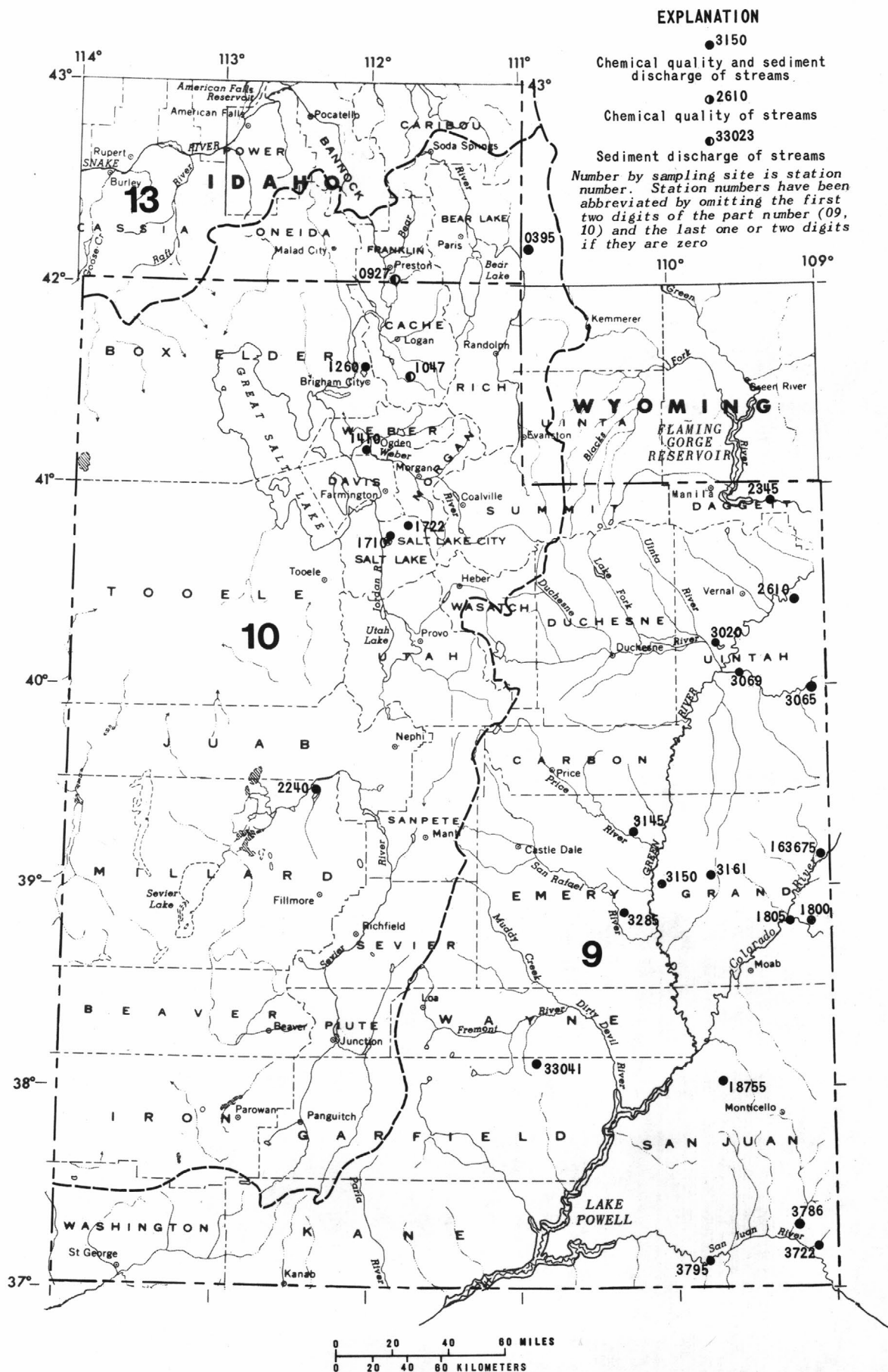


Figure 17.—Map showing location of surface-water-quality stations in Utah.

HYDROLOGIC-DATA STATION RECORDS

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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 mi².

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Elevation of gage is 4,325 ft above National Geodetic Vertical Datum of 1929, from topographic map. May 1951, to October 1979, water-stage recorder at site 5.7 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Dec. 9 to 17. 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.--35 years, 6,385 ft³/s; 4,626,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 69,800 ft³/s, May 27, 1984, gage height, 16.12 ft, (from high-water mark); minimum daily, 960 ft³/s, Sept. 7, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33,800 ft³/s at 0300 June 8, gage height, 10.33 ft; minimum daily, 4,620 ft³/s, Aug. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|---------------|--------|------------|--------|-----------|--------|----------|---------|--------------|--------|--------|--------|
| 1 | 7210 | 6260 | 6940 | 5800 | 6070 | 6880 | 13300 | 16300 | 25200 | 18300 | 7450 | 5770 |
| 2 | 7180 | 6190 | 6420 | 5590 | 6070 | 6830 | 14600 | 18700 | 25500 | 17300 | 7150 | 5860 |
| 3 | 6400 | 6060 | 6580 | 5550 | 6090 | 6910 | 16300 | 21300 | 25300 | 16900 | 6780 | 5840 |
| 4 | 5850 | 5900 | 6660 | 5490 | 6050 | 7070 | 14200 | 23900 | 27800 | 16700 | 6510 | 5870 |
| 5 | 5570 | 5920 | 6520 | 5310 | 5740 | 7160 | 12600 | 26300 | 30300 | 18100 | 6400 | 5670 |
| 6 | 5580 | 5940 | 6420 | 5030 | 5650 | 7250 | 11500 | 26100 | 31000 | 20200 | 6390 | 5470 |
| 7 | 5620 | 6010 | 6370 | 4940 | 5600 | 7120 | 11000 | 24000 | 32100 | 19300 | 6070 | 5280 |
| 8 | 6810 | 5920 | 6460 | 4960 | 5500 | 7310 | 11200 | 22700 | 32800 | 17800 | 5990 | 5230 |
| 9 | 9930 | 5940 | 6400 | 4880 | 5580 | 7870 | 11600 | 21200 | 31100 | 17000 | 5760 | 5480 |
| 10 | 8970 | 6010 | 6400 | 4830 | 5460 | 8400 | 11900 | 20200 | 29200 | 17000 | 5680 | 6360 |
| 11 | 9140 | 6080 | 6200 | 5050 | 5230 | 8220 | 11900 | 18800 | 26100 | 17000 | 5520 | 7810 |
| 12 | 9850 | 6440 | 5600 | 5170 | 4930 | 8060 | 11900 | 18300 | 23400 | 15600 | 5410 | 7500 |
| 13 | 9660 | 6720 | 5200 | 5070 | 5160 | 7820 | 12300 | 18000 | 22400 | 14900 | 5480 | 7090 |
| 14 | 9200 | 6840 | 5300 | 4860 | 5370 | 7760 | 12300 | 17700 | 22700 | 14600 | 5670 | 6880 |
| 15 | 8250 | 7120 | 5500 | 5290 | 5430 | 7620 | 11500 | 18000 | 22800 | 14100 | 5530 | 6640 |
| 16 | 7770 | 6910 | 5600 | 5320 | 6020 | 7630 | 11100 | 19600 | 23600 | 14100 | 5340 | 6530 |
| 17 | 7280 | 6790 | 5840 | 5470 | 6050 | 7570 | 11500 | 20200 | 23500 | 14800 | 5210 | 6320 |
| 18 | 7120 | 6790 | 5890 | 5540 | 5900 | 7510 | 11900 | 19700 | 23500 | 14500 | 5010 | 6110 |
| 19 | 6680 | 6780 | 6000 | 5670 | 6050 | 6760 | 11900 | 19000 | 23500 | 13400 | 4740 | 6070 |
| 20 | 6560 | 6790 | 6100 | 5910 | 6770 | 6410 | 11100 | 19100 | 23100 | 12900 | 4780 | 6190 |
| 21 | 6570 | 6670 | 5960 | 5680 | 7100 | 6340 | 10800 | 21100 | 21900 | 12900 | 4620 | 6030 |
| 22 | 6690 | 6350 | 5900 | 5740 | 6370 | 6140 | 11700 | 23900 | 21500 | 12400 | 4890 | 5800 |
| 23 | 6730 | 6020 | 5910 | 5710 | 6090 | 6440 | 13900 | 25300 | 20600 | 12100 | 4960 | 5880 |
| 24 | 6660 | 6020 | 5820 | 5740 | 6020 | 6770 | 16100 | 26000 | 19500 | 11600 | 4990 | 6910 |
| 25 | 6600 | 6370 | 5820 | 5780 | 6170 | 6750 | 16900 | 25700 | 18700 | 11100 | 5210 | 8120 |
| 26 | 6560 | 6600 | 5810 | 5740 | 6460 | 7290 | 17100 | 25800 | 17900 | 10600 | 5640 | 8110 |
| 27 | 6580 | 6490 | 5660 | 5740 | 6740 | 7490 | 16500 | 27400 | 19400 | 10300 | 5590 | 8440 |
| 28 | 6560 | 6080 | 5560 | 5770 | 6920 | 7970 | 15000 | 27900 | 19700 | 9620 | 5190 | 7960 |
| 29 | 6660 | 5910 | 5520 | 5780 | --- | 8650 | 14000 | 27800 | 19200 | 8930 | 5370 | 8500 |
| 30 | 6670 | 6660 | 5650 | 5870 | --- | 9470 | 14400 | 27700 | 18800 | 8220 | 5170 | 8300 |
| 31 | 6600 | --- | 5760 | 5920 | --- | 10600 | --- | 25800 | --- | 7840 | 5460 | --- |
| TOTAL | 223510 | 190580 | 185770 | 169200 | 166590 | 232070 | 392000 | 693500 | 722100 | 440110 | 173960 | 198020 |
| MEAN | 7210 | 6353 | 5993 | 5458 | 5950 | 7486 | 13070 | 22370 | 24070 | 14200 | 5612 | 6601 |
| MAX | 9930 | 7120 | 6940 | 5920 | 7100 | 10600 | 17100 | 27900 | 32800 | 20200 | 7450 | 8500 |
| MIN | 5570 | 5900 | 5200 | 4830 | 4930 | 6140 | 10800 | 16300 | 17900 | 7840 | 4620 | 5230 |
| AC-FT | 443300 | 378000 | 368500 | 335600 | 330400 | 460300 | 777500 | 1376000 | 1432000 | 873000 | 345000 | 392800 |
| CAL YR 1985 | TOTAL 3911710 | | MEAN 10720 | | MAX 38200 | | MIN 3580 | | ACFT 7759000 | | | |
| WTR YR 1986 | TOTAL 3787410 | | MEAN 10380 | | MAX 32800 | | MIN 4620 | | ACFT 7512000 | | | |

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Colorado, 1986."

COLORADO RIVER MAIN STEM

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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1983 to September 1986 (discontinued).

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

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation of approximately 300 acres above gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 541 ft³/s Aug. 29, 1986, gage height, 8.55 ft; minimum discharge, 0.29 ft³/s July 19, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 541 ft³/s Aug. 29, gage height, 8.55 ft; minimum discharge, 1.2 ft³/s Aug. 19, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | e3.9 | e3.9 | 5.7 | e2.8 | e4.0 | 5.2 | 8.6 | 9.8 | 7.0 | 3.7 | 4.3 | 7.8 |
| 2 | e3.4 | e3.7 | 6.5 | e2.8 | e4.0 | 5.5 | 11 | 9.9 | 7.7 | 3.1 | 4.0 | 8.9 |
| 3 | e3.1 | e3.7 | 7.4 | e2.6 | e4.3 | 5.7 | 11 | 9.8 | 7.8 | 3.1 | 3.0 | 3.8 |
| 4 | e3.5 | e3.6 | 6.2 | e2.9 | e4.1 | 5.6 | 8.2 | 9.9 | 8.0 | 3.2 | 2.7 | 3.2 |
| 5 | e3.5 | e3.5 | 4.8 | e2.7 | e4.2 | 5.7 | 7.9 | 9.8 | 7.6 | 3.9 | 2.4 | 2.9 |
| 6 | e3.6 | e3.3 | 5.3 | e2.5 | e4.3 | 5.8 | 8.1 | 10 | 7.0 | 3.7 | 2.0 | 2.7 |
| 7 | e5.8 | e3.4 | 5.3 | e2.8 | e4.2 | 6.1 | 8.2 | 11 | 6.0 | 4.0 | 4.5 | 2.6 |
| 8 | e20 | e3.3 | 5.8 | e2.9 | e4.3 | 6.8 | e8.3 | 11 | 6.1 | 4.5 | 2.7 | 2.5 |
| 9 | e24 | e3.4 | 5.6 | e3.0 | e4.4 | 8.2 | e8.3 | 11 | 6.0 | 4.3 | 2.5 | 54 |
| 10 | e16 | e3.5 | 4.4 | e3.2 | e4.7 | 7.9 | e9.4 | 10 | 6.5 | 4.2 | 2.4 | 35 |
| 11 | e21 | e3.8 | e3.6 | e3.1 | e5.2 | 7.2 | e9.2 | 10 | 6.3 | 4.1 | 2.4 | 3.8 |
| 12 | e10 | e4.3 | e3.3 | e3.1 | e5.8 | 6.9 | e9.0 | 10 | 5.8 | 3.9 | 2.2 | 2.9 |
| 13 | e9.0 | e4.7 | e3.2 | e3.4 | e7.0 | 6.5 | e9.9 | 10 | 5.6 | 3.9 | 2.3 | 2.8 |
| 14 | e8.0 | e4.6 | e2.9 | e3.8 | e6.5 | 6.7 | e9.2 | 9.8 | 5.7 | 3.1 | 2.3 | 2.6 |
| 15 | e7.0 | e4.6 | e2.9 | e4.4 | 6.4 | 7.0 | e9.3 | 9.2 | 5.4 | 3.3 | 2.3 | 2.2 |
| 16 | e6.5 | e5.0 | e2.6 | e4.9 | 8.5 | 7.4 | e9.8 | 10 | 4.9 | e4.2 | 2.2 | 2.1 |
| 17 | e4.7 | e5.0 | e2.2 | 5.0 | 5.9 | 9.7 | e9.3 | 10 | 4.7 | e55 | 1.7 | 2.1 |
| 18 | e4.7 | e5.4 | e2.1 | 4.9 | 5.4 | 7.1 | e9.4 | 8.9 | 4.7 | e5.6 | 1.8 | 2.1 |
| 19 | e4.7 | e5.2 | e2.4 | 4.9 | 5.7 | e6.8 | e9.5 | 8.6 | 4.9 | e5.0 | 1.7 | 2.2 |
| 20 | e4.7 | e5.0 | e2.6 | 5.0 | 6.8 | e7.0 | e9.5 | 8.4 | 4.6 | e5.1 | 1.4 | 2.0 |
| 21 | e4.8 | e4.7 | e2.5 | 5.2 | 5.1 | 8.5 | e9.3 | 8.2 | 4.5 | e5.3 | 2.2 | 1.9 |
| 22 | e4.7 | e4.8 | e2.6 | e4.6 | 4.9 | 8.8 | e9.3 | 8.2 | 4.4 | e14 | 3.3 | 1.8 |
| 23 | e4.7 | e5.1 | e2.5 | e4.4 | 4.8 | 7.3 | e9.0 | 7.9 | 4.3 | e6.8 | 1.9 | 2.0 |
| 24 | e4.7 | e4.9 | e2.4 | e4.1 | 5.1 | 7.1 | e9.1 | 8.1 | 4.3 | e6.5 | 2.2 | 16 |
| 25 | e4.5 | e5.4 | e2.6 | e4.1 | 5.0 | 7.6 | e9.3 | 7.8 | 4.4 | 5.8 | 59 | 5.6 |
| 26 | e4.1 | e5.2 | e2.6 | e4.3 | 5.1 | 7.8 | e9.6 | 7.5 | 4.8 | 5.3 | 2.9 | 5.6 |
| 27 | e4.0 | e5.2 | e2.6 | e4.3 | 5.2 | 7.9 | e9.4 | 7.4 | 4.1 | 5.1 | 2.3 | 4.2 |
| 28 | e4.0 | 4.5 | e2.5 | e4.0 | 5.2 | 8.0 | e9.4 | 7.4 | 3.8 | 4.8 | 2.1 | 4.2 |
| 29 | e3.9 | 6.0 | e2.7 | e3.9 | --- | 8.1 | e9.5 | 7.3 | 3.8 | 4.7 | 110 | 4.3 |
| 30 | e3.8 | 9.9 | e2.8 | e3.9 | --- | 8.4 | e10 | 7.3 | 4.0 | 4.5 | 40 | 3.9 |
| 31 | e3.8 | --- | e2.7 | e4.1 | --- | 8.5 | --- | 7.2 | --- | 4.3 | 4.9 | --- |
| TOTAL | 214.1 | 138.6 | 113.3 | 117.6 | 146.1 | 222.8 | 277.0 | 281.4 | 164.7 | 198.0 | 281.6 | 197.7 |
| MEAN | 6.91 | 4.62 | 3.65 | 3.79 | 5.22 | 7.19 | 9.23 | 9.08 | 5.49 | 6.39 | 9.08 | 6.59 |
| MAX | 24 | 9.9 | 7.4 | 5.2 | 8.5 | 9.7 | 11 | 11 | 8.0 | 55 | 110 | 54 |
| MIN | 3.1 | 3.3 | 2.1 | 2.5 | 4.0 | 5.2 | 7.9 | 7.2 | 3.8 | 3.1 | 1.4 | 1.8 |
| ACFT | 425 | 275 | 225 | 233 | 290 | 442 | 549 | 558 | 327 | 393 | 559 | 392 |

CAL YR 1985 TOTAL 1826.31 MEAN 5.00 MAX 24 MIN .32 ACFT 3620
WTR YR 1986 TOTAL 2352.9 MEAN 6.45 MAX 110 MIN 1.4 ACFT 4670

e Estimated.

COLORADO RIVER MAIN STEM

37

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 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | PH (STAND- ARD UNITS) | TEMPER- ATURE, AIR (DEG C) | TEMPER- ATURE (DEG C) | HARD- NESS (MG/L AS CACO3) | HARD- NESS NONCAR- BONATE (MG/L AS CACO3) | HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3 |
|----------|------|---|---|--------------------------------|-------------------------------------|-----------------------------|--|---|---|
| OCT 1985 | | | | | | | | | |
| 08... | 1430 | 20 | 2230 | 8.60 | 7.5 | 10.0 | 270 | 270 | -- |
| NOV | | | | | | | | | |
| 25... | 1100 | 5.0 | 1520 | 8.70 | 5.5 | 3.5 | 470 | 474 | 36 |
| FEB 1986 | | | | | | | | | |
| 14... | 1330 | 6.5 | 1390 | 8.60 | 3.0 | 2.0 | 400 | 398 | 26 |
| MAR | | | | | | | | | |
| 19... | 1130 | 6.7 | 1380 | 8.60 | 8.5 | 5.5 | 450 | 447 | 46 |
| APR | | | | | | | | | |
| 30... | 1200 | 9.3 | 1170 | 8.50 | 19.5 | 14.0 | 390 | 390 | 44 |
| MAY | | | | | | | | | |
| 15... | 1200 | 9.5 | 1230 | 8.70 | 19.0 | 13.0 | 390 | 385 | 53 |
| JUN | | | | | | | | | |
| 20... | 1100 | 4.0 | 1190 | 8.50 | 24.0 | 19.0 | 360 | 362 | 31 |
| JUL | | | | | | | | | |
| 24... | 1200 | 6.5 | 2240 | 8.50 | 24.5 | 21.0 | 390 | 387 | 42 |
| AUG | | | | | | | | | |
| 14... | 1130 | 2.1 | 1160 | 8.60 | 27.0 | 19.5 | 390 | 387 | 24 |

| 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) |
|----------|--|--|--|-------------------|---|---|---|---|
| OCT 1985 | | | | | | | | |
| 08... | 57 | 31 | 100 | 44 | 3 | 4.3 | 398 | 230 |
| NOV | | | | | | | | |
| 25... | 63 | 77 | 180 | 45 | 4 | 2.5 | 438 | 400 |
| FEB 1986 | | | | | | | | |
| 14... | 59 | 61 | 140 | 43 | 3 | 2.0 | 372 | 310 |
| MAR | | | | | | | | |
| 19... | 62 | 71 | 160 | 44 | 3 | 2.1 | 401 | 380 |
| APR | | | | | | | | |
| 30... | 54 | 62 | 130 | 42 | 3 | 1.7 | 346 | 280 |
| MAY | | | | | | | | |
| 15... | 52 | 62 | 130 | 42 | 3 | 1.7 | 332 | 260 |
| JUN | | | | | | | | |
| 20... | 41 | 63 | 130 | 44 | 3 | 1.9 | 331 | 290 |
| JUL | | | | | | | | |
| 24... | 56 | 60 | 130 | 42 | 3 | 2.5 | 345 | 290 |
| AUG | | | | | | | | |
| 14... | 38 | 71 | 150 | 46 | 3 | 2.2 | 363 | 300 |

| 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 CONSTITU- ENTS, 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 1985 | | | | | | | | |
| 08... | 19 | 0.2 | 8.9 | 690 | 0.94 | 36 | 0.12 | 0.05 |
| NOV | | | | | | | | |
| 25... | 16 | 0.2 | 18 | 1000 | 1.4 | 14 | 0.00 | 0.06 |
| FEB 1986 | | | | | | | | |
| 14... | 12 | 0.2 | 17 | 820 | 1.1 | 14 | 0.11 | 0.03 |
| MAR | | | | | | | | |
| 19... | 22 | 0.2 | 18 | 960 | 1.3 | 17 | <0.10 | 0.04 |
| APR | | | | | | | | |
| 30... | 9.5 | 0.2 | 19 | 760 | 1.0 | 19 | <0.10 | 0.04 |
| MAY | | | | | | | | |
| 15... | 9.3 | 0.2 | 19 | 730 | 1.0 | 19 | <0.10 | 0.06 |
| JUN | | | | | | | | |
| 20... | 11 | 0.2 | 17 | 750 | 1.0 | 8.2 | 2.30 | 0.03 |
| JUL | | | | | | | | |
| 24... | -- | 0.2 | 21 | -- | -- | -- | 0.16 | 0.06 |
| AUG | | | | | | | | |
| 14... | 13 | 0.2 | 19 | 810 | 1.1 | 4.6 | <0.10 | 0.04 |

COLORADO RIVER MAIN STEM

09163675 COTTONWOOD WASH AT I-70, NEAR CISCO, UT--Continued
 WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | BORON, DIS- SOLVED (UG/L AS B) |
|----------|------|--|
| OCT 1985 | | |
| 08... | 1430 | 80 |
| NOV | | |
| 25... | 1100 | 50 |
| FEB 1986 | | |
| 14... | 1330 | 70 |
| MAR | | |
| 19... | 1130 | 40 |
| APR | | |
| 30... | 1200 | 50 |
| MAY | | |
| 15... | 1200 | 40 |
| JUN | | |
| 20... | 1100 | 40 |
| JUL | | |
| 24... | 1200 | 40 |
| AUG | | |
| 14... | 1130 | 40 |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) | SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM | SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM | SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM | SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM |
|----------|------|---|-----------------------------|---|---|---|---|---|---|
| OCT 1985 | | | | | | | | | |
| 08... | 1430 | 20 | 10.0 | 3160 | 167 | 55 | 69 | 92 | 100 |
| NOV | | | | | | | | | |
| 25... | 1100 | 5.0 | 3.5 | 110 | 1.5 | -- | -- | -- | -- |
| FEB 1986 | | | | | | | | | |
| 14... | 1330 | 6.5 | 2.0 | 648 | 11 | 42 | 57 | 86 | 100 |
| MAR | | | | | | | | | |
| 19... | 1130 | 6.7 | 5.5 | 904 | 16 | -- | -- | -- | -- |
| APR | | | | | | | | | |
| 30... | 1200 | 9.3 | 14.0 | 184 | 4.6 | -- | -- | -- | -- |
| MAY | | | | | | | | | |
| 15... | 1200 | 9.5 | 13.0 | 239 | 6.1 | -- | -- | -- | -- |
| JUN | | | | | | | | | |
| 20... | 1100 | 4.0 | 19.0 | 55 | 0.6 | -- | -- | -- | -- |
| JUL | | | | | | | | | |
| 24... | 1200 | 6.5 | 21.0 | 558 | 9.8 | 41 | 61 | 98 | 100 |
| AUG | | | | | | | | | |
| 14... | 1130 | 2.1 | 19.5 | 154 | 0.88 | -- | -- | -- | -- |

DOLORES RIVER BASIN

39

09180000 DOLORES RIVER NEAR CISCO, UI

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 mi², 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, 1967, at site 200 ft downstream at different datum; Apr. 19, 1967 to Sept. 3, 1975 at site 10 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Macphee Reservoir, capacity, 381,000 acre-ft, since 1986. Many diversions for irrigation above station.

AVERAGE DISCHARGE.--36 years (1951-86), 845 ft³/s, 612,200 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|---------|--------------------------------|------------------|---------|------|--------------------------------|------------------|
| Apr. 4 | unknown | 6,340 | 11.10 | May 18 | 1530 | 3,860 | 10.18 |
| May 6 | 1230 | *7,890 | *11.57 | June 10 | 0330 | 4,860 | 10.58 |
| May 12 | 1500 | 4,100 | 10.28 | | | | |

Minimum discharge, 137 ft³/s Feb. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|-------|--------|--------|--------|---------|-------|-------|
| 1 | 485 | 345 | 412 | 278 | 260 | 456 | 2730 | 3870 | e2610 | 1280 | 491 | 419 |
| 2 | 395 | 353 | 408 | 271 | 253 | 471 | 3640 | 4790 | e2650 | 1490 | 437 | 347 |
| 3 | 344 | 337 | 403 | 244 | 260 | 488 | 5180 | 5410 | e2600 | 1430 | 422 | 334 |
| 4 | 319 | 332 | 362 | 223 | 251 | 562 | e3300 | 6610 | e2890 | 1330 | 393 | 376 |
| 5 | 308 | 323 | 333 | 203 | 226 | 606 | 3640 | 7320 | 3470 | 1140 | 386 | 302 |
| 6 | 316 | 312 | 315 | 219 | 214 | 712 | 2900 | 7430 | 3570 | 1350 | 366 | 260 |
| 7 | 321 | 308 | 301 | 188 | 217 | 763 | 3130 | 6390 | 3680 | 1170 | 416 | 245 |
| 8 | 449 | 295 | 323 | 211 | 213 | 793 | e3010 | 4510 | 3850 | 1010 | 422 | 232 |
| 9 | 503 | 296 | 338 | 190 | 209 | 870 | e3050 | 3800 | 4570 | 1020 | 378 | 297 |
| 10 | 496 | 299 | 324 | 182 | 199 | 893 | e3080 | 3280 | 4600 | 1390 | 353 | 1620 |
| 11 | 762 | 292 | 284 | 209 | 197 | 791 | e3140 | 3280 | 3790 | 1700 | 344 | e1350 |
| 12 | 1380 | 289 | 257 | 242 | 204 | 667 | e3070 | 3740 | 2780 | 1500 | 345 | 722 |
| 13 | 960 | 312 | 240 | 230 | 210 | 595 | e3110 | 3390 | e2450 | 1320 | 366 | 561 |
| 14 | 670 | 328 | 237 | 223 | 257 | 548 | 3210 | 3160 | e2500 | 1120 | 578 | 478 |
| 15 | 644 | 297 | 238 | 224 | 257 | 535 | 2900 | 3020 | e2550 | 1070 | 422 | 429 |
| 16 | 590 | 266 | 224 | 232 | 329 | 507 | 2370 | 2940 | e2600 | 1130 | 334 | 403 |
| 17 | 481 | 281 | 239 | 253 | 300 | 516 | 2340 | 3110 | e2650 | 1090 | 306 | 390 |
| 18 | 438 | 316 | 224 | 248 | 289 | 505 | 2530 | 3420 | e2600 | 866 | 289 | 365 |
| 19 | 417 | 314 | 230 | 240 | 318 | 479 | e2680 | 3160 | e2450 | 1190 | 268 | 352 |
| 20 | 411 | 291 | 260 | 233 | 333 | 451 | e3200 | 3010 | e2350 | 1640 | 269 | 346 |
| 21 | 402 | 259 | 257 | 240 | 371 | 448 | e3000 | 3080 | e2100 | 1550 | 275 | 329 |
| 22 | 391 | 282 | 237 | 233 | 374 | 483 | e3100 | 3140 | e1900 | 1530 | 273 | 317 |
| 23 | 390 | 277 | 246 | 232 | 355 | 568 | e3400 | 3240 | e1800 | 1230 | 290 | 340 |
| 24 | 383 | 308 | 245 | 224 | 321 | 793 | e3480 | 3270 | e1700 | 1500 | 277 | 618 |
| 25 | 371 | 310 | 226 | 220 | 296 | 1180 | e3540 | 3210 | e1580 | 1570 | 294 | 1090 |
| 26 | 367 | 326 | 225 | 211 | 284 | 1310 | e3460 | 3150 | 1400 | 1450 | 307 | 1000 |
| 27 | 368 | 302 | 213 | 201 | 279 | 1370 | e3400 | 3290 | 1470 | 1160 | 326 | 891 |
| 28 | 365 | 278 | 203 | 209 | 364 | e1570 | e3300 | 3370 | 1370 | 840 | 294 | 543 |
| 29 | 356 | 307 | 200 | 232 | --- | e1780 | e3200 | 3260 | 1290 | 684 | 290 | 488 |
| 30 | 354 | 364 | 225 | 242 | --- | e1960 | 3340 | 3130 | 1230 | 625 | 1190 | 430 |
| 31 | 348 | --- | 257 | 250 | --- | 2270 | --- | 2930 | --- | 577 | 686 | --- |
| TOTAL | 14784 | 9199 | 8486 | 7037 | 7640 | 25940 | 97430 | 120710 | 77050 | 37952 | 12087 | 15874 |
| MEAN | 477 | 307 | 274 | 227 | 273 | 837 | 3248 | 3894 | 2568 | 1224 | 390 | 529 |
| MAX | 1380 | 364 | 412 | 278 | 374 | 2270 | 5300 | 7430 | 4600 | 1700 | 1190 | 1620 |
| MIN | 308 | 259 | 200 | 182 | 197 | 448 | 2340 | 2930 | 1230 | 577 | 268 | 232 |
| ACFT | 29320 | 18250 | 16830 | 13960 | 15150 | 51450 | 193300 | 239400 | 152800 | 75280 | 23970 | 31490 |
| CAL YR 1985 | TOTAL | 573246 | MEAN | 1571 | MAX | 10000 | MIN | 132 | ACFT | 1137000 | | |
| WTR YR 1986 | TOTAL | 434189 | MEAN | 1190 | MAX | 7430 | MIN | 182 | ACFT | 861200 | | |

e Estimated.

DOLORES RIVER BASIN

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

WATER-QUALITY RECORDS

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

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

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

SUSPENDED-SEDIMENT DISCHARGE: March 1951 to December 1953, October 1957 to September 1964, October 1978 to September 1979, quarterly, October 1979 to 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, 21,600 microsiemens July 9, 1977; minimum, 240 microsiemens 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, 4,150 microsiemens Jan. 13; minimum, 360 microsiemens May 6.

WATER TEMPERATURES: Maximum, 25.0°C several days during August; minimum, 0.0°C several days during December.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | PH (STAND- ARD UNITS) | TEMPER- ATURE, AIR (DEG C) | TEMPER- ATURE (DEG C) | TUR- BID- ITY (NTU) | OXYGEN, DIS- SOLVED (MG/L) | BARO- METRIC PRES- SURE (MM OF HG) | COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) | STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) | |
|----------|------|---|---|--|--|--|------------------------------|---|--|--|--|---|
| OCT 1985 | | | | | | | | | | | | |
| 30... | 1300 | 355 | 2840 | 8.40 | 19.0 | 11.5 | -- | 10.0 | 650 | -- | -- | |
| NOV | | | | | | | | | | | | |
| 20... | 1100 | 270 | 3150 | 8.40 | -2.0 | 1.0 | 18 | 12.7 | 661 | <1 | <1 | |
| JAN 1986 | | | | | | | | | | | | |
| 23... | 1030 | 248 | 2840 | 8.30 | 5.5 | 1.0 | 13 | 12.7 | 658 | <1 | <1 | |
| FEB | | | | | | | | | | | | |
| 19... | 1330 | 332 | 2460 | 8.20 | 8.5 | 8.5 | -- | 10.3 | 660 | -- | -- | |
| MAR | | | | | | | | | | | | |
| 18... | 1030 | 548 | 1780 | 8.40 | 9.5 | 7.5 | 80 | 10.6 | 655 | <1 | <1 | |
| APR | | | | | | | | | | | | |
| 29... | 1000 | 3100 | 480 | 8.30 | 20.0 | 11.5 | -- | 9.9 | 659 | -- | -- | |
| MAY | | | | | | | | | | | | |
| 20... | 1030 | 2950 | 520 | 8.50 | 22.5 | 14.0 | 110 | 8.4 | 655 | -- | 77 | |
| JUN | | | | | | | | | | | | |
| 25... | 1030 | 1630 | 550 | 8.30 | 27.0 | 18.0 | 30 | 8.4 | 657 | 87 | 300 | |
| JUL | | | | | | | | | | | | |
| 21... | 1400 | 1580 | 1190 | 8.30 | 28.0 | 20.5 | -- | 8.0 | 659 | -- | -- | |
| AUG | | | | | | | | | | | | |
| 18... | 1200 | 300 | 1690 | 8.30 | 32.5 | 23.5 | 230 | 7.1 | 658 | 110 | 360 | |
| SEP | | | | | | | | | | | | |
| 26... | 1130 | 824 | 1430 | 8.30 | 15.0 | 10.5 | -- | 9.3 | 654 | -- | -- | |
| DATE | | HARD- NESS (MG/L AS CAC03) | HARD- NESS NONCAR- BONATE (MG/L AS CAC03) | CALCIUM DIS- SOLVED (MG/L AS CA) | MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) | SODIUM, DIS- SOLVED (MG/L AS NA) | PERCENT SODIUM | SODIUM AD- SORP- TION RATIO | POTAS- SIUM, DIS- SOLVED (MG/L AS K) | BICAR- BONATE IT-FLD (MG/L AS HC03) | CAR- BONATE IT-FLD (MG/L AS C03) | ALKA- LITY, CARBON- ATE IT-FLD (MG/L - CAC03) |
| OCT 1985 | | | | | | | | | | | | |
| 30... | 460 | 456 | 110 | 44 | 430 | 66 | 9 | 20 | -- | -- | -- | -- |
| NOV | | | | | | | | | | | | |
| 20... | 440 | 437 | 100 | 45 | 490 | 70 | 11 | 23 | 200 | 4.1 | 166 | 166 |
| JAN 1986 | | | | | | | | | | | | |
| 23... | 380 | 380 | 88 | 39 | 420 | 69 | 10 | 21 | 203 | -- | -- | 166 |
| FEB | | | | | | | | | | | | |
| 19... | 450 | 445 | 86 | 56 | 340 | 61 | 7 | 16 | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | |
| 18... | 330 | 331 | 76 | 34 | 230 | 59 | 6 | 11 | 162 | 10 | 150 | 150 |
| APR | | | | | | | | | | | | |
| 29... | 170 | 168 | 46 | 13 | 31 | 28 | 1 | 2.7 | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | |
| 20... | 170 | 170 | 45 | 14 | 37 | 32 | 1 | 2.9 | 122 | 4.0 | 107 | 107 |
| JUN | | | | | | | | | | | | |
| 25... | 140 | 142 | 40 | 10 | 48 | 42 | 2 | 3.2 | 90 | 4.0 | 80 | 80 |
| JUL | | | | | | | | | | | | |
| 21... | 270 | 273 | 73 | 22 | 120 | 48 | 3 | 7.7 | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | |
| 18... | 310 | 308 | 79 | 27 | 220 | 59 | 6 | 16 | 134 | 12 | 130 | 130 |
| SEP | | | | | | | | | | | | |
| 26... | 390 | 394 | 87 | 43 | 130 | 41 | 3 | 7.3 | -- | -- | -- | -- |

DOLORES RIVER BASIN

41

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| | | 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, NITRATE DIS- SOLVED (MG/L AS N) | NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) | |
|----------|------|---|--|---|---|--|---|---|--|--|---|----|
| OCT 1985 | | | | | | | | | | | | |
| 30... | | 290 | 690 | 0.3 | 7.0 | -- | 1700 | 2.3 | 1610 | -- | -- | |
| NOV | | | | | | | | | | | | |
| 20... | | 300 | 790 | 0.3 | 7.4 | 1840 | 1900 | 2.5 | 1340 | -- | <0.00 | |
| JAN 1986 | | | | | | | | | | | | |
| 23... | | 270 | 690 | 0.3 | 8.2 | 1620 | 1600 | 2.2 | 1080 | 0.24 | 0.01 | |
| FEB | | | | | | | | | | | | |
| 19... | | 340 | 510 | 0.3 | 7.6 | -- | 1400 | 2.0 | 1300 | -- | -- | |
| MAR | | | | | | | | | | | | |
| 18... | | 280 | 350 | 0.2 | 7.5 | 1100 | 1100 | 1.5 | 1630 | 0.22 | 0.03 | |
| APR | | | | | | | | | | | | |
| 29... | | 91 | 34 | 0.2 | 6.9 | -- | 290 | 0.4 | 2440 | -- | -- | |
| MAY | | | | | | | | | | | | |
| 20... | | 84 | 40 | 0.1 | 7.1 | 315 | 300 | 0.43 | 2510 | -- | 0.03 | |
| JUN | | | | | | | | | | | | |
| 25... | | 70 | 72 | 0.1 | 5.9 | 304 | 300 | 0.41 | 1340 | -- | <0.01 | |
| JUL | | | | | | | | | | | | |
| 21... | | 220 | 170 | 0.2 | 7.0 | -- | 680 | 0.93 | 2910 | -- | -- | |
| AUG | | | | | | | | | | | | |
| 18... | | 190 | 340 | 0.3 | 7.4 | 1050 | 970 | 1.4 | 850 | 0.46 | 0.03 | |
| SEP | | | | | | | | | | | | |
| 26... | | 400 | 140 | 0.4 | 6.8 | -- | 890 | 1.2 | 1980 | -- | -- | |
| DATE | | 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) | NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) | PHOS- PHORUS, TOTAL (MG/L AS P) | 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 1985 | | | | | | | | | | | | |
| 30... | | 0.00 | -- | -- | -- | -- | -- | -- | -- | <0.00 | -- | |
| NOV | | | | | | | | | | | | |
| 20... | | 0.00 | 0.82 | 0.00 | -- | 0.18 | 1.0 | 0.01 | <0.01 | <0.00 | -- | |
| JAN 1986 | | | | | | | | | | | | |
| 23... | | 0.25 | 0.51 | 0.48 | 0.62 | 0.19 | 0.7 | 0.02 | <0.01 | <0.01 | -- | |
| FEB | | | | | | | | | | | | |
| 19... | | 0.33 | -- | -- | -- | -- | -- | -- | -- | 0.02 | 0.06 | |
| MAR | | | | | | | | | | | | |
| 18... | | 0.25 | 0.11 | 0.11 | 0.14 | 0.69 | 0.8 | 0.02 | <0.01 | 0.01 | 0.03 | |
| APR | | | | | | | | | | | | |
| 29... | | 0.10 | -- | -- | -- | -- | -- | -- | -- | 0.02 | 0.06 | |
| MAY | | | | | | | | | | | | |
| 20... | | <0.10 | 0.04 | 0.04 | 0.05 | 0.76 | 0.8 | 0.02 | 0.03 | 0.03 | 0.09 | |
| JUN | | | | | | | | | | | | |
| 25... | | 0.16 | 0.03 | 0.03 | 0.04 | 0.37 | 0.4 | 0.08 | 0.01 | 0.01 | 0.03 | |
| JUL | | | | | | | | | | | | |
| 21... | | 0.26 | -- | -- | -- | -- | -- | -- | -- | 0.01 | 0.03 | |
| AUG | | | | | | | | | | | | |
| 18... | | 0.49 | 0.23 | 0.03 | 0.04 | 0.47 | 0.7 | 0.16 | 0.02 | <0.01 | -- | |
| SEP | | | | | | | | | | | | |
| 26... | | 0.21 | -- | -- | -- | -- | -- | -- | -- | 0.01 | 0.03 | |
| DATE | TIME | ALUM- INUM, DIS- SOLVED (UG/L AS AL) | ARSENIC DIS- SOLVED (UG/L AS AS) | BARIUM, DIS- SOLVED (UG/L AS BA) | 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 1985 | | | | | | | | | | | | |
| 20... | | 1100 | <10 | <1 | 100 | <10 | <1 | 1 | <1 | 1 | 30 | <1 |
| MAR 1986 | | | | | | | | | | | | |
| 18... | | 1030 | <10 | <1 | 120 | <0.5 | <1 | <1 | <3 | 1 | 4 | 2 |
| JUN | | | | | | | | | | | | |
| 25... | | 1030 | 20 | <1 | 95 | <0.5 | <1 | <1 | <3 | 3 | 23 | <5 |

DOLORES RIVER BASIN

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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 1985 20... | 30 | 40 | <0.1 | 1 | 2 | 1 | <1 | 1300 | 12 | <10 |
| MAR 1986 18... | 36 | 10 | <0.1 | <10 | 3 | 2 | <1 | 960 | <6 | 14 |
| JUN 25... | 12 | 3 | <0.1 | <10 | 2 | <1 | <1 | 450 | <6 | 21 |

| DATE | TIME | BORON, DIS- SOLVED (UG/L AS B) |
|-------------------|------|--|
| OCT 1985 30... | 1300 | 90 |
| FEB 1986 19... | 1330 | 80 |
| APR 29... | 1000 | 30 |
| JUL 21... | 1400 | 60 |
| SEP 26... | 1130 | 90 |

SPECIFIC CONDUCTANCE (US/CM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
ONCE-DAILY

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|------|------|------|------|------|------|-----|-----|-----|------|------|------|
| 1 | --- | 2820 | --- | 3460 | 3670 | 2890 | 620 | 450 | 465 | --- | 1320 | 800 |
| 2 | --- | 2840 | --- | 3320 | 3380 | 2240 | 750 | 430 | 500 | 1090 | 1460 | 1050 |
| 3 | --- | 2920 | --- | 2440 | 3190 | 1870 | 780 | 395 | --- | 710 | 1720 | 1320 |
| 4 | --- | 2970 | --- | --- | 2820 | 1840 | 770 | 390 | 500 | 690 | 1930 | 1920 |
| 5 | --- | 2790 | --- | --- | 3010 | 1610 | 580 | 375 | 490 | 680 | 1970 | --- |
| 6 | --- | 2980 | --- | --- | 2710 | 1430 | 590 | 360 | 470 | --- | 2000 | 2330 |
| 7 | --- | 2890 | --- | 2820 | --- | 1320 | 620 | --- | --- | --- | 2030 | 2490 |
| 8 | --- | --- | --- | 2970 | 2860 | 1110 | 580 | 400 | 400 | --- | 2120 | 2900 |
| 9 | --- | 2930 | --- | 3080 | 3000 | 1080 | 570 | 430 | --- | --- | 1960 | 3030 |
| 10 | --- | 3020 | --- | 3690 | 2890 | --- | --- | 475 | 395 | --- | 1850 | 1810 |
| 11 | --- | 3090 | 2800 | 3190 | 3120 | --- | 520 | --- | 415 | 790 | 2040 | 800 |
| 12 | --- | 3040 | 2810 | 2540 | 2860 | 1090 | 520 | 485 | 495 | 650 | 2100 | 700 |
| 13 | --- | 2970 | 2790 | 4150 | --- | 1220 | 510 | 480 | 520 | --- | 2000 | 820 |
| 14 | --- | --- | 2830 | --- | --- | 1380 | 510 | 500 | 510 | 920 | --- | 1010 |
| 15 | --- | --- | 2960 | --- | 3240 | 1580 | 510 | --- | 480 | 880 | 2300 | 1340 |
| 16 | --- | 3180 | 3200 | 3520 | 3270 | 1690 | 530 | --- | 475 | 880 | 1200 | --- |
| 17 | --- | 3080 | 3080 | 3770 | 2450 | 1750 | --- | 520 | 475 | 940 | 1670 | 2130 |
| 18 | --- | 3060 | 2830 | 3410 | 2460 | 1810 | 560 | 530 | 460 | 940 | 1720 | 2290 |
| 19 | --- | 2920 | 3370 | 2770 | 2460 | 1850 | 570 | 520 | 460 | 1190 | 1780 | --- |
| 20 | --- | 3150 | 3480 | 2780 | 2790 | 1820 | 560 | 550 | 455 | 1440 | 1950 | 2220 |
| 21 | --- | 2930 | 3570 | --- | 2510 | 1880 | 540 | 500 | 460 | 960 | 2080 | 2330 |
| 22 | --- | 2900 | 3060 | 3150 | 2440 | 1990 | 530 | 485 | 465 | --- | 2510 | --- |
| 23 | 2720 | 3200 | 2930 | 3490 | 2270 | 2000 | --- | 475 | 495 | --- | 2140 | 2340 |
| 24 | --- | 3600 | 2810 | 3460 | 2180 | 1770 | 480 | 455 | 510 | 1100 | 2090 | 2360 |
| 25 | --- | 2900 | 2810 | 3410 | 2130 | 1360 | 480 | 460 | 560 | 870 | 1960 | --- |
| 26 | 2750 | 2990 | 2850 | 3670 | --- | --- | 460 | 460 | 760 | 1030 | 2140 | 1460 |
| 27 | 2800 | 2820 | --- | 3300 | 2660 | 980 | 440 | 450 | 800 | 720 | --- | 860 |
| 28 | 2840 | 2770 | 3030 | 2550 | 2760 | 780 | --- | --- | 820 | 800 | 1990 | --- |
| 29 | 2830 | --- | 3160 | 2660 | --- | --- | 510 | --- | 940 | 940 | 2050 | --- |
| 30 | 2820 | 2920 | 3350 | 3710 | --- | 650 | 470 | 445 | 930 | 1030 | 2170 | 1590 |
| 31 | 2820 | --- | 3480 | --- | --- | 620 | --- | 455 | --- | 1250 | 1280 | --- |
| MEAN | --- | 2990 | --- | --- | 2800 | 1540 | 560 | 460 | 540 | --- | 1910 | --- |

DOLORES RIVER BASIN

43

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
ONCE-DAILY

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|------|-----|-----|-----|------|------|------|------|------|------|------|------|
| 1 | --- | 9.0 | --- | 2.0 | 7.0 | 11.0 | 10.0 | 11.0 | 18.0 | --- | 24.0 | 22.0 |
| 2 | --- | 9.0 | --- | 2.0 | 7.0 | 12.0 | 10.0 | 10.0 | 18.0 | 22.0 | 24.0 | 22.0 |
| 3 | --- | 9.0 | --- | 2.0 | 7.0 | 11.0 | 10.0 | 10.0 | --- | 22.0 | 24.0 | 22.0 |
| 4 | --- | 9.0 | --- | --- | 7.0 | 12.0 | 10.0 | 12.0 | 18.0 | 22.0 | 25.0 | 22.0 |
| 5 | --- | 9.0 | --- | --- | 7.0 | 12.0 | 10.0 | 14.0 | 18.0 | 22.0 | 25.0 | --- |
| 6 | --- | 9.0 | --- | --- | 7.0 | 12.0 | 10.0 | 14.0 | 18.0 | --- | 25.0 | 22.0 |
| 7 | --- | 9.0 | --- | 2.0 | --- | 12.0 | 10.0 | --- | --- | --- | 25.0 | 22.0 |
| 8 | --- | --- | --- | 2.0 | 7.0 | 12.0 | 10.0 | 14.0 | 19.0 | --- | 25.0 | 18.0 |
| 9 | --- | 7.0 | --- | 2.0 | 7.0 | 12.0 | 10.0 | 14.0 | --- | --- | 25.0 | 17.0 |
| 10 | --- | 7.0 | --- | 2.0 | 4.0 | --- | --- | 15.0 | 19.0 | --- | 25.0 | 17.0 |
| 11 | --- | 7.0 | .0 | 2.0 | 4.0 | --- | 10.0 | --- | 19.0 | 22.0 | 25.0 | 17.0 |
| 12 | --- | 6.0 | .0 | 4.0 | 5.0 | 9.0 | --- | 15.0 | 19.0 | 23.0 | 25.0 | 17.0 |
| 13 | --- | 6.0 | .0 | 4.0 | --- | 8.0 | 10.0 | 15.0 | 19.0 | --- | 25.0 | 17.0 |
| 14 | --- | --- | .0 | --- | --- | 8.0 | 10.0 | 15.0 | 19.0 | 23.0 | --- | 17.0 |
| 15 | --- | --- | .0 | --- | 5.0 | 8.0 | 10.0 | --- | 20.0 | 22.0 | 24.0 | 17.0 |
| 16 | --- | 4.0 | .0 | 4.0 | 5.0 | 9.0 | 10.0 | --- | 20.0 | 21.0 | 24.0 | --- |
| 17 | --- | 4.0 | .0 | 4.0 | 7.0 | 9.0 | --- | 14.0 | 20.0 | 23.0 | 24.0 | 17.0 |
| 18 | --- | 2.0 | .0 | 4.0 | 7.0 | 10.0 | 10.0 | 16.0 | 20.0 | 23.0 | 24.0 | 17.0 |
| 19 | --- | 2.0 | .0 | 4.0 | 8.5 | 10.0 | 8.0 | 16.0 | 20.0 | 23.0 | 24.0 | --- |
| 20 | --- | 1.0 | .0 | 4.0 | 8.0 | 10.0 | 8.0 | 17.0 | 20.0 | 23.0 | 24.0 | 16.0 |
| 21 | --- | 1.0 | .0 | --- | 8.0 | 8.0 | 10.0 | 17.0 | 20.0 | 22.0 | 25.0 | 16.0 |
| 22 | --- | 4.0 | .0 | 4.0 | 8.0 | 9.0 | 10.0 | 17.0 | 20.0 | --- | 25.0 | --- |
| 23 | 10.0 | 4.0 | .0 | 4.0 | 8.0 | 9.0 | --- | 17.0 | 21.0 | --- | 25.0 | 16.0 |
| 24 | --- | 4.0 | .0 | 4.0 | 10.0 | 11.0 | 10.0 | 17.0 | 21.0 | 21.0 | 24.0 | 16.0 |
| 25 | --- | 4.0 | .0 | 4.0 | 10.0 | 11.0 | 12.0 | 17.0 | 21.0 | 22.0 | 23.0 | --- |
| 26 | 9.0 | 4.0 | .0 | 6.0 | --- | --- | 12.0 | 17.0 | 22.0 | 22.0 | 23.0 | 15.0 |
| 27 | 9.0 | 4.0 | --- | 6.0 | 11.0 | 11.0 | 12.0 | 17.0 | 22.0 | 22.0 | --- | 15.0 |
| 28 | 9.0 | 4.0 | .0 | 2.0 | 11.0 | 11.0 | --- | --- | 22.0 | 22.0 | 23.0 | --- |
| 29 | 9.0 | --- | .0 | 6.0 | --- | --- | 14.0 | --- | 22.0 | 22.0 | 22.0 | --- |
| 30 | 9.0 | 4.0 | 2.0 | 6.0 | --- | 12.0 | 11.0 | 17.0 | 22.0 | 23.0 | 22.0 | 12.0 |
| 31 | 9.0 | --- | 2.0 | --- | --- | 12.0 | --- | 16.0 | --- | 23.0 | 22.0 | --- |
| MEAN | --- | 5.5 | --- | --- | 7.5 | 10.5 | 10.5 | 15.0 | 20.0 | --- | 24.0 | --- |

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) |
|----------|------|---|-----------------------------|--|---|---|
| NOV 1985 | | | | | | |
| 20... | 1100 | 270 | 1.0 | 99 | 29 | 21 |
| JAN 1986 | | | | | | |
| 23... | 1030 | 248 | 1.0 | 99 | 36 | 24 |
| FEB | | | | | | |
| 19... | 1330 | 332 | 8.5 | -- | 106 | 95 |
| MAR | | | | | | |
| 18... | 1030 | 548 | 7.5 | 100 | 134 | 198 |
| APR | | | | | | |
| 29... | 1000 | 3100 | 11.5 | -- | 2000 | 16700 |
| MAY | | | | | | |
| 20... | 1030 | 2950 | 14.0 | 34 | 984 | 7840 |
| JUN | | | | | | |
| 25... | 1030 | 1630 | 18.0 | -- | 80 | 352 |
| JUL | | | | | | |
| 21... | 1400 | 1580 | 20.5 | -- | 6990 | 29800 |
| AUG | | | | | | |
| 18... | 1200 | 300 | 23.5 | 93 | 259 | 210 |
| SEP | | | | | | |
| 26... | 1130 | 824 | 10.5 | -- | 4350 | 9680 |

COLORADO RIVER MAIN STEM

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 from Arizona-Sonora.

DRAINAGE AREA.--24,100 mi², approximately.

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Altitude of gage is 4,090 ft 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.--No estimated daily discharges. 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.--75 years (1911-86), 7,769 ft³/s, 5,629,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 76,800 ft³/s June 19, 1917, gage height, 19.7 ft; minimum recorded, 558 ft³/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 ft³/s, from flood record at Fruita, Colorado.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 26,000 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|--------------------------------|------------------|--------|------|--------------------------------|------------------|
| May 6 | 0930 | 32,100 | 11.84 | June 8 | 1200 | *34,700 | *12.40 |
| May 29 | 1330 | 29,400 | 11.11 | | | | |

Minimum discharge, 4,250 ft³/s Aug. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|---------|--------|--------|--------|--------|--------|---------|---------|--------|---------|--------|
| 1 | 7310 | 6740 | 8410 | 6120 | 6500 | 7400 | 14800 | 18600 | 25700 | 18600 | 7670 | 6050 |
| 2 | 7090 | 6660 | 7640 | 5970 | 6600 | 7310 | 17100 | 21300 | 25800 | 18300 | 7410 | 5900 |
| 3 | 7120 | 6430 | 7610 | 5770 | 6590 | 7340 | 20600 | 23700 | 25600 | 17700 | 6890 | 5720 |
| 4 | 6740 | 6320 | 7540 | 5820 | 6620 | 7540 | 19100 | 27100 | 27000 | 17300 | 6660 | 5840 |
| 5 | 6320 | 6240 | 7220 | 5620 | 6250 | 7860 | 16200 | 30000 | 30700 | 18000 | 6440 | 5560 |
| 6 | 6310 | 6050 | 6810 | 5320 | 5990 | 8020 | 14300 | 31400 | 31700 | 19500 | 6490 | 5240 |
| 7 | 6350 | 6440 | 6580 | 5270 | 5930 | 8140 | 14000 | 28900 | 32500 | 19700 | 6180 | 4970 |
| 8 | 7480 | 6440 | 6460 | 5420 | 5800 | 7820 | 13800 | 25900 | 34100 | 18100 | 6170 | 4830 |
| 9 | 10200 | 6420 | 6590 | 5400 | 5740 | 8790 | 13900 | 23600 | 33800 | 17300 | 5930 | 4980 |
| 10 | 7830 | 6750 | 6500 | 5260 | 5740 | 9520 | 14300 | 22400 | 32200 | 17100 | 5730 | 7270 |
| 11 | 9970 | 6780 | 6090 | 5480 | 5540 | 9330 | 14400 | 21000 | 29300 | 17900 | 5650 | 8740 |
| 12 | 10300 | 7120 | 5560 | 5810 | 5050 | 9010 | 14600 | 20800 | 25600 | 16600 | 5440 | 8130 |
| 13 | 9020 | 7580 | 5390 | 5780 | 5180 | 8600 | 15000 | 20200 | 24000 | 15600 | 5660 | 7320 |
| 14 | 9410 | 7480 | 5550 | 5450 | 5550 | 8410 | 15200 | 19600 | 24000 | 15100 | 5870 | 6970 |
| 15 | 8260 | 7320 | 5690 | 5870 | 5650 | 8240 | 14300 | 19700 | 24100 | 14600 | 5960 | 6680 |
| 16 | 7700 | 7320 | 5810 | 6000 | 6240 | 8160 | 13400 | 20600 | 24900 | 14500 | 5570 | 6410 |
| 17 | 7250 | 7070 | 5840 | 6070 | 6490 | 8060 | 13600 | 21900 | 25000 | 15200 | 5420 | 6270 |
| 18 | 6990 | 7050 | 5760 | 6250 | 6290 | 7900 | 14100 | 21800 | 24900 | 14700 | 5260 | 5960 |
| 19 | 6510 | 7210 | 5900 | 6340 | 6310 | 7500 | 14500 | 21000 | 24700 | 13800 | 4880 | 5770 |
| 20 | 6310 | 6930 | 6170 | 6750 | 6840 | 6570 | 13900 | 20600 | 24300 | 13500 | 4770 | 5910 |
| 21 | 6310 | 6390 | 6070 | 6500 | 7670 | 6580 | 13200 | 21900 | 23200 | 13500 | 4450 | 5850 |
| 22 | 6640 | 6560 | 5970 | 6320 | 7180 | 6320 | 13600 | 24400 | 22400 | 13100 | 4580 | 5560 |
| 23 | 6900 | 6530 | 6070 | 6470 | 6540 | 6530 | 16000 | 26100 | 21600 | 12700 | 4900 | 5510 |
| 24 | 6650 | 6560 | 5960 | 6430 | 6320 | 7040 | 18700 | 27200 | 20500 | 12300 | 4880 | 6570 |
| 25 | 6590 | 7020 | 5910 | 6460 | 6260 | 7770 | 19700 | 27100 | 19500 | 12000 | 5100 | 9380 |
| 26 | 6590 | 7570 | 5990 | 6390 | 6630 | 8110 | 20000 | 26600 | 18500 | 11600 | 5450 | 8780 |
| 27 | 6560 | 7260 | 5840 | 6130 | 6920 | 8610 | 19500 | 28100 | 19200 | 11200 | 5670 | 9300 |
| 28 | 6610 | 6880 | 5680 | 6140 | 7260 | 9180 | 17800 | 29000 | 20100 | 10300 | 5150 | 8400 |
| 29 | 6590 | 6530 | 5600 | 6200 | --- | 10300 | 16900 | 29100 | 19500 | 9540 | 5650 | 8590 |
| 30 | 6530 | 7620 | 5730 | 6230 | --- | 11100 | 17000 | 28600 | 19200 | 8690 | 6950 | 8590 |
| 31 | 6360 | --- | 5880 | 6370 | --- | 12200 | --- | 27000 | --- | 8260 | 6360 | --- |
| TOTAL | 226800 | 205270 | 193820 | 185410 | 175680 | 255260 | 473500 | 755200 | 753600 | 456290 | 179190 | 201050 |
| MEAN | 7316 | 6842 | 6252 | 5981 | 6274 | 8234 | 15780 | 24360 | 25120 | 14720 | 5780 | 6702 |
| MAX | 10300 | 7620 | 8410 | 6750 | 7670 | 12200 | 20600 | 31400 | 34100 | 19700 | 7670 | 9380 |
| MIN | 6310 | 6050 | 5390 | 5260 | 5050 | 6320 | 13200 | 18600 | 18500 | 8260 | 4450 | 4830 |
| ACFT | 449900 | 407200 | 384400 | 367800 | 348500 | 506300 | 939200 | 1498000 | 1495000 | 905100 | 355400 | 398800 |
| CAL YR 1985 | TOTAL | 4411590 | | MEAN | 12090 | MAX | 43200 | MIN | 3520 | ACFT | 8750000 | |
| WTR YR 1986 | TOTAL | 4061070 | | MEAN | 11130 | MAX | 34100 | MIN | 4450 | ACFT | 8055000 | |

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 September 1984.

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 microsiemens Dec. 13, 1957; minimum daily, 291 microsiemens 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, 2,010 microsiemens Aug. 18; minimum daily, 365 microsiemens June 8.

WATER TEMPERATURES: Maximum, 23.0°C Aug. 19; minimum observed, 1.5°C Jan. 22.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | PH (STAND- ARD UNITS) | TEMPER- ATURE, AIR (DEG C) | TEMPER- ATURE (DEG C) | TUR- BID- ITY (NTU) | OXYGEN, DIS- SOLVED (MG/L) | BARO- METRIC PRES- SURE (MM HG) | COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) | STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) |
|----------|------|---|---|--------------------------------|-------------------------------------|-----------------------------|------------------------------|-------------------------------------|--|--|--|
| OCT 1985 | | | | | | | | | | | |
| 24... | 1140 | 6360 | 1100 | 8.50 | 17.0 | 11.0 | -- | 10.4 | 660 | -- | -- |
| NOV | | | | | | | | | | | |
| 19... | 1015 | 6830 | 1000 | 8.20 | -1.0 | 3.0 | 32 | 12.0 | 660 | <1 | <1 |
| JAN 1986 | | | | | | | | | | | |
| 22... | 1000 | 6000 | 1010 | 8.30 | 3.5 | 1.5 | 10 | 12.5 | 661 | <1 | <1 |
| FEB | | | | | | | | | | | |
| 20... | 1330 | 6840 | 1050 | 8.20 | 13.0 | 7.5 | -- | 10.5 | 661 | -- | -- |
| MAR | | | | | | | | | | | |
| 24... | 1030 | 7220 | 1080 | 8.50 | 15.5 | 10.0 | 150 | 10.0 | 660 | <1 | <1 |
| APR | | | | | | | | | | | |
| 23... | 1400 | 15400 | 550 | 8.20 | 24.0 | 13.5 | -- | 8.7 | 650 | -- | -- |
| MAY | | | | | | | | | | | |
| 19... | 1030 | 20900 | 530 | 8.50 | 21.0 | 12.5 | 150 | 9.1 | 660 | <1 | 410 |
| JUN | | | | | | | | | | | |
| 23... | 1030 | 22200 | 455 | 8.20 | 27.5 | 16.5 | 60 | 8.3 | 660 | K63 | 370 |
| JUL | | | | | | | | | | | |
| 21... | 1200 | 12900 | 670 | 8.20 | 20.5 | 20.0 | -- | 8.0 | 660 | -- | -- |
| AUG | | | | | | | | | | | |
| 19... | 1000 | 4980 | 1190 | 8.40 | 30.5 | 23.0 | 46 | 7.0 | 659 | 69 | 260 |
| SEP | | | | | | | | | | | |
| 25... | 1130 | 9180 | 1400 | 8.20 | 15.0 | 12.5 | -- | 8.7 | 650 | -- | -- |

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

COLORADO RIVER MAIN STEM

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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) | BICAR- BONATE IT-FLD (MG/L AS HCO3) | CAR- BONATE IT-FLD (MG/L AS CO3) | ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CACO3) |
|----------|--|---|--|--|--|-------------------|---|---|--|---|--|
| OCT 1985 | | | | | | | | | | | |
| 24... | 330 | 333 | 84 | 30 | 100 | 39 | 2 | 3.6 | -- | -- | -- |
| NOV | | | | | | | | | | | |
| 19... | 330 | 325 | 82 | 29 | 100 | 40 | 2 | 3.7 | 185 | -- | 152 |
| JAN 1986 | | | | | | | | | | | |
| 22... | 280 | 283 | 70 | 26 | 100 | 43 | 3 | 4.0 | 189 | -- | 153 |
| FEB | | | | | | | | | | | |
| 20... | 300 | 299 | 72 | 29 | 110 | 44 | 3 | 4.7 | -- | -- | -- |
| MAR | | | | | | | | | | | |
| 24... | 290 | 294 | 71 | 28 | 110 | 45 | 3 | 4.6 | 181 | 10 | 165 |
| APR | | | | | | | | | | | |
| 23... | 190 | 188 | 49 | 16 | 42 | 32 | 1 | 3.1 | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 19... | 190 | 186 | 48 | 16 | 34 | 28 | 1 | 2.2 | 131 | 6.0 | 117 |
| JUN | | | | | | | | | | | |
| 23... | 170 | 167 | 47 | 12 | 33 | 30 | 1 | 1.9 | 108 | -- | 89 |
| JUL | | | | | | | | | | | |
| 21... | 230 | 227 | 63 | 17 | 50 | 32 | 1 | 3.1 | -- | -- | -- |
| AUG | | | | | | | | | | | |
| 19... | 380 | 381 | 100 | 32 | 94 | 35 | 2 | 4.6 | 174 | 6.0 | 152 |
| SEP | | | | | | | | | | | |
| 25... | 380 | 378 | 92 | 36 | 140 | 44 | 3 | 5.9 | -- | -- | -- |

| 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 CONSTITUENTS, DIS- SOLVED (MG/L) | SOLIDS, DIS- SOLVED (TONS PER AC-FT) | SOLIDS, DIS- SOLVED (TONS PER DAY) | NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) | NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) |
|----------|---|---|--|---|--|--|---|---|---|---|
| OCT 1985 | | | | | | | | | | |
| 24... | 260 | 110 | 0.4 | 11 | -- | 680 | 0.92 | 11700 | -- | -- |
| NOV | | | | | | | | | | |
| 19... | 250 | 110 | 0.3 | 11 | 668 | 680 | 0.91 | 12300 | -- | <0.00 |
| JAN 1986 | | | | | | | | | | |
| 22... | 220 | 110 | 0.3 | 10 | 628 | 630 | 0.85 | 10200 | -- | <0.01 |
| FEB | | | | | | | | | | |
| 20... | 230 | 100 | 0.3 | 11 | -- | 640 | 0.87 | 11900 | -- | -- |
| MAR | | | | | | | | | | |
| 24... | 230 | 120 | 0.3 | 11 | 712 | 690 | 0.97 | 13900 | 0.49 | 0.01 |
| APR | | | | | | | | | | |
| 23... | 120 | 36 | 0.2 | 10 | -- | 350 | 0.48 | 14700 | -- | -- |
| MAY | | | | | | | | | | |
| 19... | 110 | 22 | 0.2 | 11 | 337 | 320 | 0.46 | 19000 | -- | <0.01 |
| JUN | | | | | | | | | | |
| 23... | -- | 26 | 0.2 | 8.4 | 270 | -- | -- | -- | -- | <0.01 |
| JUL | | | | | | | | | | |
| 21... | 160 | 37 | 0.3 | 10 | -- | 410 | 0.56 | 14300 | -- | -- |
| AUG | | | | | | | | | | |
| 19... | 320 | 96 | 0.4 | 10 | 804 | 750 | 1.1 | 10800 | -- | <0.01 |
| SEP | | | | | | | | | | |
| 25... | 340 | 140 | 0.3 | 9.9 | -- | 850 | 1.2 | 21100 | -- | -- |

COLORADO RIVER MAIN STEM

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09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | 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) | NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) | PHOS- PHORUS, TOTAL (MG/L AS P) | 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 1985 24... | 0.00 | -- | -- | -- | -- | -- | -- | -- | <0.00 | -- |
| NOV 19... | 0.00 | 0.14 | 0.00 | -- | 0.36 | 0.5 | 0.03 | <0.01 | <0.00 | -- |
| JAN 1986 22... | 0.51 | 0.07 | 0.07 | 0.09 | 0.33 | 0.4 | 0.03 | <0.01 | <0.01 | -- |
| FEB 20... | 0.65 | -- | -- | -- | -- | -- | -- | -- | 0.05 | 0.15 |
| MAR 24... | 0.50 | 0.02 | 0.01 | 0.01 | 0.88 | 0.9 | 0.15 | 0.02 | 0.02 | 0.06 |
| APR 23... | 0.32 | -- | -- | -- | -- | -- | -- | -- | 0.01 | 0.03 |
| MAY 19... | 0.39 | 0.06 | <0.01 | -- | 0.54 | 0.6 | 0.12 | 0.02 | <0.01 | -- |
| JUN 23... | 0.31 | 0.03 | 0.03 | 0.04 | 0.47 | 0.5 | 0.17 | 0.04 | 0.04 | 0.12 |
| JUL 21... | 0.51 | -- | -- | -- | -- | -- | -- | -- | 0.03 | 0.09 |
| AUG 19... | 0.71 | 0.05 | 0.03 | 0.04 | 0.25 | 0.3 | 0.09 | 0.01 | <0.01 | -- |
| SEP 25... | 0.65 | -- | -- | -- | -- | -- | -- | -- | <0.01 | -- |

| 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 1985 19... | 1015 | 10 | <1 | 66 | <0.5 | <1 | <1 | <3 | 1 | 12 | <1 |
| JAN 1986 22... | 1000 | <10 | <1 | 79 | <0.5 | <1 | <1 | <3 | <1 | 5 | <1 |
| MAR 24... | 1030 | 10 | 1 | 110 | <0.5 | <1 | <1 | <3 | 1 | 4 | 1 |
| MAY 19... | 1030 | <10 | 1 | 90 | <0.5 | <1 | <1 | <3 | 8 | 15 | <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 1985 19... | 34 | 12 | <0.1 | <10 | <1 | 6 | <1 | 870 | <6 | 18 |
| JAN 1986 22... | 30 | 15 | <0.1 | <10 | 4 | 5 | <1 | 780 | <6 | 16 |
| MAR 24... | 33 | 4 | <0.1 | <10 | 1 | 4 | <1 | 780 | <6 | 13 |
| MAY 19... | 19 | 3 | <0.1 | <10 | 4 | 2 | <1 | 470 | <6 | 54 |

| DATE | TIME | BORON, DIS- SOLVED (UG/L AS B) |
|-------------------|------|--|
| OCT 1985 24... | 1140 | 80 |
| FEB 1986 20... | 1330 | 60 |
| APR 23... | 1400 | 50 |
| JUL 21... | 1200 | 50 |
| SEP 25... | 1130 | 80 |

COLORADO RIVER MAIN STEM

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

SPECIFIC CONDUCTANCE (US/CM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
ONCE-DAILY

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|------|------|------|------|------|-----|-----|-----|-----|-----|------|------|
| 1 | --- | 1070 | 1060 | 1070 | 950 | 940 | 630 | 550 | 420 | 520 | 850 | 1090 |
| 2 | --- | 1050 | 1090 | 1050 | 920 | 910 | 570 | 500 | 420 | 530 | 900 | 1110 |
| 3 | --- | 1060 | 1100 | 990 | 940 | 880 | 620 | 480 | 415 | 530 | 900 | 1100 |
| 4 | --- | 1070 | 1070 | 1020 | 940 | 880 | 620 | 435 | 420 | 540 | 930 | 1120 |
| 5 | --- | 1080 | 1070 | 1050 | 930 | 870 | 620 | 425 | 385 | 720 | 970 | 1100 |
| 6 | --- | 1080 | 1070 | --- | 940 | 840 | 630 | 405 | 385 | --- | 970 | 1120 |
| 7 | --- | 1080 | 1080 | 1100 | 900 | 820 | 650 | 420 | 370 | --- | 990 | 1120 |
| 8 | --- | --- | 1080 | 1040 | 940 | 820 | 660 | 450 | 365 | 540 | 1050 | 1120 |
| 9 | --- | 1050 | 1070 | 1130 | 940 | 810 | 660 | 490 | --- | 570 | 1080 | 1160 |
| 10 | --- | 1080 | 1100 | 1090 | 920 | --- | 630 | 510 | 390 | 600 | 1060 | 1340 |
| 11 | --- | 1040 | 1090 | 1060 | 950 | 770 | 620 | 540 | 410 | 570 | 1090 | 1070 |
| 12 | 1060 | 1040 | 1050 | 1030 | 920 | 790 | 620 | 530 | 445 | 580 | 1090 | 1050 |
| 13 | 1000 | 1070 | 1040 | 1100 | 960 | 790 | 620 | 520 | 460 | 670 | 1150 | 980 |
| 14 | 970 | 1070 | 1070 | 1010 | 1040 | 840 | 610 | 520 | 460 | 620 | 1150 | 980 |
| 15 | 1000 | 1060 | 1070 | 1030 | 1040 | 850 | 620 | 510 | 450 | 600 | 1150 | 990 |
| 16 | 1050 | 1030 | 1090 | 990 | 1020 | 850 | 640 | --- | 430 | 640 | 1090 | 1010 |
| 17 | --- | 1020 | 1110 | 1040 | 970 | 870 | 640 | 530 | 425 | 740 | 1110 | 1020 |
| 18 | 1010 | 990 | 1080 | 990 | 1000 | 880 | 630 | 540 | 420 | 640 | 2010 | 1020 |
| 19 | 1030 | 1030 | 1070 | 970 | 970 | 850 | 610 | 550 | 425 | 620 | 1170 | 1050 |
| 20 | 1080 | 1040 | 1080 | 920 | 1020 | 910 | 620 | 530 | 445 | 780 | 1160 | 1050 |
| 21 | 1070 | 1030 | 1030 | 950 | 1010 | 920 | 630 | 510 | 450 | 970 | 1160 | 1060 |
| 22 | 1090 | 1030 | 1010 | 960 | 960 | 980 | 640 | 465 | 450 | 740 | 1220 | 1030 |
| 23 | 1070 | 1040 | 990 | 950 | 940 | 980 | 590 | 430 | 460 | 720 | 1150 | 1060 |
| 24 | 1070 | 1070 | 1010 | 910 | 930 | 930 | 540 | 415 | 470 | 780 | 1160 | 1110 |
| 25 | 1060 | 1020 | 1000 | 920 | 940 | 920 | 520 | 430 | 480 | 760 | 1170 | 1060 |
| 26 | 1060 | 1050 | 1000 | 950 | 940 | 870 | 520 | 420 | 520 | 770 | 1170 | 1040 |
| 27 | 1060 | 1030 | 1030 | 910 | 940 | 820 | 530 | 405 | 500 | 760 | 1140 | 970 |
| 28 | 1050 | 1050 | 1020 | 880 | --- | 820 | 560 | --- | 480 | 780 | 1140 | 1020 |
| 29 | 1040 | 1030 | 1030 | 900 | --- | 730 | 570 | 390 | 490 | 790 | 1250 | 980 |
| 30 | 1040 | --- | 1030 | 950 | --- | 710 | --- | 390 | --- | 820 | 1200 | --- |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MEAN | --- | 1050 | 1060 | 1000 | 960 | 860 | 610 | 470 | 435 | 680 | 1120 | 1070 |

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
ONCE-DAILY

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|------|-----|-----|-----|------|------|------|------|------|------|------|------|
| 1 | --- | 9.0 | 4.0 | 3.0 | --- | 12.0 | 12.0 | 10.0 | 16.0 | 20.0 | 21.0 | 20.0 |
| 2 | --- | 9.0 | 4.0 | 4.0 | --- | 12.0 | 12.0 | 10.0 | 16.0 | 20.0 | 21.0 | 20.0 |
| 3 | --- | 9.0 | 4.0 | 4.0 | --- | 14.0 | 12.0 | 10.0 | 16.0 | 20.0 | 21.0 | 20.0 |
| 4 | --- | 9.0 | 4.0 | 4.0 | --- | 14.0 | 12.0 | 10.0 | 16.0 | 20.0 | 22.0 | 20.0 |
| 5 | --- | 9.0 | 4.0 | 4.0 | --- | 14.0 | 12.0 | 12.0 | 16.0 | 21.0 | 22.0 | 20.0 |
| 6 | --- | 9.0 | 3.0 | 4.0 | --- | 14.0 | 12.0 | 12.0 | 16.0 | --- | 22.0 | 20.0 |
| 7 | --- | 9.0 | 3.0 | 4.0 | --- | 14.0 | 12.0 | 12.0 | 16.0 | --- | 22.0 | 20.0 |
| 8 | --- | --- | 3.0 | 4.0 | --- | 14.0 | 12.0 | 12.0 | 16.0 | 20.0 | 22.0 | 17.0 |
| 9 | --- | 8.0 | 3.0 | 4.0 | --- | 14.0 | 12.0 | 12.0 | --- | 20.0 | 22.0 | 17.0 |
| 10 | --- | 8.0 | 3.0 | 4.0 | 5.0 | --- | 12.0 | 12.0 | 16.0 | 20.0 | 22.0 | 17.0 |
| 11 | --- | 7.0 | 3.0 | 4.0 | 5.0 | 11.0 | 12.0 | 12.0 | 17.0 | 20.0 | 22.0 | 17.0 |
| 12 | 12.0 | 6.0 | 3.0 | --- | 5.0 | 10.0 | 12.0 | 12.0 | 17.0 | 21.0 | 22.0 | 17.0 |
| 13 | 12.0 | 6.0 | 3.0 | --- | 5.0 | 9.0 | 12.0 | 12.0 | 17.0 | 21.0 | 22.0 | 16.0 |
| 14 | 12.0 | 5.0 | 3.0 | --- | 5.0 | 9.0 | 12.0 | 12.0 | 17.0 | 21.0 | 22.0 | 16.0 |
| 15 | 12.0 | 5.0 | 2.0 | --- | 6.0 | 9.0 | 12.0 | 12.0 | 18.0 | 21.0 | 22.0 | 16.0 |
| 16 | 12.0 | 4.0 | 2.0 | --- | 6.0 | 9.0 | 12.0 | --- | 18.0 | --- | 22.0 | 16.0 |
| 17 | --- | 4.0 | 2.0 | --- | 8.0 | 10.0 | 12.0 | 12.0 | 18.0 | --- | 22.0 | 16.0 |
| 18 | 12.0 | 2.0 | 2.0 | --- | 8.0 | 11.0 | 12.0 | 14.0 | 18.0 | 20.0 | 22.0 | 16.0 |
| 19 | 12.0 | 2.0 | 2.0 | --- | 8.0 | 11.0 | 10.0 | 14.0 | 18.0 | 20.0 | 23.0 | 16.0 |
| 20 | 12.0 | 4.0 | 2.0 | --- | 10.0 | 12.0 | 10.0 | 15.0 | 18.0 | 20.0 | 22.0 | 16.0 |
| 21 | 11.0 | 4.0 | 2.0 | --- | 10.0 | 10.0 | 12.0 | 15.0 | 18.0 | 20.0 | 22.0 | 16.0 |
| 22 | 11.0 | 3.0 | 2.0 | --- | 10.0 | 11.0 | 12.0 | 15.0 | 18.0 | 20.0 | 22.0 | 14.0 |
| 23 | 11.0 | 3.0 | 2.0 | --- | 10.0 | 11.0 | 12.0 | 15.0 | 19.0 | 20.0 | 22.0 | 14.0 |
| 24 | 10.0 | 3.0 | 2.0 | --- | 10.0 | 12.0 | 12.0 | 15.0 | 19.0 | 19.0 | 22.0 | 14.0 |
| 25 | 10.0 | 4.0 | 2.0 | --- | 11.0 | 12.0 | 12.0 | 15.0 | 20.0 | 20.0 | 22.0 | 14.0 |
| 26 | 10.0 | 4.0 | 2.0 | --- | 12.0 | 12.0 | 12.0 | 15.0 | 20.0 | 20.0 | 22.0 | 14.0 |
| 27 | 10.0 | 4.0 | 2.0 | --- | 12.0 | 12.0 | 12.0 | 15.0 | 20.0 | 20.0 | 22.0 | 14.0 |
| 28 | 10.0 | 4.0 | 2.0 | --- | 12.0 | 12.0 | 12.0 | --- | 20.0 | 20.0 | 22.0 | 14.0 |
| 29 | 10.0 | 4.0 | 2.0 | --- | --- | 12.0 | 11.0 | 15.0 | 20.0 | 20.0 | 20.0 | 14.0 |
| 30 | 10.0 | --- | 3.0 | --- | --- | 12.0 | --- | 15.0 | 20.0 | 21.0 | 20.0 | 12.0 |
| 31 | --- | --- | 3.0 | --- | --- | --- | --- | 16.0 | --- | --- | 20.0 | --- |
| MEAN | --- | 5.5 | 2.5 | --- | --- | 11.5 | 12.0 | 13.0 | 17.5 | 20.0 | 21.5 | 16.5 |

COLORADO RIVER MAIN STEM

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09180500 COLORADO RIVER NEAR CISCO, UT--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | DI- AZINON, DIS- SOLVED (UG/L) | ETHION DISSOLV (UG/L) | MALA- THION, DIS- SOLVED (UG/L) | METHYL PARA- THION, DIS- SOLVED (UG/L) | METHYL- TRI- THION DISSOLV (UG/L) | PARA- THION, DIS- SOLVED (UG/L) | TRI- THION DISSOLV (UG/L) |
|-------------------|--|-----------------------------|---|---|---|---|------------------------------------|
| JUL 1986 21... | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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 1985 24... | 1140 | 6360 | 11.0 | -- | 91 | 1560 |
| NOV 19... | 1015 | 6830 | 3.0 | 89 | 56 | 1030 |
| JAN 1986 22... | 1000 | 6000 | 1.5 | 75 | 34 | 551 |
| FEB 20... | 1330 | 6840 | 7.5 | -- | 495 | 9140 |
| MAR 24... | 1030 | 7220 | 10.0 | -- | 328 | 6390 |
| APR 23... | 1400 | 15400 | 13.5 | -- | 799 | 33200 |
| MAY 19... | 1030 | 20900 | 12.5 | 52 | 833 | 47000 |
| JUN 23... | 1030 | 22200 | 16.5 | 70 | 260 | 15600 |
| JUL 21... | 1200 | 12900 | 20.0 | -- | 2840 | 98900 |
| AUG 19... | 1000 | 4980 | 23.0 | 92 | 138 | 1860 |
| SEP 25... | 1130 | 9180 | 12.5 | -- | 4650 | 115000 |

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

09183000 COURTHOUSE WASH NEAR MOAB, UT

LOCATION.--Lat 38°36'46", long 109°34'45", in NE1/4NE1/4SE1/4 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 191, 0.8 mi upstream from mouth and 3.0 mi northwest of Moab.

DRAINAGE AREA.--162 mi².

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 except for estimated daily discharges, which are poor. No regulation or diversions above station.

AVERAGE DISCHARGE.--26 years (1949-55, 1967-86), 1.84 ft³/s, 1,330 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|---------|--------------------------------|------------------|--|------|--------------------------------|------------------|
| Oct. 9 | unknown | *973 | *2.66 | No other peak greater than base discharge. | | | |

No flow at times.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|------|
| 1 | e.11 | .19 | 1.6 | e.72 | .93 | .53 | .46 | e.19 | e.16 | .03 | e.07 | e.15 |
| 2 | e.10 | .18 | 1.3 | .82 | .85 | .70 | .95 | e.18 | e.15 | .02 | e.08 | e.14 |
| 3 | e.10 | .20 | 1.3 | .78 | .78 | .57 | 66 | e.20 | e.14 | .03 | e.08 | e.13 |
| 4 | e.09 | .19 | 1.1 | .64 | .72 | .48 | 1.6 | e.22 | e.14 | .04 | e.07 | e.12 |
| 5 | e.09 | .18 | .76 | .65 | .65 | .54 | .81 | e.20 | e.13 | .04 | e.07 | e.13 |
| 6 | e.09 | .18 | .95 | e.54 | .90 | .54 | .62 | e.19 | e.14 | .03 | e.06 | e.12 |
| 7 | e.10 | .19 | .86 | e.60 | .82 | .62 | .38 | e51 | e.15 | .02 | e.08 | e.11 |
| 8 | e.80 | .18 | 1.5 | e.69 | .92 | .55 | .34 | 4.5 | e.14 | .03 | e.06 | e.14 |
| 9 | e65 | .20 | 1.1 | e.60 | 1.1 | 1.4 | .29 | 1.8 | e.18 | .08 | e.05 | e.10 |
| 10 | e4.5 | .21 | .65 | e.64 | .65 | .92 | .50 | .44 | .11 | .04 | e.05 | .08 |
| 11 | e13 | .21 | .46 | e.68 | 1.4 | 1.4 | .59 | .25 | .10 | .03 | e.06 | .07 |
| 12 | e1.2 | .54 | .52 | e.72 | 1.4 | 1.0 | .71 | .17 | .09 | .04 | e.07 | .07 |
| 13 | e.76 | .33 | .43 | e.70 | 1.8 | .74 | 1.1 | .16 | .08 | .03 | .06 | .07 |
| 14 | e.55 | .21 | .41 | e.70 | 1.4 | 1.4 | .56 | .16 | .06 | .03 | .06 | .06 |
| 15 | e.42 | .22 | .56 | e.67 | 1.4 | 1.9 | .29 | .59 | .05 | .05 | .06 | .06 |
| 16 | e.24 | .23 | e.57 | e.64 | 1.1 | .69 | .38 | 4.6 | .04 | 1.5 | .06 | .06 |
| 17 | .16 | 1.6 | e.59 | e.72 | .85 | .67 | .27 | .90 | .04 | 1.6 | .06 | .06 |
| 18 | .15 | 9.5 | e.63 | e.72 | .66 | .43 | .25 | e.34 | .06 | e.25 | .06 | .07 |
| 19 | .16 | 1.9 | e.65 | e.74 | .62 | .30 | .26 | e.22 | .07 | e.10 | .06 | .07 |
| 20 | .18 | .50 | e.67 | e.75 | .51 | .40 | .27 | e.18 | .06 | e.07 | .14 | .07 |
| 21 | .17 | .40 | e.69 | e.79 | .48 | .43 | .26 | e.17 | .06 | e18 | .15 | .07 |
| 22 | .18 | .40 | e.66 | e.68 | .60 | .32 | .24 | e.16 | .07 | 59 | .13 | .08 |
| 23 | .19 | .43 | e.65 | e.69 | .76 | .38 | .21 | e.17 | .07 | .11 | .14 | .08 |
| 24 | .19 | .45 | e.65 | e.73 | .70 | .40 | .18 | e.17 | .07 | .02 | .18 | 2.6 |
| 25 | .18 | .41 | e.68 | e.75 | .76 | .41 | .20 | e.17 | .09 | .07 | .96 | .14 |
| 26 | .18 | .39 | e.59 | e.70 | .79 | .43 | .82 | e.19 | .07 | .11 | e.20 | .11 |
| 27 | .18 | .39 | e.55 | e.70 | .58 | .43 | .40 | e.20 | .06 | e.08 | e.16 | .10 |
| 28 | .19 | .34 | e.55 | e.74 | .45 | .42 | e.22 | e.18 | .05 | e.06 | e.14 | .11 |
| 29 | .18 | .57 | e.55 | e.77 | --- | .38 | e.20 | e.17 | .05 | e.08 | e.17 | .10 |
| 30 | .20 | 1.6 | e.58 | e.79 | --- | .38 | e.21 | e.16 | .04 | e.06 | e.32 | .11 |
| 31 | .21 | --- | e.59 | .94 | --- | .40 | --- | e.15 | --- | e.09 | e.21 | --- |
| TOTAL | 89.85 | 22.52 | 23.35 | 21.92 | 24.58 | 20.16 | 79.57 | 68.38 | 2.72 | 81.74 | 4.12 | 5.38 |
| MEAN | 2.90 | .75 | .75 | .71 | .88 | .65 | 2.65 | 2.21 | .09 | 2.64 | .13 | .18 |
| MAX | 65 | 9.5 | 1.6 | .94 | 1.8 | 1.9 | 66 | 51 | .18 | 59 | .96 | 2.6 |
| MIN | .09 | .18 | .41 | .54 | .45 | .30 | .18 | .15 | .04 | .02 | .05 | .06 |
| ACFT | 178 | 45 | 46 | 43 | 49 | 40 | 158 | 136 | 5.4 | 162 | 8.2 | 11 |

| | | | | | | | | | | |
|-------------|-------|--------|------|------|-----|----|-----|-----|------|-----|
| CAL YR 1985 | TOTAL | 495.98 | MEAN | 1.36 | MAX | 76 | MIN | .01 | ACFT | 984 |
| WTR YR 1986 | TOTAL | 444.29 | MEAN | 1.22 | MAX | 66 | MIN | .02 | ACFT | 881 |

e Estimated.

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 mi².

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 except for estimated daily discharges, which are fair. 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 5,490 acre-ft diverted during the 1986 water year.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded discharge, about 5,110 ft³/s Aug. 21, 1953, gage height, 10.74 ft from floodmark, site and datum then in use from rating curve extended above 700 ft³/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 ft³/s Feb. 15, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Oct. 10 | 2200 | *146 | *2.66 | | | | |
| Minimum, 1.1 ft ³ /s Mar. 24. | | | | | | | |

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 6.6 | 6.4 | 8.2 | 5.7 | 5.0 | 4.0 | e6.8 | 17 | 38 | 9.2 | 12 | 6.8 |
| 2 | 5.6 | 6.2 | 8.2 | 5.7 | 4.8 | 4.2 | e10 | 15 | 38 | 7.3 | 13 | 6.5 |
| 3 | 5.4 | 6.3 | 8.0 | 5.6 | 4.7 | 4.3 | e13 | 22 | 35 | 8.0 | e13 | 6.2 |
| 4 | 5.2 | 6.2 | 7.6 | 4.8 | 4.5 | 3.9 | e9.2 | 50 | 38 | 10 | e12 | 5.9 |
| 5 | 5.2 | 5.9 | 7.4 | 5.7 | 4.7 | 3.6 | e8.5 | 47 | 40 | 15 | e12 | 6.8 |
| 6 | 5.1 | 5.8 | 7.5 | 6.0 | 5.0 | 3.6 | e8.1 | 15 | 48 | 13 | e11 | e8.2 |
| 7 | 6.0 | 5.7 | 7.3 | 4.6 | 5.0 | 3.8 | e7.8 | 18 | 51 | 9.1 | e11 | e12 |
| 8 | 15 | 5.6 | 8.0 | 4.4 | 5.2 | 3.8 | e7.7 | 11 | 47 | 9.4 | e11 | e15 |
| 9 | 12 | 5.7 | 7.2 | 6.9 | 4.9 | 4.2 | e7.5 | 7.1 | 46 | 7.9 | e10 | e14 |
| 10 | 69 | 5.6 | 5.9 | 6.4 | 4.7 | 4.3 | 7.6 | 6.3 | 37 | 8.2 | e10 | 15 |
| 11 | 68 | 5.4 | 5.7 | 5.0 | 4.8 | 4.6 | 9.2 | 9.1 | 29 | 10 | e9.9 | 15 |
| 12 | 24 | 6.2 | 5.9 | 4.8 | 5.3 | e5.0 | 8.1 | 14 | 24 | 10 | e9.8 | 13 |
| 13 | 12 | 6.0 | 6.0 | 4.8 | 5.3 | e4.4 | 8.6 | 12 | 23 | 9.1 | 9.2 | 13 |
| 14 | 13 | 5.1 | 4.9 | 4.8 | 4.6 | 4.1 | 6.6 | 8.7 | 21 | 8.8 | 8.8 | 13 |
| 15 | 11 | 8.4 | 4.5 | 5.0 | 4.5 | 4.5 | 6.6 | 13 | 22 | 11 | 10 | 12 |
| 16 | 9.4 | 7.1 | 4.5 | 5.3 | e4.3 | 3.9 | 6.8 | 15 | 20 | 16 | 9.8 | 12 |
| 17 | 8.9 | 9.2 | 5.0 | 4.9 | e4.4 | 3.7 | 9.6 | 14 | 15 | 13 | 9.5 | 12 |
| 18 | 8.1 | 10 | 6.4 | 4.8 | e4.5 | e3.5 | 7.9 | 12 | 15 | 12 | 8.3 | 13 |
| 19 | 7.9 | 7.7 | 7.2 | 4.7 | 4.6 | e3.7 | 6.7 | 12 | 16 | 11 | 9.8 | 13 |
| 20 | 7.9 | 6.6 | 7.1 | 4.9 | 4.8 | 5.3 | 7.2 | 23 | 14 | 11 | 9.2 | 13 |
| 21 | 7.6 | 8.3 | 6.5 | 4.8 | 4.5 | 4.5 | 8.5 | 43 | 12 | 17 | 12 | 13 |
| 22 | 7.7 | 7.8 | 6.2 | 4.5 | 3.7 | 3.5 | 16 | 48 | 10 | 16 | 12 | 13 |
| 23 | 7.5 | 8.2 | 6.2 | 4.7 | 3.8 | 2.9 | 19 | 49 | 8.6 | 12 | 11 | 11 |
| 24 | 7.5 | 8.4 | 6.3 | 4.5 | 3.6 | 2.0 | 19 | 49 | 7.5 | 16 | 20 | 24 |
| 25 | 7.5 | 8.2 | 6.0 | 4.6 | 3.7 | 1.7 | 14 | 49 | 7.6 | 14 | 31 | 10 |
| 26 | 7.5 | 8.3 | 5.7 | 5.7 | 4.0 | e2.3 | 14 | 55 | 7.2 | 14 | 9.7 | 9.4 |
| 27 | 7.5 | 7.6 | 5.7 | 6.1 | 4.1 | e2.6 | 9.4 | 59 | 7.7 | 13 | 9.2 | 5.1 |
| 28 | 7.5 | 7.5 | 5.8 | 5.0 | 4.1 | e3.4 | 9.8 | 54 | 7.4 | 11 | 9.8 | 4.9 |
| 29 | 6.9 | 8.7 | 6.2 | 4.8 | --- | e3.9 | 12 | 41 | 7.5 | 13 | 9.6 | 5.3 |
| 30 | 7.2 | 16 | 6.5 | 4.9 | --- | e4.5 | 15 | 38 | 9.2 | 11 | 6.9 | 5.6 |
| 31 | 7.2 | --- | 6.3 | 5.3 | --- | e4.9 | --- | 36 | --- | 14 | 8.2 | --- |
| TOTAL | 386.9 | 220.1 | 199.9 | 159.7 | 127.1 | 118.6 | 300.2 | 862.2 | 701.7 | 360.0 | 348.5 | 326.7 |
| MEAN | 12.5 | 7.34 | 6.45 | 5.15 | 4.54 | 3.83 | 10.0 | 27.8 | 23.4 | 11.6 | 11.2 | 10.9 |
| MAX | 69 | 16 | 8.2 | 6.9 | 5.3 | 5.3 | 19 | 59 | 51 | 17 | 31 | 24 |
| MIN | 5.1 | 5.1 | 4.5 | 4.4 | 3.6 | 1.7 | 6.6 | 6.3 | 7.2 | 7.3 | 6.9 | 4.9 |
| ACFT | 767 | 437 | 397 | 317 | 252 | 235 | 595 | 1710 | 1390 | 714 | 691 | 648 |
| CAL YR 1985 | TOTAL | 4326.2 | MEAN | 11.9 | MAX | 69 | MIN | 3.1 | ACFT | 8580 | | |
| WTR YR 1986 | TOTAL | 4111.6 | MEAN | 11.3 | MAX | 69 | MIN | 1.7 | ACFT | 8160 | | |

e Estimated.

COLORADO RIVER MAIN STEM

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 mi².

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 fair except for estimated daily discharges, which are poor. Diversions for irrigation of 600 acres above gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,600 ft³/s Aug. 20, 1984, gage height, 11.95 ft; minimum daily, 0.02 ft³/s July 12, 1984, may be less during period of no gage height record.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 739 ft³/s Aug. 29, gage height, 6.69 ft; minimum daily, 1.4 ft³/s Sept. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|------|------|------|------|-------|-------|-------|-------|
| 1 | e2.0 | e7.7 | e6.4 | e4.3 | e18 | 13 | 13 | 23 | 27 | 5.1 | 4.2 | e8.0 |
| 2 | e2.0 | e7.3 | e5.3 | e4.0 | e17 | 14 | 23 | 24 | 25 | 4.8 | 4.1 | e4.0 |
| 3 | e1.9 | e7.3 | e5.4 | e4.1 | e16 | 14 | 21 | 26 | 23 | 13 | 4.1 | e3.0 |
| 4 | e1.9 | e7.2 | e5.3 | e3.9 | e15 | 14 | 14 | 33 | 24 | 11 | 4.1 | e2.5 |
| 5 | e1.5 | e7.3 | e5.5 | e3.3 | e14 | 14 | e17 | 39 | 26 | 11 | 4.1 | e1.9 |
| 6 | e1.5 | e7.3 | e5.0 | e3.3 | e13 | 14 | 15 | 39 | 26 | 10 | 4.2 | e1.6 |
| 7 | e16 | e7.2 | e4.9 | e4.1 | e13 | 14 | 15 | 41 | e25 | 8.6 | 4.2 | e1.4 |
| 8 | e12 | e7.3 | e4.9 | e4.0 | e12 | 15 | e17 | 36 | e23 | 8.5 | 4.2 | e20 |
| 9 | e10 | e7.1 | e4.3 | e5.0 | e11 | 16 | e28 | 31 | e20 | 8.7 | 4.3 | e18 |
| 10 | e30 | e7.0 | e4.0 | e5.0 | e11 | 16 | e26 | 27 | e24 | 8.7 | 4.3 | e16 |
| 11 | e25 | e6.5 | e3.5 | e8.0 | e11 | 18 | 26 | 25 | e22 | 7.5 | 4.4 | e13 |
| 12 | e10 | e9.0 | 3.0 | e10 | e11 | 15 | 25 | 24 | e21 | 6.9 | 8.6 | e11 |
| 13 | e14 | e10 | 2.8 | e12 | e11 | 13 | 25 | 22 | e21 | 6.6 | 43 | e10 |
| 14 | e12 | e6.0 | 2.9 | e14 | 12 | 13 | e25 | e20 | 21 | 6.4 | 14 | e8.0 |
| 15 | e10 | 7.1 | 3.2 | e17 | 10 | 14 | e23 | 23 | 21 | 6.2 | 11 | e5.0 |
| 16 | e9.0 | 7.5 | e3.2 | e19 | 12 | 13 | e25 | 24 | 20 | 6.3 | 9.5 | e3.5 |
| 17 | e9.0 | 7.4 | e3.2 | e18 | 11 | 14 | e23 | 23 | e15 | 6.0 | 8.5 | e3.0 |
| 18 | e8.6 | 6.6 | e4.3 | e18 | 11 | 15 | e23 | 21 | e7.0 | 6.0 | 8.2 | e2.9 |
| 19 | e8.1 | 6.2 | e4.3 | e19 | 13 | 13 | e23 | 21 | e6.0 | 6.2 | 8.0 | e2.5 |
| 20 | e8.1 | 6.1 | e4.3 | e20 | 12 | 13 | e23 | 21 | e5.4 | 11 | 9.7 | e2.2 |
| 21 | e7.7 | 8.3 | e4.4 | e18 | 12 | 12 | 22 | 22 | e5.2 | 11 | 12 | e1.7 |
| 22 | e7.7 | 5.6 | e4.4 | e18 | 12 | 12 | 23 | 23 | e5.0 | 7.1 | 9.8 | e10 |
| 23 | e7.7 | 6.3 | e4.7 | e19 | 12 | 12 | 21 | 23 | e5.0 | 7.5 | 9.8 | e13 |
| 24 | e7.6 | 7.1 | e4.6 | e18 | 12 | 14 | 21 | 23 | 5.8 | 7.1 | 11 | e15 |
| 25 | e7.5 | 7.7 | e4.6 | e17 | 13 | 14 | 20 | 23 | 6.4 | 5.9 | 12 | e10 |
| 26 | e7.7 | e7.7 | e4.6 | e17 | 13 | 14 | 35 | 23 | 6.5 | 5.4 | 9.4 | e7.0 |
| 27 | e7.6 | e7.0 | e4.6 | e18 | 12 | 15 | 23 | 27 | 5.8 | 4.9 | 9.3 | e6.0 |
| 28 | e7.6 | e6.8 | e4.4 | e18 | 13 | e15 | 19 | 27 | 5.8 | 4.5 | 10 | e4.5 |
| 29 | e7.7 | e6.8 | e4.0 | e18 | --- | e12 | 19 | 27 | 7.0 | 4.2 | e50 | e4.0 |
| 30 | e7.5 | e6.5 | e4.6 | e18 | --- | 12 | 22 | 28 | 5.3 | 4.3 | e15 | e2.9 |
| 31 | e7.6 | --- | e4.6 | e17 | --- | 13 | --- | 28 | --- | 4.2 | e12 | --- |
| TOTAL | 276.5 | 214.9 | 135.2 | 392.0 | 353 | 430 | 655 | 817 | 460.2 | 224.6 | 327.0 | 211.6 |
| MEAN | 8.92 | 7.16 | 4.36 | 12.6 | 12.6 | 13.9 | 21.8 | 26.4 | 15.3 | 7.25 | 10.5 | 7.05 |
| MAX | 30 | 10 | 6.4 | 20 | 18 | 18 | 35 | 41 | 27 | 13 | 50 | 20 |
| MIN | 1.5 | 5.6 | 2.8 | 3.3 | 10 | 12 | 13 | 20 | 5.0 | 4.2 | 4.1 | 1.4 |
| ACFT | 548 | 426 | 268 | 778 | 700 | 853 | 1300 | 1620 | 913 | 445 | 649 | 420 |
| CAL YR 1985 | TOTAL | 5599.21 | MEAN | 15.3 | MAX | 76 | MIN | .02 | ACFT | 11110 | | |
| WTR YR 1986 | TOTAL | 4497.0 | MEAN | 12.3 | MAX | 50 | MIN | 1.4 | ACFT | 8920 | | |

e Estimated.

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 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | PH (STAND- ARD UNITS) | TEMPER- ATURE, AIR (DEG C) | TEMPER- ATURE (DEG C) | HARD- NESS (MG/L AS CAC03) | HARD- NESS NONCAR- BONATE (MG/L AS CAC03) | HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CAC03 |
|----------|------|---|---|--------------------------------|-------------------------------------|-----------------------------|--|---|---|
| OCT 1985 | | | | | | | | | |
| 02... | 1030 | 1.9 | 890 | 8.50 | 15.0 | 10.5 | 270 | 271 | 17 |
| NOV | | | | | | | | | |
| 14... | 1005 | 6.0 | 810 | 8.60 | 2.0 | 2.0 | 260 | 260 | 0 |
| FEB 1986 | | | | | | | | | |
| 13... | 1010 | 11 | 820 | 8.40 | 8.0 | 3.0 | 260 | 262 | 14 |
| MAR | | | | | | | | | |
| 12... | 1000 | 15 | 820 | 8.60 | 8.5 | 7.5 | 240 | 242 | 36 |
| APR | | | | | | | | | |
| 10... | 0945 | 26 | 470 | 8.40 | 21.0 | 11.5 | 190 | 187 | -- |
| MAY | | | | | | | | | |
| 15... | 1015 | 24 | 460 | 8.50 | 21.0 | 13.5 | 190 | 189 | 10 |
| JUN | | | | | | | | | |
| 23... | 1015 | 5.0 | 610 | 8.50 | 36.0 | 21.5 | 200 | 204 | 21 |
| JUL | | | | | | | | | |
| 21... | 1015 | 11 | 360 | 8.10 | 24.5 | 18.0 | 140 | 144 | -- |
| AUG | | | | | | | | | |
| 14... | 1015 | 16 | 660 | 8.40 | 28.0 | 21.5 | 180 | 176 | -- |

| 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 CAC03) | SULFATE DIS- SOLVED (MG/L AS SO4) |
|----------|--|--|--|-------------------|---|---|---|---|
| OCT 1985 | | | | | | | | |
| 02... | 49 | 36 | 90 | 42 | 2 | 4.3 | 254 | 110 |
| NOV | | | | | | | | |
| 14... | 50 | 33 | 75 | 38 | 2 | 3.6 | 261 | 90 |
| FEB 1986 | | | | | | | | |
| 13... | 52 | 32 | 72 | 37 | 2 | 2.7 | 248 | 92 |
| MAR | | | | | | | | |
| 12... | 49 | 29 | 66 | 37 | 2 | 2.6 | 206 | 100 |
| APR | | | | | | | | |
| 10... | 47 | 17 | 30 | 26 | 1 | 2.0 | 188 | 51 |
| MAY | | | | | | | | |
| 15... | 46 | 18 | 34 | 28 | 1 | 1.9 | 179 | 48 |
| JUN | | | | | | | | |
| 23... | 42 | 24 | 47 | 33 | 1 | 2.4 | 183 | 76 |
| JUL | | | | | | | | |
| 21... | 41 | 10 | 20 | 23 | 0.8 | 4.2 | 243 | 53 |
| AUG | | | | | | | | |
| 14... | 39 | 19 | 51 | 38 | 2 | 6.9 | 272 | 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, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) | SOLIDS, DIS- SOLVED (TONS PER AC-FT) | SOLIDS, DIS- SOLVED (TONS PER DAY) | NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) | PHOS- PHORUS, DIS- SOLVED (MG/L AS P) |
|----------|---|--|---|--|---|---|---|--|
| OCT 1985 | | | | | | | | |
| 02... | 66 | 0.3 | 14 | 520 | 0.71 | 2.6 | 0.00 | <0.01 |
| NOV | | | | | | | | |
| 14... | 60 | 0.3 | 10 | 480 | 0.65 | 7.7 | <0.10 | <0.01 |
| FEB 1986 | | | | | | | | |
| 13... | 57 | 0.3 | 11 | 470 | 0.64 | 14 | 0.11 | 0.02 |
| MAR | | | | | | | | |
| 12... | 52 | 0.3 | 10 | 430 | 0.59 | 17 | <0.10 | 0.02 |
| APR | | | | | | | | |
| 10... | 15 | 0.2 | 11 | 290 | 0.39 | 20 | <0.10 | 0.03 |
| MAY | | | | | | | | |
| 15... | 22 | 0.2 | 12 | 290 | 0.39 | 19 | <0.10 | 0.03 |
| JUN | | | | | | | | |
| 23... | 24 | 0.2 | 13 | 340 | 0.46 | 4.6 | <0.10 | 0.01 |
| JUL | | | | | | | | |
| 21... | 14 | 0.2 | 14 | 300 | 0.41 | 9.3 | 0.33 | 0.03 |
| AUG | | | | | | | | |
| 14... | 23 | 0.3 | 11 | 390 | 0.52 | 17 | 0.11 | 0.02 |

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | BORON, DIS- SOLVED (UG/L AS B) |
|----------|------|--|
| OCT 1985 | | |
| 02... | 1030 | 170 |
| NOV | | |
| 14... | 1005 | 120 |
| FEB 1986 | | |
| 13... | 1010 | 130 |
| MAR | | |
| 12... | 1000 | 100 |
| APR | | |
| 10... | 0945 | 50 |
| MAY | | |
| 15... | 1015 | 70 |
| JUN | | |
| 23... | 1015 | 100 |
| JUL | | |
| 21... | 1015 | 60 |
| AUG | | |
| 14... | 1015 | 130 |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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 1985 | | | | | | | |
| 02... | 1030 | 1.9 | 10.5 | 396 | 2.0 | 40 | 56 |
| NOV | | | | | | | |
| 14... | 1005 | 6.0 | 2.0 | 1910 | 31 | -- | -- |
| FEB 1986 | | | | | | | |
| 13... | 1010 | 11 | 3.0 | 2330 | 71 | 18 | 21 |
| MAR | | | | | | | |
| 12... | 1000 | 15 | 7.5 | 163 | 6.4 | -- | -- |
| APR | | | | | | | |
| 10... | 0945 | 26 | 11.5 | 775 | 54 | -- | -- |
| MAY | | | | | | | |
| 15... | 1015 | 24 | 13.5 | 1060 | 69 | 3 | 4 |
| JUN | | | | | | | |
| 23... | 1015 | 5.0 | 21.5 | 50 | 0.67 | -- | -- |
| JUL | | | | | | | |
| 21... | 1015 | 11 | 18.0 | 29300 | 900 | 59 | 70 |
| AUG | | | | | | | |
| 14... | 1015 | 16 | 21.5 | 23400 | 1030 | -- | -- |

| 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 |
|----------|---|---|---|---|---|---|---|
| OCT 1985 | | | | | | | |
| 02... | 75 | 97 | 100 | -- | -- | -- | -- |
| NOV | | | | | | | |
| 14... | -- | -- | -- | -- | -- | -- | -- |
| FEB 1986 | | | | | | | |
| 13... | 45 | 77 | 96 | 100 | -- | -- | -- |
| MAR | | | | | | | |
| 12... | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | |
| 10... | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | |
| 15... | 7 | 19 | 57 | 92 | 96 | 98 | 100 |
| JUN | | | | | | | |
| 23... | -- | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | |
| 21... | 97 | 99 | 100 | -- | -- | -- | -- |
| AUG | | | | | | | |
| 14... | -- | -- | -- | -- | -- | -- | -- |

GREEN RIVER BASIN

55

09217000 GREEN RIVER NEAR GREEN RIVER, WY
(National stream-quality accounting network station)

LOCATION.--Lat 41°30'59", long 109°26'54", in NW1/4 NE1/4 NE1/4 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 mi², of which 4,260 mi², including 3,959 mi² in Great Divide Basin in southern Wyoming, is probably noncontributing.

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Elevation of gage is 6,060 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 1-25, Nov. 11, and Nov. 17 to Mar. 8. Records good except those for estimated daily discharges, 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 upstream from station.

AVERAGE DISCHARGE.--35 years, 1,797 ft³/s, 1,302,000 acre-ft/yr, unadjusted.

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,400 ft³/s, June 21, gage height, 7.64 ft; minimum daily, 400 ft³/s, Nov. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------|
| 1 | 720 | 860 | 600 | 550 | 560 | 1100 | 2240 | 3270 | 9470 | 13200 | 3840 | 1480 |
| 2 | 720 | 869 | 650 | 550 | 540 | 1150 | 3150 | 3200 | 9740 | 13100 | 4370 | 1360 |
| 3 | 720 | 869 | 700 | 520 | 540 | 1200 | 3480 | 2980 | 10000 | 13000 | 3320 | 1460 |
| 4 | 720 | 869 | 700 | 480 | 560 | 1300 | 2900 | 3090 | 7900 | 12800 | 2620 | 1430 |
| 5 | 720 | 869 | 700 | 480 | 600 | 1400 | 2770 | 3540 | 9930 | 12400 | 1900 | 1430 |
| 6 | 720 | 860 | 750 | 480 | 600 | 1500 | 2560 | 5080 | 10600 | 12100 | 2550 | 1130 |
| 7 | 700 | 860 | 800 | 480 | 600 | 1550 | 2380 | 5420 | 10700 | 11900 | 3140 | 1360 |
| 8 | 650 | 886 | 800 | 480 | 560 | 1580 | 2530 | 5000 | 11000 | 11700 | 2850 | 1340 |
| 9 | 620 | 886 | 800 | 480 | 520 | 1600 | 3150 | 4840 | 10700 | 11500 | 2660 | 1070 |
| 10 | 620 | 877 | 800 | 480 | 500 | 1620 | 3290 | 4830 | 10300 | 11500 | 2370 | 1360 |
| 11 | 700 | 870 | 750 | 450 | 540 | 1620 | 3150 | 4730 | 10200 | 11300 | 2070 | 1310 |
| 12 | 740 | 870 | 650 | 450 | 560 | 1630 | 3090 | 4360 | 10700 | 11100 | 1870 | 1350 |
| 13 | 740 | 877 | 600 | 450 | 585 | 1660 | 3060 | 3860 | 11100 | 11100 | 1850 | 1350 |
| 14 | 740 | 886 | 550 | 450 | 580 | 1640 | 3050 | 3490 | 11300 | 10900 | 1850 | 1350 |
| 15 | 780 | 911 | 520 | 450 | 580 | 1640 | 2960 | 3020 | 10600 | 10700 | 1850 | 1340 |
| 16 | 780 | 903 | 520 | 450 | 580 | 1640 | 2960 | 2960 | 9400 | 10400 | 1640 | 1330 |
| 17 | 800 | 780 | 520 | 500 | 580 | 1660 | 2650 | 3250 | 13000 | 10100 | 1580 | 1290 |
| 18 | 800 | 670 | 520 | 520 | 600 | 1640 | 2620 | 3250 | 8690 | 9840 | 1580 | 1270 |
| 19 | 800 | 620 | 520 | 520 | 650 | 1590 | 2730 | 3240 | 12100 | 9590 | 1580 | 1270 |
| 20 | 800 | 640 | 520 | 540 | 750 | 1600 | 2480 | 3310 | 13700 | 9420 | 1620 | 1150 |
| 21 | 800 | 640 | 520 | 520 | 880 | 1620 | 2070 | 3750 | 14300 | 9080 | 1760 | 977 |
| 22 | 800 | 600 | 520 | 500 | 880 | 1550 | 2180 | 4080 | 14300 | 8520 | 1500 | 976 |
| 23 | 800 | 500 | 520 | 500 | 880 | 1520 | 2830 | 5060 | 14300 | 5560 | 1620 | 967 |
| 24 | 800 | 400 | 540 | 500 | 900 | 1570 | 3660 | 6000 | 14200 | 6130 | 1790 | 995 |
| 25 | 795 | 420 | 550 | 500 | 950 | 1680 | 5240 | 5990 | 14200 | 5880 | 1790 | 992 |
| 26 | 755 | 420 | 550 | 500 | 1000 | 1790 | 5840 | 5140 | 14000 | 5600 | 1780 | 968 |
| 27 | 763 | 420 | 550 | 520 | 1050 | 1830 | 5430 | 4390 | 13800 | 5880 | 1590 | 984 |
| 28 | 779 | 420 | 550 | 540 | 1050 | 1840 | 4510 | 5130 | 13700 | 5190 | 1750 | 1030 |
| 29 | 795 | 450 | 550 | 580 | --- | 1840 | 3680 | 6120 | 13700 | 4110 | 1740 | 1010 |
| 30 | 787 | 500 | 550 | 600 | --- | 1860 | 3210 | 7390 | 13500 | 4070 | 1750 | 1070 |
| 31 | 822 | --- | 550 | 600 | --- | 1870 | --- | 8580 | --- | 4210 | 1790 | --- |
| TOTAL | 23286 | 21502 | 18920 | 15620 | 19175 | 49290 | 95850 | 138350 | 351130 | 291880 | 65970 | 36399 |
| MEAN | 751 | 717 | 610 | 504 | 685 | 1590 | 3195 | 4463 | 11700 | 9415 | 2128 | 1213 |
| MAX | 822 | 911 | 800 | 600 | 1050 | 1870 | 5840 | 8580 | 14300 | 13200 | 4370 | 1480 |
| MIN | 620 | 400 | 520 | 450 | 500 | 1100 | 2070 | 2960 | 7900 | 4070 | 1500 | 967 |
| AC-FT | 46190 | 42650 | 37530 | 30980 | 38030 | 97770 | 190100 | 274400 | 696500 | 578900 | 130900 | 72200 |

| | | | | | | | | | | |
|-------------|-------|---------|------|------|-----|-------|-----|-----|-------|---------|
| CAL YR 1985 | TOTAL | 560190 | MEAN | 1535 | MAX | 12000 | MIN | 380 | AC-FT | 1111000 |
| WTR YR 1986 | TOTAL | 1127372 | MEAN | 3089 | MAX | 14300 | MIN | 400 | AC-FT | 2236000 |

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Wyoming, 1986."

GREEN RIVER BASIN

09217900 BLACKS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 40°57'53", long 110°34'38", in NW1/4 SW1/4 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 mi², approximately.

PERIOD OF RECORD.--October 1937 to July 1939 (published as "at Blacks Fork Ranger Station"), July 1966 to September 1986 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 8,804.8 ft above National Geodetic Vertical Datum 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.--Estimated daily discharges: Oct. 14 to Jan. 4, Feb. 1-10, Feb. 19 to Apr. 15, and Apr. 18, 19, 25, 30. Records good except those for October to April, which are poor. No diversion upstream from station.

AVERAGE DISCHARGE.--21 years (water years 1938, 1967-86), 164 ft³/s, 118,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,480 ft³/s, June 19, 1983; maximum gage height, 4.91 ft, June 6, 1968; minimum daily discharge, 5.5 ft³/s, Jan. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| June 4 | 2300 | *2,170 | *3.51 | June 19 | 0200 | 1,400 | 2.80 |

Minimum daily discharge, 18 ft³/s, Dec. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|-------|-------|--------|------|------|
| 1 | 43 | 41 | 26 | 26 | 23 | 23 | 50 | 186 | 1550 | 560 | 168 | 90 |
| 2 | 45 | 41 | 27 | 28 | 22 | 25 | 50 | 260 | 1570 | 503 | 156 | 86 |
| 3 | 41 | 41 | 28 | 25 | 22 | 30 | 45 | 365 | 1590 | 478 | 146 | 86 |
| 4 | 39 | 42 | 29 | 23 | 22 | 34 | 45 | 373 | 1710 | 509 | 138 | 76 |
| 5 | 37 | 43 | 29 | 23 | 21 | 36 | 50 | 314 | 1800 | 521 | 134 | 71 |
| 6 | 39 | 43 | 29 | 24 | 21 | 41 | 55 | 290 | 1590 | 395 | 130 | 68 |
| 7 | 74 | 43 | 29 | 24 | 21 | 42 | 60 | 251 | 1420 | 373 | 143 | 76 |
| 8 | 59 | 42 | 28 | 25 | 21 | 41 | 62 | 215 | 1350 | 351 | 156 | 82 |
| 9 | 58 | 43 | 27 | 25 | 20 | 41 | 60 | 189 | 1010 | 347 | 130 | 73 |
| 10 | 52 | 40 | 25 | 25 | 19 | 42 | 56 | 181 | 761 | 324 | 116 | 81 |
| 11 | 55 | 41 | 20 | 25 | 23 | 41 | 56 | 182 | 733 | 297 | 113 | 74 |
| 12 | 54 | 44 | 18 | 24 | 24 | 40 | 56 | 189 | 872 | 292 | 116 | 68 |
| 13 | 48 | 43 | 21 | 24 | 23 | 39 | 60 | 198 | 1010 | 285 | 107 | 64 |
| 14 | 40 | 44 | 25 | 23 | 22 | 38 | 55 | 211 | 1060 | 283 | 102 | 63 |
| 15 | 39 | 44 | 29 | 24 | 23 | 36 | 60 | 206 | 1090 | 310 | 97 | 63 |
| 16 | 40 | 38 | 29 | 23 | 22 | 34 | 64 | 188 | 1140 | 373 | 92 | 62 |
| 17 | 40 | 31 | 29 | 22 | 24 | 33 | 62 | 172 | 1130 | 306 | 89 | 60 |
| 18 | 39 | 28 | 29 | 23 | 21 | 30 | 60 | 207 | 1180 | 291 | 87 | 60 |
| 19 | 39 | 25 | 29 | 25 | 21 | 29 | 60 | 302 | 1140 | 259 | 91 | 62 |
| 20 | 39 | 27 | 28 | 24 | 20 | 28 | 62 | 456 | 1030 | 238 | 141 | 56 |
| 21 | 40 | 29 | 28 | 25 | 21 | 29 | 82 | 723 | 939 | 219 | 215 | 55 |
| 22 | 42 | 27 | 27 | 26 | 22 | 30 | 108 | 612 | 830 | 237 | 123 | 54 |
| 23 | 43 | 24 | 26 | 25 | 23 | 31 | 132 | 487 | 778 | 256 | 113 | 54 |
| 24 | 44 | 25 | 26 | 25 | 24 | 32 | 141 | 524 | 747 | 241 | 123 | 75 |
| 25 | 45 | 26 | 26 | 24 | 24 | 32 | 130 | 695 | 673 | 287 | 122 | 70 |
| 26 | 45 | 27 | 26 | 24 | 24 | 30 | 117 | 961 | 663 | 263 | 111 | 68 |
| 27 | 45 | 28 | 26 | 23 | 23 | 35 | 113 | 931 | 702 | 250 | 95 | 67 |
| 28 | 44 | 28 | 26 | 23 | 22 | 40 | 121 | 1140 | 728 | 211 | 92 | 67 |
| 29 | 42 | 28 | 26 | 23 | --- | 45 | 137 | 1250 | 699 | 194 | 102 | 66 |
| 30 | 40 | 27 | 27 | 22 | --- | 50 | 145 | 1410 | 664 | 183 | 101 | 65 |
| 31 | 41 | --- | 26 | 22 | --- | 55 | --- | 1540 | --- | 176 | 107 | --- |
| TOTAL | 1391 | 1053 | 824 | 747 | 618 | 1112 | 2354 | 15208 | 32159 | 9812 | 3756 | 2062 |
| MEAN | 44.9 | 35.1 | 26.6 | 24.1 | 22.1 | 35.9 | 78.5 | 491 | 1072 | 317 | 121 | 68.7 |
| MAX | 74 | 44 | 29 | 28 | 24 | 55 | 145 | 1540 | 1800 | 560 | 215 | 90 |
| MIN | 37 | 24 | 18 | 22 | 19 | 23 | 45 | 172 | 663 | 176 | 87 | 54 |
| AC-FT | 2760 | 2090 | 1630 | 1480 | 1230 | 2210 | 4670 | 30170 | 63790 | 19460 | 7450 | 4090 |
| CAL YR 1985 | TOTAL | 54587 | MEAN | 150 | MAX | 1190 | MIN | 18 | AC-FT | 108300 | | |
| WTR YR 1986 | TOTAL | 71096 | MEAN | 195 | MAX | 1800 | MIN | 18 | AC-FT | 141000 | | |

GREEN RIVER BASIN

57

09218500 BLACKS FORK NEAR MILLBURNE, WY

LOCATION.--Lat 41°01'54", long 110°34'43", in NW1/4 NE1/4 SW1/4 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 mi².

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 above National Geodetic Vertical Datum of 1929 (Bureau of Reclamation bench mark). Prior to Oct. 1, 1971, at several sites about 2.0 mi downstream at various datums.

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

AVERAGE DISCHARGE.--47 years, 164 ft³/s, 118,800 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,530 ft³/s, June 7, 1957, from rating curve extended above 1,500 ft³/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 discharge, 1.0 ft³/s, Sept. 15, 16, 1983, due to regulation by Meeks Cabin Dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,430 ft³/s, June 5, gage height, 5.04 ft; minimum daily, 7.7 ft³/s, Mar. 13-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|------|------|------|-------|-------|--------|-------|--------|-------|-------|
| 1 | 58 | 31 | 33 | 12 | 11 | 11 | 8.6 | 8.6 | 1670 | 757 | 229 | 136 |
| 2 | 45 | 31 | 33 | 12 | 11 | 11 | 8.6 | 8.8 | 1860 | 748 | 228 | 138 |
| 3 | 45 | 31 | 33 | 12 | 11 | 11 | 8.6 | 9.1 | 1820 | 745 | 224 | 138 |
| 4 | 45 | 31 | 33 | 12 | 11 | 11 | 8.6 | 9.1 | 2010 | 599 | 225 | 140 |
| 5 | 45 | 31 | 23 | 11 | 11 | 11 | 8.6 | 9.1 | 2070 | 482 | 203 | 138 |
| 6 | 45 | 31 | 12 | 11 | 11 | 10 | 8.6 | 9.1 | 1930 | 493 | 182 | 138 |
| 7 | 45 | 31 | 12 | 11 | 11 | 8.6 | 8.6 | 9.1 | 1730 | 507 | 179 | 137 |
| 8 | 44 | 31 | 12 | 11 | 11 | 8.6 | 8.6 | 9.1 | 1680 | 502 | 176 | 135 |
| 9 | 43 | 31 | 12 | 11 | 11 | 8.6 | 8.6 | 9.1 | 1450 | 518 | 175 | 164 |
| 10 | 42 | 32 | 12 | 11 | 11 | 8.6 | 8.6 | 9.1 | 1360 | 509 | 176 | 186 |
| 11 | 42 | 32 | 12 | 11 | 11 | 8.6 | 8.6 | 9.2 | 1130 | 515 | 176 | 185 |
| 12 | 42 | 32 | 12 | 11 | 11 | 8.3 | 8.6 | 9.5 | 1130 | 524 | 177 | 182 |
| 13 | 42 | 32 | 12 | 11 | 11 | 7.7 | 8.6 | 9.5 | 1270 | 515 | 179 | 179 |
| 14 | 42 | 32 | 12 | 11 | 11 | 7.7 | 8.6 | 9.5 | 1430 | 518 | 179 | 177 |
| 15 | 42 | 32 | 12 | 11 | 11 | 7.8 | 8.6 | 22 | 1450 | 448 | 179 | 176 |
| 16 | 42 | 32 | 11 | 11 | 11 | 7.8 | 8.6 | 90 | 1460 | 396 | 180 | 200 |
| 17 | 42 | 32 | 11 | 11 | 11 | 8.0 | 8.6 | 124 | 1450 | 388 | 181 | 223 |
| 18 | 42 | 33 | 11 | 11 | 11 | 8.2 | 8.6 | 125 | 1440 | 393 | 182 | 222 |
| 19 | 42 | 33 | 11 | 11 | 11 | 8.2 | 8.6 | 147 | 1420 | 405 | 187 | 222 |
| 20 | 42 | 33 | 11 | 11 | 11 | 8.2 | 8.6 | 165 | 1380 | 412 | 190 | 220 |
| 21 | 42 | 33 | 11 | 11 | 11 | 8.2 | 8.6 | 228 | 1240 | 417 | 190 | 221 |
| 22 | 42 | 33 | 11 | 11 | 11 | 8.2 | 8.6 | 379 | 1120 | 427 | 191 | 223 |
| 23 | 42 | 33 | 11 | 11 | 11 | 8.6 | 8.6 | 598 | 1000 | 436 | 185 | 191 |
| 24 | 42 | 33 | 11 | 11 | 11 | 8.6 | 8.6 | 679 | 953 | 434 | 182 | 166 |
| 25 | 42 | 33 | 11 | 11 | 11 | 8.6 | 8.6 | 678 | 866 | 431 | 182 | 165 |
| 26 | 42 | 33 | 11 | 11 | 11 | 8.6 | 8.6 | 674 | 797 | 427 | 155 | 165 |
| 27 | 42 | 33 | 11 | 11 | 11 | 8.6 | 8.6 | 763 | 780 | 428 | 135 | 164 |
| 28 | 42 | 33 | 11 | 11 | 11 | 8.6 | 8.6 | 1080 | 787 | 430 | 136 | 163 |
| 29 | 37 | 33 | 11 | 11 | --- | 8.6 | 8.6 | 1210 | 789 | 326 | 135 | 163 |
| 30 | 31 | 33 | 11 | 11 | --- | 8.6 | 8.6 | 1300 | 784 | 232 | 136 | 125 |
| 31 | 31 | --- | 11 | 11 | --- | 8.6 | --- | 1500 | --- | 230 | 135 | --- |
| TOTAL | 1312 | 964 | 451 | 345 | 308 | 273.7 | 258.0 | 9889.9 | 40256 | 14592 | 5569 | 5182 |
| MEAN | 42.3 | 32.1 | 14.5 | 11.1 | 11.0 | 8.83 | 8.60 | 319 | 1342 | 471 | 180 | 173 |
| MAX | 58 | 33 | 33 | 12 | 11 | 11 | 8.6 | 1500 | 2070 | 757 | 229 | 223 |
| MIN | 31 | 31 | 11 | 11 | 11 | 7.7 | 8.6 | 8.6 | 780 | 230 | 135 | 125 |
| AC-FT | 2600 | 1910 | 895 | 684 | 611 | 543 | 512 | 19620 | 79850 | 28940 | 11050 | 10280 |
| CAL YR 1985 | TOTAL | 58138 | MEAN | 159 | MAX | 1020 | MIN | 11 | AC-FT | 115300 | | |
| WTR YR 1986 | TOTAL | 79400.6 | MEAN | 218 | MAX | 2070 | MIN | 7.7 | AC-FT | 157500 | | |

GREEN RIVER BASIN

09220000 EAST FORK OF SMITHS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 41°03'15", long 110°23'52", in NE1/4 NW1/4 NE1/4 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 mi².

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. Elevation of gage is 8,470 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to July 12, 1957, at datum 3.96 ft higher.

REMARKS.--No estimated daily discharges. Records fair. 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 provided by Office of Wyoming State Engineer and reviewed by Geological Survey.

AVERAGE DISCHARGE.--32 years (water years 1940-71), 47.1 ft³/s, 39,120 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,060 ft³/s, June 7, gage height, 6.41 ft; minimum daily during period of operation, 20 ft³/s, Apr. 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-----|-----|-----|-----|-----|-----|-----|------|-------|------|------|------|
| 1 | | | | | | | --- | 26 | 235 | 176 | 100 | 60 |
| 2 | | | | | | | --- | 27 | 678 | 170 | 100 | 61 |
| 3 | | | | | | | --- | 29 | 667 | 165 | 101 | 61 |
| 4 | | | | | | | --- | 27 | 710 | 155 | 100 | 62 |
| 5 | | | | | | | --- | 24 | 710 | 155 | 100 | 67 |
| 6 | | | | | | | --- | 24 | 825 | 163 | 100 | 67 |
| 7 | | | | | | | --- | 31 | 981 | 147 | 94 | 67 |
| 8 | | | | | | | --- | 31 | 929 | 139 | 93 | 67 |
| 9 | | | | | | | --- | 30 | 712 | 134 | 96 | 67 |
| 10 | | | | | | | --- | 27 | 486 | 130 | 96 | 67 |
| 11 | | | | | | | --- | 27 | 336 | 128 | 96 | 63 |
| 12 | | | | | | | --- | 26 | 339 | 128 | 98 | 58 |
| 13 | | | | | | | --- | 25 | 435 | 126 | 100 | 57 |
| 14 | | | | | | | --- | 25 | 484 | 127 | 101 | 57 |
| 15 | | | | | | | --- | 26 | 561 | 126 | 103 | 57 |
| 16 | | | | | | | 21 | 31 | 587 | 126 | 103 | 57 |
| 17 | | | | | | | 21 | 36 | 575 | 124 | 103 | 57 |
| 18 | | | | | | | 20 | 36 | 522 | 124 | 101 | 58 |
| 19 | | | | | | | 20 | 36 | 538 | 124 | 103 | 60 |
| 20 | | | | | | | 21 | 37 | 472 | 124 | 108 | 60 |
| 21 | | | | | | | 25 | 39 | 394 | 122 | 101 | 60 |
| 22 | | | | | | | 27 | 59 | 308 | 120 | 91 | 60 |
| 23 | | | | | | | 28 | 111 | 256 | 120 | 91 | 60 |
| 24 | | | | | | | 27 | 127 | 237 | 109 | 91 | 61 |
| 25 | | | | | | | 26 | 131 | 217 | 98 | 91 | 56 |
| 26 | | | | | | | 24 | 135 | 204 | 98 | 91 | 51 |
| 27 | | | | | | | 22 | 141 | 204 | 98 | 91 | 51 |
| 28 | | | | | | | 24 | 146 | 214 | 98 | 78 | 51 |
| 29 | | | | | | | 27 | 141 | 214 | 96 | 62 | 51 |
| 30 | | | | | | | 26 | 143 | 198 | 96 | 61 | 51 |
| 31 | | | | | | | --- | 143 | --- | 100 | 61 | --- |
| TOTAL | | | | | | | --- | 1897 | 14228 | 3946 | 2905 | 1782 |
| MEAN | | | | | | | --- | 61.2 | 474 | 127 | 93.7 | 59.4 |
| MAX | | | | | | | --- | 146 | 981 | 176 | 108 | 67 |
| MIN | | | | | | | --- | 24 | 198 | 96 | 61 | 51 |

09229500 HENRYS FORK NEAR MANILA, UT

LOCATION.--Lat 41°00'45", long 109°40'20", in NW1/4 NW1/4 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, UT.

DRAINAGE AREA.--520 mi², approximately.

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Elevation of gage is 6,060 ft above National Geodetic Vertical Datum of 1929, 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.--Estimated daily discharges: Nov. 16-20, Nov. 23 to Dec. 7, and Dec. 11 to Feb. 28. Records fair except those for estimated daily discharges, 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.--58 years, 86.2 ft³/s, 62,450 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge determined, 6,750 ft³/s, Aug. 3, 1936, gage height, 7.19 ft, site and datum then in use, from floodmarks, from rating curve extended above 570 ft³/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, 1,280 ft³/s, June 5, gage height, 6.11 ft; minimum daily, 19 ft³/s, Aug. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|---------------|------|-----------|------|----------|------|---------|-------|-------------|------|------|------|
| 1 | 46 | 72 | 60 | 70 | 60 | 82 | 68 | 97 | 797 | 166 | 62 | 76 |
| 2 | 46 | 70 | 70 | 76 | 58 | 88 | 73 | 100 | 943 | 149 | 57 | 67 |
| 3 | 47 | 74 | 82 | 68 | 54 | 85 | 98 | 111 | 968 | 176 | 52 | 61 |
| 4 | 46 | 76 | 84 | 60 | 50 | 78 | 97 | 136 | 1010 | 137 | 52 | 58 |
| 5 | 46 | 77 | 90 | 60 | 50 | 76 | 104 | 149 | 1110 | 129 | 48 | 49 |
| 6 | 46 | 76 | 86 | 64 | 50 | 68 | 102 | 125 | 1120 | 157 | 40 | 43 |
| 7 | 55 | 72 | 83 | 60 | 50 | 69 | 93 | 130 | 954 | 183 | 37 | 44 |
| 8 | 63 | 71 | 81 | 56 | 47 | 69 | 81 | 183 | 887 | 165 | 41 | 51 |
| 9 | 63 | 79 | 77 | 56 | 45 | 83 | 74 | 212 | 869 | 135 | 47 | 50 |
| 10 | 60 | 66 | 58 | 58 | 45 | 73 | 73 | 191 | 913 | 115 | 45 | 50 |
| 11 | 59 | 78 | 50 | 54 | 47 | 72 | 68 | 168 | 565 | 110 | 45 | 50 |
| 12 | 57 | 97 | 45 | 50 | 50 | 69 | 65 | 133 | 421 | 104 | 45 | 48 |
| 13 | 60 | 89 | 52 | 48 | 50 | 63 | 62 | 99 | 447 | 89 | 42 | 39 |
| 14 | 61 | 92 | 66 | 45 | 56 | 63 | 60 | 68 | 493 | 89 | 36 | 34 |
| 15 | 58 | 91 | 80 | 46 | 60 | 58 | 65 | 55 | 524 | 84 | 34 | 39 |
| 16 | 59 | 72 | 78 | 50 | 64 | 71 | 72 | 61 | 516 | 193 | 28 | 39 |
| 17 | 61 | 68 | 76 | 50 | 66 | 69 | 83 | 61 | 480 | 210 | 25 | 43 |
| 18 | 59 | 62 | 80 | 50 | 66 | 67 | 88 | 51 | 457 | 175 | 22 | 46 |
| 19 | 59 | 56 | 78 | 50 | 64 | 56 | 104 | 46 | 466 | 140 | 19 | 51 |
| 20 | 59 | 61 | 76 | 50 | 62 | 67 | 95 | 41 | 482 | 123 | 27 | 51 |
| 21 | 60 | 77 | 74 | 49 | 66 | 81 | 90 | 51 | 399 | 120 | 86 | 49 |
| 22 | 63 | 52 | 72 | 47 | 72 | 75 | 89 | 97 | 354 | 120 | 73 | 49 |
| 23 | 72 | 50 | 70 | 47 | 80 | 81 | 98 | 120 | 313 | 144 | 55 | 51 |
| 24 | 73 | 52 | 70 | 49 | 86 | 85 | 106 | 102 | 273 | 249 | 52 | 59 |
| 25 | 75 | 60 | 70 | 50 | 86 | 78 | 111 | 110 | 246 | 280 | 50 | 88 |
| 26 | 74 | 70 | 70 | 50 | 86 | 64 | 97 | 195 | 223 | 189 | 52 | 96 |
| 27 | 72 | 72 | 70 | 50 | 84 | 54 | 89 | 349 | 186 | 192 | 48 | 90 |
| 28 | 71 | 72 | 70 | 50 | 82 | 54 | 84 | 457 | 189 | 150 | 44 | 90 |
| 29 | 68 | 70 | 70 | 54 | --- | 56 | 94 | 494 | 196 | 102 | 44 | 88 |
| 30 | 64 | 68 | 74 | 58 | --- | 58 | 104 | 537 | 190 | 82 | 42 | 91 |
| 31 | 71 | --- | 70 | 60 | --- | 63 | --- | 673 | --- | 68 | 57 | --- |
| TOTAL | 1873 | 2142 | 2232 | 1685 | 1736 | 2175 | 2587 | 5402 | 16991 | 4525 | 1407 | 1740 |
| MEAN | 60.4 | 71.4 | 72.0 | 54.4 | 62.0 | 70.2 | 86.2 | 174 | 566 | 146 | 45.4 | 58.0 |
| MAX | 75 | 97 | 90 | 76 | 86 | 88 | 111 | 673 | 1120 | 280 | 86 | 96 |
| MIN | 46 | 50 | 45 | 45 | 45 | 54 | 60 | 41 | 186 | 68 | 19 | 34 |
| AC-FT | 3720 | 4250 | 4430 | 3340 | 3440 | 4310 | 5130 | 10710 | 33700 | 8980 | 2790 | 3450 |
| CAL YR 1985 | TOTAL 27634.5 | | MEAN 75.7 | | MAX 269 | | MIN 9.0 | | AC-FT 54810 | | | |
| WTR YR 1986 | TOTAL 44495 | | MEAN 122 | | MAX 1120 | | MIN 19 | | AC-FT 88260 | | | |

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Wyoming, 1986."

GREEN RIVER BASIN

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 mi², of which about 4,260 mi², including 3,959 mi² 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 provided 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, 3,652,000 acre-ft Aug. 31-Sept. 7, elevation, 6,037.66 ft; minimum observed, 2,903,000 acre-ft May 22-24, elevation, 6,017.89 ft.

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

| | | | |
|-------|-----------|-------|-----------|
| 6,015 | 2,804,000 | 6,030 | 3,346,000 |
| 6,020 | 2,977,000 | 6,035 | 3,543,000 |
| 6,025 | 3,157,000 | 6,040 | 3,749,000 |

RESERVOIR STORAGE, IN THOUSANDS OF AC-FT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
INSTANTANEOUS OBSERVATIONS

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | 3293 | 3250 | 3199 | 3110 | 3010 | 2958 | 2912 | 2940 | 2934 | 3365 | 3604 | 3652 |
| 2 | 3291 | 3249 | 3196 | 3106 | 3008 | 2959 | 2912 | 2939 | 2946 | 3377 | 3611 | 3652 |
| 3 | 3290 | 3248 | 3194 | 3101 | 3004 | 2958 | 2912 | 2937 | 2961 | 3388 | 3615 | 3652 |
| 4 | 3288 | 3247 | 3193 | 3098 | 3001 | 2958 | 2912 | 2937 | 2971 | 3400 | 3617 | 3652 |
| 5 | 3286 | 3246 | 3191 | 3091 | 2998 | 2957 | 2912 | 2936 | 2986 | 3405 | 3619 | 3652 |
| 6 | 3286 | 3246 | 3189 | 3087 | 2994 | 2956 | 2911 | 2940 | 3002 | 3414 | 3621 | 3652 |
| 7 | 3285 | 3244 | 3184 | 3082 | 2990 | 2955 | 2910 | 2946 | 3018 | 3425 | 3626 | 3652 |
| 8 | 3284 | 3242 | 3181 | 3078 | 2986 | 2953 | 2908 | 2953 | 3032 | 3433 | 3628 | 3650 |
| 9 | 3282 | 3242 | 3178 | 3075 | 2983 | 2951 | 2908 | 2955 | 3053 | 3440 | 3632 | 3649 |
| 10 | 3280 | 3242 | 3174 | 3068 | 2980 | 2952 | 2908 | 2956 | 3072 | 3447 | 3634 | 3649 |
| 11 | 3278 | 3241 | 3168 | 3067 | 2977 | 2953 | 2907 | 2954 | 3090 | 3453 | 3635 | 3648 |
| 12 | 3280 | 3241 | 3162 | 3064 | 2974 | 2952 | 2908 | 2953 | 3109 | 3459 | 3636 | 3647 |
| 13 | 3278 | 3240 | 3157 | 3060 | 2972 | 2951 | 2908 | 2950 | 3126 | 3466 | 3637 | 3646 |
| 14 | 3274 | 3239 | 3156 | 3057 | 2972 | 2952 | 2909 | 2946 | 3142 | 3474 | 3637 | 3646 |
| 15 | 3272 | 3236 | 3154 | 3052 | 2972 | 2951 | 2909 | 2940 | 3155 | 3479 | 3638 | 3646 |
| 16 | 3270 | 3235 | 3151 | 3049 | 2972 | 2950 | 2910 | 2934 | 3164 | 3486 | 3639 | 3646 |
| 17 | 3268 | 3235 | 3145 | 3047 | 2972 | 2950 | 2912 | 2930 | 3178 | 3491 | 3640 | 3645 |
| 18 | 3267 | 3234 | 3141 | 3044 | 2972 | 2949 | 2912 | 2923 | 3184 | 3496 | 3640 | 3645 |
| 19 | 3266 | 3231 | 3138 | 3045 | 2968 | 2949 | 2912 | 2918 | 3199 | 3502 | 3640 | 3645 |
| 20 | 3265 | 3227 | 3136 | 3042 | 2963 | 2946 | 2913 | 2913 | 3214 | 3510 | 3643 | 3644 |
| 21 | 3263 | 3223 | 3135 | 3040 | 2958 | 2943 | 2913 | 2906 | 3229 | 3518 | 3644 | 3643 |
| 22 | 3262 | 3223 | 3135 | 3038 | 2954 | 2940 | 2912 | 2903 | 3245 | 3528 | 3645 | 3642 |
| 23 | 3260 | 3222 | 3135 | 3036 | 2949 | 2936 | 2912 | 2903 | 3260 | 3535 | 3647 | 3641 |
| 24 | 3259 | 3220 | 3131 | 3034 | 2949 | 2933 | 2914 | 2903 | 3277 | 3546 | 3648 | 3643 |
| 25 | 3258 | 3220 | 3130 | 3030 | 2951 | 2929 | 2920 | 2904 | 3291 | 3555 | 3648 | 3645 |
| 26 | 3257 | 3218 | 3127 | 3029 | 2953 | 2927 | 2927 | 2906 | 3305 | 3566 | 3649 | 3646 |
| 27 | 3255 | 3214 | 3124 | 3026 | 2956 | 2924 | 2932 | 2905 | 3318 | 3575 | 3649 | 3644 |
| 28 | 3255 | 3212 | 3119 | 3024 | 2958 | 2921 | 2937 | 2906 | 3330 | 3582 | 3650 | 3642 |
| 29 | 3254 | 3207 | 3118 | 3019 | --- | 2917 | 2940 | 2909 | 3342 | 3588 | 3650 | 3640 |
| 30 | 3253 | 3204 | 3119 | 3015 | --- | 2914 | 2939 | 2914 | 3354 | 3593 | 3651 | 3638 |
| 31 | 3252 | --- | 3117 | 3014 | --- | 2913 | --- | 2924 | --- | 3599 | 3652 | --- |
| MAX | 3293 | 3250 | 3199 | 3110 | 3010 | 2959 | 2940 | 2956 | 3354 | 3599 | 3652 | 3652 |
| MIN | 3252 | 3204 | 3117 | 3014 | 2949 | 2913 | 2907 | 2903 | 2934 | 3365 | 3604 | 3638 |
| (#) | 6027.53 | 6026.26 | 6023.90 | 6021.04 | 6019.46 | 6018.19 | 6018.92 | 6018.49 | 6030.22 | 6036.38 | 6037.66 | 6037.34 |
| (*) | -43 | -48 | -87 | -103 | -56 | -45 | +26 | -15 | +430 | +245 | +53 | -14 |

CAL YR 1985(*) -262
WTR YR 1986(*) +343

(#) Elevation, in feet, at end of month.

(*) Change in contents, in thousands of acre-feet.

GREEN RIVER BASIN

61

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 mi², approximately, including about 4,260 mi² which is probably noncontributing. This noncontributing area includes 3,959 mi² 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. Sept. 3, 1959, to Sept. 30, 1985, at datum 5.0 ft. lower.

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated by Flaming Gorge Reservoir 0.5 mi upstream, beginning Nov. 1, 1962 (see station 09234400).

AVERAGE DISCHARGE.--36 years, 2,181 ft³/s, 1,580,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,600 ft³/s June 12, 1957, gage height, 10.60 ft, site and datum then in use; maximum gage height, 14.51 ft May 12, June 6, 1986, datum then in use; minimum, 2.3 ft³/s Mar. 20, 22, 27, 28, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge observed, 8,020 ft³/s May 20, gage height, 14.40 ft; minimum daily, 896 ft³/s Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|--------|--------|--------|--------|--------|--------|--------|---------|-------|-------|
| 1 | 1540 | 1750 | 2630 | 3100 | 2100 | 2630 | 4060 | 4990 | 7830 | 7690 | 1610 | 1880 |
| 2 | 1520 | 1230 | 1770 | 2580 | 2600 | 2630 | 4100 | 5370 | 7810 | 7700 | 1500 | 1520 |
| 3 | 1450 | 1570 | 2580 | 3310 | 2870 | 2600 | 4100 | 5490 | 7820 | 7690 | 1510 | 1580 |
| 4 | 1410 | 1710 | 1290 | 2920 | 2650 | 2630 | 4100 | 5500 | 7610 | 7700 | 1590 | 1550 |
| 5 | 1280 | 1520 | 1450 | 3700 | 2610 | 2520 | 4100 | 5500 | 7720 | 7690 | 1630 | 1620 |
| 6 | 1210 | 1400 | 1790 | 3120 | 2250 | 3210 | 4100 | 5510 | 7830 | 7690 | 1570 | 1650 |
| 7 | 1820 | 1840 | 3400 | 2840 | 2700 | 3630 | 4080 | 5500 | 7830 | 7690 | 1550 | 1660 |
| 8 | 2110 | 1490 | 2780 | 2820 | 2750 | 3490 | 4080 | 5510 | 7800 | 7690 | 1620 | 1640 |
| 9 | 1760 | 1160 | 3480 | 2190 | 2750 | 3210 | 4100 | 6700 | 7720 | 7680 | 1590 | 1640 |
| 10 | 1340 | 1420 | 2870 | 3100 | 2670 | 2490 | 4090 | 7780 | 6640 | 7680 | 1590 | 1590 |
| 11 | 1150 | 1500 | 3650 | 2380 | 2380 | 2760 | 4090 | 7790 | 6030 | 7670 | 1510 | 1660 |
| 12 | 1050 | 1370 | 3160 | 1990 | 2510 | 2760 | 4100 | 7800 | 6030 | 7680 | 1710 | 1620 |
| 13 | 1170 | 1750 | 3100 | 2600 | 2620 | 2760 | 3500 | 7790 | 6020 | 7670 | 1580 | 1560 |
| 14 | 2510 | 1440 | 2160 | 2640 | 2710 | 2760 | 3350 | 7780 | 6040 | 7680 | 1640 | 1370 |
| 15 | 2150 | 1960 | 1470 | 2410 | 2720 | 2770 | 4090 | 7780 | 7300 | 7680 | 1590 | 1530 |
| 16 | 1690 | 1090 | 3060 | 2190 | 2600 | 2770 | 4060 | 7790 | 7760 | 7690 | 1500 | 1630 |
| 17 | 2360 | 1090 | 3250 | 1670 | 2620 | 2760 | 3490 | 7770 | 7710 | 7680 | 1610 | 1600 |
| 18 | 1520 | 1440 | 2430 | 1640 | 2380 | 2770 | 3550 | 7790 | 7700 | 7570 | 1510 | 1570 |
| 19 | 1430 | 1810 | 2060 | 1640 | 2550 | 2760 | 4080 | 7780 | 7700 | 6880 | 1660 | 1680 |
| 20 | 1050 | 2160 | 2130 | 1960 | 2630 | 3500 | 3620 | 7790 | 7650 | 5830 | 1620 | 995 |
| 21 | 1920 | 2290 | 906 | 1480 | 2760 | 4090 | 3360 | 7790 | 7690 | 4840 | 1760 | 1510 |
| 22 | 2000 | 1080 | 962 | 1850 | 3670 | 4080 | 4090 | 7790 | 7640 | 4050 | 1610 | 1420 |
| 23 | 1830 | 934 | 1410 | 2140 | 3820 | 4090 | 4090 | 7800 | 7620 | 3410 | 1540 | 896 |
| 24 | 1600 | 1100 | 2460 | 1590 | 2990 | 4090 | 4100 | 7790 | 7590 | 3000 | 1590 | 925 |
| 25 | 1270 | 1260 | 1310 | 2140 | 2600 | 4080 | 4100 | 7810 | 7540 | 2600 | 1570 | 922 |
| 26 | 1590 | 986 | 2680 | 1470 | 2620 | 4090 | 4080 | 7810 | 7580 | 1640 | 2010 | 1520 |
| 27 | 1370 | 3290 | 1930 | 2450 | 2600 | 4090 | 4080 | 7800 | 7640 | 1390 | 1400 | 1920 |
| 28 | 1730 | 1970 | 3350 | 1940 | 2630 | 4090 | 4090 | 7800 | 7710 | 1790 | 2110 | 2150 |
| 29 | 1740 | 2750 | 1500 | 2960 | --- | 4090 | 4610 | 7820 | 7700 | 1670 | 1920 | 2420 |
| 30 | 1540 | 2830 | 2100 | 2420 | --- | 4090 | 5050 | 7820 | 7690 | 1650 | 1650 | 2010 |
| 31 | 1580 | --- | 1160 | 1510 | --- | 4080 | --- | 7800 | --- | 1720 | 1520 | --- |
| TOTAL | 49690 | 49190 | 70278 | 72750 | 75360 | 102370 | 120490 | 221540 | 222950 | 178690 | 50370 | 47238 |
| MEAN | 1603 | 1640 | 2267 | 2347 | 2691 | 3302 | 4016 | 7146 | 7432 | 5764 | 1625 | 1575 |
| MAX | 2510 | 3290 | 3650 | 3700 | 3820 | 4090 | 5050 | 7820 | 7830 | 7700 | 2110 | 2420 |
| MIN | 1050 | 934 | 906 | 1470 | 2100 | 2490 | 3350 | 4990 | 6020 | 1390 | 1400 | 896 |
| ACFT | 98560 | 97570 | 139400 | 144300 | 149500 | 203100 | 239000 | 439400 | 442200 | 354400 | 99910 | 93700 |
| CAL YR 1985 | TOTAL | 872831 | MEAN | 2391 | MAX | 4300 | MIN | 536 | ACFT | 1731000 | | |
| WTR YR 1986 | TOTAL | 1260916 | MEAN | 3455 | MAX | 7830 | MIN | 896 | ACFT | 2501000 | | |

GREEN RIVER BASIN

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 provided 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 microsiemens Aug. 30, 1961; minimum daily, 325 microsiemens 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 microsiemens Nov. 9, 1971; minimum daily, 560 microsiemens 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, 760 microsiemens Apr. 7, 15, 16; minimum observed, 680 microsiemens several days during May and June.

WATER TEMPERATURES: Maximum observed, 13.5°C several days during August and September; minimum observed, 3.5°C Feb. 24-28.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | PH (STAND- ARD UNITS) | TEMPER- ATURE, AIR (DEG C) | TEMPER- ATURE (DEG C) | TUR- BID- ITY (NTU) | OXYGEN, DIS- SOLVED (MG/L) | BARO- METRIC PRES- SURE (MM OF HG) | COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) | STREP- TOCOCCI KF AGAR (COLS. PER 100 ML) |
|----------|------|---|---|--------------------------------|-------------------------------------|-----------------------------|------------------------------|-------------------------------------|--|--|--|
| OCT 1985 | | | | | | | | | | | |
| 30... | 1400 | 2270 | 680 | 8.40 | 18.0 | 9.5 | -- | 11.3 | 610 | -- | -- |
| NOV | | | | | | | | | | | |
| 20... | 1100 | 3780 | 690 | 8.30 | -1.0 | 7.0 | 0.7 | 8.2 | 620 | <1 | <1 |
| DEC | | | | | | | | | | | |
| 18... | 1145 | 2530 | 690 | 8.30 | 2.5 | 4.5 | -- | 8.6 | 630 | -- | -- |
| JAN 1986 | | | | | | | | | | | |
| 14... | 1130 | 3080 | 700 | 8.30 | -7.0 | 4.0 | 0.5 | 8.6 | 624 | <1 | <1 |
| FEB | | | | | | | | | | | |
| 20... | 1230 | 2630 | 700 | 8.30 | 7.5 | 3.5 | -- | 10.1 | 618 | -- | -- |
| MAR | | | | | | | | | | | |
| 26... | 1300 | 4270 | 720 | 8.30 | 17.0 | 4.5 | 10 | 10.0 | 630 | <1 | <1 |
| APR | | | | | | | | | | | |
| 23... | 1315 | 4240 | 700 | 8.40 | 13.0 | 6.0 | -- | 9.4 | 616 | -- | -- |
| MAY | | | | | | | | | | | |
| 20... | 1445 | 8020 | 720 | 8.30 | 22.0 | 6.0 | 1.2 | 12.3 | 620 | <1 | <1 |
| JUN | | | | | | | | | | | |
| 04... | 1315 | 6780 | 740 | 8.40 | 22.0 | 8.0 | -- | 11.8 | 620 | -- | -- |
| JUL | | | | | | | | | | | |
| 08... | 1145 | 7560 | 710 | 8.60 | 21.5 | 12.5 | 1.2 | 9.0 | 620 | <1 | <1 |
| AUG | | | | | | | | | | | |
| 14... | 1145 | 1940 | 710 | 8.30 | 24.0 | 13.5 | 1.1 | 8.2 | 620 | <1 | <1 |
| SEP | | | | | | | | | | | |
| 24... | 0900 | 928 | 710 | 8.30 | 8.0 | 13.0 | -- | 7.7 | 607 | -- | -- |

GREEN RIVER BASIN

63

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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) | BICAR- BONATE IT-FLD (MG/L AS HCO3) | CAR- BONATE IT-FLD (MG/L AS CO3) | ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CACO3) |
|----------|---|---|--|--|--|---|---|---|---|---|---|
| OCT 1985 | | | | | | | | | | | |
| 30... | 240 | 240 | 60 | 22 | 51 | 31 | 1 | 2.3 | -- | -- | -- |
| NOV | | | | | | | | | | | |
| 20... | 260 | 257 | 63 | 24 | 52 | 30 | 1 | 2.4 | 186 | 0 | 152 |
| DEC | | | | | | | | | | | |
| 18... | 250 | 250 | 62 | 24 | 53 | 31 | 1 | 2.7 | -- | -- | -- |
| JAN 1986 | | | | | | | | | | | |
| 14... | 250 | 254 | 62 | 24 | 54 | 31 | 2 | 2.3 | 193 | 0 | 158 |
| FEB | | | | | | | | | | | |
| 20... | 250 | 254 | 62 | 24 | 52 | 31 | 1 | 2.5 | -- | -- | -- |
| MAR | | | | | | | | | | | |
| 26... | 260 | 259 | 62 | 25 | 55 | 31 | 2 | 2.5 | 189 | 0 | 155 |
| APR | | | | | | | | | | | |
| 23... | 250 | 251 | 61 | 24 | 55 | 32 | 2 | 2.4 | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 20... | 260 | 264 | 64 | 25 | 57 | 32 | 2 | 2.6 | 190 | 0 | 156 |
| JUN | | | | | | | | | | | |
| 04... | 260 | 260 | 63 | 25 | 57 | 32 | 2 | 2.6 | -- | -- | -- |
| JUL | | | | | | | | | | | |
| 08... | 260 | 257 | 63 | 24 | 56 | 32 | 2 | 2.4 | 176 | 4.0 | 151 |
| AUG | | | | | | | | | | | |
| 14... | 240 | 240 | 58 | 23 | 53 | 32 | 2 | 2.4 | 170 | 4.0 | 146 |
| SEP | | | | | | | | | | | |
| 24... | 250 | 254 | 62 | 24 | 56 | 32 | 2 | 2.5 | -- | -- | -- |
| 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 CONSTITU- ENTS, DIS- SOLVED (MG/L) | SOLIDS, DIS- SOLVED (TONS PER AC-FT) | SOLIDS, DIS- SOLVED (TONS PER DAY) | NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) | NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) | NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) |
| OCT 1985 | | | | | | | | | | | |
| 30... | 180 | 18 | 0.3 | 4.4 | 442 | 420 | 0.6 | 2710 | -- | -- | 0.13 |
| NOV | | | | | | | | | | | |
| 20... | 190 | 17 | 0.3 | 4.9 | 447 | 450 | 0.61 | 4560 | 0.18 | 0.01 | 0.19 |
| DEC | | | | | | | | | | | |
| 18... | 190 | 14 | 0.2 | 5.2 | 438 | 440 | 0.6 | 2990 | -- | -- | 0.23 |
| JAN 1986 | | | | | | | | | | | |
| 14... | 180 | 17 | 0.3 | 5.4 | 464 | 440 | 0.63 | 3860 | -- | <0.01 | 0.26 |
| FEB | | | | | | | | | | | |
| 20... | 180 | 18 | 0.3 | 5.3 | 458 | 440 | 0.62 | 3250 | -- | -- | 0.25 |
| MAR | | | | | | | | | | | |
| 26... | 190 | 17 | 0.2 | 5.0 | 466 | 450 | 0.63 | 5370 | -- | <0.01 | 0.38 |
| APR | | | | | | | | | | | |
| 23... | 200 | 17 | 0.3 | 4.7 | 469 | 460 | 0.64 | 5370 | -- | -- | 0.27 |
| MAY | | | | | | | | | | | |
| 20... | 210 | 18 | 0.2 | 4.7 | 488 | 480 | 0.66 | 10600 | -- | <0.01 | 0.27 |
| JUN | | | | | | | | | | | |
| 04... | 190 | 18 | 0.3 | 4.1 | 482 | 450 | 0.66 | 8820 | -- | -- | 0.21 |
| JUL | | | | | | | | | | | |
| 08... | 180 | 16 | 0.2 | 3.4 | 469 | 440 | 0.64 | 9570 | -- | <0.01 | 0.18 |
| AUG | | | | | | | | | | | |
| 14... | 170 | 18 | 0.3 | 3.1 | 470 | 420 | 0.64 | 2460 | -- | <0.01 | <0.16 |
| SEP | | | | | | | | | | | |
| 24... | 190 | 18 | 0.3 | 3.6 | 447 | 450 | 0.61 | 1120 | -- | -- | 0.16 |

GREEN RIVER BASIN

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | NITRO- GEN, AMMONIA TOTAL (MG/L AS N) | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) | NITRO- GEN, ORGANIC TOTAL (MG/L AS N) | NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) | PHOS- PHORUS, TOTAL (MG/L AS P) | PHOS- PHORUS TOTAL (MG/L AS P04) | 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 P04) |
|----------|--|---|---|--|---|---|--|--|--|---|
| OCT 1985 | | | | | | | | | | |
| 30... | -- | 0.04 | 0.05 | -- | -- | -- | -- | -- | <0.01 | -- |
| NOV | | | | | | | | | | |
| 20... | 0.04 | 0.04 | 0.05 | 0.36 | 0.4 | 0.04 | 0.12 | 0.03 | 0.01 | 0.03 |
| DEC | | | | | | | | | | |
| 18... | -- | 0.06 | 0.08 | -- | -- | -- | -- | -- | <0.01 | -- |
| JAN 1986 | | | | | | | | | | |
| 14... | 0.04 | 0.03 | 0.04 | 0.26 | 0.3 | <0.01 | -- | <0.01 | 0.01 | 0.03 |
| FEB | | | | | | | | | | |
| 20... | -- | 0.04 | 0.05 | -- | -- | -- | -- | -- | 0.02 | 0.06 |
| MAR | | | | | | | | | | |
| 26... | 0.04 | 0.05 | 0.06 | 0.46 | 0.5 | 0.01 | -- | <0.01 | <0.01 | -- |
| APR | | | | | | | | | | |
| 23... | -- | 0.03 | 0.04 | -- | -- | -- | -- | -- | 0.01 | 0.03 |
| MAY | | | | | | | | | | |
| 20... | 0.02 | 0.04 | 0.05 | 0.38 | 0.4 | 0.05 | -- | 0.01 | <0.01 | -- |
| JUN | | | | | | | | | | |
| 04... | -- | 0.04 | 0.05 | -- | -- | -- | -- | -- | <0.01 | -- |
| JUL | | | | | | | | | | |
| 08... | 0.06 | 0.07 | 0.09 | 0.44 | 0.5 | 0.02 | -- | 0.01 | 0.01 | 0.03 |
| AUG | | | | | | | | | | |
| 14... | 0.01 | 0.01 | 0.01 | 0.29 | 0.3 | 0.02 | -- | 0.02 | <0.01 | -- |
| SEP | | | | | | | | | | |
| 24... | -- | 0.03 | 0.04 | -- | -- | -- | -- | -- | 0.01 | 0.03 |

| DATE | TIME | ALUM- INUM, DIS- SOLVED (UG/L AS AL) | ARSENIC DIS- SOLVED (UG/L AS AS) | BARIUM, DIS- SOLVED (UG/L AS BA) | 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 1985 | | | | | | | | | | | |
| 20... | 1100 | 10 | 2 | 79 | <0.5 | <1 | <1 | <3 | 1 | <3 | <1 |
| MAR 1986 | | | | | | | | | | | |
| 26... | 1300 | 20 | 3 | 75 | 1 | <1 | <1 | <3 | 5 | <3 | 2 |
| MAY | | | | | | | | | | | |
| 20... | 1445 | 10 | 3 | 80 | <0.5 | <1 | <1 | <3 | 2 | 4 | <1 |
| JUL | | | | | | | | | | | |
| 08... | 1145 | 10 | 2 | 72 | <0.5 | <1 | <1 | <3 | 1 | <3 | <5 |

| 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 1985 | | | | | | | | | | |
| 20... | 23 | <1 | <0.1 | <10 | 2 | 1 | <1 | 600 | <6 | 29 |
| MAR 1986 | | | | | | | | | | |
| 26... | 23 | <1 | 0.1 | <10 | 6 | 1 | <1 | 600 | <6 | 15 |
| MAY | | | | | | | | | | |
| 20... | 25 | <1 | <0.1 | <10 | 2 | <1 | <1 | 610 | <6 | 20 |
| JUL | | | | | | | | | | |
| 08... | 23 | 2 | <0.1 | <10 | 3 | <1 | 1 | 580 | <6 | 3 |

| DATE | TIME | BORON, DIS- SOLVED (UG/L AS B) |
|----------|------|--|
| OCT 1985 | | |
| 30... | 1400 | 80 |
| DEC | | |
| 18... | 1145 | 80 |
| FEB 1986 | | |
| 20... | 1230 | 120 |
| APR | | |
| 23... | 1315 | 90 |
| JUN | | |
| 04... | 1315 | 80 |
| SEP | | |
| 24... | 0900 | 90 |

SPECIFIC CONDUCTANCE (US/CM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
ONCE-DAILY

[illegible]

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
ONCE-DAILY

[illegible]

GREEN RIVER BASIN

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) |
|----------|------|---|-----------------------------|--|---|---|
| OCT 1985 | | | | | | |
| 30... | 1400 | 2270 | 9.5 | -- | 4 | 25 |
| NOV | | | | | | |
| 20... | 1100 | 3780 | 7.0 | -- | 4 | 41 |
| DEC | | | | | | |
| 18... | 1145 | 2530 | 4.5 | -- | 2 | 14 |
| JAN 1986 | | | | | | |
| 14... | 1130 | 3080 | 4.0 | -- | 3 | 25 |
| FEB | | | | | | |
| 20... | 1230 | 2630 | 3.5 | -- | 11 | 78 |
| MAR | | | | | | |
| 26... | 1300 | 4270 | 4.5 | -- | 0 | -- |
| APR | | | | | | |
| 23... | 1315 | 4240 | 6.0 | -- | 9 | 103 |
| MAY | | | | | | |
| 20... | 1445 | 8020 | 6.0 | 78 | 28 | 606 |
| JUN | | | | | | |
| 04... | 1315 | 6780 | 8.0 | 43 | 13 | 238 |
| JUL | | | | | | |
| 08... | 1145 | 7560 | 12.5 | -- | 13 | 265 |
| AUG | | | | | | |
| 14... | 1145 | 1940 | 13.5 | 22 | 21 | 110 |
| SEP | | | | | | |
| 24... | 0900 | 928 | 13.0 | -- | 4 | 10 |

GREEN RIVER BASIN

67

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 mi².

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 for estimated daily discharges, which are poor. No diversion above station.

AVERAGE DISCHARGE.--29 years, 4.07 ft³/s, 2,950 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 286 ft³/s May 10, 1973, gage height, 3.55 ft; maximum gage height recorded, 5.29 ft Apr. 3, 1985 (backwater from ice); no flow at times, most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|---------|-----------------------------------|---------------------|-------|------|-----------------------------------|---------------------|
| Feb. 18 | unknown | *43 | *3.57 | May 9 | 2000 | 35 | 3.40 |
| Apr. 20 | 1900 | 37 | 3.47 | | | | |

Minimum daily discharge, 0.09 ft³/s Aug. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|------|------|-------|-------|------|------|--------|-------|-------|-------|
| 1 | .57 | .67 | e.60 | e.20 | e.30 | e1.0 | e20 | 22 | 10 | .83 | .41 | .88 |
| 2 | .54 | .67 | e.64 | e.20 | e.30 | e1.1 | e21 | 22 | 9.3 | .77 | .39 | 1.2 |
| 3 | .53 | .67 | e.66 | e.20 | e.25 | e1.2 | e19 | 26 | 8.3 | .72 | .40 | .94 |
| 4 | .47 | .67 | e.62 | e.20 | e.23 | e1.2 | e18 | 31 | 7.7 | .74 | .47 | .69 |
| 5 | .50 | .67 | e.54 | e.20 | e.22 | e1.2 | e17 | 31 | 6.8 | .75 | .42 | .58 |
| 6 | .51 | .68 | e.47 | e.20 | e.25 | e1.2 | e16 | 30 | 7.1 | .70 | .49 | .54 |
| 7 | .76 | .65 | e.40 | e.20 | e.22 | e1.1 | e16 | 31 | 5.6 | .70 | .52 | .57 |
| 8 | .96 | .67 | e.34 | e.20 | e.19 | e1.1 | e17 | 31 | 4.6 | .75 | .41 | .68 |
| 9 | .96 | .67 | e.30 | e.20 | e.16 | e1.0 | e17 | 32 | 7.1 | 1.6 | .42 | .81 |
| 10 | 1.2 | e.65 | e.25 | e.20 | e.15 | e.95 | e17 | 30 | 16 | 1.5 | .30 | 1.1 |
| 11 | .95 | e.65 | e.20 | e.20 | e.15 | e.90 | 18 | 26 | 11 | 1.0 | .23 | .81 |
| 12 | .84 | e.65 | e.23 | e.20 | e.15 | e.90 | 16 | 24 | 7.1 | .88 | .24 | .68 |
| 13 | .99 | e.65 | e.25 | e.20 | e.15 | e.90 | 17 | 20 | 5.0 | .80 | .28 | .60 |
| 14 | 1.1 | e.65 | e.25 | e.20 | e.15 | e.90 | 14 | 18 | 4.6 | .85 | .21 | .53 |
| 15 | .84 | e.65 | e.25 | e.20 | e.15 | e.90 | 14 | 17 | 3.5 | .83 | .19 | .51 |
| 16 | .79 | e.65 | e.25 | e.23 | e.35 | e.90 | 14 | 18 | 2.9 | 1.1 | .16 | .48 |
| 17 | .75 | e.65 | e.25 | e.25 | e4.0 | e.95 | 17 | 19 | 2.4 | .92 | .13 | .49 |
| 18 | .71 | e.65 | e.25 | e.25 | e14 | e1.1 | 16 | 17 | 2.3 | .73 | .09 | .52 |
| 19 | .67 | e.65 | e.25 | e.25 | e1.6 | e1.1 | 18 | 16 | 3.3 | .65 | .11 | .60 |
| 20 | .67 | e.65 | e.25 | e.25 | e1.5 | e1.1 | 26 | 16 | 2.3 | .69 | .64 | .56 |
| 21 | 1.2 | e.68 | e.25 | e.22 | e1.3 | e1.1 | 33 | 18 | 1.9 | .72 | 2.0 | .52 |
| 22 | .72 | e.76 | e.25 | e.20 | e1.1 | e1.1 | 30 | 21 | 1.6 | .68 | 1.0 | .51 |
| 23 | 1.0 | e.84 | e.25 | e.20 | e1.0 | e1.0 | 30 | 22 | 1.6 | .92 | .82 | .55 |
| 24 | .95 | e.95 | e.27 | e.20 | e1.0 | e1.0 | 31 | 20 | 1.4 | 1.0 | .76 | 2.6 |
| 25 | .86 | e1.0 | e.29 | e.22 | e1.0 | e1.1 | 31 | 18 | 1.3 | 1.7 | .59 | 5.1 |
| 26 | .78 | e1.0 | e.26 | e.25 | e1.0 | e1.8 | 30 | 17 | 1.3 | 1.5 | .58 | 3.9 |
| 27 | .77 | e.85 | e.20 | e.25 | e1.0 | e3.0 | 30 | 16 | 1.1 | .87 | .49 | 2.5 |
| 28 | .69 | e.70 | e.22 | e.25 | e1.0 | e5.0 | 29 | 15 | .95 | .70 | .40 | 1.9 |
| 29 | .66 | e.65 | e.25 | e.25 | --- | e9.0 | 27 | 14 | .87 | .57 | .82 | 1.6 |
| 30 | .64 | e.60 | e.25 | e.25 | --- | e13 | 24 | 13 | .85 | .48 | .93 | 1.3 |
| 31 | .66 | --- | e.25 | e.28 | --- | e17 | --- | 12 | --- | .46 | .68 | --- |
| TOTAL | 24.24 | 21.20 | 9.99 | 6.80 | 32.87 | 74.80 | 643 | 663 | 139.77 | 27.11 | 15.58 | 34.25 |
| MEAN | .78 | .71 | .32 | .22 | 1.17 | 2.41 | 21.4 | 21.4 | 4.66 | .87 | .50 | 1.14 |
| MAX | 1.2 | 1.0 | .66 | .28 | 14 | 17 | 33 | 32 | 16 | 1.7 | 2.0 | 5.1 |
| MIN | .47 | .60 | .20 | .20 | .15 | .90 | 14 | 12 | .85 | .46 | .09 | .48 |
| ACFT | 48 | 42 | 20 | 13 | 65 | 148 | 1280 | 1320 | 277 | 54 | 31 | 68 |
| CAL YR 1985 | TOTAL | 1157.88 | MEAN | 3.17 | MAX | 38 | MIN | .05 | ACFT | 2300 | | |
| WTR YR 1986 | TOTAL | 1692.61 | MEAN | 4.64 | MAX | 33 | MIN | .09 | ACFT | 3360 | | |

e Estimated.

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.

WATER-DISCHARGE RECORDS

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

REMARKS.--No estimated daily discharges. Records good. Transbasin diversions and diversions for irrigation above station. Flow regulated by Flaming Gorge Reservoir (see station 9234400) 93.1 mi upstream beginning Nov. 1, 1962.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,000 ft³/s May 18, 1984; gage height, 14.66 ft; minimum observed, 102 ft³/s Dec. 6, 1904.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,300 ft³/s June 8, gage height, 10.42 ft; minimum discharge, 1,300 ft³/s Dec. 16.

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 1 | 1690 | 2420 | 4000 | 4510 | 2650 | 5770 | 8960 | 11400 | 20200 | 13200 | 2930 | 2130 |
| 2 | 1790 | 2550 | 3570 | 4390 | 2590 | 5470 | 10100 | 12300 | 20100 | 12600 | 2720 | 2240 |
| 3 | 2150 | 2460 | 2780 | 4250 | 3470 | 5020 | 11300 | 14000 | 20400 | 12100 | 2340 | 2270 |
| 4 | 2020 | 2350 | 3450 | 4220 | 4120 | 4790 | 11300 | 16000 | 20400 | 11700 | 2370 | 2140 |
| 5 | 2110 | 2560 | 2560 | 4220 | 3640 | 4740 | 11500 | 18000 | 20800 | 11500 | 2400 | 2100 |
| 6 | 1800 | 2440 | 2460 | 4240 | 3480 | 4740 | 11100 | 19600 | 21200 | 11300 | 2320 | 2170 |
| 7 | 1870 | 2490 | 2330 | 4270 | 3090 | 4850 | 10300 | 19000 | 21200 | 12100 | 2270 | 2120 |
| 8 | 1990 | 2190 | 3720 | 4240 | 3460 | 5600 | 9970 | 16400 | 21900 | 12200 | 2250 | 2360 |
| 9 | 2660 | 2750 | 3850 | 4130 | 3550 | 5820 | 10000 | 15800 | 21900 | 11600 | 2490 | 2280 |
| 10 | 2700 | 2330 | 4200 | 4240 | 3420 | 5980 | 10200 | 16100 | 21400 | 11200 | 2330 | 2290 |
| 11 | 2440 | 2190 | 3440 | 4240 | 3320 | 6150 | 10100 | 16200 | 21100 | 10800 | 2380 | 2140 |
| 12 | 2310 | 2330 | 3980 | 4240 | 3160 | 6440 | 9810 | 15400 | 18700 | 10700 | 2190 | 2140 |
| 13 | 2280 | 2420 | 3950 | 4240 | 2990 | 5740 | 9670 | 15200 | 16300 | 10400 | 2520 | 2150 |
| 14 | 2390 | 2470 | 3460 | 4240 | 3240 | 5640 | 9610 | 15700 | 15500 | 10300 | 2170 | 2220 |
| 15 | 2890 | 2620 | 2730 | 4240 | 3360 | 5440 | 9540 | 16200 | 15500 | 10000 | 2400 | 2120 |
| 16 | 3710 | 2690 | 1710 | 3530 | 3870 | 5090 | 9450 | 16800 | 16300 | 10000 | 2260 | 2050 |
| 17 | 3310 | 2710 | 2680 | 2800 | 4350 | 5000 | 9400 | 16400 | 16800 | 9850 | 2100 | 2150 |
| 18 | 3170 | 1920 | 3880 | 2410 | 5430 | 4970 | 9140 | 15900 | 16600 | 9720 | 2110 | 2250 |
| 19 | 3060 | 2060 | 3500 | 2270 | 7970 | 4820 | 9730 | 15200 | 16500 | 9680 | 2070 | 2150 |
| 20 | 2160 | 2250 | 2930 | 2220 | 8740 | 4740 | 9870 | 15200 | 16400 | 8900 | 2050 | 2130 |
| 21 | 2400 | 2740 | 3410 | 2670 | 9540 | 4860 | 9040 | 16600 | 16100 | 7680 | 2360 | 2110 |
| 22 | 2170 | 2620 | 3190 | 2250 | 8530 | 5670 | 7950 | 18400 | 15300 | 6670 | 2530 | 1860 |
| 23 | 3160 | 2260 | 2030 | 2340 | 7460 | 5780 | 8510 | 20200 | 14900 | 5890 | 2170 | 2580 |
| 24 | 2610 | 1560 | 2120 | 2680 | 7090 | 5810 | 9680 | 20800 | 14300 | 5250 | 2270 | 1880 |
| 25 | 2560 | 1760 | 2750 | 2650 | 6190 | 6060 | 12100 | 18800 | 13800 | 4820 | 2240 | 1820 |
| 26 | 2320 | 2200 | 3690 | 2660 | 5350 | 6640 | 13000 | 18300 | 13400 | 4300 | 2300 | 1820 |
| 27 | 2220 | 2350 | 3710 | 2180 | 5620 | 7250 | 13200 | 18500 | 13200 | 3440 | 2390 | 2020 |
| 28 | 2380 | 3410 | 4090 | 2730 | 5810 | 7280 | 12700 | 19200 | 13300 | 2790 | 2480 | 3120 |
| 29 | 2430 | 3430 | 4240 | 2870 | --- | 7090 | 11300 | 19800 | 13300 | 3200 | 2550 | 3350 |
| 30 | 2610 | 3560 | 4560 | 3130 | --- | 7360 | 10900 | 20300 | 12800 | 3150 | 2430 | 3810 |
| 31 | 2530 | --- | 4550 | 3360 | --- | 8120 | --- | 20600 | --- | 2840 | 2350 | --- |
| TOTAL | 75890 | 74360 | 103520 | 106660 | 135490 | 178730 | 309430 | 528300 | 519600 | 269880 | 72740 | 67970 |
| MEAN | 2448 | 2479 | 3339 | 3441 | 4839 | 5765 | 10310 | 17040 | 17320 | 8706 | 2346 | 2266 |
| MAX</ | | | | | | | | | | | | |

| | | | | | | | | | | |
|-------------|-------|---------|------|------|-----|-------|-----|------|------|---------|
| CAL YR 1985 | TOTAL | 2011180 | MEAN | 5510 | MAX | 20800 | MIN | 1560 | ACFT | 3989000 |
| WTR YR 1986 | TOTAL | 2442570 | MEAN | 6692 | MAX | 21900 | MIN | 1560 | ACFT | 4845000 |

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.

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 microsiemens Sept. 10, 1963; minimum daily, 176 microsiemens 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 observed, 840 microsiemens Nov. 21, Mar. 24; minimum observed, 410 microsiemens June 5.

WATER TEMPERATURES: Maximum, 22.0°C Aug. 26, 28, 29; minimum, 0.0°C several days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | PH (STAND- ARD UNITS) | TEMPER- ATURE, AIR (DEG C) | TEMPER- ATURE (DEG C) | OXYGEN, DIS- SOLVED (MG/L) | BARO- METRIC PRES- SURE (MM OF HG) | HARD- NESS (MG/L AS CACO3) | HARD- NESS NONCAR- BONATE (MG/L AS CACO3) | HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3 |
|----------|------|---|---|--------------------------------|-------------------------------------|-----------------------------|-------------------------------------|--|--|---|---|
| OCT 1985 | | | | | | | | | | | |
| 31... | 1230 | 2340 | 710 | 8.60 | 12.0 | 9.5 | 11.7 | 640 | 250 | 254 | 110 |
| NOV | | | | | | | | | | | |
| 21... | 1100 | 2180 | 840 | 8.30 | -2.5 | 0.0 | 13.3 | 640 | 280 | 285 | 130 |
| DEC | | | | | | | | | | | |
| 19... | 1230 | 3310 | 810 | 8.40 | -7.0 | 1.0 | 12.3 | 652 | 290 | 290 | 120 |
| FEB 1986 | | | | | | | | | | | |
| 18... | 1530 | 5910 | 670 | 8.30 | 14.0 | 3.5 | 11.0 | 637 | 220 | 225 | 92 |
| MAR | | | | | | | | | | | |
| 24... | 1630 | 5990 | 840 | 8.40 | 22.0 | 9.0 | 10.8 | 640 | 300 | 302 | 130 |
| APR | | | | | | | | | | | |
| 21... | 1745 | 8980 | 620 | 8.40 | 23.0 | 11.0 | 9.4 | 645 | 220 | 218 | 79 |
| MAY | | | | | | | | | | | |
| 22... | 0945 | 18600 | 470 | 8.40 | 17.0 | 13.0 | 9.6 | 642 | 170 | 175 | 61 |
| JUN | | | | | | | | | | | |
| 05... | 0815 | 21400 | 410 | 8.30 | 27.5 | 15.5 | 9.1 | 642 | 150 | 148 | 57 |
| JUL | | | | | | | | | | | |
| 09... | 1210 | 11900 | 570 | 8.40 | 26.0 | 16.5 | 8.4 | 640 | 200 | 198 | 74 |
| AUG | | | | | | | | | | | |
| 15... | 1015 | 2390 | 680 | 8.40 | 18.5 | 17.5 | 8.1 | 641 | 240 | 236 | 85 |
| SEP | | | | | | | | | | | |
| 24... | 1400 | 1860 | 680 | 8.50 | 6.0 | 11.5 | 8.7 | 624 | 250 | 248 | 100 |

| 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 1985 | | | | | | | | | | |
| 31... | 59 | 26 | 53 | 31 | 1 | 2.5 | 146 | 200 | 23 | 0.3 |
| NOV | | | | | | | | | | |
| 21... | 63 | 31 | 65 | 33 | 2 | 2.6 | 156 | 230 | 28 | 0.3 |
| DEC | | | | | | | | | | |
| 19... | 66 | 31 | 62 | 31 | 2 | 3.0 | 170 | 230 | 20 | 0.3 |
| FEB 1986 | | | | | | | | | | |
| 18... | 52 | 23 | 49 | 32 | 1 | 2.8 | 133 | 180 | 18 | 0.2 |
| MAR | | | | | | | | | | |
| 24... | 68 | 32 | 66 | 32 | 2 | 2.9 | 171 | 240 | 21 | 0.3 |
| APR | | | | | | | | | | |
| 21... | 51 | 22 | 48 | 32 | 1 | 2.4 | 139 | 180 | 16 | 0.2 |
| MAY | | | | | | | | | | |
| 22... | 42 | 17 | 32 | 28 | 1 | 2.0 | 114 | 120 | 11 | 0.2 |
| JUN | | | | | | | | | | |
| 05... | 38 | 13 | 25 | 27 | 0.9 | 1.7 | 91 | 96 | 8.1 | 0.2 |
| JUL | | | | | | | | | | |
| 09... | 48 | 19 | 42 | 31 | 1 | 2.0 | 124 | 140 | 12 | 0.2 |
| AUG | | | | | | | | | | |
| 15... | 55 | 24 | 53 | 33 | 2 | 2.7 | 151 | 180 | 23 | 0.3 |
| SEP | | | | | | | | | | |
| 24... | 58 | 25 | 51 | 31 | 1 | 2.8 | 148 | 170 | 24 | 0.2 |

GREEN RIVER BASIN

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | SILICA, DIS- SOLVED (MG/L AS SiO2) | SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) | SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) | SOLIDS, DIS- SOLVED (TONS PER AC-FT) | SOLIDS, DIS- SOLVED (TONS PER DAY) | NITRO- GEN, 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 1985 | | | | | | | | | | |
| 31... | 4.0 | 453 | 460 | 0.62 | 2860 | 0.12 | 0.03 | 0.04 | <0.01 | -- |
| NOV | | | | | | | | | | |
| 21... | 6.0 | 558 | 520 | 0.76 | 3280 | 0.65 | 0.04 | 0.05 | 0.01 | 0.03 |
| DEC | | | | | | | | | | |
| 19... | 6.4 | 533 | 520 | 0.72 | 4760 | 0.52 | 0.05 | 0.06 | <0.01 | -- |
| FEB 1986 | | | | | | | | | | |
| 18... | 6.9 | 435 | 410 | 0.59 | 6940 | 0.50 | 0.09 | 0.12 | 0.03 | 0.09 |
| MAR | | | | | | | | | | |
| 24... | 7.0 | 559 | 540 | 0.76 | 9040 | 0.57 | 0.05 | 0.06 | 0.02 | 0.06 |
| APR | | | | | | | | | | |
| 21... | 8.9 | 410 | 410 | 0.56 | 9940 | 0.45 | 0.03 | 0.04 | 0.06 | 0.18 |
| MAY | | | | | | | | | | |
| 22... | 8.5 | 316 | 300 | 0.43 | 15900 | 0.23 | 0.02 | 0.03 | <0.01 | -- |
| JUN | | | | | | | | | | |
| 05... | 7.4 | 263 | 240 | 0.36 | 15200 | 0.13 | 0.04 | 0.05 | -- | -- |
| JUL | | | | | | | | | | |
| 09... | 4.9 | 358 | 340 | 0.49 | 11500 | 0.16 | 0.04 | 0.05 | <0.01 | -- |
| AUG | | | | | | | | | | |
| 15... | 4.0 | 456 | 430 | 0.62 | 2940 | <0.10 | 0.07 | 0.09 | <0.01 | -- |
| SEP | | | | | | | | | | |
| 24... | 3.5 | 400 | 420 | 0.54 | 2010 | <0.10 | <0.01 | -- | 0.01 | 0.03 |

| DATE | TIME | BORON, DIS- SOLVED (UG/L AS B) |
|----------|------|--|
| OCT 1985 | | |
| 31... | 1230 | 80 |
| NOV | | |
| 21... | 1100 | 80 |
| DEC | | |
| 19... | 1230 | 110 |
| FEB 1986 | | |
| 18... | 1530 | 90 |
| MAR | | |
| 24... | 1630 | 80 |
| APR | | |
| 21... | 1745 | 60 |
| MAY | | |
| 22... | 0945 | 60 |
| JUN | | |
| 05... | 0815 | 40 |
| JUL | | |
| 09... | 1210 | 60 |
| AUG | | |
| 15... | 1015 | 80 |
| SEP | | |
| 24... | 1400 | 70 |

GREEN RIVER BASIN

71

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

SPECIFIC CONDUCTANCE (US/CM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
ONCE-DAILY

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 690 | 720 | --- | 720 | 820 | 780 | 600 | 480 | --- | 520 | --- | --- |
| 2 | 690 | 730 | --- | 710 | --- | --- | 600 | 480 | 580 | 550 | --- | --- |
| 3 | 690 | --- | --- | 720 | 820 | 780 | 590 | 485 | 570 | 530 | --- | --- |
| 4 | 640 | 730 | --- | 700 | 800 | 780 | 580 | --- | 550 | 520 | --- | --- |
| 5 | 640 | 730 | --- | --- | 810 | 780 | 600 | 480 | 560 | 600 | 670 | --- |
| 6 | --- | 720 | --- | 720 | 800 | 770 | --- | 490 | 570 | --- | --- | --- |
| 7 | 630 | 730 | --- | 730 | 810 | 770 | 590 | 490 | 570 | 600 | --- | --- |
| 8 | 630 | 730 | --- | 740 | 820 | 770 | 600 | 600 | --- | 600 | --- | --- |
| 9 | 630 | 730 | --- | 750 | --- | --- | 590 | 600 | 580 | 610 | --- | --- |
| 10 | 640 | --- | --- | 750 | 790 | 780 | 590 | 590 | 570 | 620 | --- | --- |
| 11 | 640 | 730 | --- | 750 | 820 | 770 | 600 | --- | 570 | 610 | --- | --- |
| 12 | 630 | 730 | --- | --- | 810 | 770 | 590 | 590 | 560 | 610 | --- | --- |
| 13 | --- | 760 | --- | 740 | 810 | 770 | --- | 480 | 540 | --- | --- | --- |
| 14 | 670 | 770 | --- | 740 | --- | 770 | 590 | 590 | 530 | 620 | --- | --- |
| 15 | 670 | 760 | --- | 730 | 800 | 780 | 600 | 600 | --- | 610 | 680 | --- |
| 16 | 670 | 740 | --- | 740 | 820 | --- | 600 | 600 | 540 | 600 | --- | --- |
| 17 | 670 | --- | --- | 750 | 750 | 770 | 610 | 600 | 540 | 620 | --- | 680 |
| 18 | 670 | 760 | --- | 750 | 760 | 770 | 600 | --- | 520 | 610 | --- | 670 |
| 19 | 670 | 750 | --- | --- | 770 | 770 | 610 | 600 | 540 | 620 | --- | 680 |
| 20 | --- | 760 | 720 | 750 | 760 | 760 | --- | 600 | 540 | --- | --- | 680 |
| 21 | 670 | 750 | 710 | 750 | 780 | 780 | 610 | 600 | 550 | 600 | --- | --- |
| 22 | 670 | 760 | --- | 750 | 770 | 780 | 610 | 590 | --- | 610 | --- | 680 |
| 23 | 670 | 770 | 710 | 750 | --- | --- | 600 | 500 | 540 | 600 | --- | 680 |
| 24 | 670 | --- | 710 | --- | 770 | 770 | 640 | 580 | 540 | 600 | --- | 680 |
| 25 | 680 | 800 | 700 | 750 | 760 | 780 | 485 | --- | 540 | 620 | --- | 680 |
| 26 | 680 | 800 | 630 | 750 | 760 | 770 | 480 | 590 | 540 | 610 | --- | --- |
| 27 | --- | 790 | 710 | 750 | 770 | 780 | --- | 500 | 540 | --- | --- | 680 |
| 28 | 720 | 780 | 720 | 750 | --- | 780 | 485 | 510 | 530 | 610 | --- | --- |
| 29 | 730 | 780 | --- | 750 | --- | 600 | 485 | 580 | --- | 610 | --- | --- |
| 30 | 730 | 780 | 720 | 810 | --- | --- | 480 | 590 | 550 | --- | --- | 670 |
| 31 | 730 | --- | 720 | 810 | --- | 590 | --- | 590 | --- | --- | --- | --- |
| MEAN | 670 | 750 | --- | 740 | 790 | 760 | 580 | 560 | 550 | 600 | --- | --- |

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
ONCE-DAILY

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|------|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| 1 | 14.5 | 9.5 | --- | 1.0 | 1.0 | --- | 6.5 | 12.5 | --- | 17.5 | 20.0 | 18.0 |
| 2 | 14.5 | 9.0 | --- | .5 | --- | --- | 6.0 | 12.0 | 14.0 | 17.0 | 19.0 | 18.0 |
| 3 | 14.0 | --- | --- | .5 | 1.5 | --- | 6.5 | 12.5 | 14.5 | 17.5 | --- | 17.5 |
| 4 | --- | 8.5 | --- | 1.0 | 2.0 | --- | 6.5 | --- | 15.0 | 17.0 | 20.0 | 18.0 |
| 5 | --- | 8.0 | --- | --- | 2.0 | --- | 7.0 | 12.0 | 15.0 | 17.0 | 19.5 | 17.5 |
| 6 | --- | 7.5 | --- | .0 | 1.5 | --- | --- | 11.5 | 15.0 | --- | 19.5 | 17.0 |
| 7 | --- | 7.0 | --- | .0 | 1.5 | --- | 6.5 | 11.0 | 14.5 | 17.5 | 20.0 | --- |
| 8 | --- | 6.5 | --- | .0 | 2.0 | --- | 6.0 | 10.0 | --- | 18.0 | 20.0 | 17.5 |
| 9 | --- | 6.0 | --- | .5 | --- | --- | 6.0 | 11.0 | 15.0 | 18.0 | 19.0 | 17.5 |
| 10 | --- | --- | --- | .5 | 1.5 | --- | 6.5 | 12.0 | 15.0 | 18.5 | --- | 17.0 |
| 11 | --- | 6.0 | --- | 1.0 | 2.0 | --- | 7.0 | --- | 15.5 | 19.0 | 19.0 | 17.0 |
| 12 | --- | 5.5 | --- | --- | 2.5 | --- | 7.0 | 11.0 | 15.0 | 18.5 | 20.0 | 17.0 |
| 13 | --- | 5.0 | --- | .0 | 2.0 | --- | --- | 11.0 | 14.5 | --- | 20.5 | 17.0 |
| 14 | --- | 5.0 | --- | .5 | 2.0 | --- | 7.5 | 12.0 | 14.0 | 19.0 | 21.0 | --- |
| 15 | --- | 4.5 | --- | .0 | 2.5 | --- | 8.0 | 12.0 | --- | 19.0 | 21.0 | 16.5 |
| 16 | --- | 4.0 | --- | .5 | --- | --- | 8.5 | 11.0 | 14.5 | 19.5 | 20.0 | 17.0 |
| 17 | --- | --- | --- | .5 | 3.0 | --- | 8.5 | 10.0 | 15.0 | 19.5 | --- | 16.5 |
| 18 | --- | 4.0 | --- | 1.0 | 3.5 | --- | 9.0 | --- | 15.5 | 19.0 | 21.0 | 16.0 |
| 19 | --- | 4.5 | 1.0 | --- | 4.0 | --- | 9.5 | 11.0 | 16.0 | 19.0 | 21.5 | 15.5 |
| 20 | --- | 4.0 | --- | .5 | 4.0 | --- | --- | 11.0 | 16.0 | --- | 21.0 | 15.5 |
| 21 | --- | 4.0 | --- | 1.0 | 4.5 | --- | 10.0 | 12.0 | 15.5 | 19.5 | 21.5 | --- |
| 22 | --- | 3.5 | --- | 1.0 | 5.0 | --- | 11.0 | 12.0 | --- | 19.0 | 21.5 | 15.0 |
| 23 | --- | 3.5 | --- | .5 | --- | --- | 11.5 | 12.5 | 15.0 | 18.5 | 20.0 | 14.5 |
| 24 | --- | --- | --- | .5 | 4.5 | 9.0 | 12.0 | 13.0 | 15.0 | 19.0 | --- | 14.0 |
| 25 | --- | 3.0 | --- | 1.0 | 5.0 | --- | 12.0 | --- | 15.5 | 19.5 | 21.0 | 13.5 |
| 26 | --- | 3.0 | --- | --- | 5.0 | --- | 12.5 | 13.5 | 15.5 | 19.5 | 22.0 | 13.0 |
| 27 | --- | 3.5 | --- | .5 | 4.5 | --- | --- | 14.0 | 15.5 | --- | 21.5 | 12.5 |
| 28 | --- | 3.0 | --- | .5 | 4.0 | --- | 12.0 | 14.0 | 15.0 | 19.0 | 22.0 | --- |
| 29 | --- | 3.0 | --- | .0 | --- | --- | 12.5 | 14.0 | --- | 19.5 | 22.0 | 12.0 |
| 30 | --- | 3.5 | --- | .5 | --- | --- | 13.0 | 13.5 | 15.5 | 20.0 | 20.0 | 11.0 |
| 31 | 9.5 | --- | --- | 1.0 | --- | --- | --- | 13.5 | --- | 20.0 | --- | --- |
| MEAN | --- | 5.0 | --- | 0.5 | 3.0 | --- | 9.0 | 12.0 | 15.0 | 18.5 | 20.5 | 16.0 |

GREEN RIVER BASIN

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) |
|----------|------|---|-----------------------------|--|---|---|
| OCT 1985 | | | | | | |
| 31... | 1230 | 2340 | 9.5 | -- | 45 | 284 |
| NOV | | | | | | |
| 21... | 1100 | 2180 | 0.0 | -- | 116 | 683 |
| DEC | | | | | | |
| 19... | 1230 | 3310 | 1.0 | 50 | 115 | 1030 |
| JAN 1986 | | | | | | |
| 16... | 1130 | 3520 | 1.0 | 18 | 253 | 2400 |
| FEB | | | | | | |
| 18... | 1530 | 5910 | 3.5 | -- | 2190 | 34900 |
| MAR | | | | | | |
| 24... | 1630 | 5990 | 9.0 | 35 | 492 | 7960 |
| APR | | | | | | |
| 21... | 1745 | 8980 | 11.0 | 79 | 1280 | 31000 |
| MAY | | | | | | |
| 22... | 0945 | 18600 | 13.0 | 38 | 1440 | 72300 |
| JUN | | | | | | |
| 05... | 0815 | 21400 | 15.5 | 52 | 1040 | 60100 |
| JUL | | | | | | |
| 09... | 1210 | 11900 | 16.5 | 30 | 261 | 8390 |
| AUG | | | | | | |
| 15... | 1015 | 2390 | 17.5 | -- | 34 | 219 |
| SEP | | | | | | |
| 24... | 1400 | 1860 | 11.5 | -- | 260 | 1310 |

GREEN RIVER BASIN

73

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 mi².

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 except for estimated daily discharges, which are poor. Water from Oaks Park Reservoir (capacity 6,250 acre-ft) is diverted through Oaks Park Canal to Ashley Creek basin.

AVERAGE DISCHARGE.--7 years, 48.5 ft³/s, 35,140 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 375 ft³/s June 2, 1983, gage height, 2.40 ft; maximum gage height, 3.06 ft May 23, 1980 at different datum; minimum daily, 9.5 ft³/s Feb. 5, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 296 ft³/s June 4, gage height, 2.13 ft; minimum daily, 16 ft³/s Dec. 27, 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|-------|-------|-------|------|------|
| 1 | 30 | 23 | 20 | e18 | 18 | 18 | 70 | 145 | 293 | 56 | 41 | 36 |
| 2 | 30 | 23 | 20 | e18 | 17 | 18 | 77 | 183 | 293 | 55 | 41 | 42 |
| 3 | 29 | 23 | 20 | e17 | 18 | 19 | 63 | 223 | 290 | 53 | 40 | 38 |
| 4 | 27 | 23 | 19 | e18 | 17 | 20 | 57 | 236 | 293 | 53 | 40 | 35 |
| 5 | 27 | 23 | 20 | e18 | 17 | 20 | 55 | 225 | 285 | 53 | 40 | 33 |
| 6 | 27 | 22 | 20 | e18 | 17 | 20 | 54 | 219 | 284 | 51 | 40 | 33 |
| 7 | 29 | 21 | 20 | e18 | 18 | 20 | 56 | 207 | 281 | 49 | 41 | 33 |
| 8 | 30 | 23 | 21 | e18 | 17 | 21 | 56 | 192 | 271 | 54 | 41 | 33 |
| 9 | 29 | 22 | e20 | e18 | 17 | 22 | 56 | 176 | 259 | 59 | 42 | 33 |
| 10 | 29 | 21 | e18 | 18 | 18 | 22 | 55 | 163 | 256 | 58 | 41 | 33 |
| 11 | 29 | 21 | e17 | 18 | 18 | 23 | 54 | 156 | 253 | 56 | 40 | 33 |
| 12 | 29 | 23 | e17 | 18 | 18 | 24 | 51 | 153 | 246 | 55 | 40 | 32 |
| 13 | 29 | 21 | e18 | 18 | 18 | 23 | 55 | 151 | 239 | 52 | 40 | 31 |
| 14 | 29 | 22 | 18 | 18 | 17 | 23 | 51 | 160 | 233 | 51 | 39 | 31 |
| 15 | 28 | 22 | 18 | 19 | 19 | 23 | 52 | 159 | 224 | 50 | 39 | 31 |
| 16 | 28 | 21 | 18 | 20 | 22 | 23 | 58 | 155 | 206 | 51 | 38 | 30 |
| 17 | 27 | 21 | 18 | 20 | 22 | 23 | 58 | 144 | 186 | 51 | 38 | 30 |
| 18 | 27 | 21 | 18 | 21 | 28 | 21 | 55 | 149 | 157 | 49 | 38 | 30 |
| 19 | 27 | 21 | 18 | 21 | 23 | 21 | 53 | 173 | 145 | 48 | 37 | 30 |
| 20 | 26 | 21 | 18 | 21 | 21 | 20 | 56 | 211 | 127 | 49 | 36 | 30 |
| 21 | 27 | 21 | 18 | 21 | 20 | 20 | 81 | 230 | 109 | 49 | 41 | 29 |
| 22 | 26 | 20 | 18 | 21 | 19 | 21 | 117 | 241 | 96 | 48 | 41 | 29 |
| 23 | 25 | 20 | 18 | 19 | 19 | 21 | 164 | 248 | 91 | 47 | 41 | 29 |
| 24 | 25 | 20 | 18 | 17 | 19 | 23 | 170 | 251 | 84 | 46 | 40 | 35 |
| 25 | 25 | 21 | 18 | 17 | 18 | 25 | 167 | 252 | 78 | 49 | 40 | 38 |
| 26 | 25 | 20 | e17 | 17 | 18 | 26 | 150 | 266 | 75 | 53 | 38 | 34 |
| 27 | 24 | 20 | e16 | 17 | 18 | 28 | 121 | 275 | 69 | 49 | 37 | 32 |
| 28 | 24 | 20 | e16 | 17 | 18 | 31 | 105 | 279 | 64 | 46 | 36 | 32 |
| 29 | 23 | 21 | 17 | 17 | --- | 38 | 99 | 282 | 61 | 44 | 39 | 32 |
| 30 | 23 | 20 | 18 | 17 | --- | 45 | 115 | 284 | 58 | 44 | 36 | 31 |
| 31 | 24 | --- | 18 | 18 | --- | 56 | --- | 290 | --- | 44 | 36 | --- |
| TOTAL | 837 | 641 | 568 | 571 | 529 | 758 | 2431 | 6478 | 5606 | 1572 | 1217 | 978 |
| MEAN | 27.0 | 21.4 | 18.3 | 18.4 | 18.9 | 24.5 | 81.0 | 209 | 187 | 50.7 | 39.3 | 32.6 |
| MAX | 30 | 23 | 21 | 21 | 28 | 56 | 170 | 290 | 293 | 59 | 42 | 42 |
| MIN | 23 | 20 | 16 | 17 | 17 | 18 | 51 | 144 | 58 | 44 | 36 | 29 |
| ACFT | 1660 | 1270 | 1130 | 1130 | 1050 | 1500 | 4820 | 12850 | 11120 | 3120 | 2410 | 1940 |
| CAL YR 1985 | TOTAL | 18497 | MEAN | 50.7 | MAX | 230 | MIN | 16 | ACFT | 36690 | | |
| WTR YR 1986 | TOTAL | 22186 | MEAN | 60.8 | MAX | 293 | MIN | 16 | ACFT | 44010 | | |

e Estimated.

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 mi².

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. 14, 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.--No estimated daily discharges. Records fair. Flow increased since July 1940 by water released from Oaks Park Reservoir, capacity, 6,250 acre-ft on Big Brush Creek and diverted to Ashley Creek basin for irrigation. City of Vernal pipeline, capacity, approximately 11 ft³/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 ft³/s and the return flow entered Ashley Creek 0.5 mi below station.

AVERAGE DISCHARGE.--73 years (1913-86), 101 ft³/s, 73,170 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 3,500 ft³/s June 11, 1965, gage height, 4.42 ft, datum then in use from rating table extended above 1,060 ft³/s; maximum gage height, 6.09 ft June 16, 1929, datum then in use; minimum, 3.2 ft³/s Mar. 16, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|--------------------------------|------------------|--------|------|--------------------------------|------------------|
| May 3 | 2400 | 1,110 | 3.77 | May 26 | 2100 | *2,730 | *4.93 |
| May 21 | 2300 | 2,000 | 4.47 | | | | |

Minimum daily discharge, 20 ft³/s, Feb. 23, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|-------|-------|--------|------|------|
| 1 | 60 | 54 | 45 | 31 | 24 | 21 | 53 | 294 | 1360 | 166 | 93 | 125 |
| 2 | 60 | 52 | 46 | 31 | 24 | 21 | 60 | 438 | 1190 | 155 | 93 | 138 |
| 3 | 57 | 54 | 45 | 32 | 24 | 21 | 59 | 705 | 1090 | 150 | 92 | 134 |
| 4 | 55 | 54 | 45 | 30 | 23 | 21 | 57 | 830 | 1010 | 152 | 93 | 99 |
| 5 | 55 | 53 | 44 | 29 | 22 | 21 | 57 | 551 | 979 | 177 | 90 | 89 |
| 6 | 53 | 49 | 42 | 29 | 23 | 22 | 56 | 475 | 796 | 148 | 98 | 84 |
| 7 | 56 | 47 | 44 | 29 | 22 | 23 | 58 | 387 | 615 | 142 | 114 | 82 |
| 8 | 62 | 49 | 43 | 30 | 22 | 22 | 60 | 332 | 555 | 136 | 107 | 81 |
| 9 | 58 | 49 | 42 | 29 | 22 | 23 | 60 | 295 | 561 | 132 | 107 | 82 |
| 10 | 60 | 47 | 40 | 29 | 22 | 24 | 60 | 273 | 664 | 124 | 104 | 92 |
| 11 | 62 | 46 | 39 | 28 | 21 | 24 | 61 | 276 | 520 | 121 | 101 | 78 |
| 12 | 61 | 47 | 40 | 28 | 21 | 24 | 61 | 287 | 459 | 115 | 101 | 73 |
| 13 | 61 | 46 | 41 | 28 | 21 | 24 | 64 | 304 | 454 | 111 | 104 | 70 |
| 14 | 62 | 46 | 38 | 28 | 22 | 24 | 62 | 330 | 452 | 108 | 102 | 69 |
| 15 | 60 | 47 | 37 | 28 | 21 | 24 | 67 | 311 | 423 | 104 | 99 | 69 |
| 16 | 59 | 48 | 37 | 27 | 21 | 24 | 70 | 287 | 397 | 118 | 100 | 67 |
| 17 | 57 | 48 | 37 | 28 | 21 | 23 | 72 | 272 | 370 | 113 | 98 | 65 |
| 18 | 57 | 47 | 37 | 27 | 22 | 23 | 71 | 312 | 345 | 102 | 96 | 63 |
| 19 | 57 | 46 | 36 | 27 | 22 | 23 | 71 | 478 | 321 | 97 | 108 | 64 |
| 20 | 56 | 47 | 36 | 27 | 22 | 22 | 72 | 802 | 325 | 101 | 120 | 63 |
| 21 | 56 | 45 | 36 | 26 | 22 | 22 | 82 | 1320 | 284 | 98 | 135 | 62 |
| 22 | 56 | 44 | 36 | 26 | 21 | 23 | 136 | 1280 | 263 | 97 | 129 | 61 |
| 23 | 55 | 45 | 36 | 26 | 20 | 23 | 189 | 941 | 249 | 95 | 131 | 60 |
| 24 | 58 | 45 | 35 | 26 | 21 | 25 | 206 | 968 | 228 | 93 | 125 | 85 |
| 25 | 59 | 44 | 35 | 25 | 21 | 25 | 199 | 1220 | 222 | 95 | 123 | 97 |
| 26 | 58 | 44 | 34 | 25 | 21 | 25 | 187 | 1530 | 208 | 94 | 118 | 88 |
| 27 | 57 | 44 | 34 | 25 | 20 | 26 | 175 | 1710 | 193 | 89 | 121 | 86 |
| 28 | 58 | 46 | 33 | 25 | 21 | 27 | 171 | 1650 | 184 | 84 | 117 | 86 |
| 29 | 57 | 46 | 33 | 26 | --- | 30 | 183 | 1470 | 178 | 77 | 118 | 84 |
| 30 | 57 | 46 | 33 | 25 | --- | 35 | 226 | 1260 | 174 | 89 | 128 | 84 |
| 31 | 57 | --- | 32 | 25 | --- | 44 | --- | 1310 | --- | 95 | 129 | --- |
| TOTAL | 1796 | 1425 | 1191 | 855 | 609 | 759 | 3005 | 22898 | 15069 | 3578 | 3394 | 2480 |
| MEAN | 57.9 | 47.5 | 38.4 | 27.6 | 21.8 | 24.5 | 100 | 739 | 502 | 115 | 109 | 82.7 |
| MAX | 62 | 54 | 46 | 32 | 24 | 44 | 226 | 1710 | 1360 | 177 | 135 | 138 |
| MIN | 53 | 44 | 32 | 25 | 20 | 21 | 53 | 272 | 174 | 77 | 90 | 60 |
| ACFT | 3560 | 2830 | 2360 | 1700 | 1210 | 1510 | 5960 | 45420 | 29890 | 7100 | 6730 | 4920 |
| CAL YR 1985 | TOTAL | 40887 | MEAN | 112 | MAX | 841 | MIN | 24 | ACFT | 81100 | | |
| WTR YR 1986 | TOTAL | 57059 | MEAN | 156 | MAX | 1710 | MIN | 20 | ACFT | 113200 | | |

GREEN RIVER BASIN

75

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. Seasonal records only since October 1984.

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

REMARKS.--Records good except for estimated daily discharges, which are fair. No flow is assumed November to April. 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 ft³/s June 16, 17, 1969; no flow for extended periods each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-----|-----|-----|-----|-----|-----|-----|--------|------|------|------|-------|
| 1 | | | | | | | | e.15 | 28 | 26 | 14 | 12 |
| 2 | | | | | | | | .24 | 25 | 26 | 14 | 13 |
| 3 | | | | | | | | .26 | 22 | 25 | 14 | 14 |
| 4 | | | | | | | | .26 | 20 | 26 | 14 | 13 |
| 5 | | | | | | | | .26 | 20 | 27 | 14 | 13 |
| 6 | | | | | | | | .26 | 17 | 26 | 16 | 12 |
| 7 | | | | | | | | .31 | 14 | 22 | 17 | 12 |
| 8 | | | | | | | | .30 | 27 | 21 | 15 | 12 |
| 9 | | | | | | | | .32 | 28 | 20 | 14 | 12 |
| 10 | | | | | | | | .55 | 26 | 19 | 14 | 12 |
| 11 | | | | | | | | .78 | 26 | 19 | 17 | 12 |
| 12 | | | | | | | | .85 | 27 | 19 | 21 | 12 |
| 13 | | | | | | | | .90 | 27 | 19 | 20 | 11 |
| 14 | | | | | | | | .90 | 27 | 22 | 20 | 12 |
| 15 | | | | | | | | .82 | 26 | 21 | 19 | 12 |
| 16 | | | | | | | | .41 | 26 | 18 | 19 | 11 |
| 17 | | | | | | | | 1.9 | 25 | 18 | 19 | 11 |
| 18 | | | | | | | | 8.1 | 24 | 18 | 18 | 11 |
| 19 | | | | | | | | 11 | 24 | 18 | 17 | 11 |
| 20 | | | | | | | | 9.4 | 23 | 18 | 17 | 11 |
| 21 | | | | | | | | 8.5 | 22 | 18 | 18 | 10 |
| 22 | | | | | | | | 13 | 21 | 18 | 20 | 9.9 |
| 23 | | | | | | | | 18 | 20 | 18 | 19 | 9.9 |
| 24 | | | | | | | | 20 | 20 | 18 | 17 | 14 |
| 25 | | | | | | | | 23 | 20 | 18 | 16 | 13 |
| 26 | | | | | | | | 24 | 19 | 18 | 14 | 15 |
| 27 | | | | | | | | 26 | 19 | 18 | 12 | 14 |
| 28 | | | | | | | | 29 | 19 | 18 | 11 | 13 |
| 29 | | | | | | | | 29 | 25 | 18 | 12 | 13 |
| 30 | | | | | | | | 29 | 26 | 18 | 13 | 13 |
| 31 | | | | | | | | 29 | --- | 14 | 12 | --- |
| TOTAL | | | | | | | | 286.47 | 693 | 622 | 497 | 363.8 |
| MEAN | | | | | | | | 9.24 | 23.1 | 20.1 | 16.0 | 12.1 |
| MAX | | | | | | | | 29 | 28 | 27 | 21 | 15 |
| MIN | | | | | | | | .15 | 14 | 14 | 11 | 9.9 |
| ACFT | | | | | | | | 568 | 1370 | 1230 | 986 | 722 |

e Estimated.

GREEN RIVER BASIN

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 mi².

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 for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--40 years, 6.95 ft³/s, 5,040 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 249 ft³/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 discharges greater than base discharge of 50 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|-------|------|--------------------------------|------------------|--------|------|--------------------------------|------------------|
| May 3 | 2000 | 54 | 2.83 | June 1 | 1900 | *136 | *3.31 |

Minimum daily, 0.96 ft³/s Mar. 21.

DISCHARGE, IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|------|------|------|-------|-------|-------|------|------|-------|-------|-------|
| 1 | 3.5 | 2.6 | 2.1 | 1.8 | 1.4 | .99 | 8.1 | 18 | 106 | 19 | 6.8 | 3.7 |
| 2 | 3.5 | 2.9 | 2.1 | e1.8 | 1.3 | .99 | 7.6 | 26 | 95 | 18 | 6.6 | 4.7 |
| 3 | 3.4 | 2.9 | 2.1 | 1.8 | 1.3 | 1.0 | 6.7 | 39 | 83 | 18 | 6.5 | 5.1 |
| 4 | 3.4 | 2.8 | 2.1 | e1.7 | e1.3 | 1.1 | 6.1 | 42 | 81 | 18 | 6.4 | 4.1 |
| 5 | 3.4 | 2.8 | 2.1 | 1.8 | e1.3 | 1.1 | 5.7 | 31 | 77 | 18 | 6.4 | 3.8 |
| 6 | 3.3 | 2.5 | 2.0 | 1.8 | 1.3 | 1.2 | 5.8 | 26 | 67 | 16 | 7.1 | 3.7 |
| 7 | 4.0 | 2.3 | 2.1 | 1.7 | 1.6 | 1.3 | 5.9 | 23 | 62 | 15 | 6.4 | 3.8 |
| 8 | 3.5 | 2.8 | 2.1 | 1.7 | 1.5 | 1.4 | 5.7 | 21 | 58 | 15 | 6.0 | 3.7 |
| 9 | 3.2 | 2.4 | 2.1 | 1.7 | 1.6 | 1.4 | 5.5 | 19 | 57 | 14 | 6.1 | 4.1 |
| 10 | 3.4 | 2.0 | e1.8 | 1.7 | e1.3 | 1.4 | 5.3 | 18 | 49 | 14 | 5.7 | 4.3 |
| 11 | 3.4 | 2.6 | e1.6 | 1.7 | 1.4 | 1.4 | 5.1 | 17 | 44 | 13 | 5.4 | 3.8 |
| 12 | 3.4 | 2.5 | e1.6 | 1.7 | 1.4 | 1.4 | 5.1 | 17 | 41 | 13 | 5.3 | 3.7 |
| 13 | 3.5 | 2.8 | e1.7 | 1.7 | 1.3 | 1.4 | 5.1 | 17 | 44 | 13 | 5.2 | 3.6 |
| 14 | 3.3 | 2.7 | e1.8 | 1.7 | 1.3 | 1.4 | 4.8 | 18 | 40 | 12 | 5.1 | 3.7 |
| 15 | 3.2 | 2.7 | 2.0 | 1.7 | 1.3 | 1.4 | 5.0 | 18 | 37 | 12 | 4.9 | 3.5 |
| 16 | 3.1 | 2.6 | 2.0 | 1.7 | 1.3 | 1.4 | 5.5 | 18 | 36 | 13 | 4.7 | 3.4 |
| 17 | 3.1 | 2.6 | 2.0 | 1.7 | 1.3 | 1.4 | 5.5 | 17 | 35 | 12 | 4.7 | 3.4 |
| 18 | 3.1 | 2.4 | 2.0 | 1.6 | 1.3 | 1.3 | 5.3 | 19 | 34 | 11 | 4.5 | 3.5 |
| 19 | 3.0 | e2.2 | 2.0 | 1.6 | 1.3 | 1.3 | 5.0 | 30 | 32 | 11 | 4.5 | 3.6 |
| 20 | 3.0 | 2.3 | 2.0 | 1.6 | 1.3 | 1.1 | 5.5 | 49 | 31 | 10 | 4.8 | 3.4 |
| 21 | 3.0 | 2.3 | 1.9 | e1.6 | 1.2 | .96 | 7.6 | 65 | 30 | 9.8 | 5.5 | 3.4 |
| 22 | 3.1 | 2.3 | 1.9 | e1.5 | 1.1 | 1.2 | 12 | 64 | 28 | 10 | 5.4 | 3.4 |
| 23 | 2.9 | 2.3 | 1.9 | 1.6 | 1.1 | 1.8 | 15 | 58 | 26 | 9.7 | 5.2 | 3.5 |
| 24 | 2.9 | 2.3 | 1.9 | 1.7 | 1.1 | 2.0 | 16 | 62 | 25 | 10 | 4.7 | 7.0 |
| 25 | 3.1 | 2.3 | 1.9 | 2.3 | 1.1 | 2.0 | 15 | 74 | 24 | 11 | 4.5 | 5.2 |
| 26 | 3.2 | 2.2 | 1.9 | 1.5 | 1.1 | 2.1 | 13 | 83 | 23 | 9.8 | 4.4 | 4.7 |
| 27 | 3.1 | 2.2 | 1.9 | 1.5 | 1.0 | 2.3 | 12 | 95 | 21 | 8.4 | 4.4 | 4.7 |
| 28 | 3.1 | 2.2 | 1.9 | 1.5 | .99 | 3.0 | 12 | 96 | 20 | 7.4 | 4.3 | 4.5 |
| 29 | 3.0 | 2.2 | 1.9 | 1.5 | --- | 4.1 | 12 | 97 | 19 | 7.0 | 4.5 | 4.5 |
| 30 | 3.0 | 2.2 | 1.9 | 1.5 | --- | 5.3 | 14 | 99 | 19 | 6.8 | 3.9 | 4.6 |
| 31 | 3.0 | --- | e1.8 | 1.5 | --- | 7.9 | --- | 103 | --- | 6.6 | 3.7 | --- |
| TOTAL | 100.1 | 73.9 | 60.1 | 51.9 | 35.79 | 58.04 | 242.9 | 1379 | 1344 | 381.5 | 163.6 | 122.1 |
| MEAN | 3.23 | 2.46 | 1.94 | 1.67 | 1.28 | 1.87 | 8.10 | 44.5 | 44.8 | 12.3 | 5.28 | 4.07 |
| MAX | 4.0 | 2.9 | 2.1 | 2.3 | 1.6 | 7.9 | 16 | 103 | 106 | 19 | 7.1 | 7.0 |
| MIN | 2.9 | 2.0 | 1.6 | 1.5 | .99 | .96 | 4.8 | 17 | 19 | 6.6 | 3.7 | 3.4 |
| ACFT | 199 | 147 | 119 | 103 | 71 | 115 | 482 | 2740 | 2670 | 757 | 325 | 242 |

| CAL YR 1985 | TOTAL | 2204.40 | MEAN | 6.04 | MAX | 39 | MIN | .90 | ACFT | 4370 |
|-------------|-------|---------|------|------|-----|-----|-----|-----|------|------|
| WTR YR 1986 | TOTAL | 4012.93 | MEAN | 11.0 | MAX | 106 | MIN | .96 | ACFT | 7960 |

e Estimated.

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 mi².

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 fair except for estimated daily discharges, which are poor. No diversion above station.

AVERAGE DISCHARGE.--26 years, 13.6 ft³/s, 9,850 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD (REVISED).--Maximum discharge, 425 ft³/s June 18, 1983, gage height, 3.52 ft, from rating curve extended above 200 ft³/s on basis of slope-conveyance study; no flow for part of Apr. 23, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--|------|-----------------------------------|---------------------|--|------|-----------------------------------|---------------------|
| May 31 | 1900 | *369 | *3.24 | No other peak greater than base discharge. | | | |
| Minimum daily, 1.9 ft ³ /s Feb. 10. | | | | | | | |

REVISIONS.--Peak discharges reported for water years 1983 and 1984 have been revised to 248 ft³/s, June 11, 1983 (1900 hours), gage height, 2.95 ft, 425 ft³/s June 18, 1983 (unknown hours), gage height, 3.52 ft., and 263 ft³/s, May 23, 1984 (1700 hours), gage height, 2.75 ft., superseding figures published in the reports for 1983 and 1984.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|------|------|-------|-------|------|------|-------|-------|-------|
| 1 | 7.1 | 5.9 | 4.7 | e3.0 | e2.5 | 2.4 | 6.8 | 17 | 252 | 33 | 20 | 8.5 |
| 2 | 7.1 | 6.2 | 4.8 | e2.9 | e2.4 | 2.5 | 6.5 | 28 | 241 | 31 | 20 | 12 |
| 3 | 6.8 | 6.1 | 4.6 | e3.0 | e2.4 | 2.5 | 5.8 | 55 | 268 | 30 | 20 | 11 |
| 4 | 6.5 | 6.1 | 4.6 | e2.9 | e2.3 | 2.6 | 5.8 | 78 | 230 | 29 | 19 | 8.4 |
| 5 | 6.4 | 6.0 | 4.7 | e2.8 | e2.2 | 2.6 | 5.4 | 55 | 222 | 28 | 20 | 7.7 |
| 6 | 6.4 | 5.4 | 4.4 | e2.7 | e2.3 | 2.7 | 5.4 | 40 | 158 | 25 | 21 | 7.9 |
| 7 | 8.2 | 5.5 | e4.2 | e2.5 | e2.2 | 2.7 | 5.6 | 31 | 143 | 24 | 19 | 9.2 |
| 8 | 7.2 | 5.9 | e4.0 | e2.5 | e2.0 | 2.7 | 5.5 | 26 | 124 | 24 | 17 | 8.2 |
| 9 | 6.8 | 5.5 | e3.8 | e2.6 | e2.0 | 2.7 | 5.5 | 22 | 123 | 24 | 16 | 9.4 |
| 10 | 7.1 | e5.0 | e3.6 | e2.7 | e1.9 | 2.7 | 5.3 | 20 | 113 | 22 | 15 | 11 |
| 11 | 7.3 | 6.2 | e3.5 | e2.7 | e2.0 | 2.9 | 5.3 | 19 | 93 | 22 | 15 | 8.4 |
| 12 | 7.1 | e5.2 | e3.5 | e2.6 | e2.1 | 3.0 | 5.2 | 19 | 85 | 21 | 15 | 7.7 |
| 13 | 7.2 | e5.4 | e3.7 | e2.5 | e2.1 | 3.0 | 5.2 | 19 | 84 | 20 | 14 | 7.4 |
| 14 | 6.7 | 6.3 | e3.9 | e2.4 | e2.1 | 3.0 | 5.4 | 21 | 79 | 19 | 13 | 7.5 |
| 15 | 6.7 | 5.9 | e4.0 | e2.6 | e2.2 | 3.0 | 5.3 | 20 | 76 | 20 | 13 | 7.2 |
| 16 | 7.3 | 5.5 | e3.9 | e2.7 | e2.2 | 3.0 | 5.5 | 19 | 73 | 21 | 12 | 7.1 |
| 17 | 7.4 | 5.4 | e3.7 | e2.6 | e2.2 | 3.0 | 5.3 | 18 | 71 | 20 | 11 | 6.9 |
| 18 | 7.2 | 5.4 | e3.7 | e2.6 | e2.2 | 3.0 | 5.3 | 21 | 68 | 19 | 11 | 7.1 |
| 19 | 7.0 | 5.2 | e3.6 | e2.6 | e2.1 | 3.1 | 5.2 | 38 | 64 | 18 | 10 | 7.3 |
| 20 | 6.9 | 5.1 | e3.5 | e2.5 | e2.2 | 3.2 | 5.8 | 87 | 64 | 19 | 11 | 7.1 |
| 21 | 6.8 | e4.6 | e3.5 | e2.4 | e2.1 | 3.2 | 7.7 | 156 | 59 | 18 | 13 | 6.9 |
| 22 | 7.0 | 5.0 | e3.4 | e2.5 | e2.2 | 3.2 | 11 | 158 | 55 | 19 | 11 | 6.9 |
| 23 | 6.9 | 5.0 | e3.3 | e2.5 | e2.2 | 3.2 | 14 | 129 | 52 | 18 | 10 | 7.3 |
| 24 | 7.0 | 5.0 | e3.2 | e2.4 | e2.3 | 3.3 | 15 | 144 | 48 | 18 | 9.2 | 21 |
| 25 | 7.3 | 5.1 | e3.1 | e2.3 | e2.4 | 3.3 | 14 | 185 | 46 | 19 | 8.6 | 8.2 |
| 26 | 7.2 | 5.0 | e3.1 | e2.4 | 2.5 | 3.3 | 13 | 206 | 44 | 18 | 8.2 | 7.5 |
| 27 | 6.8 | 4.9 | e3.1 | e2.5 | 2.4 | 3.6 | 12 | 210 | 41 | 18 | 7.7 | 7.3 |
| 28 | 6.8 | 4.9 | e3.0 | e2.5 | 2.4 | 4.1 | 12 | 213 | 38 | 17 | 7.5 | 7.6 |
| 29 | 6.6 | 4.9 | e3.0 | e2.5 | --- | 4.9 | 12 | 217 | 35 | 17 | 8.0 | 7.4 |
| 30 | 6.5 | 4.8 | e3.0 | e2.4 | --- | 5.7 | 13 | 246 | 34 | 18 | 8.8 | 7.2 |
| 31 | 6.5 | --- | e3.1 | e2.6 | --- | 7.0 | --- | 266 | --- | 20 | 9.2 | --- |
| TOTAL | 215.8 | 162.4 | 115.2 | 80.4 | 62.1 | 101.1 | 234.8 | 2783 | 3083 | 669 | 413.2 | 254.3 |
| MEAN | 6.96 | 5.41 | 3.72 | 2.59 | 2.22 | 3.26 | 7.83 | 89.8 | 103 | 21.6 | 13.3 | 8.48 |
| MAX | 8.2 | 6.3 | 4.8 | 3.0 | 2.5 | 7.0 | 15 | 266 | 268 | 33 | 21 | 21 |
| MIN | 6.4 | 4.6 | 3.0 | 2.3 | 1.9 | 2.4 | 5.2 | 17 | 34 | 17 | 7.5 | 6.9 |
| ACFT | 428 | 322 | 228 | 159 | 123 | 201 | 466 | 5520 | 6120 | 1330 | 820 | 504 |
| CAL YR 1985 | TOTAL | 5012.5 | MEAN | 13.7 | MAX | 126 | MIN | 1.5 | ACFT | 9940 | | |
| WTR YR 1986 | TOTAL | 8174.3 | MEAN | 22.4 | MAX | 268 | MIN | 1.9 | ACFT | 16210 | | |

e Estimated.

GREEN RIVER BASIN

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 mi².

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 for estimated daily discharges, which are poor. 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.--32 years, 28.9 ft³/s, 20,940 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,920 ft³/s June 21, 1983, gage height, 6.98 ft; no flow for several periods in 1956-61, 1963, 1966, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|--------------------------------|------------------|--------|------|--------------------------------|------------------|
| May 28 | 2300 | 1,180 | 5.13 | June 1 | 0300 | *1,420 | *5.52 |

Minimum daily discharge, 2.4 ft³/s, Jan. 23-26, Apr. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|------|------|-------|-------|-------|-------|-------|------|-------|-------|
| 1 | 5.1 | 4.3 | 3.6 | e3.0 | e3.1 | 4.4 | 3.2 | 25 | 1130 | 107 | 18 | 5.9 |
| 2 | 5.0 | 4.2 | 3.7 | e3.1 | e3.0 | 4.0 | 7.1 | 30 | 1090 | 96 | 19 | 5.6 |
| 3 | 4.9 | 4.2 | 3.7 | e2.9 | e3.1 | 3.7 | 4.9 | 50 | 884 | 90 | 17 | 5.3 |
| 4 | 4.8 | 4.2 | 3.6 | e2.9 | e3.2 | 3.5 | 4.0 | 59 | 824 | 89 | 16 | 5.0 |
| 5 | 4.8 | 4.1 | 3.7 | e2.8 | e3.2 | 3.4 | 3.6 | 53 | 613 | 84 | 14 | 5.0 |
| 6 | 4.8 | 4.1 | 3.3 | e2.9 | e3.2 | 3.4 | 3.1 | 56 | 563 | 83 | 15 | 4.7 |
| 7 | 7.2 | 4.0 | 3.9 | e2.8 | e3.3 | 3.3 | 2.8 | 66 | 606 | 81 | 15 | 4.6 |
| 8 | 6.2 | 4.1 | 3.6 | e2.7 | 3.3 | 3.8 | 2.8 | 70 | 564 | 79 | 19 | 5.0 |
| 9 | 6.7 | 4.4 | 3.4 | e2.7 | 3.2 | 6.5 | 2.8 | 74 | 501 | 73 | 20 | 5.4 |
| 10 | 6.2 | 4.4 | e3.1 | e2.7 | 3.2 | 4.6 | 2.7 | 70 | 350 | 64 | 18 | 6.4 |
| 11 | 5.7 | 4.1 | e2.6 | e2.6 | 3.1 | 4.9 | 2.7 | 67 | 307 | 64 | 15 | 5.6 |
| 12 | 5.4 | 5.6 | e2.8 | e2.6 | 3.2 | 4.7 | 2.7 | 66 | 295 | 67 | 15 | 4.7 |
| 13 | 5.6 | 5.3 | e2.9 | e2.6 | 3.3 | 5.1 | 2.9 | 64 | 306 | 67 | 13 | 4.2 |
| 14 | 5.1 | 4.6 | e3.1 | e2.5 | 3.1 | 4.5 | 2.5 | 64 | 289 | 60 | 9.2 | 4.0 |
| 15 | 4.9 | 4.4 | e3.1 | e2.7 | e3.5 | 4.4 | 2.4 | 64 | 275 | 59 | 7.7 | 3.8 |
| 16 | 4.8 | 4.1 | e3.1 | e2.7 | e6.0 | 4.5 | 3.1 | 65 | 260 | 60 | 7.6 | 3.6 |
| 17 | 4.8 | 4.2 | e3.1 | e2.6 | e10 | 4.5 | 4.7 | 63 | 249 | 54 | 7.0 | 3.5 |
| 18 | 4.6 | 4.2 | e3.0 | e2.7 | e17 | 4.2 | 3.8 | 60 | 243 | 50 | 5.7 | 3.6 |
| 19 | 4.6 | 3.9 | e3.1 | e2.6 | e14 | 4.1 | 3.3 | 61 | 233 | 47 | 5.0 | 4.0 |
| 20 | 4.6 | 3.9 | e3.0 | e2.6 | e11 | 4.2 | 2.9 | 75 | 226 | 45 | 5.6 | 3.5 |
| 21 | 4.6 | 4.4 | e3.0 | e2.5 | 9.6 | 3.8 | 2.6 | 160 | 212 | 45 | 6.5 | 3.3 |
| 22 | 5.2 | 3.9 | e3.1 | e2.5 | 9.2 | 3.6 | 2.5 | 318 | 213 | 46 | 6.7 | 3.1 |
| 23 | 4.7 | 3.6 | e3.0 | e2.4 | 7.9 | 3.4 | 2.5 | 315 | 200 | 45 | 6.9 | 3.4 |
| 24 | 4.6 | 3.6 | e3.1 | e2.4 | 7.7 | 3.4 | 3.6 | 339 | 180 | 42 | 6.4 | 10 |
| 25 | 4.4 | 4.2 | e3.0 | e2.4 | 6.9 | 3.4 | 13 | 450 | 163 | 39 | 7.3 | 11 |
| 26 | 4.5 | 4.0 | e2.9 | e2.4 | 6.4 | 3.2 | 19 | 660 | 151 | 42 | 7.3 | 6.7 |
| 27 | 4.6 | 3.8 | e2.8 | e2.5 | 5.5 | 3.0 | 21 | 867 | 134 | 38 | 5.7 | 5.2 |
| 28 | 4.6 | 3.7 | e2.9 | e2.5 | 5.0 | 3.0 | 22 | 1020 | 119 | 35 | 5.2 | 4.9 |
| 29 | 4.3 | 3.9 | e2.9 | e2.7 | --- | 2.8 | 22 | 881 | 116 | 29 | 13 | 4.5 |
| 30 | 4.3 | 3.7 | e2.9 | e2.8 | --- | 2.9 | 22 | 1100 | 115 | 25 | 8.9 | 4.2 |
| 31 | 4.6 | --- | e3.0 | e3.0 | --- | 3.0 | --- | 1140 | --- | 23 | 6.5 | --- |
| TOTAL | 156.2 | 125.1 | 98.0 | 82.8 | 164.2 | 121.2 | 198.2 | 8452 | 11411 | 1828 | 342.2 | 149.7 |
| MEAN | 5.04 | 4.17 | 3.16 | 2.67 | 5.86 | 3.91 | 6.61 | 273 | 380 | 59.0 | 11.0 | 4.99 |
| MAX | 7.2 | 5.6 | 3.9 | 3.1 | 17 | 6.5 | 22 | 1140 | 1130 | 107 | 20 | 11 |
| MIN | 4.3 | 3.6 | 2.6 | 2.4 | 3.0 | 2.8 | 2.4 | 25 | 115 | 23 | 5.0 | 3.1 |
| ACFT | 310 | 248 | 194 | 164 | 326 | 240 | 393 | 16760 | 22630 | 3630 | 679 | 297 |

| CAL YR 1985 | TOTAL | 8684.1 | MEAN | 23.8 | MAX | 187 | MIN | 1.1 | ACFT | 17220 |
|-------------|-------|---------|------|------|-----|------|-----|-----|------|-------|
| WTR YR 1986 | TOTAL | 23128.6 | MEAN | 63.4 | MAX | 1140 | MIN | 2.4 | ACFT | 45880 |

e Estimated.

GREEN RIVER BASIN

79

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 mi².

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

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

REMARKS.--Records good except for estimated daily discharges, which are fair. One small diversion for irrigation of about 100 acres above station. On March 27, 1986, the U.S. Bureau of Reclamation began diverting water from the West Fork into the Strawberry Aqueduct for transmountain diversion to Strawberry Reservoir. The diversion gates are located several miles above the station.

AVERAGE DISCHARGE.--41 years (1922-23, 1945-85), 49.9 ft³/s, 36,150 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 758 ft³/s June 5, 1967, maximum gage height, 4.40 ft June 4, 1952, datum then in use; minimum discharge recorded, 0.19 ft³/s Mar. 29, 1975, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 628 ft³/s June 2, gage-height, 3.56 ft; minimum daily discharge, 12 ft³/s Jan. 29-31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|------|------|-------|------|------|
| 1 | 22 | 24 | e18 | 15 | 13 | 20 | 64 | 100 | 379 | 61 | 38 | 30 |
| 2 | 24 | 24 | e18 | 16 | 14 | 21 | 60 | 121 | 424 | 61 | 30 | 29 |
| 3 | 25 | 24 | 18 | 16 | 13 | 21 | 58 | 122 | 346 | 60 | 29 | 30 |
| 4 | 24 | 24 | e17 | 16 | e14 | 23 | 55 | 122 | 330 | 58 | 27 | 30 |
| 5 | 24 | 24 | e16 | e16 | e13 | 24 | 54 | 99 | 386 | 57 | 26 | 30 |
| 6 | 25 | 23 | e17 | e15 | 13 | 25 | 56 | 98 | 353 | 57 | 26 | 30 |
| 7 | 41 | 23 | 18 | 16 | e13 | 26 | 56 | 92 | 299 | 57 | 27 | 30 |
| 8 | 34 | 23 | 18 | 18 | e13 | 27 | 52 | 90 | 229 | 59 | 27 | 30 |
| 9 | 29 | 23 | e18 | 19 | e13 | 30 | 50 | 86 | 157 | 57 | 27 | 32 |
| 10 | 28 | e22 | e17 | 18 | e13 | 27 | 55 | 83 | 132 | 56 | 27 | 32 |
| 11 | 29 | e23 | e17 | 16 | e13 | 25 | 52 | 83 | 146 | 55 | 27 | 32 |
| 12 | 27 | e23 | e16 | 15 | e13 | 23 | 53 | 94 | 135 | 53 | 27 | 32 |
| 13 | 27 | e22 | e14 | 16 | e15 | 21 | 52 | 79 | 124 | 51 | 28 | 32 |
| 14 | 25 | e23 | e15 | 16 | e13 | 21 | 51 | 76 | 113 | 50 | 31 | 32 |
| 15 | 26 | e21 | e16 | 19 | e16 | 20 | 51 | 79 | 95 | 56 | 30 | 32 |
| 16 | 26 | e23 | e16 | 16 | e16 | 21 | 54 | 79 | 82 | 68 | 30 | 31 |
| 17 | 25 | e23 | e17 | 14 | e16 | 26 | 52 | 81 | 77 | 47 | 30 | 31 |
| 18 | 24 | e22 | e17 | 14 | e17 | 25 | 50 | 85 | 96 | 44 | 30 | 31 |
| 19 | 24 | e21 | e16 | 14 | e17 | 24 | 50 | 90 | 78 | 43 | 29 | 31 |
| 20 | 24 | e23 | e17 | 13 | e16 | 24 | 53 | 97 | 84 | 43 | 31 | 31 |
| 21 | 24 | 23 | e17 | 14 | e17 | 24 | 65 | 105 | 78 | 42 | 35 | 30 |
| 22 | 26 | e22 | 17 | 16 | e18 | 27 | 80 | 189 | 67 | 45 | 35 | 30 |
| 23 | 24 | e21 | 16 | 14 | e17 | 30 | 76 | 107 | 66 | 47 | 33 | 29 |
| 24 | 24 | e22 | e16 | 14 | 17 | 33 | 87 | 109 | 70 | 45 | 32 | 39 |
| 25 | 24 | 22 | 16 | 15 | 19 | 35 | 81 | 117 | 67 | 44 | 30 | 38 |
| 26 | 24 | e21 | 16 | 15 | 21 | 35 | 79 | 189 | 65 | 42 | 27 | 37 |
| 27 | 24 | e20 | 16 | 14 | 21 | 33 | 76 | 369 | 63 | 39 | 30 | 36 |
| 28 | 24 | 20 | 16 | 13 | 20 | 29 | 77 | 309 | 62 | 37 | 32 | 36 |
| 29 | 24 | 20 | 16 | e12 | --- | 38 | 96 | 342 | 62 | 39 | 31 | 34 |
| 30 | 24 | e19 | e15 | e12 | --- | 42 | 90 | 406 | 61 | 41 | 29 | 34 |
| 31 | 24 | --- | 15 | e12 | --- | 64 | --- | 364 | --- | 41 | 29 | --- |
| TOTAL | 799 | 668 | 512 | 469 | 434 | 864 | 1885 | 4462 | 4726 | 1555 | 920 | 961 |
| MEAN | 25.8 | 22.3 | 16.5 | 15.1 | 15.5 | 27.9 | 62.8 | 144 | 158 | 50.2 | 29.7 | 32.0 |
| MAX | 41 | 24 | 18 | 19 | 21 | 64 | 96 | 406 | 424 | 68 | 38 | 39 |
| MIN | 22 | 19 | 14 | 12 | 13 | 20 | 50 | 76 | 61 | 37 | 26 | 29 |
| ACFT | 1580 | 1320 | 1020 | 930 | 861 | 1710 | 3740 | 8850 | 9370 | 3080 | 1820 | 1910 |
| CAL YR 1985 | TOTAL | 21550 | MEAN | 59.0 | MAX | 363 | MIN | 14 | ACFT | 42740 | | |
| WTR YR 1986 | TOTAL | 18255 | MEAN | 50.0 | MAX | 424 | MIN | 12 | ACFT | 36210 | | |

e Estimated.

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 mi².

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, non-recording 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 except for estimated daily discharges, which are fair. Several diversions above station for irrigation, including a transmountain diversion through Duchesne Tunnel 20 mi upstream.

AVERAGE DISCHARGE.--68 years, 204 ft³/s, 147,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,260 ft³/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 ft³/s on basis of slope-area measurement and area-velocity study of peak flow; minimum recorded, 27 ft³/s Oct. 17, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft³/s, and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| May 22 | 1000 | 1,010 | 3.71 | June 16 | 0700 | 1,600 | 4.52 |
| June 6 | 0800 | *2,650 | *5.63 | | | | |

Minimum daily discharge, 95 ft³/s Feb. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|------|------|------|-------|-------|-------|--------|------|------|
| 1 | 154 | 136 | 121 | 109 | 108 | 143 | 260 | 393 | 1980 | 663 | 147 | 164 |
| 2 | 145 | 135 | 126 | e108 | 105 | 144 | 266 | 473 | 2110 | 601 | 134 | 148 |
| 3 | 144 | 135 | 127 | e105 | e103 | 147 | 230 | 586 | 2130 | 552 | 130 | 137 |
| 4 | 134 | 136 | 125 | 104 | e100 | 144 | 213 | 727 | 2210 | 549 | 124 | 141 |
| 5 | 138 | 139 | 118 | e106 | e100 | 144 | 203 | 639 | 2280 | 545 | 118 | 139 |
| 6 | 141 | 140 | 125 | 109 | e100 | 145 | 197 | 569 | 2320 | 502 | 107 | 136 |
| 7 | 173 | 134 | 123 | e106 | e98 | 152 | 210 | 525 | 2050 | 459 | 102 | 132 |
| 8 | 183 | e133 | 123 | e107 | e97 | 150 | 208 | 482 | 1900 | 443 | 101 | 146 |
| 9 | 171 | e132 | 121 | e108 | e95 | 159 | 203 | 441 | 1530 | 430 | 103 | 146 |
| 10 | 168 | 133 | 118 | 109 | e98 | 155 | 205 | 408 | 1210 | 378 | 106 | 146 |
| 11 | 170 | e132 | 112 | 107 | e102 | 153 | 208 | 398 | 1230 | 247 | 106 | 145 |
| 12 | 170 | e130 | e111 | 105 | 105 | 147 | 227 | 397 | 1310 | 226 | 104 | 139 |
| 13 | 172 | 131 | e110 | 106 | 111 | 141 | 256 | 396 | 1330 | 196 | 97 | 136 |
| 14 | 167 | 133 | e108 | 104 | 108 | 143 | 242 | 392 | 1390 | 188 | 110 | 138 |
| 15 | 163 | 130 | e112 | 107 | 109 | 140 | 242 | 367 | 1390 | 151 | 130 | 133 |
| 16 | 157 | 131 | e115 | 106 | 117 | 142 | 252 | 349 | 1400 | 198 | 128 | 127 |
| 17 | 150 | 138 | e116 | 106 | 133 | 140 | 252 | 314 | 1400 | 187 | 127 | 123 |
| 18 | 147 | 138 | 114 | 107 | 159 | 139 | 237 | 309 | 1410 | 190 | 124 | 125 |
| 19 | 145 | 130 | 112 | 107 | 176 | 132 | 227 | 356 | 1410 | 174 | 126 | 125 |
| 20 | 144 | 134 | 111 | 108 | 157 | 134 | 228 | 477 | 1290 | 179 | 125 | 128 |
| 21 | 146 | 138 | 110 | 99 | 129 | 136 | 255 | 636 | 1230 | 179 | 127 | 127 |
| 22 | 157 | 134 | 110 | 102 | 128 | 140 | 333 | 871 | 1140 | 189 | 122 | 126 |
| 23 | 156 | e132 | 112 | 108 | 146 | 148 | 384 | 718 | 1070 | 204 | 118 | 124 |
| 24 | 145 | e129 | 112 | 108 | 169 | 157 | 412 | 658 | 1040 | 196 | 130 | 174 |
| 25 | 144 | e128 | 111 | 105 | 156 | 158 | 398 | 748 | 955 | 195 | 152 | 172 |
| 26 | 143 | e128 | 112 | 108 | 160 | 155 | 370 | 976 | 854 | 194 | 148 | 167 |
| 27 | 141 | 125 | 110 | 107 | 155 | 159 | 344 | 1520 | 837 | 190 | 148 | 168 |
| 28 | 139 | 127 | 110 | 108 | 145 | 162 | 335 | 1650 | 832 | 171 | 155 | 167 |
| 29 | 138 | 128 | 107 | 108 | --- | 180 | 356 | 1720 | 811 | 158 | 162 | 164 |
| 30 | 137 | 127 | 111 | 108 | --- | 207 | 375 | 1840 | 747 | 160 | 157 | 162 |
| 31 | 139 | --- | 107 | 108 | --- | 259 | --- | 1870 | --- | 155 | 160 | --- |
| TOTAL | 4721 | 3976 | 3560 | 3303 | 3469 | 4755 | 8128 | 22205 | 42796 | 9049 | 3928 | 4305 |
| MEAN | 152 | 133 | 115 | 107 | 124 | 153 | 271 | 716 | 1427 | 292 | 127 | 144 |
| MAX | 183 | 140 | 127 | 109 | 176 | 259 | 412 | 1870 | 2320 | 663 | 162 | 174 |
| MIN | 134 | 125 | 107 | 99 | 95 | 132 | 197 | 309 | 747 | 151 | 97 | 123 |
| ACFT | 9360 | 7890 | 7060 | 6550 | 6880 | 9430 | 16120 | 44040 | 84890 | 17950 | 7790 | 8540 |
| CAL YR 1985 | TOTAL | 90295 | MEAN | 247 | MAX | 1100 | MIN | 93 | ACFT | 179100 | | |
| WTR YR 1986 | TOTAL | 114195 | MEAN | 313 | MAX | 2320 | MIN | 95 | ACFT | 226500 | | |

e Estimated.

GREEN RIVER BASIN

81

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 for estimated daily discharges, which are poor. Pipeline capacity approximately 1.5 ft³/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.--33 years, 13.8 ft³/s, 10,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 216 ft³/s June 6, 1986, gage height, 3.15 ft, from floodmarks; minimum not determined, occurred during winter period of no gage height record.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 60 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| June 2 | 2400 | 186 | 3.03 | June 8 | 2200 | 172 | 2.97 |
| June 6 | 0600 | *216 | *3.15 | June 18 | 2100 | 181 | 3.01 |

Minimum daily discharge, 2.9 ft³/s Mar. 20, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|------|-------|-------|------|------|-------|------|-------|
| 1 | 7.3 | 6.1 | e4.9 | e3.9 | e3.7 | 3.5 | 19 | 27 | 119 | 93 | 22 | 12 |
| 2 | 7.2 | 4.9 | e4.8 | e3.9 | e3.6 | 3.9 | 17 | 35 | 168 | 87 | 22 | 11 |
| 3 | 6.9 | e5.6 | e4.9 | e3.9 | e3.6 | 4.2 | 15 | 43 | 167 | 81 | 21 | 11 |
| 4 | 6.9 | e5.6 | e5.0 | e3.8 | e3.5 | 4.4 | 13 | 46 | 152 | 81 | 21 | 11 |
| 5 | 6.8 | e5.7 | e4.9 | e3.9 | e3.7 | 4.9 | 12 | 37 | 149 | 75 | 20 | 10 |
| 6 | 6.7 | e4.9 | e4.9 | e3.9 | e3.6 | 5.1 | 11 | 35 | 179 | 66 | 20 | 10 |
| 7 | 9.4 | e5.4 | e4.8 | e4.0 | e3.3 | 5.5 | 11 | 32 | 118 | 62 | 19 | 10 |
| 8 | 7.6 | e5.7 | e4.8 | e4.1 | e3.2 | 5.6 | 10 | 29 | 126 | 59 | 19 | 10 |
| 9 | 7.5 | e5.2 | e4.7 | e4.0 | e3.1 | 5.2 | 9.4 | 26 | 150 | 55 | 19 | 10 |
| 10 | 7.5 | e4.5 | e4.6 | e3.9 | e3.0 | 4.9 | 9.4 | 23 | 139 | 51 | 18 | 10 |
| 11 | 7.6 | e5.5 | e4.0 | e3.9 | e3.3 | 4.6 | 9.1 | 23 | 141 | 49 | 17 | 10 |
| 12 | 7.5 | e5.6 | e4.0 | e3.8 | e3.4 | 4.1 | 8.9 | 23 | 128 | 46 | 17 | 9.9 |
| 13 | 7.3 | e5.6 | e4.2 | e3.7 | e3.5 | 4.0 | 9.8 | 24 | 116 | 43 | 17 | 9.9 |
| 14 | 6.2 | e5.9 | e4.4 | e3.7 | e3.6 | 3.7 | 15 | 25 | 98 | 42 | 16 | 9.6 |
| 15 | 7.1 | e5.8 | e4.5 | e3.7 | e3.6 | 3.5 | 9.4 | 25 | 130 | 45 | 16 | 9.4 |
| 16 | 6.9 | e5.7 | e4.5 | e3.8 | e3.5 | 3.5 | 9.7 | 23 | 143 | 51 | 15 | 9.1 |
| 17 | 6.9 | e5.6 | e4.5 | e3.7 | e3.6 | 3.2 | 9.3 | 23 | 145 | 42 | 15 | 9.3 |
| 18 | 6.8 | e5.6 | e4.5 | e3.9 | e3.6 | 3.1 | 9.0 | 26 | 167 | 39 | 15 | 9.4 |
| 19 | 6.6 | e5.5 | e4.4 | e3.8 | e3.6 | 3.1 | 9.3 | 35 | 168 | 36 | 14 | 9.2 |
| 20 | 6.6 | e5.0 | e4.4 | e3.6 | e3.6 | 2.9 | 9.5 | 46 | 159 | 34 | 18 | 9.2 |
| 21 | 6.7 | e4.9 | e4.4 | e3.6 | e3.8 | 2.9 | 12 | 56 | 147 | 33 | 20 | 9.0 |
| 22 | 7.2 | e4.9 | e4.3 | e3.8 | 4.2 | 3.3 | 17 | 53 | 122 | 36 | 16 | 9.0 |
| 23 | 6.4 | e4.8 | e4.2 | e3.7 | 3.6 | 3.7 | 21 | 44 | 115 | 36 | 15 | 9.7 |
| 24 | 6.4 | e5.0 | e4.1 | e3.7 | 3.5 | 4.5 | 20 | 48 | 116 | 34 | 15 | 16 |
| 25 | 6.6 | e5.2 | e4.1 | e3.7 | 3.7 | 4.9 | 18 | 56 | 109 | 32 | 14 | 11 |
| 26 | 6.5 | e5.1 | e4.0 | e3.6 | 3.8 | 5.0 | 17 | 64 | 106 | 31 | 14 | 10 |
| 27 | 6.3 | e5.0 | e4.0 | e3.6 | 3.8 | 5.9 | 15 | 79 | 107 | 29 | 14 | 10 |
| 28 | 6.0 | e4.9 | e4.0 | e3.6 | 3.8 | 7.8 | 16 | 97 | 108 | 27 | 13 | 10 |
| 29 | 6.2 | e5.0 | e3.9 | e3.6 | --- | 12 | 19 | 100 | 102 | 25 | 13 | 10 |
| 30 | 6.1 | e5.0 | e3.9 | e3.6 | --- | 17 | 22 | 114 | 97 | 24 | 12 | 10 |
| 31 | 6.2 | --- | e3.8 | e3.6 | --- | 21 | --- | 105 | --- | 23 | 12 | --- |
| TOTAL | 213.9 | 159.2 | 136.4 | 117.0 | 99.8 | 170.9 | 402.8 | 1422 | 3991 | 1467 | 519 | 304.7 |
| MEAN | 6.90 | 5.31 | 4.40 | 3.77 | 3.56 | 5.51 | 13.4 | 45.9 | 133 | 47.3 | 16.7 | 10.2 |
| MAX | 9.4 | 6.1 | 5.0 | 4.1 | 4.2 | 21 | 22 | 114 | 179 | 93 | 22 | 16 |
| MIN | 6.0 | 4.5 | 3.8 | 3.6 | 3.0 | 2.9 | 8.9 | 23 | 97 | 23 | 12 | 9.0 |
| ACFT | 424 | 316 | 271 | 232 | 198 | 339 | 799 | 2820 | 7920 | 2910 | 1030 | 604 |
| CAL YR 1985 | TOTAL | 5291.5 | MEAN | 14.5 | MAX | 75 | MIN | 2.3 | ACFT | 10500 | | |
| WTR YR 1986 | TOTAL | 9003.7 | MEAN | 24.7 | MAX | 179 | MIN | 2.9 | ACFT | 17860 | | |

e Estimated.

GREEN RIVER BASIN

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 mi².

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.--32 years (1950-69, 1975-86), 157 ft³/s, 113,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,710 ft³/s June 3, 1986, gage height, 8.31 ft, maximum gage height, 8.60 ft June 13, 1953; minimum recorded, 4.4 ft³/s Feb. 7, 1977, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| June 3 | 2300 | *2,710 | *8.31 | June 16 | 2200 | 2,240 | 7.73 |

Minimum daily discharge, 27 ft³/s Feb. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|-------|-------|-------|------|------|
| 1 | 54 | 47 | 55 | 35 | 33 | 50 | 124 | 189 | 1850 | 698 | 195 | 86 |
| 2 | 54 | 52 | 54 | 35 | 32 | 51 | 111 | 249 | 2170 | 629 | 186 | 84 |
| 3 | 52 | 51 | 56 | 35 | 32 | 51 | 97 | 340 | 2270 | 583 | 178 | 81 |
| 4 | 50 | 50 | 56 | e33 | 31 | 52 | 88 | 380 | 2180 | 584 | 169 | 78 |
| 5 | 49 | 51 | 54 | 35 | 33 | 50 | 84 | 295 | 2170 | 561 | 162 | 74 |
| 6 | 50 | 43 | 52 | 35 | 32 | 50 | 85 | 262 | 2090 | 454 | 157 | 72 |
| 7 | 74 | 49 | 50 | 36 | e29 | 51 | 90 | 231 | 1950 | 424 | 163 | 74 |
| 8 | 63 | 51 | 49 | 37 | e28 | 53 | 84 | 213 | 1760 | 401 | 155 | 83 |
| 9 | 65 | 47 | 47 | 36 | e27 | 56 | 81 | 195 | 1410 | 390 | 149 | 79 |
| 10 | 62 | 39 | 45 | 35 | e28 | 51 | 80 | 179 | 1170 | 359 | 137 | 81 |
| 11 | 64 | 52 | e35 | 34 | 30 | 49 | 82 | 167 | 1270 | 334 | 132 | 72 |
| 12 | 64 | 57 | e37 | 33 | 30 | 48 | 82 | 163 | 1410 | 323 | 127 | 68 |
| 13 | 61 | 61 | e44 | 33 | 31 | 48 | 81 | 176 | 1480 | 308 | 122 | 66 |
| 14 | 55 | 69 | 45 | 33 | 33 | 47 | 81 | 190 | 1600 | 295 | 116 | 64 |
| 15 | 56 | 63 | 43 | 33 | 35 | 45 | 79 | 194 | 1660 | 315 | 112 | 61 |
| 16 | 56 | 58 | 42 | 33 | 34 | 43 | 84 | 183 | 1860 | 431 | 108 | 59 |
| 17 | 55 | 57 | 42 | 33 | 35 | 44 | 81 | 181 | 1870 | 333 | 104 | 57 |
| 18 | 54 | 54 | 41 | 34 | 36 | 44 | 78 | 202 | 1880 | 315 | 100 | 57 |
| 19 | 53 | e52 | 39 | 34 | 43 | 43 | 77 | 277 | 1520 | 271 | 102 | 58 |
| 20 | 54 | 51 | 39 | 33 | 45 | 45 | 83 | 407 | 1590 | 249 | 125 | 55 |
| 21 | 55 | 51 | 39 | 31 | 47 | 46 | 106 | 544 | 1320 | 233 | 150 | 54 |
| 22 | 62 | 51 | 38 | 34 | 50 | 48 | 143 | 570 | 1200 | 285 | 117 | 53 |
| 23 | 61 | 49 | 38 | 33 | 57 | 52 | 163 | 495 | 1120 | 335 | 108 | 55 |
| 24 | 58 | 52 | 37 | 33 | 52 | 57 | 160 | 547 | 1100 | 301 | 103 | 101 |
| 25 | 58 | 57 | 37 | 33 | 51 | 59 | 143 | 735 | 931 | 386 | 98 | 86 |
| 26 | 58 | 58 | 36 | 32 | 51 | 61 | 130 | 1020 | 899 | 345 | 94 | 77 |
| 27 | 57 | 55 | 36 | 32 | 50 | 70 | 122 | 1240 | 925 | 325 | 92 | 76 |
| 28 | 58 | 53 | 36 | 32 | 49 | 83 | 124 | 1360 | 900 | 271 | 94 | 76 |
| 29 | 54 | 56 | 35 | 32 | --- | 101 | 143 | 1360 | 868 | 241 | 95 | 74 |
| 30 | 55 | 57 | 35 | 32 | --- | 117 | 161 | 1660 | 786 | 221 | 93 | 71 |
| 31 | 54 | --- | 34 | 32 | --- | 135 | --- | 1820 | --- | 208 | 89 | --- |
| TOTAL | 1775 | 1593 | 1326 | 1041 | 1064 | 1800 | 3127 | 16024 | 45209 | 11408 | 3932 | 2132 |
| MEAN | 57.3 | 53.1 | 42.8 | 33.6 | 38.0 | 58.1 | 104 | 517 | 1507 | 368 | 127 | 71.1 |
| MAX | 74 | 69 | 56 | 37 | 57 | 135 | 163 | 1820 | 2270 | 698 | 195 | 101 |
| MIN | 49 | 39 | 34 | 31 | 27 | 43 | 77 | 163 | 786 | 208 | 89 | 53 |
| ACFT | 3520 | 3160 | 2630 | 2060 | 2110 | 3570 | 6200 | 31780 | 89670 | 22630 | 7800 | 4230 |

| | | | | | | | | | | |
|-------------|-------|-------|------|-----|-----|------|-----|----|------|--------|
| CAL YR 1985 | TOTAL | 55699 | MEAN | 153 | MAX | 1270 | MIN | 22 | ACFT | 110500 |
| WTR YR 1986 | TOTAL | 90431 | MEAN | 248 | MAX | 2270 | MIN | 27 | ACFT | 179400 |

e Estimated.

GREEN RIVER BASIN

83

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 mi².

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, non-recording gage at site 300 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--49 years, 175 ft³/s, 126,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,920 ft³/s June 18, 1971, gage height, 5.98 ft; maximum gage height, 6.26 ft June 4, 1986, from floodmarks; minimum recorded, 7.0 ft³/s Mar. 13, 1940, Mar. 20, 1942 (probably caused by ice jams above station).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1200 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|---------|-----------------------------------|---------------------|---|------|-----------------------------------|---------------------|
| June 4 | unknown | *2,770 | *6.26 | No other peak greater than base discharge determined. | | | |

Minimum daily discharge, 40 ft³/s, Feb.9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|-------|-------|--------|------|------|
| 1 | 74 | 64 | 71 | 42 | 49 | 69 | 149 | e204 | e1780 | e820 | e213 | e107 |
| 2 | 73 | 71 | 69 | 45 | e46 | 71 | 139 | e258 | e1950 | e740 | e204 | e102 |
| 3 | 70 | 67 | 69 | 45 | 47 | 71 | 126 | e340 | e2300 | e650 | e194 | e98 |
| 4 | 68 | 66 | 68 | 43 | 47 | 73 | 116 | e404 | e2320 | e635 | e185 | e95 |
| 5 | 67 | 67 | 69 | 48 | e45 | 69 | 109 | e324 | e2190 | e620 | e179 | e93 |
| 6 | 67 | 61 | 65 | 50 | 48 | 71 | 105 | e292 | e2050 | e550 | e170 | e89 |
| 7 | 90 | 64 | 64 | 49 | e42 | 71 | 111 | e266 | e1950 | e490 | e178 | e90 |
| 8 | 90 | 69 | 62 | 50 | 43 | 72 | 107 | e242 | e1820 | e440 | e169 | e97 |
| 9 | 85 | 66 | 59 | 53 | 40 | 76 | 107 | e224 | e1550 | e425 | e163 | e93 |
| 10 | 82 | 59 | 53 | 54 | 43 | 70 | 103 | e208 | e1400 | e390 | e156 | e95 |
| 11 | 83 | 72 | 44 | 52 | 44 | 66 | 105 | e198 | e1350 | e370 | e150 | e90 |
| 12 | 81 | 81 | 45 | 50 | 45 | 62 | e103 | e192 | e1460 | e350 | e144 | e84 |
| 13 | 81 | 74 | 52 | 50 | 46 | 63 | e94 | e203 | e1550 | e330 | e139 | e82 |
| 14 | 72 | 86 | 53 | 49 | 47 | 61 | e90 | e216 | e1690 | e310 | e133 | e79 |
| 15 | 75 | 80 | 52 | 50 | 51 | 59 | e91 | e221 | e1790 | e320 | e129 | e76 |
| 16 | 76 | 74 | 53 | 50 | 52 | 59 | e94 | e214 | e1900 | e440 | e125 | e73 |
| 17 | 75 | 71 | 53 | 50 | 51 | 58 | e96 | e208 | e1950 | e360 | e119 | e70 |
| 18 | 73 | 71 | 53 | 50 | 57 | 56 | e90 | e222 | e1910 | e320 | e116 | e71 |
| 19 | 72 | 68 | 52 | 50 | 76 | 56 | e87 | e281 | e1700 | e300 | e118 | e73 |
| 20 | 71 | 67 | 52 | e48 | 68 | 57 | e91 | e396 | e1740 | e270 | e138 | e69 |
| 21 | 72 | 65 | 51 | e46 | 67 | 63 | e111 | e519 | e1550 | e270 | e161 | e67 |
| 22 | 80 | 63 | 51 | 49 | 66 | 66 | e149 | e572 | e1400 | e300 | e150 | e66 |
| 23 | 79 | 65 | 50 | 50 | 74 | 70 | e174 | e494 | e1300 | e350 | e132 | e70 |
| 24 | 76 | 67 | 49 | 49 | 75 | 76 | e177 | e525 | e1220 | e320 | e124 | e118 |
| 25 | 76 | 71 | 47 | 47 | 72 | 77 | e164 | e666 | e1100 | e410 | e119 | e109 |
| 26 | 76 | 74 | 46 | 48 | 73 | 82 | e147 | e899 | e1020 | e360 | e113 | e96 |
| 27 | 74 | 71 | 47 | 48 | 73 | 91 | e136 | e1110 | e1000 | e335 | e110 | e95 |
| 28 | 74 | 69 | 46 | 49 | 70 | 101 | e136 | e1230 | e1010 | e305 | e112 | e94 |
| 29 | 71 | 70 | 45 | 49 | --- | 118 | e152 | e1280 | e960 | e270 | e115 | e90 |
| 30 | 74 | 72 | 46 | 48 | --- | 137 | e172 | e1480 | e900 | e240 | e113 | e86 |
| 31 | 71 | --- | 47 | 47 | --- | 159 | --- | e1610 | --- | e225 | e110 | --- |
| TOTAL | 2348 | 2085 | 1683 | 1508 | 1557 | 2350 | 3631 | 15498 | 47810 | 12515 | 4481 | 2617 |
| MEAN | 75.7 | 69.5 | 54.3 | 48.6 | 55.6 | 75.8 | 121 | 500 | 1594 | 404 | 145 | 87.2 |
| MAX | 90 | 86 | 71 | 54 | 76 | 159 | 177 | 1610 | 2320 | 820 | 213 | 118 |
| MIN | 67 | 59 | 44 | 42 | 40 | 56 | 87 | 192 | 900 | 225 | 110 | 66 |
| ACFT | 4660 | 4140 | 3340 | 2990 | 3090 | 4660 | 7200 | 30740 | 94830 | 24820 | 8890 | 5190 |
| CAL YR 1985 | TOTAL | 64529 | MEAN | 177 | MAX | 1250 | MIN | 44 | ACFT | 128000 | | |
| WTR YR 1986 | TOTAL | 98083 | MEAN | 269 | MAX | 2320 | MIN | 40 | ACFT | 194500 | | |

e Estimated.

GREEN RIVER BASIN

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 mi².

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 for estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--23 years, 189 ft³/s, 136,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,470 ft³/s June 6, 1986, gage height, 4.57 ft; minimum recorded, 6.0 ft³/s Nov. 28, 1976, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| June 6 | 0700 | *2,470 | *4.57 | June 16 | 0800 | 1,930 | 4.01 |

Minimum daily discharge, 54 ft³/s, Jan. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|-------|-------|-------|------|------|
| 1 | 83 | 75 | 104 | e60 | e73 | 87 | 179 | 214 | 1480 | 820 | 225 | 124 |
| 2 | 81 | 77 | 102 | e61 | e66 | 90 | 180 | 258 | 1660 | 747 | 215 | 118 |
| 3 | 78 | 78 | 96 | e62 | e72 | 91 | 153 | 325 | 1840 | 679 | 209 | 116 |
| 4 | 76 | 75 | 93 | e61 | e70 | 92 | 136 | 407 | 2110 | 680 | 200 | 111 |
| 5 | 75 | 76 | e89 | e59 | e65 | 93 | 129 | 335 | 2240 | 687 | 193 | 107 |
| 6 | 76 | 71 | 89 | e62 | e79 | 92 | 124 | 306 | 2270 | 585 | 188 | 106 |
| 7 | 98 | 71 | e84 | e61 | e70 | 95 | 131 | 286 | 2150 | 547 | 194 | 106 |
| 8 | 106 | 79 | e80 | e60 | e63 | 95 | 125 | 260 | 2040 | 520 | 186 | 117 |
| 9 | 100 | 74 | 75 | e60 | e59 | 105 | 123 | 241 | 1700 | 504 | 184 | 112 |
| 10 | 94 | 73 | e74 | e63 | e61 | 93 | 118 | 225 | 1400 | 473 | 170 | 117 |
| 11 | 93 | 84 | e73 | e62 | e66 | 90 | 120 | 218 | 1370 | 445 | 164 | 106 |
| 12 | 92 | 98 | 71 | e61 | e75 | 84 | 119 | 209 | 1490 | 433 | 161 | 102 |
| 13 | 93 | 89 | e66 | e61 | e85 | 82 | 123 | 217 | 1480 | 416 | 156 | 100 |
| 14 | 85 | 98 | e65 | e59 | e88 | 84 | 114 | 228 | 1550 | 402 | 149 | 99 |
| 15 | 84 | 92 | e60 | e60 | e103 | 77 | 117 | 233 | 1560 | 318 | 145 | 96 |
| 16 | 86 | 88 | e59 | e63 | e112 | 82 | 120 | 229 | 1690 | 457 | 141 | 93 |
| 17 | 84 | 90 | e61 | e64 | e122 | 78 | 124 | 219 | 1700 | 389 | 136 | 91 |
| 18 | 82 | 88 | e63 | e63 | e230 | 77 | 115 | 228 | 1640 | 344 | 132 | 93 |
| 19 | 81 | 80 | e65 | e60 | e145 | 75 | 110 | 267 | 1640 | 302 | 134 | 94 |
| 20 | 81 | e90 | e67 | e58 | e128 | 75 | 112 | 361 | 1470 | 280 | 153 | 91 |
| 21 | 81 | e85 | e67 | e54 | e120 | 79 | 130 | 463 | 1430 | 266 | 187 | 89 |
| 22 | 91 | e95 | e68 | e57 | e138 | 82 | 171 | 537 | 1310 | 288 | 158 | 87 |
| 23 | 88 | e103 | e69 | e62 | e123 | 88 | 202 | 473 | 1220 | 371 | 149 | 92 |
| 24 | 87 | e108 | e67 | e62 | e108 | 94 | 211 | 476 | 1190 | 322 | 141 | 157 |
| 25 | 86 | e112 | e68 | e59 | 103 | 96 | 198 | 565 | 1060 | 371 | 136 | 137 |
| 26 | 86 | e110 | e69 | e59 | 101 | 97 | 179 | 736 | 982 | 338 | 131 | 124 |
| 27 | 84 | 107 | e68 | e62 | 95 | 104 | 164 | 922 | 1020 | 329 | 126 | 119 |
| 28 | 83 | 106 | e67 | e65 | 88 | 113 | 160 | 1040 | 1020 | 281 | 128 | 117 |
| 29 | 82 | 103 | e67 | e70 | --- | 135 | 175 | 1150 | 996 | 254 | 130 | 114 |
| 30 | 81 | 105 | e64 | e73 | --- | 155 | 197 | 1230 | 931 | 239 | 130 | 111 |
| 31 | 80 | --- | e62 | e74 | --- | 183 | --- | 1350 | --- | 238 | 127 | --- |
| TOTAL | 2657 | 2680 | 2272 | 1917 | 2708 | 2963 | 4359 | 14208 | 45639 | 13325 | 4978 | 3246 |
| MEAN | 85.7 | 89.3 | 73.3 | 61.8 | 96.7 | 95.6 | 145 | 458 | 1521 | 430 | 161 | 108 |
| MAX | 106 | 112 | 104 | 74 | 230 | 183 | 211 | 1350 | 2270 | 820 | 225 | 157 |
| MIN | 75 | 71 | 59 | 54 | 59 | 75 | 110 | 209 | 931 | 238 | 126 | 87 |
| ACFT | 5270 | 5320 | 4510 | 3800 | 5370 | 5880 | 8650 | 28180 | 90520 | 26430 | 9870 | 6440 |

| CAL YR 1985 | TOTAL | 63258 | MEAN | 173 | MAX | 1040 | MIN | 53 | ACFT | 125500 |
|-------------|-------|--------|------|-----|-----|------|-----|----|------|--------|
| WTR YR 1986 | TOTAL | 100952 | MEAN | 277 | MAX | 2270 | MIN | 54 | ACFT | 200200 |

e Estimated.

GREEN RIVER BASIN

85

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 mi².

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

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

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

REMARKS.--Records good except for estimated daily discharges, which are fair. Several diversions above station for irrigation, including a transmountain diversion to the Great Basin through Duchesne Tunnel.

AVERAGE DISCHARGE.--16 years, 390 ft³/s, 282,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,970 ft³/s June 6, 1986, gage height, 7.52 ft, from floodmarks; minimum, 37 ft³/s Jan. 31, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,400 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| June 6 | 0900 | *4,970 | *7.52 | June 19 | 1030 | 3,710 | 7.44 |
| | | | from floodmarks | | | | |

Minimum discharge, 94 ft³/s Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|------|-------|-------|-------|-------|--------|--------|-------|-------|
| 1 | e231 | 196 | 204 | 149 | 163 | 221 | 463 | 638 | 3520 | 1390 | 366 | 294 |
| 2 | e218 | 194 | 217 | 167 | 152 | 227 | 483 | 774 | 3880 | 1250 | 346 | 274 |
| 3 | e214 | 193 | 215 | 162 | 166 | 233 | 406 | 982 | 4070 | 1130 | 328 | 264 |
| 4 | e196 | 189 | 213 | 153 | 142 | 230 | 359 | 1240 | 4430 | 1120 | 315 | 263 |
| 5 | e197 | 191 | 195 | 156 | 137 | 238 | 347 | 1060 | 4650 | 1130 | 302 | 253 |
| 6 | e201 | 189 | 211 | 172 | 166 | 230 | 331 | 940 | 4700 | 976 | 340 | 246 |
| 7 | e255 | 186 | 202 | 157 | 131 | 244 | 346 | 878 | 4290 | 886 | 300 | 254 |
| 8 | e273 | 193 | 207 | 154 | 141 | 237 | 335 | 784 | 4000 | 832 | 296 | 278 |
| 9 | e255 | 193 | 192 | 166 | 124 | 263 | 326 | 710 | 3280 | 790 | 294 | 276 |
| 10 | e246 | 181 | 188 | 171 | 128 | 240 | 325 | 648 | 2650 | 695 | 282 | 264 |
| 11 | e247 | 197 | 165 | 170 | 147 | 233 | 323 | 618 | 2600 | 559 | 278 | 258 |
| 12 | e246 | 229 | 144 | 164 | 146 | 211 | 335 | 588 | 2790 | 525 | 273 | 249 |
| 13 | e249 | 195 | 150 | 163 | 160 | 204 | 375 | 582 | 2790 | 484 | 260 | 245 |
| 14 | e232 | 205 | 152 | 156 | 153 | 208 | 349 | 594 | 2920 | 465 | 248 | 245 |
| 15 | e247 | 197 | 162 | 166 | 169 | 193 | 359 | 586 | 2940 | 436 | 264 | 242 |
| 16 | e243 | 193 | 175 | 165 | 197 | 201 | 364 | 564 | 3010 | 598 | 261 | 234 |
| 17 | e234 | 205 | 183 | 164 | 215 | 191 | 385 | 512 | 3050 | 570 | 257 | 226 |
| 18 | e229 | 195 | 189 | 167 | 277 | 189 | 354 | 513 | 3080 | 516 | 252 | 228 |
| 19 | e226 | 188 | 194 | 159 | 342 | 176 | 333 | 609 | 3110 | 459 | 250 | 230 |
| 20 | e225 | 200 | 191 | 165 | 299 | 184 | 333 | 856 | 2730 | 446 | 265 | 232 |
| 21 | e227 | 200 | 187 | 130 | 205 | 186 | 373 | 1170 | 2600 | 435 | 303 | 228 |
| 22 | e248 | 187 | 186 | 147 | 212 | 194 | 501 | 1520 | 2350 | 452 | 281 | 220 |
| 23 | e244 | 200 | 189 | 163 | 245 | 209 | 602 | 1270 | 2190 | 549 | 264 | 216 |
| 24 | e232 | 212 | 188 | 157 | 297 | 222 | 651 | 1190 | 2110 | 502 | 257 | 315 |
| 25 | e230 | 219 | 176 | 145 | 270 | 235 | 642 | 1330 | 1850 | 535 | 289 | 317 |
| 26 | e229 | 214 | 175 | 149 | 260 | 243 | 588 | 1700 | 1680 | 524 | 290 | 291 |
| 27 | e225 | 206 | 171 | 155 | 260 | 256 | 523 | 2400 | 1660 | 508 | 281 | 286 |
| 28 | e222 | 213 | 173 | 157 | 230 | 268 | 503 | 2720 | 1720 | 452 | 284 | 285 |
| 29 | e220 | 219 | 174 | 162 | --- | 306 | 543 | 2900 | 1670 | 416 | 296 | 280 |
| 30 | e218 | 214 | 180 | 161 | --- | 357 | 602 | 3050 | 1560 | 401 | 295 | 270 |
| 31 | e219 | --- | 157 | 162 | --- | 448 | --- | 3280 | --- | 382 | 288 | --- |
| TOTAL | 7178 | 5993 | 5705 | 4934 | 5534 | 7277 | 12759 | 37206 | 87880 | 20413 | 8905 | 7763 |
| MEAN | 232 | 200 | 184 | 159 | 198 | 235 | 425 | 1200 | 2929 | 658 | 287 | 259 |
| MAX | 273 | 229 | 217 | 172 | 342 | 448 | 651 | 3280 | 4700 | 1390 | 366 | 317 |
| MIN | 196 | 181 | 144 | 130 | 124 | 176 | 323 | 512 | 1560 | 382 | 248 | 216 |
| ACFT | 14240 | 11890 | 11320 | 9790 | 10980 | 14430 | 25310 | 73800 | 174300 | 40490 | 17660 | 15400 |
| CAL YR 1985 | TOTAL | 152268 | MEAN | 417 | MAX | 2200 | MIN | 137 | ACFT | 302000 | | |
| WTR YR 1986 | TOTAL | 211547 | MEAN | 580 | MAX | 4700 | MIN | 124 | ACFT | 419600 | | |

e Estimated.

GREEN RIVER BASIN

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 mi², includes approximately 170 mi² 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 to Sept. 10, 1985 at site about 300 ft downstream at different datum. From Sept. 10, 1985 to present at site 300 ft below Soldier Creek Dam at different datum.

REMARKS.--No estimated daily discharges, 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. The elevation of the new reservoir reached the elevation of the old reservoir on March 15 and the old dam was breached on June 6, 1985. Water Hollow Tunnel will divert 600 ft³/s to the reservoir during spring runoff when series of tunnels and small reservoirs are completed on Rock Creek, West Fork Duchesne River, and Curren Creek. Several old transmountain diversions upstream to the reservoir. Transmountain diversions from the reservoir and upstream tributaries to the Great Basin.

AVERAGE DISCHARGE.--23 years (1943-56, 1964-72), 31.0 ft³/s, 22,500 acre-ft/yr prior to completion of Soldier Creek Dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,020 ft³/s May 4, 1952, gage height, 3.84 ft, site and datum then in use, from rating curve extended above 550 ft³/s; minimum daily, 0.23 ft³/s July and August 1973.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 28 ft³/s several days in April, June, August and September; minimum daily, 9.1 ft³/s Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|------|------|------|------|------|------|-------|------|------|
| 1 | 24 | 14 | 17 | 15 | 14 | 16 | 16 | 27 | 26 | 27 | 27 | 27 |
| 2 | 27 | 14 | 17 | 15 | 14 | 16 | 17 | 26 | 26 | 26 | 28 | 28 |
| 3 | 22 | 14 | 16 | 15 | 14 | 16 | 18 | 26 | 26 | 27 | 28 | 27 |
| 4 | 15 | 14 | 14 | 15 | 14 | 16 | 20 | 26 | 25 | 27 | 28 | 27 |
| 5 | 14 | 15 | 14 | 14 | 14 | 16 | 20 | 26 | 25 | 27 | 27 | 27 |
| 6 | 14 | 15 | 15 | 14 | 14 | 16 | 20 | 26 | 25 | 27 | 27 | 28 |
| 7 | 14 | 15 | 15 | 14 | 14 | 15 | 23 | 27 | 25 | 27 | 28 | 28 |
| 8 | 14 | 15 | 15 | 14 | 14 | 14 | 27 | 27 | 25 | 27 | 28 | 28 |
| 9 | 14 | 16 | 15 | 14 | 14 | 14 | 27 | 26 | 25 | 27 | 28 | 28 |
| 10 | 11 | 17 | 15 | 14 | 14 | 14 | 27 | 26 | 25 | 26 | 28 | 27 |
| 11 | 9.1 | 17 | 15 | 14 | 14 | 14 | 27 | 26 | 25 | 26 | 28 | 27 |
| 12 | 9.4 | 18 | 16 | 14 | 14 | 14 | 28 | 26 | 25 | 26 | 27 | 27 |
| 13 | 9.7 | 17 | 16 | 14 | 14 | 14 | 28 | 26 | 25 | 27 | 26 | 27 |
| 14 | 9.8 | 16 | 16 | 14 | 14 | 14 | 28 | 26 | 25 | 26 | 26 | 27 |
| 15 | 11 | 16 | 16 | 14 | 15 | 14 | 27 | 26 | 25 | 27 | 26 | 27 |
| 16 | 12 | 16 | 16 | 14 | 15 | 14 | 27 | 26 | 27 | 26 | 27 | 27 |
| 17 | 12 | 16 | 14 | 14 | 15 | 15 | 27 | 26 | 28 | 26 | 27 | 26 |
| 18 | 12 | 17 | 13 | 16 | 15 | 15 | 27 | 25 | 27 | 26 | 26 | 26 |
| 19 | 12 | 17 | 13 | 17 | 15 | 15 | 27 | 26 | 26 | 27 | 27 | 26 |
| 20 | 13 | 16 | 13 | 17 | 15 | 15 | 28 | 27 | 26 | 27 | 27 | 26 |
| 21 | 13 | 15 | 13 | 17 | 15 | 15 | 27 | 26 | 26 | 27 | 27 | 26 |
| 22 | 13 | 15 | 13 | 17 | 15 | 15 | 27 | 26 | 26 | 27 | 27 | 26 |
| 23 | 13 | 15 | 14 | 14 | 15 | 15 | 27 | 26 | 26 | 27 | 27 | 26 |
| 24 | 14 | 15 | 14 | 12 | 15 | 15 | 28 | 26 | 27 | 27 | 27 | 26 |
| 25 | 13 | 16 | 14 | 12 | 15 | 15 | 27 | 26 | 26 | 27 | 27 | 25 |
| 26 | 11 | 16 | 14 | 12 | 15 | 15 | 27 | 26 | 26 | 27 | 27 | 25 |
| 27 | 12 | 16 | 14 | 12 | 15 | 15 | 27 | 26 | 26 | 27 | 27 | 25 |
| 28 | 12 | 16 | 15 | 12 | 15 | 15 | 27 | 26 | 26 | 27 | 27 | 25 |
| 29 | 12 | 16 | 15 | 12 | --- | 15 | 27 | 26 | 27 | 27 | 27 | 24 |
| 30 | 13 | 17 | 14 | 12 | --- | 16 | 26 | 25 | 27 | 27 | 27 | 25 |
| 31 | 13 | --- | 14 | 13 | --- | 16 | --- | 26 | --- | 27 | 27 | --- |
| TOTAL | 418.0 | 472 | 455 | 437 | 406 | 464 | 759 | 808 | 775 | 829 | 841 | 794 |
| MEAN | 13.5 | 15.7 | 14.7 | 14.1 | 14.5 | 15.0 | 25.3 | 26.1 | 25.8 | 26.7 | 27.1 | 26.5 |
| MAX | 27 | 18 | 17 | 17 | 15 | 16 | 28 | 27 | 28 | 27 | 28 | 28 |
| MIN | 9.1 | 14 | 13 | 12 | 14 | 14 | 16 | 25 | 25 | 26 | 26 | 24 |
| ACFT | 829 | 936 | 902 | 867 | 805 | 920 | 1510 | 1600 | 1540 | 1640 | 1670 | 1570 |
| CAL YR 1985 | TOTAL | 7489.0 | MEAN | 20.5 | MAX | 32 | MIN | 7.3 | ACFT | 14850 | | |
| WTR YR 1986 | TOTAL | 7458.0 | MEAN | 20.4 | MAX | 28 | MIN | 9.1 | ACFT | 14790 | | |

GREEN RIVER BASIN

87

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 mi².

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

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

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Currant Creek Reservoir, total capacity, 15,670 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 558 ft³/s May 14, 1984, gage height, 5.58 ft; minimum daily, 0.63 ft³/s April 10, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 201 ft³/s June 4, gage height, 3.57 ft; minimum discharge, 2.3 ft³/s July 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | |
|-------------|-------|-------|---------|-------|-------|-------|-------|------|-------|-------|-------|-------|------|--|-------|
| 1 | 4.8 | 8.5 | 9.4 | 8.4 | 6.8 | 7.2 | 18 | 14 | 27 | 5.7 | 5.0 | 9.8 | | | |
| 2 | 4.7 | 8.5 | 9.4 | 8.5 | 6.8 | 7.2 | 23 | 14 | 23 | 8.6 | 8.7 | 9.3 | | | |
| 3 | 4.6 | 8.5 | 9.3 | 8.2 | 6.8 | 7.3 | 23 | 14 | 27 | 23 | 14 | 9.1 | | | |
| 4 | 4.6 | 8.6 | 9.1 | 8.1 | 6.8 | 7.5 | 24 | 14 | 80 | 23 | 4.9 | 9.0 | | | |
| 5 | 6.7 | 8.8 | 9.1 | 7.9 | 6.8 | 7.6 | 23 | 14 | 23 | 23 | 5.0 | 9.4 | | | |
| 6 | 8.4 | 8.8 | 9.1 | 8.1 | 6.8 | 7.8 | 23 | 14 | 23 | 21 | 5.0 | 8.5 | | | |
| 7 | 8.8 | 8.8 | 8.9 | 8.0 | 6.8 | 7.7 | 12 | 14 | 23 | 4.2 | 5.9 | 8.3 | | | |
| 8 | 8.3 | 9.1 | 8.9 | 7.9 | 6.8 | 7.9 | 6.3 | 14 | 23 | 5.3 | 12 | 9.4 | | | |
| 9 | 8.4 | 9.4 | 8.8 | 7.7 | 6.8 | 7.9 | 7.7 | 14 | 23 | 5.3 | 11 | 9.8 | | | |
| 10 | 8.4 | 9.4 | 8.8 | 7.6 | 6.8 | 7.8 | 14 | 14 | 23 | 9.3 | 11 | 9.7 | | | |
| 11 | 8.5 | 9.4 | 9.0 | 7.6 | 6.8 | 7.7 | 14 | 14 | 23 | 23 | 5.6 | 10 | | | |
| 12 | 8.4 | 9.4 | 9.0 | 7.8 | 6.8 | 7.6 | 14 | 14 | 23 | 23 | 3.3 | 9.9 | | | |
| 13 | 8.2 | 9.4 | 8.9 | 7.9 | 6.8 | 7.6 | 14 | 14 | 23 | 18 | 3.5 | 9.7 | | | |
| 14 | 8.2 | 9.1 | 8.8 | 7.9 | 6.8 | 7.6 | 14 | 14 | 21 | 5.0 | 4.3 | 9.9 | | | |
| 15 | 8.2 | 9.1 | 8.8 | 7.9 | 6.6 | 7.6 | 14 | 14 | 21 | 5.1 | 9.2 | 9.6 | | | |
| 16 | 8.2 | 9.1 | 8.8 | 7.9 | 6.5 | 7.7 | 14 | 14 | 21 | 5.0 | 9.1 | 8.4 | | | |
| 17 | 8.1 | 9.1 | 8.4 | 7.8 | 6.3 | 7.7 | 14 | 14 | 21 | 7.1 | 8.1 | 7.9 | | | |
| 18 | 8.0 | 9.2 | 8.3 | 7.9 | 6.4 | 7.8 | 14 | 14 | 21 | 22 | 5.1 | 7.9 | | | |
| 19 | 8.0 | 9.1 | 8.4 | 7.9 | 7.1 | 7.7 | 13 | 14 | 21 | 22 | 5.2 | 7.8 | | | |
| 20 | 8.2 | 9.1 | 8.5 | 7.9 | 6.5 | 7.8 | 13 | 14 | 21 | 20 | 5.3 | 8.6 | | | |
| 21 | 8.2 | 8.9 | 8.5 | 7.6 | 6.3 | 7.9 | 13 | 23 | 22 | 4.1 | 6.8 | 9.9 | | | |
| 22 | 8.2 | 8.8 | 8.5 | 7.3 | 6.3 | 7.9 | 14 | 25 | 22 | 4.1 | 11 | 10 | | | |
| 23 | 7.9 | 8.8 | 8.3 | 7.1 | 6.4 | 7.8 | 15 | 14 | 22 | 4.2 | 10 | 10 | | | |
| 24 | 8.0 | 8.9 | 8.2 | 7.1 | 6.8 | 7.8 | 14 | 14 | 13 | 6.9 | 10 | 15 | | | |
| 25 | 8.2 | 9.1 | 8.2 | 7.1 | 7.2 | 7.6 | 14 | 15 | 3.7 | 21 | 11 | 15 | | | |
| 26 | 8.2 | 9.2 | 8.6 | 7.1 | 7.4 | 8.2 | 14 | 26 | 6.2 | 21 | 13 | 14 | | | |
| 27 | 8.2 | 9.1 | 8.5 | 7.1 | 7.3 | 8.4 | 14 | 25 | 21 | 17 | 12 | 15 | | | |
| 28 | 8.2 | 9.3 | 8.5 | 7.1 | 7.2 | 8.5 | 14 | 27 | 21 | 5.0 | 10 | 14 | | | |
| 29 | 8.3 | 9.5 | 8.5 | 7.1 | --- | 8.5 | 14 | 58 | 16 | 5.1 | 9.5 | 12 | | | |
| 30 | 8.4 | 9.4 | 8.5 | 6.9 | --- | 8.7 | 14 | 23 | 5.7 | 4.9 | 9.6 | 12 | | | |
| 31 | 8.5 | --- | 8.5 | 6.8 | --- | 8.7 | --- | 23 | --- | 5.0 | 9.7 | --- | | | |
| TOTAL | 240.0 | 271.4 | 270.5 | 237.2 | 189.5 | 242.7 | 452.0 | 553 | 663.6 | 376.9 | 253.8 | 308.9 | | | |
| MEAN | 7.74 | 9.05 | 8.73 | 7.65 | 6.77 | 7.83 | 15.1 | 17.8 | 22.1 | 12.2 | 8.19 | 10.3 | | | |
| MAX | 8.8 | 9.5 | 9.4 | 8.5 | 7.4 | 8.7 | 24 | 58 | 80 | 23 | 14 | 15 | | | |
| MIN | 4.6 | 8.5 | 8.2 | 6.8 | 6.3 | 7.2 | 6.3 | 14 | 3.7 | 4.1 | 3.3 | 7.8 | | | |
| ACFT | 476 | 538 | 537 | 470 | 376 | 481 | 897 | 1100 | 1320 | 748 | 503 | 613 | | | |
| CAL YR 1985 | TOTAL | | 6244.24 | MEAN | | 17.1 | MAX | | 236 | MIN | | .63 | ACFT | | 12390 |
| WTR YR 1986 | TOTAL | | 4059.5 | MEAN | | 11.1 | MAX | | 80 | MIN | | 3.3 | ACFT | | 8050 |

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 mi².

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 except for estimated daily discharges, which are fair. 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. Beginning in 1962, Deep Creek was diverted intermittently into private fish ponds and entered Currant Creek 400 ft below gage. However, since approximately 1976 when the upstream pond washed out Deep Creek has been entering Currant Creek 30 ft above 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 ft³/s, 33,330 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,260 ft³/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 ft³/s Aug. 9, 10, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 217 ft³/s June 4, gage height, 2.40 ft; minimum, 19 ft³/s Feb. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|------|------|-------|------|------|
| 1 | 34 | 39 | 42 | 36 | 39 | 55 | 92 | 103 | 116 | e60 | 44 | 46 |
| 2 | 34 | 39 | 43 | 38 | 39 | 56 | 101 | 110 | 116 | e64 | 43 | 53 |
| 3 | 34 | 39 | 43 | 39 | 40 | 56 | 84 | 116 | 113 | e69 | 48 | 46 |
| 4 | 34 | 39 | 43 | 31 | 37 | 57 | 82 | 124 | 151 | e70 | 45 | 42 |
| 5 | 34 | 39 | 41 | 38 | 36 | 57 | 80 | 113 | 117 | e69 | 41 | 41 |
| 6 | 34 | 40 | 42 | 41 | 40 | 58 | 82 | 115 | 109 | e68 | 40 | 42 |
| 7 | 48 | 41 | 42 | 32 | 33 | 59 | 82 | 112 | 103 | e62 | 40 | 41 |
| 8 | 44 | 40 | 43 | 32 | 33 | 60 | 70 | 111 | 102 | e58 | 42 | 41 |
| 9 | 43 | 40 | 41 | 41 | 30 | 65 | 68 | 108 | 101 | e56 | 45 | 43 |
| 10 | 43 | 38 | 38 | 43 | 35 | 59 | 71 | 107 | 99 | 50 | 45 | 43 |
| 11 | 42 | 39 | 32 | 39 | 40 | 59 | 75 | 106 | 95 | 58 | 46 | 43 |
| 12 | 41 | 41 | 29 | 36 | 40 | 56 | 76 | 105 | 93 | 61 | 42 | 44 |
| 13 | 40 | 38 | 35 | 37 | 40 | 56 | 80 | 109 | 91 | 61 | 41 | 44 |
| 14 | 40 | 40 | 41 | 35 | 40 | 56 | 74 | 114 | 89 | 52 | 40 | 43 |
| 15 | 39 | 40 | 44 | 39 | 43 | 55 | 75 | 116 | 88 | 50 | 42 | 43 |
| 16 | 39 | 40 | 43 | 41 | 44 | 56 | 83 | 114 | 86 | 55 | 43 | 42 |
| 17 | 38 | 42 | 42 | 40 | 48 | 56 | 81 | 111 | 84 | 52 | 43 | 41 |
| 18 | 38 | 40 | 39 | 40 | 61 | 55 | 76 | 114 | 85 | 57 | 39 | 42 |
| 19 | 38 | 37 | 39 | 39 | 71 | 54 | 75 | 118 | 84 | 60 | 39 | 42 |
| 20 | 38 | 39 | 38 | 39 | 56 | 55 | 77 | 122 | 83 | 60 | 41 | 50 |
| 21 | 39 | 40 | 39 | 33 | 48 | 55 | 86 | 126 | 83 | 51 | 42 | 50 |
| 22 | 40 | 37 | 39 | 35 | 45 | 57 | 95 | 139 | 83 | 46 | 45 | 52 |
| 23 | 40 | 41 | 39 | 38 | 48 | 59 | 98 | 124 | 81 | 50 | 46 | 44 |
| 24 | 38 | 44 | 40 | 36 | 56 | 63 | 101 | 116 | 78 | 48 | 44 | 49 |
| 25 | 39 | 44 | 39 | 36 | 58 | 62 | 99 | 115 | 68 | 54 | 44 | 55 |
| 26 | 39 | 44 | 38 | 37 | 59 | 60 | 96 | 120 | e71 | 60 | 46 | 51 |
| 27 | 37 | 42 | 37 | 38 | 58 | 62 | 90 | 129 | e77 | 59 | 53 | 49 |
| 28 | 38 | 42 | 38 | 40 | 56 | 67 | 88 | 117 | e75 | 50 | 58 | 53 |
| 29 | 38 | 43 | 38 | 39 | --- | 76 | 93 | 150 | e66 | 46 | 54 | 50 |
| 30 | 39 | 44 | 41 | 39 | --- | 81 | 98 | 120 | e59 | 45 | 53 | 48 |
| 31 | 39 | --- | 34 | 39 | --- | 99 | --- | 117 | --- | 44 | 48 | --- |
| TOTAL | 1201 | 1211 | 1222 | 1166 | 1273 | 1881 | 2528 | 3621 | 2746 | 1745 | 1382 | 1373 |
| MEAN | 38.7 | 40.4 | 39.4 | 37.6 | 45.5 | 60.7 | 84.3 | 117 | 91.5 | 56.3 | 44.6 | 45.8 |
| MAX | 48 | 44 | 44 | 43 | 71 | 99 | 101 | 150 | 151 | 70 | 58 | 55 |
| MIN | 34 | 37 | 29 | 31 | 30 | 54 | 68 | 103 | 59 | 44 | 39 | 41 |
| ACFT | 2380 | 2400 | 2420 | 2310 | 2520 | 3730 | 5010 | 7180 | 5450 | 3460 | 2740 | 2720 |
| CAL YR 1985 | TOTAL | 19503 | MEAN | 53.4 | MAX | 268 | MIN | 28 | ACFT | 38680 | | |
| WTR YR 1986 | TOTAL | 21349 | MEAN | 58.5 | MAX | 151 | MIN | 29 | ACFT | 42350 | | |

e Estimated.

GREEN RIVER BASIN

89

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 mi².

PERIOD OF RECORD.--June 1964 to September 1986 (discontinued).

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 for estimated daily discharges, 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.--22 years, 16.5 ft³/s, 11,950 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,830 ft³/s Aug. 22, 1971, gage height, 5.40 ft, from rating curve extended above 320 ft³/s; minimum recorded, 0.2 ft³/s Jan. 24, 1965, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 80 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|-------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| May 6 | 1400 | *296 | *2.89 | May 21 | 2400 | 220 | 2.65 |

Minimum daily discharge, 1.30 ft³/s several days in October and February.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|------|------|-------|------|------|------|------|-------|-------|-------|
| 1 | 1.4 | 2.5 | 1.9 | 1.9 | 1.8 | 41 | 60 | 138 | 113 | 17 | 6.8 | 5.4 |
| 2 | 1.4 | 2.7 | 1.9 | 2.0 | 1.7 | 46 | 63 | 161 | 106 | 16 | 6.5 | 4.7 |
| 3 | 1.5 | 2.7 | 1.9 | 2.2 | 1.6 | 55 | 59 | 183 | 100 | 15 | 6.4 | 4.4 |
| 4 | 1.5 | 2.7 | 1.9 | e2.2 | 1.5 | 56 | 57 | 216 | 92 | 15 | 5.7 | 4.1 |
| 5 | 1.6 | 2.9 | 1.9 | 2.3 | 1.4 | 57 | 56 | 252 | 81 | 15 | 4.3 | 3.8 |
| 6 | 1.8 | 2.7 | e1.9 | 2.4 | 1.5 | 55 | 56 | 240 | 75 | 14 | 3.5 | 3.6 |
| 7 | 2.2 | 2.7 | e1.9 | e2.4 | e1.4 | 53 | 58 | 174 | 69 | 14 | 3.8 | 3.5 |
| 8 | 2.2 | 2.7 | e1.8 | 2.5 | e1.3 | 55 | 60 | 144 | 67 | 13 | 3.5 | 3.5 |
| 9 | 2.2 | 2.7 | e1.8 | 2.6 | e1.3 | 49 | 61 | 121 | 58 | 12 | 3.5 | 3.8 |
| 10 | 2.2 | 2.4 | e1.8 | 2.7 | e1.3 | 40 | 61 | 104 | 50 | 11 | 3.3 | 4.1 |
| 11 | 2.1 | 2.5 | e1.7 | 2.7 | 1.4 | 33 | 61 | 90 | 47 | 11 | 3.1 | 3.6 |
| 12 | 2.2 | e2.4 | e1.7 | 2.7 | 1.3 | 30 | 62 | 83 | 45 | 10 | 3.1 | 3.3 |
| 13 | 2.3 | e2.3 | e1.7 | 2.6 | 1.3 | 28 | 65 | 80 | 41 | 10 | 3.1 | 3.3 |
| 14 | 2.1 | 2.2 | e1.8 | 2.6 | 1.3 | 28 | 65 | 84 | 40 | 9.9 | 3.0 | 3.6 |
| 15 | 2.0 | 2.2 | e1.8 | 2.7 | 1.3 | 25 | 66 | 90 | 37 | 11 | 2.9 | 3.4 |
| 16 | 2.2 | 2.2 | e1.8 | 2.7 | 1.4 | 24 | 68 | 102 | 34 | 11 | 2.8 | 3.2 |
| 17 | 2.3 | 2.2 | e1.9 | 2.7 | 1.6 | 23 | 68 | 104 | 31 | 10 | 2.6 | 3.3 |
| 18 | 2.3 | 2.2 | e1.9 | 2.6 | 2.1 | 21 | 65 | 107 | 29 | 9.9 | 2.6 | 3.3 |
| 19 | 2.4 | e2.1 | e1.9 | 2.3 | 4.5 | 20 | 64 | 110 | 28 | 11 | 2.5 | 3.4 |
| 20 | 2.3 | 1.9 | 1.9 | 2.2 | 5.4 | 19 | 65 | 134 | 27 | 11 | 2.6 | 3.4 |
| 21 | 2.4 | 1.8 | 1.9 | 1.9 | 4.5 | 19 | 67 | 177 | 26 | 11 | 3.3 | 3.3 |
| 22 | 2.6 | e1.8 | 1.9 | 1.9 | 4.5 | 19 | 75 | 182 | 25 | 12 | 4.8 | 3.2 |
| 23 | 2.7 | 1.9 | 1.9 | 1.9 | 4.5 | 21 | 92 | 159 | 23 | 11 | 5.0 | 3.2 |
| 24 | 2.6 | 1.9 | 1.9 | 1.9 | 5.4 | 24 | 119 | 138 | 23 | 11 | 4.6 | 6.7 |
| 25 | 2.5 | 1.9 | 1.9 | 1.9 | 10 | 28 | 134 | 128 | 23 | 10 | 4.4 | 7.5 |
| 26 | 2.6 | 1.9 | 1.9 | 1.8 | 18 | 30 | 124 | 136 | 22 | 10 | 4.0 | 6.1 |
| 27 | 2.7 | 1.9 | 1.9 | 1.8 | 37 | 33 | 126 | 147 | 21 | 9.1 | 3.8 | 5.5 |
| 28 | 2.9 | 1.9 | 1.9 | 1.6 | 38 | 38 | 119 | 143 | 20 | 8.5 | 3.7 | 5.1 |
| 29 | 2.8 | 1.9 | 1.9 | 1.6 | --- | 45 | 114 | 134 | 20 | 7.9 | 3.9 | 4.6 |
| 30 | 2.7 | 1.9 | 1.9 | 1.7 | --- | 56 | 117 | 124 | 19 | 7.6 | 5.0 | 4.5 |
| 31 | 2.9 | --- | 1.9 | 1.8 | --- | 62 | --- | 117 | --- | 7.2 | 5.8 | --- |
| TOTAL | 69.6 | 67.7 | 57.7 | 68.8 | 158.3 | 1133 | 2327 | 4302 | 1392 | 352.1 | 123.9 | 124.4 |
| MEAN | 2.25 | 2.26 | 1.86 | 2.22 | 5.65 | 36.5 | 77.6 | 139 | 46.4 | 11.4 | 4.00 | 4.15 |
| MAX | 2.9 | 2.9 | 1.9 | 2.7 | 38 | 62 | 134 | 252 | 113 | 17 | 6.8 | 7.5 |
| MIN | 1.4 | 1.8 | 1.7 | 1.6 | 1.3 | 19 | 56 | 80 | 19 | 7.2 | 2.5 | 3.2 |
| ACFT | 138 | 134 | 114 | 136 | 314 | 2250 | 4620 | 8530 | 2760 | 698 | 246 | 247 |
| CAL YR 1985 | TOTAL | 4184.69 | MEAN | 11.5 | MAX | 82 | MIN | .34 | ACFT | 8300 | | |
| WTR YR 1986 | TOTAL | 10176.5 | MEAN | 27.9 | MAX | 252 | MIN | 1.3 | ACFT | 20190 | | |

e Estimated.

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 mi² (includes approximately 170 mi² 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 except for estimated daily discharges, which are fair. Flow regulated by Strawberry Reservoir since July 14, 1912. Capacity, 1,106,500 acre-ft since June 30, 1973; 283,000 acre-ft prior to June 30, 1973. New earthfilled dam located 7 mi below old dam was completed in September 1972 and storage began June 30, 1973. The elevation of new reservoir reached the elevation of the old reservoir on March 15 and the old dam was breached on June 6, 1985. Water Hollow Tunnel will divert 600 ft³/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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,090 ft³/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 ft³/s June 20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 985 ft³/s May 27, gage height, 7.18 ft; minimum daily, 90 ft³/s Dec. 12-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|-------|-------|-------|-------|-------|--------|------|------|
| 1 | 120 | 105 | 100 | e111 | e194 | 166 | 291 | 530 | 764 | 193 | 132 | 148 |
| 2 | 122 | 106 | 103 | e114 | e195 | 169 | 358 | 611 | 739 | 190 | 130 | 141 |
| 3 | 124 | 106 | 104 | e119 | e175 | 170 | 326 | 726 | 694 | 185 | 132 | 138 |
| 4 | 115 | 105 | 100 | e117 | e158 | 168 | 304 | 887 | 696 | 187 | 131 | 134 |
| 5 | 111 | 106 | 96 | e119 | e165 | 169 | 292 | 903 | 666 | 191 | 127 | 137 |
| 6 | 112 | 105 | 100 | e124 | e184 | 169 | 282 | 801 | 612 | 188 | 125 | 139 |
| 7 | 137 | 107 | 101 | e121 | e175 | 172 | 286 | 707 | 564 | 189 | 121 | 143 |
| 8 | 135 | 107 | 101 | e118 | e174 | 174 | 281 | 629 | 531 | 179 | 121 | 147 |
| 9 | 133 | 108 | 95 | e120 | e187 | 190 | 285 | 571 | 519 | 175 | 126 | 147 |
| 10 | 130 | 105 | 94 | e128 | e188 | 179 | 284 | 513 | 490 | 173 | 125 | 153 |
| 11 | 121 | 109 | e92 | e129 | e178 | 178 | 286 | 482 | 472 | 166 | 125 | 145 |
| 12 | 117 | e108 | e90 | e126 | e172 | 166 | 288 | 461 | 429 | 172 | 122 | 137 |
| 13 | 116 | 108 | e90 | e121 | e190 | 158 | 304 | 458 | 427 | 173 | 114 | 136 |
| 14 | 114 | e108 | e90 | e118 | e185 | 156 | 317 | 476 | 407 | 166 | 114 | 142 |
| 15 | 113 | 107 | e91 | e125 | e210 | 151 | 322 | 504 | 366 | 159 | 115 | 137 |
| 16 | 115 | e105 | e94 | e135 | e205 | 154 | 333 | 531 | 347 | 195 | 117 | 136 |
| 17 | 113 | e104 | e98 | e133 | 186 | 152 | 352 | 531 | 330 | 199 | 114 | 134 |
| 18 | 112 | 107 | e102 | e132 | 234 | 149 | 330 | 505 | 323 | 178 | 113 | 134 |
| 19 | 111 | 100 | e107 | e129 | 319 | 141 | 316 | 515 | 301 | 173 | 114 | 134 |
| 20 | 111 | 105 | e111 | e125 | 266 | 139 | 313 | 606 | 293 | 170 | 121 | 137 |
| 21 | 111 | 110 | e113 | e120 | 173 | 137 | 329 | 729 | 281 | 168 | 128 | 140 |
| 22 | 114 | e117 | e113 | e122 | 135 | 138 | 381 | 852 | 265 | 167 | 128 | 141 |
| 23 | 113 | e122 | e112 | e125 | 154 | 138 | 451 | 849 | 257 | 172 | 134 | 143 |
| 24 | 110 | e122 | e108 | e130 | 193 | 144 | 516 | 764 | 243 | 162 | 161 | 143 |
| 25 | 112 | e120 | e103 | e128 | 196 | 149 | 560 | 725 | 239 | 155 | 161 | 153 |
| 26 | 110 | 109 | e100 | e133 | 200 | 154 | 538 | 765 | 232 | 161 | 164 | 192 |
| 27 | 106 | 102 | e99 | e143 | 195 | 161 | 491 | 849 | 223 | 165 | 144 | 174 |
| 28 | 108 | 105 | e100 | e163 | 172 | 172 | 458 | 871 | 221 | 161 | 138 | 176 |
| 29 | 109 | 105 | e102 | e173 | --- | 191 | 451 | 885 | 213 | 147 | 150 | 179 |
| 30 | 109 | 103 | e105 | e178 | --- | 215 | 482 | 835 | 206 | 139 | 159 | 177 |
| 31 | 108 | --- | e108 | e180 | --- | 267 | --- | 804 | --- | 134 | 151 | --- |
| TOTAL | 3592 | 3236 | 3122 | 4059 | 5358 | 5136 | 10807 | 20875 | 12350 | 5332 | 4057 | 4417 |
| MEAN | 116 | 108 | 101 | 131 | 191 | 166 | 360 | 673 | 412 | 172 | 131 | 147 |
| MAX | 137 | 122 | 113 | 180 | 319 | 267 | 560 | 903 | 764 | 199 | 164 | 192 |
| MIN | 106 | 100 | 90 | 111 | 135 | 137 | 281 | 458 | 206 | 134 | 113 | 134 |
| ACFT | 7120 | 6420 | 6190 | 8050 | 10630 | 10190 | 21440 | 41410 | 24500 | 10580 | 8050 | 8760 |
| CAL YR 1985 | TOTAL | 62696 | MEAN | 172 | MAX | 616 | MIN | 84 | ACFT | 124400 | | |
| WTR YR 1986 | TOTAL | 82341 | MEAN | 226 | MAX | 903 | MIN | 90 | ACFT | 163300 | | |

e Estimated.

GREEN RIVER BASIN

91

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 mi².

PERIOD OF RECORD.--May 1964 to September 1986 (discontinued).

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 for estimated daily discharges, which are fair. No diversion above station.

AVERAGE DISCHARGE.--22 years, 4.26 ft³/s, 3,090 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 451 ft³/s Aug. 12, 1983, gage height, 7.45 ft, from rating curve extended above 42 ft³/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 discharges greater than base discharge of 35 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|--------------------------------|------------------|--|------|--------------------------------|------------------|
| July 23 | 2230 | *58 | *3.95 | No other peak greater than base discharge. | | | |

Minimum discharge, 0.37 ft³/s Dec. 31

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|
| 1 | 2.4 | 2.2 | 1.5 | e1.0 | 1.2 | 2.4 | 6.4 | 20 | 13 | 9.2 | 6.7 | 5.6 |
| 2 | 2.5 | 2.2 | 1.5 | 1.1 | 1.2 | 2.4 | 9.1 | 20 | 13 | 9.1 | 6.6 | 5.6 |
| 3 | 2.5 | 2.2 | 1.5 | 1.1 | 1.2 | 2.3 | 9.5 | 20 | 12 | 9.0 | 6.6 | 5.4 |
| 4 | 2.5 | 2.2 | 1.4 | e1.2 | .96 | 2.4 | 9.7 | 21 | 12 | 9.7 | 6.6 | 5.3 |
| 5 | 2.5 | 2.1 | e1.4 | 1.0 | e1.0 | 2.4 | 9.7 | 21 | 14 | 9.4 | 6.5 | 5.2 |
| 6 | 2.5 | 2.1 | 1.4 | e.98 | 1.0 | 2.4 | 9.3 | 23 | 13 | 9.3 | 6.4 | 5.2 |
| 7 | 2.8 | 2.1 | 1.3 | .90 | e.98 | 2.4 | 9.2 | 24 | 12 | 9.2 | 6.4 | 5.2 |
| 8 | 2.7 | 2.1 | 1.3 | e.98 | e.97 | 2.6 | 9.7 | 23 | 12 | 9.3 | 6.5 | 5.3 |
| 9 | 2.8 | 2.1 | 1.3 | e1.0 | e.97 | 2.8 | 9.9 | 21 | 13 | 9.1 | 6.4 | 5.3 |
| 10 | 2.7 | e2.1 | e1.3 | e1.1 | e1.0 | 2.8 | 9.9 | 21 | 12 | 8.9 | 6.2 | 5.2 |
| 11 | 2.6 | 2.1 | e1.2 | 1.1 | e1.0 | 2.8 | 9.9 | 19 | 12 | 8.8 | 6.1 | 5.0 |
| 12 | 2.6 | e2.0 | e1.2 | 1.1 | 1.1 | 2.8 | 10 | 18 | 11 | 8.7 | 6.2 | 4.9 |
| 13 | 2.6 | e1.9 | e1.2 | 1.1 | 1.3 | 2.9 | 11 | 17 | 11 | 8.7 | 6.0 | 4.9 |
| 14 | 2.5 | 2.1 | e1.3 | 1.2 | 1.3 | 3.1 | 11 | 17 | 11 | 8.6 | 5.9 | 4.9 |
| 15 | 2.5 | e1.9 | e1.5 | 1.1 | e1.6 | 2.9 | 11 | 17 | 11 | 9.0 | 5.9 | 4.9 |
| 16 | 2.5 | e1.8 | 1.6 | 1.1 | e2.2 | 3.0 | 12 | 17 | 10 | 9.0 | 5.8 | 4.8 |
| 17 | 2.5 | 1.8 | .89 | 1.1 | e5.0 | 3.3 | 12 | 16 | 10 | 8.9 | 5.7 | 4.8 |
| 18 | 2.4 | e1.8 | 1.0 | 1.1 | e9.0 | 2.9 | 12 | 15 | 10 | 8.7 | 5.6 | 4.9 |
| 19 | 2.4 | e1.6 | 1.1 | 1.1 | e8.0 | 2.9 | 12 | 15 | 10 | 8.6 | 5.6 | 4.8 |
| 20 | 2.4 | e1.4 | 1.1 | 1.1 | 3.5 | 3.0 | 12 | 15 | 10 | 10 | 5.6 | 4.7 |
| 21 | 2.4 | e1.3 | 1.2 | .93 | 2.5 | 3.0 | 12 | 15 | 9.9 | 9.3 | 5.9 | 4.7 |
| 22 | 2.9 | e1.2 | 1.2 | e1.0 | 2.4 | 3.1 | 13 | 15 | 9.8 | 9.6 | 6.2 | 4.6 |
| 23 | 2.5 | e1.2 | 1.2 | 1.1 | 3.0 | 3.1 | 15 | 15 | 9.7 | 12 | 5.8 | 4.9 |
| 24 | 2.4 | 1.2 | 1.2 | e1.1 | 2.8 | 3.2 | 17 | 15 | 9.8 | 9.0 | 5.6 | 6.2 |
| 25 | 2.3 | 1.4 | 1.2 | e1.0 | 2.8 | 3.3 | 18 | 15 | 9.9 | 8.1 | 5.6 | 5.7 |
| 26 | 2.3 | 1.4 | e1.2 | e1.1 | 2.6 | 3.2 | 18 | 14 | 9.7 | 7.8 | 5.5 | 5.1 |
| 27 | 2.3 | 1.4 | 1.1 | 1.1 | 2.5 | 3.2 | 18 | 14 | 9.6 | 7.5 | 5.3 | 5.0 |
| 28 | 2.2 | 1.5 | 1.2 | 1.2 | 2.4 | 3.7 | 19 | 14 | 9.5 | 7.2 | 5.3 | 5.0 |
| 29 | 2.2 | 1.5 | 1.1 | 1.1 | --- | 4.2 | 19 | 14 | 9.5 | 7.0 | 5.4 | 4.9 |
| 30 | 2.2 | 1.5 | 1.1 | 1.1 | --- | 4.5 | 20 | 13 | 9.4 | 6.8 | 6.2 | 4.9 |
| 31 | 2.2 | --- | .93 | 1.2 | --- | 5.3 | --- | 13 | --- | 6.7 | 6.1 | --- |
| TOTAL | 76.8 | 53.4 | 38.62 | 33.39 | 65.48 | 94.3 | 374.3 | 537 | 328.8 | 272.2 | 186.2 | 152.9 |
| MEAN | 2.48 | 1.78 | 1.25 | 1.08 | 2.34 | 3.04 | 12.5 | 17.3 | 11.0 | 8.78 | 6.01 | 5.10 |
| MAX | 2.9 | 2.2 | 1.6 | 1.2 | 9.0 | 5.3 | 20 | 24 | 14 | 12 | 6.7 | 6.2 |
| MIN | 2.2 | 1.2 | .89 | .90 | .96 | 2.3 | 6.4 | 13 | 9.4 | 6.7 | 5.3 | 4.6 |
| ACFT | 152 | 106 | 77 | 66 | 130 | 187 | 742 | 1070 | 652 | 540 | 369 | 303 |

| CAL YR 1985 | TOTAL | 1057.22 | MEAN | 2.90 | MAX | 6.8 | MIN | .89 | ACFT | 2100 |
|-------------|-------|---------|------|------|-----|-----|-----|-----|------|------|
| WTR YR 1986 | TOTAL | 2213.39 | MEAN | 6.06 | MAX | 24 | MIN | .89 | ACFT | 4390 |

e Estimated.

GREEN RIVER BASIN

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 mi².

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 for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--36 years (water years 1943-55, 1964-86), 115 ft³/s, 83,320 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,700 ft³/s June 26, 1944, gage height, 5.27 ft, datum then in use, from rating curve extended above 700 ft³/s; minimum daily recorded, 13 ft³/s Apr. 14, 1933.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| June 4 | 1900 | *1,830 | *5.12 | June 17 | 2100 | 1,170 | 4.40 |

Minimum daily, 23 ft³/s, Feb. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|-------|-------|--------|------|------|
| 1 | 60 | 54 | e39 | e29 | e28 | e35 | e44 | 100 | 1270 | 417 | 137 | 77 |
| 2 | 60 | 56 | e38 | e29 | e27 | e36 | e42 | 134 | 1340 | 373 | 131 | 75 |
| 3 | 59 | 56 | e39 | e29 | e27 | e36 | e41 | 183 | 1360 | 366 | 124 | 74 |
| 4 | 57 | 55 | e38 | e28 | e26 | e36 | e39 | 218 | 1460 | 391 | 119 | 71 |
| 5 | 57 | 55 | e38 | e29 | e28 | e33 | e38 | 167 | 1330 | 334 | 115 | 68 |
| 6 | 57 | 50 | e37 | e30 | e27 | e32 | e42 | 144 | 1310 | 250 | 113 | 67 |
| 7 | 66 | 54 | e37 | e31 | e26 | e35 | e40 | 123 | 1080 | 217 | 125 | 69 |
| 8 | 60 | 55 | e36 | e32 | e25 | e37 | e39 | 109 | 901 | 191 | 153 | 71 |
| 9 | 63 | 51 | e35 | e34 | e24 | e39 | e40 | 100 | 654 | 198 | 152 | 70 |
| 10 | 62 | 42 | e34 | e33 | e23 | e34 | e42 | 92 | 606 | 180 | 136 | 72 |
| 11 | 63 | 55 | e27 | e32 | e24 | e30 | e44 | 89 | 645 | 177 | 128 | 67 |
| 12 | 63 | 56 | e28 | e30 | e25 | e33 | e44 | 88 | 705 | 213 | 123 | 65 |
| 13 | 61 | 67 | e33 | e29 | e27 | e33 | e44 | 94 | 785 | 224 | 117 | 63 |
| 14 | 57 | 66 | e35 | e29 | e28 | e30 | e48 | 98 | 862 | 213 | 113 | 62 |
| 15 | 58 | 63 | e33 | e29 | e29 | e31 | e46 | 103 | 870 | 248 | 110 | 60 |
| 16 | 58 | 51 | e33 | e28 | e28 | e30 | e48 | 98 | 891 | 359 | 106 | 59 |
| 17 | 59 | 48 | e33 | e28 | e28 | e29 | e48 | 95 | 927 | 256 | 101 | 58 |
| 18 | 58 | 48 | e32 | e29 | e30 | e30 | e47 | 106 | 908 | 303 | 97 | 58 |
| 19 | 58 | e46 | e31 | e29 | e29 | e31 | e47 | 147 | 833 | 217 | 97 | 58 |
| 20 | 58 | e44 | e31 | e28 | e30 | e32 | e51 | 231 | 805 | 195 | 106 | 57 |
| 21 | 59 | e43 | e31 | e29 | e31 | e33 | e63 | 324 | 739 | 186 | 117 | 57 |
| 22 | 60 | e41 | e31 | e29 | e35 | e34 | e82 | 360 | 683 | 257 | 97 | 56 |
| 23 | 60 | e39 | e31 | e28 | e40 | e36 | e95 | 317 | 662 | 305 | 92 | 58 |
| 24 | 59 | e40 | e31 | e28 | e37 | e35 | e94 | 355 | 618 | 267 | 89 | 83 |
| 25 | 59 | e42 | e31 | e28 | e33 | e34 | e84 | 456 | 540 | 339 | 88 | 71 |
| 26 | 59 | e44 | e30 | e28 | e32 | e33 | e74 | 629 | 563 | 290 | 84 | 68 |
| 27 | 59 | e42 | e30 | e28 | e32 | e36 | e71 | 756 | 587 | 258 | 82 | 67 |
| 28 | 59 | e38 | e29 | e27 | e33 | e38 | e72 | 813 | 583 | 207 | 82 | 66 |
| 29 | 57 | e40 | e29 | e27 | --- | e41 | e78 | 879 | 533 | 180 | 81 | 65 |
| 30 | 58 | e40 | e29 | e27 | --- | e44 | e88 | 975 | 488 | 162 | 81 | 64 |
| 31 | 57 | --- | e28 | e28 | --- | e48 | --- | 1110 | --- | 148 | 82 | --- |
| TOTAL | 1840 | 1481 | 1017 | 902 | 812 | 1074 | 1675 | 9493 | 25538 | 7921 | 3378 | 1976 |
| MEAN | 59.4 | 49.4 | 32.8 | 29.1 | 29.0 | 34.6 | 55.8 | 306 | 851 | 256 | 109 | 65.9 |
| MAX | 66 | 67 | 39 | 34 | 40 | 48 | 95 | 1110 | 1460 | 417 | 153 | 83 |
| MIN | 57 | 38 | 27 | 27 | 23 | 29 | 38 | 88 | 488 | 148 | 81 | 56 |
| ACFT | 3650 | 2940 | 2020 | 1790 | 1610 | 2130 | 3320 | 18830 | 50650 | 15710 | 6700 | 3920 |
| CAL YR 1985 | TOTAL | 37727 | MEAN | 103 | MAX | 816 | MIN | 20 | ACFT | 74830 | | |
| WTR YR 1986 | TOTAL | 57107 | MEAN | 156 | MAX | 1460 | MIN | 23 | ACFT | 113300 | | |

e Estimated.

GREEN RIVER BASIN

93

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 mi².

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 provided 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, 35,680 acre-ft July 1, elevation, 8,136.9 ft; minimum contents observed, 12,660 acre-ft Nov. 3, elevation, 8,102.2 ft.

MONTHEND ELEVATION, IN FEET, AND INSTANTANEOUS CONTENTS, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| Date | Elevation (feet) | Contents (acre-feet) | Change in contents (acre-feet) |
|-----------------------|---------------------|-------------------------|-----------------------------------|
| Sept. 30 | 8,096.0 | 9,390 | - |
| Oct. 31 | - | *12,380 | +2,990 |
| Nov. 30 | - | *15,020 | +2,640 |
| Dec. 31 | - | *17,800 | +2,780 |
| CAL YR 1985 | - | - | -8,820 |
| Jan. 31 | - | *20,220 | +2,420 |
| Feb. 28 | - | *22,410 | +2,190 |
| Mar. 31 | 8,122.5 | 25,170 | +2,760 |
| Apr. 30 | - | *25,930 | +760 |
| May 31 | - | *21,890 | -4,040 |
| June 30 | - | *35,300 | +13,410 |
| July 31 | - | *34,530 | -770 |
| Aug. 31 | - | *23,940 | -10,590 |
| Sept. 30 | - | *16,590 | -7,350 |
| WTR YR 1986 | - | - | +7,200 |

(*) No gage reading, contents interpolated.

GREEN RIVER BASIN

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 mi².

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 for estimated daily discharges, which are fair. Flow regulated by Moon Lake Reservoir (see station 09290500). No diversion above station.

AVERAGE DISCHARGE.--44 years (1942-86), 130 ft³/s, 94,180 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 2,180 ft³/s June 19, 1949 (gage height, 4.83 ft), from rating curve extended above 860 ft³/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, 1,560 ft³/s June 15, gage height, 4.65 ft; minimum discharge, no flow many days during October - March.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|--------|-----|-----|-----|-----|-----|--------|-------|-------|-------|-------|-------|
| 1 | 77 | .00 | .00 | .00 | .00 | .00 | e2.0 | 297 | 486 | 422 | 423 | 271 |
| 2 | 78 | .00 | .00 | .00 | .00 | .00 | e3.0 | 373 | 541 | 415 | 414 | 271 |
| 3 | 78 | .00 | .00 | .00 | .00 | .00 | e4.5 | 434 | 616 | 366 | 406 | 274 |
| 4 | 59 | .00 | .00 | .00 | .00 | .00 | e8.0 | 389 | 780 | 441 | 398 | 274 |
| 5 | 1.1 | .00 | .00 | .00 | .00 | .00 | e10 | 322 | 954 | 369 | 389 | 273 |
| 6 | .00 | .00 | .00 | .00 | .00 | .00 | e12 | 326 | 1100 | 313 | 382 | 272 |
| 7 | .00 | .00 | .00 | .00 | .00 | .00 | e16 | 329 | 1060 | 278 | 373 | 271 |
| 8 | .00 | .00 | .00 | .00 | .00 | .00 | e18 | 326 | 802 | 261 | 366 | 270 |
| 9 | .00 | .00 | .00 | .00 | .00 | .00 | e19 | 368 | 528 | 276 | 362 | 269 |
| 10 | .00 | .00 | .00 | .00 | .00 | .00 | e20 | 420 | 540 | 260 | 356 | 269 |
| 11 | .00 | .00 | .00 | .00 | .00 | .00 | e22 | 416 | 882 | 211 | 350 | 261 |
| 12 | .00 | .00 | .00 | .00 | .00 | .00 | e22 | 417 | 1020 | 216 | 345 | 254 |
| 13 | .00 | .00 | .00 | .00 | .00 | .00 | e22 | 468 | 1050 | 219 | 340 | 253 |
| 14 | .00 | .00 | .00 | .00 | .00 | .00 | e22 | 524 | 1170 | 215 | 333 | 252 |
| 15 | .00 | .00 | .00 | .00 | .00 | .00 | e21 | 522 | 1210 | 290 | 364 | 244 |
| 16 | .00 | .00 | .00 | .00 | .00 | .00 | e21 | 518 | 1160 | 447 | 380 | 227 |
| 17 | .00 | .00 | .00 | .00 | .00 | .00 | e21 | 514 | 1290 | 326 | 369 | 230 |
| 18 | .00 | .00 | .00 | .00 | .00 | .00 | e21 | 512 | 946 | 365 | 381 | 229 |
| 19 | .00 | .00 | .00 | .00 | .00 | .00 | e21 | 504 | 1050 | 292 | 391 | 229 |
| 20 | .00 | .00 | .00 | .00 | .00 | .00 | e21 | 498 | 933 | 266 | 380 | 228 |
| 21 | .00 | .00 | .00 | .00 | .00 | .00 | e45 | 494 | 852 | 249 | 367 | 227 |
| 22 | .00 | .00 | .00 | .00 | .00 | .00 | 108 | 492 | 758 | 285 | 355 | 227 |
| 23 | .00 | .00 | .00 | .00 | .00 | .00 | 138 | 489 | 712 | 446 | 341 | 226 |
| 24 | .00 | .00 | .00 | .00 | .00 | .00 | 138 | 483 | 674 | 353 | 331 | 208 |
| 25 | .00 | .00 | .00 | .00 | .00 | .00 | 138 | 478 | 535 | 350 | 320 | 129 |
| 26 | .00 | .00 | .00 | .00 | .00 | .00 | 138 | 479 | 568 | 349 | 300 | 103 |
| 27 | .00 | .00 | .00 | .00 | .00 | .00 | 191 | 482 | 594 | 349 | 223 | 103 |
| 28 | .00 | .00 | .00 | .00 | .00 | .00 | 289 | 483 | 588 | 342 | 217 | 103 |
| 29 | .00 | .00 | .00 | .00 | --- | .00 | 294 | 480 | 569 | 336 | 239 | 103 |
| 30 | .00 | .00 | .00 | .00 | --- | .00 | 301 | 478 | 511 | 366 | 271 | 90 |
| 31 | .00 | --- | .00 | .00 | --- | .00 | --- | 482 | --- | 429 | 271 | --- |
| TOTAL | 293.10 | .00 | .00 | .00 | .00 | .00 | 2106.5 | 13797 | 24479 | 10102 | 10737 | 6640 |
| MEAN | 9.45 | .00 | .00 | .00 | .00 | .00 | 70.2 | 445 | 816 | 326 | 346 | 221 |
| MAX | 78 | .00 | .00 | .00 | .00 | .00 | 301 | 524 | 1290 | 447 | 423 | 274 |
| MIN | .00 | .00 | .00 | .00 | .00 | .00 | 2.0 | 297 | 486 | 211 | 217 | 90 |
| ACFT | 581 | .00 | .00 | .00 | .00 | .00 | 4180 | 27370 | 48550 | 20040 | 21300 | 13170 |

CAL YR 1985 TOTAL 50797.02 MEAN 139 MAX 1030 MIN .00 ACFT 100800
WTR YR 1986 TOTAL 68154.60 MEAN 187 MAX 1290 MIN .00 ACFT 135200

e Estimated.

GREEN RIVER BASIN

95

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 mi².

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 for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--42 years, 142 ft³/s, 102,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,240 ft³/s June 19, 1983, gage height, 4.24 ft, maximum gage height, 4.63 ft June 16, 1986; minimum daily, 25 ft³/s Nov. 28, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| June 5 | 0100 | *2,130 | 4.34 | June 16 | 0300 | 1,460 | *4.63 |

Minimum daily discharge, 45 ft³/s Feb. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|-------|-------|--------|-------|------|
| 1 | e86 | 78 | e88 | e63 | e50 | e70 | e125 | 124 | 1410 | 509 | 224 | 180 |
| 2 | e85 | 88 | e86 | e63 | e50 | e71 | e114 | 139 | 1290 | 456 | 221 | 171 |
| 3 | e85 | 88 | e87 | e62 | e52 | e75 | e103 | 153 | 1420 | 426 | 217 | 166 |
| 4 | e82 | 88 | e85 | e64 | e52 | e78 | e92 | 162 | 1420 | 456 | 214 | 157 |
| 5 | e81 | 88 | e84 | e62 | e51 | e76 | e87 | 148 | 1620 | 466 | 201 | 149 |
| 6 | e82 | 86 | e81 | e63 | e48 | e76 | e82 | 142 | 1400 | 365 | 203 | 169 |
| 7 | e110 | 84 | e79 | e63 | e47 | e77 | e85 | 136 | 1360 | 344 | 217 | 169 |
| 8 | e102 | 86 | e77 | e63 | e45 | e81 | e76 | 134 | 1320 | 314 | 258 | 174 |
| 9 | e101 | 84 | e76 | e62 | e46 | e83 | e74 | 133 | 993 | 309 | 225 | 171 |
| 10 | e100 | e78 | e70 | e60 | e49 | e76 | e73 | 132 | 734 | 289 | 208 | 169 |
| 11 | e104 | e84 | e58 | e60 | e50 | e72 | e74 | 133 | 770 | 266 | 195 | 160 |
| 12 | e103 | e88 | e62 | e59 | e51 | e73 | 75 | 135 | 878 | 263 | 192 | 157 |
| 13 | e99 | e92 | e68 | e59 | e52 | e71 | 77 | 135 | 904 | 252 | 186 | 155 |
| 14 | e88 | e96 | e69 | e59 | e54 | e69 | 86 | 139 | 1010 | 245 | 180 | 155 |
| 15 | e91 | e93 | e68 | e58 | e50 | e66 | 81 | 143 | 1120 | 278 | 174 | 152 |
| 16 | e95 | e91 | e68 | e59 | e52 | e62 | 83 | 144 | 1230 | 509 | 169 | 147 |
| 17 | e94 | e91 | e67 | e59 | e55 | e63 | 85 | 144 | 1100 | 441 | 163 | 144 |
| 18 | e92 | e90 | e66 | e60 | e58 | e64 | 86 | 149 | 1060 | 374 | 160 | 142 |
| 19 | e89 | e90 | e65 | e60 | e60 | e65 | 88 | 176 | 1010 | 309 | 166 | 142 |
| 20 | e90 | e89 | e64 | e58 | e65 | e66 | 91 | 241 | 924 | 289 | 179 | 132 |
| 21 | e90 | e87 | e63 | e57 | e72 | e68 | 96 | 295 | 884 | 278 | 240 | 120 |
| 22 | 89 | e87 | e62 | e61 | e77 | e69 | 102 | 336 | 794 | 338 | 199 | 117 |
| 23 | 88 | e84 | e62 | e60 | e81 | e76 | 105 | 331 | 746 | 406 | 186 | 122 |
| 24 | 88 | e88 | e62 | e59 | e77 | e81 | 109 | 360 | 719 | 347 | 180 | 173 |
| 25 | 84 | e90 | e62 | e58 | e74 | e82 | 108 | 424 | 607 | 360 | 171 | 155 |
| 26 | 84 | e91 | e61 | e56 | e73 | e81 | 105 | 538 | 619 | 301 | 183 | 147 |
| 27 | 82 | e89 | e60 | e54 | e72 | e90 | 104 | 730 | 631 | 318 | 191 | 144 |
| 28 | 82 | e86 | e60 | e54 | e71 | e97 | 105 | 859 | 625 | 274 | 195 | 142 |
| 29 | 82 | e88 | e60 | e55 | --- | e107 | 109 | 962 | 619 | 263 | 192 | 139 |
| 30 | 81 | e90 | e60 | e53 | --- | e121 | 116 | 1160 | 571 | 259 | 195 | 139 |
| 31 | 81 | --- | e61 | e52 | --- | e138 | --- | 1120 | --- | 238 | 192 | --- |
| TOTAL | 2790 | 2632 | 2141 | 1835 | 1634 | 2444 | 2796 | 10057 | 29788 | 10542 | 6076 | 4559 |
| MEAN | 90.0 | 87.7 | 69.1 | 59.2 | 58.4 | 78.8 | 93.2 | 324 | 993 | 340 | 196 | 152 |
| MAX | 110 | 96 | 88 | 64 | 81 | 138 | 125 | 1160 | 1620 | 509 | 258 | 180 |
| MIN | 81 | 78 | 58 | 52 | 45 | 62 | 73 | 124 | 571 | 238 | 160 | 117 |
| ACFT | 5530 | 5220 | 4250 | 3640 | 3240 | 4850 | 5550 | 19950 | 59080 | 20910 | 12050 | 9040 |
| CAL YR 1985 | TOTAL | 49681 | MEAN | 136 | MAX | 686 | MIN | 50 | ACFT | 98540 | | |
| WTR YR 1986 | TOTAL | 77294 | MEAN | 212 | MAX | 1620 | MIN | 45 | ACFT | 153300 | | |

e Estimated.

GREEN RIVER BASIN

09295000 DUCHESNE RIVER AT MYTON, UT

LOCATION.--Lat 40°12'01", long 110°03'47", in NE1/4NW1/4 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 mi².

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.--78 years (1899-1902, 1911-86), 521 ft³/s, 377,500 acre-ft/yr.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by several reservoirs. Large diversions above station for irrigation, including transmountain diversions to the Great Basin through Duchesne and Strawberry Tunnels, Hobbie Creek ditch, and Strawberry River and Willow Creek ditch.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 12,800 ft³/s, June 10, 1922, gage height, 7.94 ft site and datum then in use, from rating curve extended above 8,000 ft³/s; maximum gage height, 8.35 ft June 22, 24, 1983; minimum, less than 1 ft³/s July 16, 1931, and for several days in August and September 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,140 ft³/s June 6, gage height, 8.03 ft; minimum daily, 44 ft³/s Oct. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|
| 1 | 133 | 310 | 383 | 373 | e400 | 702 | 608 | 625 | 4250 | 1590 | 156 | 459 |
| 2 | 131 | 306 | 402 | 388 | e380 | 695 | 673 | 716 | 4690 | 1420 | 124 | 449 |
| 3 | 125 | 319 | 403 | 422 | e365 | 638 | 713 | 846 | 5180 | 1220 | 87 | 445 |
| 4 | 125 | 309 | 400 | 412 | e355 | 623 | 619 | 1060 | 5720 | 1010 | 77 | 312 |
| 5 | 128 | 345 | 322 | 420 | 348 | 615 | 582 | 1090 | 5950 | 1040 | 167 | 307 |
| 6 | 131 | 327 | 327 | e410 | 345 | 566 | 558 | 1070 | 6080 | 877 | 161 | 354 |
| 7 | 141 | 283 | 315 | e423 | 344 | 656 | 539 | 1170 | 5890 | 757 | 303 | 373 |
| 8 | 184 | 287 | 329 | e420 | 343 | 675 | 510 | 1140 | 5370 | 686 | 183 | 369 |
| 9 | 190 | 321 | 319 | e412 | 341 | 642 | 501 | 1080 | 4550 | 660 | 163 | 394 |
| 10 | 189 | 338 | e310 | e410 | 327 | 636 | 464 | 1030 | 3430 | 594 | 155 | 388 |
| 11 | 176 | 334 | e325 | e435 | 354 | 639 | 299 | 986 | 3210 | 477 | 145 | 370 |
| 12 | 172 | 373 | e340 | e442 | 375 | 652 | 281 | 931 | 3690 | 405 | 155 | 350 |
| 13 | 176 | 375 | 370 | e435 | 407 | 722 | 300 | 896 | 3970 | 360 | 145 | 337 |
| 14 | 183 | 364 | 392 | e425 | 410 | 791 | 272 | 885 | 4260 | 313 | 101 | 339 |
| 15 | 162 | 378 | 398 | e400 | 422 | 781 | 226 | 876 | 4230 | 257 | 101 | 351 |
| 16 | 76 | 379 | 405 | e440 | 472 | 775 | 218 | 834 | 4490 | 413 | 113 | 334 |
| 17 | 76 | 381 | 423 | e435 | 515 | 782 | 295 | 768 | 4470 | 749 | 132 | 337 |
| 18 | 66 | 387 | 439 | e457 | 621 | 768 | 336 | 750 | 4300 | 457 | 115 | 324 |
| 19 | 58 | 342 | 458 | e442 | 903 | 759 | 282 | 776 | 4060 | 381 | 132 | 340 |
| 20 | 54 | e345 | 480 | e435 | 981 | 752 | 251 | 890 | 3770 | 296 | 143 | 334 |
| 21 | 54 | e365 | 489 | e440 | 778 | 757 | 242 | 1050 | 3600 | 301 | 231 | 329 |
| 22 | 50 | e395 | 483 | e405 | 695 | 760 | 268 | 1390 | 3220 | 302 | 214 | 327 |
| 23 | 46 | 420 | 479 | e440 | 716 | 767 | 372 | 1460 | 2890 | 465 | 176 | 333 |
| 24 | 50 | 438 | 497 | e475 | 808 | 783 | 188 | 1360 | 2740 | 540 | 176 | 377 |
| 25 | 67 | 458 | 488 | e455 | 813 | 791 | 499 | 1310 | 2380 | 455 | 241 | 364 |
| 26 | 44 | 429 | 470 | e440 | 787 | 761 | 510 | 1560 | 2080 | 494 | 236 | 244 |
| 27 | 107 | 391 | 451 | e450 | 778 | 623 | 456 | 2140 | 1990 | 453 | 227 | 292 |
| 28 | 193 | 393 | 454 | e455 | 734 | 511 | 424 | 2720 | 1990 | 381 | 184 | 358 |
| 29 | 253 | 407 | 454 | e465 | --- | 462 | 413 | 2980 | 1930 | 297 | 200 | 336 |
| 30 | 258 | 410 | 438 | e450 | --- | 504 | 238 | 3360 | 1790 | 211 | 189 | 196 |
| 31 | 313 | --- | 413 | e430 | --- | 562 | --- | 3810 | --- | 199 | 216 | --- |
| TOTAL | 4111 | 10909 | 12656 | 13341 | 15117 | 21150 | 12137 | 41559 | 116170 | 18060 | 5148 | 10422 |
| MEAN | 133 | 364 | 408 | 430 | 540 | 682 | 405 | 1341 | 3872 | 583 | 166 | 347 |
| MAX | 313 | 458 | 497 | 475 | 981 | 791 | 713 | 3810 | 6080 | 1590 | 303 | 459 |
| MIN | 44 | 283 | 310 | 373 | 327 | 462 | 188 | 625 | 1790 | 199 | 77 | 196 |
| ACFT | 8150 | 21640 | 25100 | 26460 | 29980 | 41950 | 24070 | 82430 | 230400 | 35820 | 10210 | 20670 |
| CAL YR 1985 | TOTAL | 151445 | MEAN | 415 | MAX | 2590 | MIN | 44 | ACFT | 300400 | | |
| WTR YR 1986 | TOTAL | 280780 | MEAN | 769 | MAX | 6080 | MIN | 44 | ACFT | 556900 | | |

e Estimated.

GREEN RIVER BASIN

97

09299500 WHITEROCKS RIVER NEAR WHITEROCKS, UT

LOCATION.--Lat 40°35'13", long 109°55'37", in SE1/4NE1/4NW1/4 sec.7, T.2 N., R.1 E., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, on left bank, 3.2 mi upstream from U.S. Forest Boundary, and 9.6 mi north-east of Whiterocks.

DRAINAGE AREA.--110 mi².

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 7,160 ft from topographic map. Prior to Oct. 16, 1930, non-recording gages at several sites within 2 mi of present site at various datums. Oct. 16, 1930 to Nov. 26, 1984, water-stage recorder at various sites and datums about 3 mi downstream.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow slightly regulated by small mountain lakes.

AVERAGE DISCHARGE.--79 years (water years 1900-03, 1909-10, 1913-86), 124 ft³/s, 89,840 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,640 ft³/s, June 22, 1983, gage height, 5.28 ft, from rating curve extended above 2,000 ft³/s, site and datum then in use; minimum recorded, 9.2 ft³/s Apr. 3, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|--|------|-----------------------------------|---------------------|
| June 2 | 2200 | *1,950 | *6.35 | No other peak greater than base discharge. | | | |

Minimum daily discharge, 24 ft³/s, Jan. 22, Feb. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|-------|-------|--------|------|------|
| 1 | 78 | 51 | 48 | e29 | e28 | 33 | 79 | 135 | 1560 | 249 | 120 | 139 |
| 2 | 75 | 54 | 47 | e28 | e27 | 36 | 81 | 195 | 1620 | 239 | 115 | 149 |
| 3 | 66 | 53 | 46 | e27 | e26 | 37 | 66 | 301 | 1310 | 228 | 123 | 141 |
| 4 | 62 | 53 | 43 | e26 | e26 | 39 | 63 | 401 | 1360 | 237 | 140 | 117 |
| 5 | 60 | 54 | 44 | e27 | e26 | 40 | 60 | 299 | 1430 | 258 | 135 | 112 |
| 6 | 60 | 47 | 42 | e27 | e27 | 39 | 56 | 262 | 1260 | 240 | 151 | 104 |
| 7 | 71 | 46 | 42 | e26 | e26 | 40 | 58 | 224 | 1050 | 240 | 159 | 100 |
| 8 | 74 | 51 | 41 | e26 | e26 | 41 | 56 | 197 | 984 | 227 | 152 | 106 |
| 9 | 67 | 43 | 41 | e26 | e25 | 45 | 55 | 174 | 900 | 219 | 151 | 119 |
| 10 | 66 | 40 | 32 | e26 | e24 | 41 | 55 | 156 | 789 | 203 | 146 | 113 |
| 11 | 70 | 45 | e28 | e27 | e25 | 38 | 57 | 146 | 682 | 195 | 141 | 100 |
| 12 | 72 | 49 | e27 | e26 | e26 | 39 | 57 | 143 | 668 | 187 | 140 | 94 |
| 13 | 79 | 49 | e28 | e25 | e33 | 34 | 58 | 155 | 680 | 179 | 140 | 89 |
| 14 | 65 | 58 | e29 | e25 | e38 | 34 | 56 | 171 | 668 | 176 | 173 | 90 |
| 15 | 60 | 61 | e30 | e26 | 41 | 34 | 58 | 174 | 658 | 180 | 173 | 87 |
| 16 | 59 | 61 | e29 | e27 | 42 | 31 | 63 | 162 | 628 | 218 | 172 | 82 |
| 17 | 58 | 58 | e29 | e26 | 43 | 34 | 62 | 147 | 588 | 210 | 170 | 78 |
| 18 | 57 | 51 | e29 | e26 | 60 | 32 | 58 | 154 | 555 | 179 | 167 | 77 |
| 19 | 54 | 47 | e29 | e26 | 68 | 34 | 55 | 242 | 528 | 169 | 165 | 78 |
| 20 | 53 | 52 | e30 | e27 | 54 | 32 | 57 | 426 | 503 | 175 | 168 | 77 |
| 21 | 52 | 54 | e29 | e26 | 41 | 33 | 76 | 579 | 454 | 170 | 192 | 72 |
| 22 | 63 | 52 | e28 | e24 | 38 | 38 | 115 | 637 | 405 | 183 | 174 | 69 |
| 23 | 61 | 55 | e29 | e25 | 37 | 40 | 134 | 608 | 370 | 179 | 175 | 69 |
| 24 | 61 | 64 | e30 | e26 | 32 | 43 | 136 | 663 | 348 | 167 | 168 | 133 |
| 25 | 61 | 59 | e29 | e26 | 34 | 44 | 128 | 832 | 333 | 182 | 164 | 121 |
| 26 | 60 | 57 | e31 | e26 | 36 | 41 | 110 | 1000 | 303 | 171 | 161 | 107 |
| 27 | 61 | 53 | e27 | e27 | 35 | 44 | 97 | 1100 | 279 | 158 | 149 | 100 |
| 28 | 63 | 51 | e28 | e27 | 33 | 51 | 90 | 1060 | 273 | 148 | 136 | 99 |
| 29 | 60 | 56 | e28 | e27 | --- | 60 | 88 | 1190 | 270 | 133 | 149 | 93 |
| 30 | 60 | 51 | e29 | e28 | --- | 68 | 101 | 1290 | 265 | 128 | 153 | 93 |
| 31 | 59 | --- | e30 | e29 | --- | 75 | --- | 1400 | --- | 125 | 144 | --- |
| TOTAL | 1967 | 1575 | 1032 | 820 | 977 | 1270 | 2285 | 14623 | 21721 | 5952 | 4766 | 3008 |
| MEAN | 63.5 | 52.5 | 33.3 | 26.5 | 34.9 | 41.0 | 76.2 | 472 | 724 | 192 | 154 | 100 |
| MAX | 79 | 64 | 48 | 29 | 68 | 75 | 136 | 1400 | 1620 | 258 | 192 | 149 |
| MIN | 52 | 40 | 27 | 24 | 24 | 31 | 55 | 135 | 265 | 125 | 115 | 69 |
| ACFT | 3900 | 3120 | 2050 | 1630 | 1940 | 2520 | 4530 | 29000 | 43080 | 11810 | 9450 | 5970 |
| CAL YR 1985 | TOTAL | 41353 | MEAN | 113 | MAX | 548 | MIN | 21 | ACFT | 82020 | | |
| WTR YR 1986 | TOTAL | 59996 | MEAN | 164 | MAX | 1620 | MIN | 24 | ACFT | 119000 | | |

e Estimated.

GREEN RIVER BASIN

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 mi².

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 except for estimated daily discharges, which are poor. Flow regulated by several reservoirs. Large diversions above station for irrigation, including transmountain diversions to the Great Basin through Duchesne and Strawberry Tunnels, Hobbie Creek ditch, Strawberry River, and Willow Creek Ditch.

AVERAGE DISCHARGE.--44 years, 611 ft³/s, 442,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 11,500 ft³/s June 20, 1983; maximum gage height, 10.22 ft June 5, 1986; minimum, 2.2 ft³/s Aug. 12, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,670 ft³/s June 5, gage height, 10.22 ft; minimum daily, 130 ft³/s Aug. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|
| 1 | 250 | 415 | 513 | e440 | e500 | 909 | 728 | 633 | e7400 | 2260 | 215 | e500 |
| 2 | 256 | 412 | 526 | e470 | e460 | 881 | 868 | 855 | 8610 | 2110 | e185 | e500 |
| 3 | 249 | 422 | 538 | e460 | e430 | 840 | 1090 | 1060 | 8980 | e2000 | e155 | e450 |
| 4 | 247 | 417 | 537 | e450 | e400 | 800 | 906 | 1300 | 9090 | e1780 | e130 | e380 |
| 5 | 254 | 446 | 510 | e450 | e390 | 794 | 840 | 1410 | 9400 | e1450 | e185 | e350 |
| 6 | 255 | 470 | 511 | e450 | e380 | 742 | 748 | 1290 | 8650 | e1100 | e180 | e410 |
| 7 | 266 | 413 | 502 | e450 | e380 | 794 | 734 | 1450 | 7500 | e940 | e306 | e410 |
| 8 | 310 | 405 | 509 | e450 | e370 | 800 | 698 | 1560 | 6860 | 847 | 263 | e420 |
| 9 | 357 | 430 | 520 | e450 | e380 | 774 | 715 | 1530 | e6200 | 827 | e220 | e480 |
| 10 | 353 | e440 | 595 | e470 | e390 | 768 | 726 | 1470 | e5400 | 710 | e195 | e550 |
| 11 | 352 | 438 | e580 | e480 | e410 | 774 | 520 | 1350 | e4900 | 551 | e230 | e540 |
| 12 | 342 | 468 | e490 | e470 | e430 | 781 | 505 | 1250 | 5230 | 375 | e249 | e450 |
| 13 | 342 | 487 | e490 | e470 | e470 | 800 | 463 | 1180 | 5530 | 355 | e206 | e425 |
| 14 | 369 | 466 | e490 | e460 | e520 | 868 | 509 | 1150 | 5460 | 291 | e160 | e445 |
| 15 | 348 | 482 | e500 | e470 | e600 | 888 | 408 | 1140 | 5490 | 228 | e148 | e490 |
| 16 | 322 | 485 | e520 | e480 | e800 | 854 | 413 | 1120 | 5520 | 340 | e163 | e450 |
| 17 | 270 | 491 | e530 | e500 | e1000 | 874 | 559 | 1080 | 5470 | 1030 | e180 | e440 |
| 18 | 255 | 508 | e540 | e500 | e1500 | 854 | 647 | 1030 | 5440 | 690 | e160 | e460 |
| 19 | 241 | 481 | e540 | e500 | e1900 | 847 | 579 | 1030 | 5140 | 493 | e200 | e465 |
| 20 | 236 | 468 | e540 | e490 | 1580 | 827 | 528 | 1120 | 4960 | 375 | e245 | e460 |
| 21 | 224 | 535 | e540 | e480 | 1190 | 814 | 488 | 1310 | 4700 | 375 | e290 | e460 |
| 22 | 213 | 531 | e520 | e470 | 1010 | 800 | 462 | 1630 | 4410 | 422 | e240 | e460 |
| 23 | 195 | 538 | e540 | e500 | 1020 | 807 | 551 | 1800 | 3950 | 562 | e220 | 472 |
| 24 | 178 | 518 | e580 | e520 | 1080 | 814 | 504 | 1690 | 3700 | 936 | e250 | 553 |
| 25 | 189 | 541 | e540 | e500 | 1080 | 814 | 635 | 1730 | 3370 | 754 | e300 | 784 |
| 26 | 183 | 550 | e530 | e500 | 1040 | 781 | 774 | 2020 | 3020 | 868 | e285 | 721 |
| 27 | 192 | 528 | e520 | e510 | 1010 | 678 | 737 | e2400 | 2770 | 781 | e275 | 505 |
| 28 | 295 | 514 | e510 | e520 | 958 | 659 | 665 | e3200 | 2720 | 729 | e240 | 568 |
| 29 | 350 | 529 | e490 | e540 | --- | 608 | 624 | e4400 | 2650 | 533 | e240 | 557 |
| 30 | 364 | 536 | e480 | e540 | --- | 655 | 511 | e4700 | 2520 | 365 | e260 | 423 |
| 31 | 404 | --- | e460 | e540 | --- | 743 | --- | e5600 | --- | 268 | e335 | --- |
| TOTAL | 8661 | 14364 | 16191 | 14980 | 21678 | 24642 | 19135 | 54488 | 165040 | 25345 | 6910 | 14578 |
| MEAN | 279 | 479 | 522 | 483 | 774 | 795 | 638 | 1758 | 5501 | 818 | 223 | 486 |
| MAX | 404 | 550 | 595 | 540 | 1900 | 909 | 1090 | 5600 | 9400 | 2260 | 335 | 784 |
| MIN | 178 | 405 | 460 | 440 | 370 | 608 | 408 | 633 | 2520 | 228 | 130 | 350 |
| ACFT | 17180 | 28490 | 32110 | 29710 | 43000 | 48880 | 37950 | 108100 | 327400 | 50270 | 13710 | 28920 |

CAL YR 1985 TOTAL 202152 MEAN 554 MAX 2630 MIN 99 ACFT 401000
WTR YR 1986 TOTAL 386012 MEAN 1058 MAX 9400 MIN 130 ACFT 765700

e Estimated.

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 microsiemens Aug. 24, 1960; minimum observed, 225 microsiemens 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 observed, 2,000 microsiemens Sept. 30; minimum observed, 260 microsiemens June 2, 9.

WATER TEMPERATURES: Maximum observed, 26.0°C July 25; minimum observed, 0.0°C many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | PH (STAND- ARD UNITS) | TEMPER- ATURE, AIR (DEG C) | TEMPER- ATURE (DEG C) | OXYGEN, DIS- SOLVED (MG/L) | BARO- METRIC PRES- SURE (MM OF HG) | HARD- NESS (MG/L AS CACO3) | HARD- NESS NONCAR- BONATE (MG/L AS CACO3) | HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3 |
|----------|------|---|---|--------------------------------|-------------------------------------|-----------------------------|-------------------------------------|--|--|---|---|
| NOV 1985 | | | | | | | | | | | |
| 01... | 1000 | 436 | 1110 | 8.50 | -3.0 | 7.0 | 9.7 | 630 | 380 | 383 | 150 |
| 22... | 0930 | 387 | 990 | 8.50 | -12.0 | 0.0 | 12.5 | 640 | 350 | 349 | 120 |
| JAN 1986 | | | | | | | | | | | |
| 17... | 0900 | e500 | 750 | 8.20 | -7.0 | 0.0 | 11.6 | 650 | 280 | 279 | 90 |
| FEB | | | | | | | | | | | |
| 13... | 1230 | 195 | 820 | 8.30 | 1.0 | 0.0 | 12.9 | 637 | 310 | 306 | 74 |
| MAR | | | | | | | | | | | |
| 28... | 0945 | 675 | 780 | 8.50 | 20.0 | 9.5 | 10.9 | 649 | 280 | 281 | 80 |
| APR | | | | | | | | | | | |
| 24... | 1045 | 557 | 890 | 8.40 | 17.5 | 13.0 | 9.5 | 635 | 300 | 304 | 110 |
| MAY | | | | | | | | | | | |
| 23... | 0900 | 1810 | 510 | 8.40 | 12.0 | 10.5 | 10.4 | 645 | 180 | 178 | 34 |
| JUN | | | | | | | | | | | |
| 02... | 1300 | 8990 | 260 | 8.20 | 26.5 | 14.5 | 9.9 | 640 | 91 | 91 | 6 |
| JUL | | | | | | | | | | | |
| 07... | 1310 | 920 | 700 | 8.30 | 22.5 | 19.0 | 8.0 | 645 | 220 | 224 | 67 |
| AUG | | | | | | | | | | | |
| 11... | 1300 | 273 | 1320 | 8.50 | 33.0 | 22.5 | 8.9 | 644 | 420 | 417 | 170 |
| SEP | | | | | | | | | | | |
| 22... | 1130 | 470 | 1160 | 8.40 | 23.5 | 14.5 | 9.1 | 640 | 390 | 394 | 150 |

| 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) |
|----------|--|--|--|-------------------|---|---|---|---|---|--|
| NOV 1985 | | | | | | | | | | |
| 01... | 81 | 44 | 93 | 34 | 2 | 2.2 | 235 | 300 | 39 | 0.5 |
| 22... | 74 | 40 | 79 | 33 | 2 | 2.0 | 226 | 250 | 31 | 0.4 |
| JAN 1986 | | | | | | | | | | |
| 17... | 59 | 32 | 57 | 31 | 2 | 1.7 | 189 | 170 | 25 | 0.4 |
| FEB | | | | | | | | | | |
| 13... | 65 | 35 | 62 | 30 | 2 | 1.9 | 232 | 190 | 25 | 0.4 |
| MAR | | | | | | | | | | |
| 28... | 58 | 33 | 66 | 34 | 2 | 1.8 | 201 | 170 | 27 | 0.4 |
| APR | | | | | | | | | | |
| 24... | 64 | 35 | 75 | 35 | 2 | 2.1 | 193 | 230 | 33 | 0.4 |
| MAY | | | | | | | | | | |
| 23... | 40 | 19 | 38 | 31 | 1 | 1.9 | 144 | 110 | 13 | 0.2 |
| JUN | | | | | | | | | | |
| 02... | 22 | 8.8 | 15 | 26 | 0.7 | 2.7 | 85 | 47 | 10 | 0.1 |
| JUL | | | | | | | | | | |
| 07... | 50 | 24 | 54 | 34 | 2 | 1.9 | 157 | 160 | 20 | 0.3 |
| AUG | | | | | | | | | | |
| 11... | 88 | 48 | 130 | 40 | 3 | 3.4 | 246 | 380 | 56 | 0.6 |
| SEP | | | | | | | | | | |
| 22... | 82 | 46 | 110 | 38 | 2 | 2.8 | 248 | 300 | 47 | 0.5 |

e Estimated.

GREEN RIVER BASIN

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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) |
|----------|---|--|---|---|---|---|---|---|--|---|
| NOV 1985 | | | | | | | | | | |
| 01... | 10 | 777 | 710 | 1.1 | 915 | <0.10 | 0.05 | 0.06 | <0.04 | -- |
| 22... | 10 | 634 | 620 | 0.86 | 662 | 0.26 | 0.04 | 0.05 | 0.01 | 0.03 |
| JAN 1986 | | | | | | | | | | |
| 17... | 9.5 | 478 | 470 | 0.65 | -- | 0.26 | 0.05 | 0.06 | 0.01 | 0.03 |
| FEB | | | | | | | | | | |
| 13... | 9.2 | 531 | 530 | 0.72 | 280 | 0.18 | 0.06 | 0.08 | <0.01 | -- |
| MAR | | | | | | | | | | |
| 28... | 8.3 | 508 | 490 | 0.69 | 926 | <0.10 | 0.03 | 0.04 | <0.01 | -- |
| APR | | | | | | | | | | |
| 24... | 9.0 | 583 | 560 | 0.79 | 877 | <0.10 | 0.04 | 0.05 | <0.01 | -- |
| MAY | | | | | | | | | | |
| 23... | 7.7 | 321 | 320 | 0.44 | 1570 | 0.12 | 0.04 | 0.05 | <0.01 | -- |
| JUN | | | | | | | | | | |
| 02... | 5.6 | 164 | 160 | 0.22 | 3980 | <0.10 | 0.06 | 0.08 | -- | -- |
| JUL | | | | | | | | | | |
| 07... | 8.5 | 430 | 410 | 0.58 | 1070 | <0.10 | 0.02 | 0.03 | 0.01 | 0.03 |
| AUG | | | | | | | | | | |
| 11... | 12 | 907 | 870 | 1.2 | 669 | <0.10 | <0.05 | -- | 0.19 | 0.58 |
| SEP | | | | | | | | | | |
| 22... | 12 | 730 | 750 | 0.99 | 926 | <0.10 | 0.05 | 0.06 | 0.02 | 0.06 |

| DATE | TIME | BORON, DIS- SOLVED (UG/L AS B) |
|----------|------|--|
| NOV 1985 | | |
| 01... | 1000 | 510 |
| 22... | 0930 | 460 |
| JAN 1986 | | |
| 17... | 0900 | 260 |
| FEB | | |
| 13... | 1230 | 430 |
| MAR | | |
| 28... | 0945 | 340 |
| APR | | |
| 24... | 1045 | 320 |
| MAY | | |
| 23... | 0900 | 220 |
| JUN | | |
| 02... | 1300 | 50 |
| JUL | | |
| 07... | 1310 | 270 |
| AUG | | |
| 11... | 1300 | 590 |
| SEP | | |
| 22... | 1130 | 450 |

09302000 DUCHESNE RIVER NEAR RANDETT, UT--Continued

SPECIFIC CONDUCTANCE (US/CM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
ONCE-DAILY

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|------|------|------|-----|-----|-----|------|------|-----|------|------|------|
| 1 | 1520 | 1100 | 950 | 700 | 710 | 850 | --- | 1060 | 460 | 560 | 1060 | 1150 |
| 2 | 1540 | 1040 | --- | --- | --- | 860 | 850 | --- | 260 | 570 | 1190 | 1060 |
| 3 | 1520 | 1080 | 900 | 790 | 750 | 890 | --- | 660 | 310 | --- | 1190 | 1040 |
| 4 | 1550 | 1130 | 950 | 780 | --- | 860 | 850 | 670 | 320 | --- | 1280 | 1100 |
| 5 | 1520 | --- | 960 | 820 | 760 | 880 | 850 | 780 | 275 | --- | --- | 1050 |
| 6 | 1500 | 1020 | 950 | 760 | 780 | 900 | 820 | --- | 310 | --- | --- | --- |
| 7 | 1530 | 1080 | --- | 750 | 800 | --- | --- | --- | 415 | 700 | 1140 | --- |
| 8 | 1540 | 1060 | 1040 | 780 | 800 | 850 | 830 | --- | 415 | --- | 1150 | 1050 |
| 9 | 1670 | 1090 | 890 | 770 | 800 | 900 | 760 | 920 | 370 | --- | 1130 | --- |
| 10 | 1380 | 1090 | 860 | 760 | 840 | 880 | 950 | 870 | 350 | --- | 1180 | --- |
| 11 | 1430 | 1080 | 870 | 690 | --- | 880 | --- | 930 | 365 | 840 | 1190 | 1070 |
| 12 | 1270 | --- | 870 | --- | --- | 920 | 970 | 940 | --- | 810 | --- | --- |
| 13 | --- | 1010 | 850 | 760 | 740 | 880 | 1000 | 930 | --- | --- | 1270 | --- |
| 14 | 1320 | 980 | 850 | 780 | --- | --- | 990 | 940 | --- | --- | 1240 | 1000 |
| 15 | 1300 | 940 | 820 | --- | --- | 980 | 990 | 950 | --- | 990 | --- | --- |
| 16 | 1320 | 960 | 810 | 760 | 870 | 910 | 1490 | 930 | 340 | 1200 | --- | 980 |
| 17 | 1460 | 980 | --- | 740 | 870 | 880 | 1490 | 1060 | 305 | 800 | --- | 1040 |
| 18 | 1500 | 1020 | --- | 760 | 920 | 860 | 1250 | 1090 | 285 | 870 | 1300 | 1090 |
| 19 | --- | --- | --- | 740 | 800 | --- | --- | 1080 | 260 | 970 | 1290 | 1190 |
| 20 | --- | --- | 850 | 780 | 810 | 880 | 1190 | 970 | 320 | 960 | 1270 | 1080 |
| 21 | 1680 | 1080 | 800 | 780 | 780 | 880 | 1100 | --- | 325 | --- | --- | 970 |
| 22 | 1740 | 950 | 810 | 840 | 820 | 860 | 1100 | --- | 350 | --- | --- | 1040 |
| 23 | 1890 | 1120 | 810 | 840 | 820 | --- | 1050 | 510 | 355 | 950 | 1230 | 1010 |
| 24 | --- | 940 | 790 | 800 | 830 | 830 | 960 | --- | 910 | 970 | 1220 | 1110 |
| 25 | 1990 | 930 | --- | 810 | 800 | 760 | 860 | 370 | --- | 950 | 1190 | 1330 |
| 26 | --- | 880 | 830 | 840 | --- | 740 | 860 | 390 | 540 | 940 | 1160 | 1250 |
| 27 | 1800 | 880 | 820 | 780 | 830 | 800 | 910 | 325 | 520 | 930 | 1120 | 1280 |
| 28 | 1800 | 890 | 830 | 780 | 830 | 810 | 920 | 315 | --- | 870 | 1150 | 1070 |
| 29 | 1220 | 880 | 830 | 720 | --- | 780 | 930 | --- | 510 | 870 | 1210 | 1090 |
| 30 | 1230 | 920 | 820 | 700 | --- | 680 | 1020 | --- | 520 | 950 | 1220 | 2000 |
| 31 | 1260 | --- | 800 | 710 | --- | 680 | --- | --- | --- | 1020 | 1120 | --- |
| MEAN | 1520 | 1000 | 860 | 770 | --- | 850 | 1000 | --- | 400 | --- | --- | --- |

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
ONCE-DAILY

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

GREEN RIVER BASIN

09302000 DUCHESNE RIVER NEAR RANDETT, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) |
|----------|------|---|-----------------------------|--|---|---|
| NOV 1985 | | | | | | |
| 01... | 1000 | 436 | 7.0 | -- | 146 | 172 |
| 22... | 0930 | 387 | 0.0 | -- | 139 | 145 |
| DEC | | | | | | |
| 20... | 0830 | 592 | 0.0 | -- | 38 | 61 |
| JAN 1986 | | | | | | |
| 17... | 0900 | e500 | 0.0 | -- | 55 | 74 |
| FEB | | | | | | |
| 13... | 1230 | 195 | 0.0 | -- | 43 | 23 |
| MAR | | | | | | |
| 28... | 0945 | 675 | 9.5 | -- | 128 | 233 |
| APR | | | | | | |
| 24... | 1045 | 557 | 13.0 | -- | 118 | 177 |
| MAY | | | | | | |
| 23... | 0900 | 1810 | 10.5 | 59 | 1140 | 5570 |
| JUN | | | | | | |
| 02... | 1300 | 8990 | 14.5 | 78 | 1150 | 27900 |
| JUL | | | | | | |
| 07... | 1310 | 920 | 19.0 | 56 | 151 | 375 |
| AUG | | | | | | |
| 11... | 1300 | 273 | 22.5 | -- | 41 | 30 |
| SEP | | | | | | |
| 22... | 1130 | 470 | 14.5 | -- | 64 | 81 |

e Estimated.

09306500 WHITE RIVER NEAR WATSON, UTAH

LOCATION.--Lat 39°58'46", long 109°10'41", in SE1/4SW1/4NE1/4 sec. 2, T.10 S., R.24 E., Uintah County, Hydrologic Unit 14050007, on right bank 350 ft downstream from bridge on State Highway 45, 1 mi downstream from Evacuation Creek, and 7 mi north of Watson.

DRAINAGE AREA.--4,020 mi², approximately.

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--April 1904 to October 1906 (no winter records), May to November 1918, April 1923 to September, 1979, October 1985 to September 1986. Monthly discharge only for some periods, published in WSP 1313. Published as "near Dragon" 1906 and "near Rangely, Colo." 1904-1905, 1918.

GAGE.--Water-stage recorder. Datum of gage is 4,946.78 ft above National Geodetic Vertical Datum of 1929. See WSP 1733 for history of changes prior to Oct. 27, 1959.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 31,900 acres above station.

AVERAGE DISCHARGE.--57 years (1923-79, 1986) 704 ft³/s, 510,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 8,160 ft³/s July 15, 1929; maximum gage height, 13.1 ft Feb. 11, 1962, from floodmark in well (backwater from ice); minimum, 11 ft³/s Dec. 6, 1972, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,900 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|---------|--------------------------------|------------------|---------|------|--------------------------------|------------------|
| Feb. 18 | unknown | *4,490 | *7.00 | June 10 | 1600 | 4,200 | 6.53 |
| May 6 | 0815 | 3,470 | 5.87 | July 6 | 2000 | 2,980 | 5.34 |

Minimum daily discharge, 210 ft³/s Dec. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|
| 1 | 631 | 737 | e540 | e400 | e920 | 678 | 1020 | 1600 | 3110 | 2130 | 880 | 585 |
| 2 | 614 | 739 | e560 | e380 | e980 | 641 | 1200 | 1820 | 3200 | 2040 | 876 | 585 |
| 3 | 608 | 697 | e590 | e360 | e970 | 629 | 1410 | 2110 | 3250 | 1950 | 861 | 580 |
| 4 | 608 | 696 | e480 | e355 | e930 | 639 | 1450 | 2520 | 3190 | 1790 | 853 | 582 |
| 5 | 591 | 690 | e410 | e350 | e900 | 634 | 1360 | 2990 | 3400 | 1880 | 842 | 589 |
| 6 | 597 | 696 | e420 | e410 | e920 | 638 | 1320 | 3330 | 3580 | 2260 | 844 | 634 |
| 7 | 625 | 720 | e450 | e365 | e890 | 675 | 1240 | 3010 | 3760 | 2480 | 875 | 651 |
| 8 | 678 | 690 | e450 | e350 | e850 | 682 | 1190 | 2770 | 3880 | 2010 | 845 | 693 |
| 9 | 844 | 708 | e380 | e350 | e820 | 720 | 1180 | 2500 | 3900 | 1800 | 844 | 660 |
| 10 | 909 | 775 | e320 | e380 | e800 | 728 | 1180 | 2330 | 4090 | 1760 | 766 | 711 |
| 11 | 1130 | 720 | e270 | e360 | e970 | 864 | 1220 | 2180 | 3740 | 1800 | 747 | 696 |
| 12 | 1010 | 787 | e230 | e350 | e930 | 907 | 1240 | 2020 | 3150 | 1630 | 795 | 671 |
| 13 | 1230 | 922 | e210 | e350 | e1170 | 839 | 1250 | 1980 | 2930 | 1470 | 742 | 656 |
| 14 | 1160 | 851 | e255 | e350 | e1500 | 787 | 1280 | 1920 | 2980 | 1390 | 754 | 649 |
| 15 | 1160 | 708 | e290 | e450 | e2150 | 803 | 1290 | 1970 | 2930 | 1370 | 725 | 645 |
| 16 | 1130 | 684 | e305 | e530 | e2300 | 794 | 1210 | 2070 | 2900 | 1400 | 726 | 646 |
| 17 | 744 | 702 | e310 | 585 | e3000 | 795 | 1220 | 2060 | 2970 | 1480 | 716 | 633 |
| 18 | 708 | 750 | e300 | 597 | e4400 | 756 | 1300 | 1950 | 2990 | 1480 | 717 | 642 |
| 19 | 708 | 762 | e290 | 622 | e3500 | 710 | 1330 | 1900 | 3030 | 1380 | 712 | 668 |
| 20 | 708 | 640 | e340 | 706 | 2540 | 672 | 1290 | 1960 | 3060 | 1330 | 727 | 654 |
| 21 | 708 | 568 | e325 | 770 | 2170 | 635 | 1230 | 2170 | 2960 | 1290 | 1010 | 647 |
| 22 | 714 | 587 | e330 | 801 | 1210 | e630 | 1200 | 2480 | 2870 | 1250 | 680 | 640 |
| 23 | 714 | 559 | e350 | 814 | 915 | e670 | 1220 | 2910 | 2760 | 1230 | 603 | 640 |
| 24 | 702 | 588 | e375 | e810 | 835 | e720 | 1410 | 2930 | 2670 | 1260 | 667 | 627 |
| 25 | 637 | e580 | e380 | e800 | 792 | e682 | 1650 | 2780 | 2530 | 1230 | 989 | 629 |
| 26 | 466 | e560 | e400 | e760 | 772 | 685 | 1820 | 2780 | 2430 | 1220 | 574 | 650 |
| 27 | 625 | e550 | e310 | e770 | 747 | 689 | 1870 | 2910 | 2500 | 1160 | 571 | 624 |
| 28 | 672 | e550 | e360 | e800 | 719 | 700 | 1790 | 3070 | 2430 | 1100 | 566 | 644 |
| 29 | 684 | e540 | e350 | e840 | --- | 626 | 1690 | 3220 | 2290 | 999 | 568 | 632 |
| 30 | 806 | e520 | e360 | e920 | --- | 799 | 1590 | 3240 | 2220 | 986 | 586 | 673 |
| 31 | 524 | --- | e470 | e960 | --- | 913 | --- | 3150 | --- | 904 | 601 | --- |
| TOTAL | 23645 | 20276 | 11410 | 17645 | 39600 | 22340 | 40650 | 76630 | 91700 | 47459 | 23262 | 19236 |
| MEAN | 763 | 676 | 368 | 569 | 1414 | 721 | 1355 | 2472 | 3057 | 1531 | 750 | 641 |
| MAX | 1230 | 922 | 590 | 960 | 4400 | 913 | 1870 | 3330 | 4090 | 2480 | 1010 | 711 |
| MIN | 466 | 520 | 210 | 350 | 719 | 626 | 1020 | 1600 | 2220 | 904 | 566 | 580 |
| ACFT | 46900 | 40220 | 22630 | 35000 | 78550 | 44310 | 80630 | 152000 | 181900 | 94130 | 46140 | 38150 |

WTR YR 1986 TOTAL 433853 MEAN 1189 MAX 4400 MIN 210 ACFT 860500

e Estimated.

GREEN RIVER BASIN

09306500 WHITE RIVER NEAR WATSON, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1950 to September 1979, October 1985 to September 1986.

SPECIFIC CONDUCTANCE: December 1950 to September 1979, once-daily.

WATER TEMPERATURES: December 1950 to September 1979, once-daily.

SEDIMENT DATA: October 1976 to June 1979, October 1985 to September 1986, once-daily.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 4,450 microsiemens Aug. 4, 1955; minimum daily, 266 microsiemens June 1, 1976.

WATER TEMPERATURES: Maximum recorded, 33.0°C July 15, 1977; minimum, 0.0°C many days during winter period.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Although instrumentation was operated, continual malfunction rendered data unusable.

WATER TEMPERATURES: Although instrumentation was operated, continual malfunction rendered data unusable.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 14,800 mg/L Aug. 25; minimum daily mean, 41 mg/L Oct. 7.

SEDIMENT LOADS: Maximum daily, 47,500 tons Feb. 18; minimum daily, 28 tons Dec. 13.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | PH (STAND- ARD UNITS) | TEMPER- ATURE, AIR (DEG C) | TEMPER- ATURE (DEG C) | OXYGEN, DIS- SOLVED (MG/L) | BARO- METRIC PRES- SURE (MM OF HG) | HARD- NESS (MG/L AS CAC03) | HARD- NESS NONCAR- BONATE (MG/L AS CAC03) | HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CAC03 |
|----------|------|---|---|--------------------------------|-------------------------------------|-----------------------------|-------------------------------------|--|--|---|---|
| OCT 1985 | | | | | | | | | | | |
| 29... | 1100 | 768 | 840 | 8.60 | 16.0 | 9.0 | 8.2 | 645 | 310 | 314 | -- |
| DEC | | | | | | | | | | | |
| 17... | 1045 | 310 | 1040 | 8.50 | -- | 0.0 | -- | -- | 390 | 390 | 170 |
| JAN 1986 | | | | | | | | | | | |
| 15... | 1200 | 482 | 960 | 8.40 | -7.0 | 0.0 | 13.7 | 637 | 370 | 371 | 150 |
| FEB | | | | | | | | | | | |
| 19... | 1215 | 3330 | 730 | 8.20 | 15.0 | 1.5 | 12.4 | 630 | 240 | 244 | 94 |
| MAR | | | | | | | | | | | |
| 25... | 1115 | 690 | 1150 | 8.50 | 16.0 | 9.5 | 10.6 | 640 | 410 | 407 | 170 |
| APR | | | | | | | | | | | |
| 22... | 1045 | 1250 | 910 | 8.50 | 23.0 | 13.0 | 9.7 | 635 | 340 | 341 | 130 |
| MAY | | | | | | | | | | | |
| 21... | 1045 | 2260 | 670 | 8.50 | 25.0 | 13.0 | 9.3 | 634 | 270 | 269 | 93 |
| JUN | | | | | | | | | | | |
| 03... | 0915 | 3380 | 430 | 8.30 | 27.0 | 15.5 | 9.1 | 637 | 170 | 175 | 43 |
| JUL | | | | | | | | | | | |
| 10... | 1100 | 1760 | 580 | 8.50 | 25.0 | 19.0 | 7.5 | 635 | 220 | 220 | 65 |
| AUG | | | | | | | | | | | |
| 12... | 1230 | 754 | 760 | 8.50 | 28.5 | 20.5 | 7.9 | 638 | 280 | 277 | 99 |
| SEP | | | | | | | | | | | |
| 23... | 0930 | 653 | 830 | 8.50 | 15.5 | 14.0 | 8.0 | 633 | 320 | 321 | 130 |

| 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- LITY LAB (MG/L AS CAC03) | SULFATE DIS- SOLVED (MG/L AS S04) | CHLO- RIDE, DIS- SOLVED (MG/L AS CL) | FLUO- RIDE, DIS- SOLVED (MG/L AS F) |
|----------|--|--|--|-------------------|---|---|---|---|---|--|
| OCT 1985 | | | | | | | | | | |
| 29... | 68 | 35 | 65 | 31 | 2 | 1.8 | 189 | 230 | 17 | 0.3 |
| DEC | | | | | | | | | | |
| 17... | 83 | 44 | 83 | 32 | 2 | 2.1 | 218 | 310 | 21 | 0.3 |
| JAN 1986 | | | | | | | | | | |
| 15... | 81 | 41 | 72 | 30 | 2 | 1.6 | 221 | 270 | 18 | 0.3 |
| FEB | | | | | | | | | | |
| 19... | 55 | 26 | 57 | 33 | 2 | 3.1 | 150 | 220 | 13 | 0.2 |
| MAR | | | | | | | | | | |
| 25... | 82 | 49 | 100 | 35 | 2 | 2.4 | 233 | 330 | 25 | 0.3 |
| APR | | | | | | | | | | |
| 22... | 69 | 41 | 67 | 30 | 2 | 2.0 | 209 | 270 | 14 | 0.3 |
| MAY | | | | | | | | | | |
| 21... | 60 | 29 | 42 | 25 | 1 | 1.7 | 176 | 170 | 8.8 | 0.2 |
| JUN | | | | | | | | | | |
| 03... | 42 | 17 | 21 | 21 | 0.7 | 1.4 | 132 | 81 | 4.6 | 0.1 |
| JUL | | | | | | | | | | |
| 10... | 52 | 22 | 36 | 26 | 1 | 1.7 | 155 | 130 | 8.2 | 0.2 |
| AUG | | | | | | | | | | |
| 12... | 60 | 31 | 53 | 29 | 1 | 1.8 | 178 | 200 | 12 | 0.3 |
| SEP | | | | | | | | | | |
| 23... | 66 | 38 | 63 | 30 | 2 | 1.9 | 187 | 230 | 15 | 0.3 |

GREEN RIVER BASIN

105

09306500 WHITE RIVER NEAR WATSON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | SILICA, DIS- SOLVED (MG/L AS SiO2) | SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) | SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) | SOLIDS, DIS- SOLVED (TONS PER AC-FT) | SOLIDS, DIS- SOLVED (TONS PER DAY) | NITRO- GEN, 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 P04) |
|----------|---|--|--|---|---|---|---|---|--|---|
| OCT 1985 | | | | | | | | | | |
| 29... | 10 | 572 | -- | 0.78 | 1190 | 0.27 | 0.05 | 0.06 | 0.01 | 0.03 |
| DEC | | | | | | | | | | |
| 17... | 13 | 716 | 690 | 0.97 | 599 | 0.63 | 0.08 | 0.10 | <0.01 | -- |
| JAN 1986 | | | | | | | | | | |
| 15... | 15 | 651 | 630 | 0.89 | 847 | 0.74 | 0.09 | 0.12 | 0.01 | 0.03 |
| FEB | | | | | | | | | | |
| 19... | 10 | 483 | 470 | 0.66 | 4340 | 0.67 | 0.15 | 0.19 | 0.04 | 0.12 |
| MAR | | | | | | | | | | |
| 25... | 13 | 797 | 740 | 1.1 | 1480 | 0.82 | 0.05 | 0.06 | 0.01 | 0.03 |
| APR | | | | | | | | | | |
| 22... | 14 | 632 | 600 | 0.86 | 2130 | 1.10 | 0.05 | 0.06 | 0.01 | 0.03 |
| MAY | | | | | | | | | | |
| 21... | 13 | 439 | 430 | 0.6 | 2680 | 0.71 | <0.01 | -- | <0.01 | -- |
| JUN | | | | | | | | | | |
| 03... | 11 | 271 | 260 | 0.37 | 2470 | 0.37 | 0.04 | 0.05 | -- | -- |
| JUL | | | | | | | | | | |
| 10... | 13 | 369 | 360 | 0.5 | 1750 | 0.21 | 0.03 | 0.04 | 0.01 | 0.03 |
| AUG | | | | | | | | | | |
| 12... | 13 | 488 | 480 | 0.66 | 993 | 0.19 | <0.01 | -- | <0.01 | -- |
| SEP | | | | | | | | | | |
| 23... | 12 | 520 | 540 | 0.71 | 917 | 0.13 | 0.04 | 0.05 | 0.02 | 0.06 |

| DATE | TIME | BORON, DIS- SOLVED (UG/L AS B) |
|----------|------|--|
| OCT 1985 | | |
| 29... | 1200 | 70 |
| DEC | | |
| 17... | 1045 | 90 |
| JAN 1986 | | |
| 15... | 1200 | 70 |
| FEB | | |
| 19... | 1215 | 100 |
| MAR | | |
| 25... | 1115 | 90 |
| APR | | |
| 22... | 1045 | 90 |
| MAY | | |
| 21... | 1045 | 50 |
| JUN | | |
| 03... | 0915 | 30 |
| JUL | | |
| 10... | 1100 | 50 |
| AUG | | |
| 12... | 1230 | 70 |
| SEP | | |
| 23... | 0930 | 70 |

09306500 WHITE RIVER NEAR WATSON, UT--Continued

SEDIMENT, SUSPENDED CONCENTRATION (MG/L), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DAY | MEAN CONCENTRATION (MG/L) | | MEAN CONCENTRATION (MG/L) | | MEAN CONCENTRATION (MG/L) | | MEAN CONCENTRATION (MG/L) | | MEAN CONCENTRATION (MG/L) | | MEAN CONCENTRATION (MG/L) | |
|---------|---------------------------------|------------------|---------------------------------|------------------|---------------------------------|------------------|---------------------------------|------------------|---------------------------------|------------------|---------------------------------|-------|
| | LOADS (T/DAY) | LOADS (T/DAY) | LOADS (T/DAY) | LOADS (T/DAY) | LOADS (T/DAY) | LOADS (T/DAY) | LOADS (T/DAY) | LOADS (T/DAY) | LOADS (T/DAY) | LOADS (T/DAY) | LOADS (T/DAY) | |
| OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | | |
| 1 | 112 | 191 | 315 | 627 | 180 | 262 | 60 | 65 | 160 | 397 | 820 | 1500 |
| 2 | 108 | 179 | 313 | 625 | 180 | 272 | 60 | 62 | 160 | 423 | 640 | 1110 |
| 3 | 110 | 181 | 300 | 565 | 180 | 287 | 60 | 58 | 160 | 419 | 560 | 952 |
| 4 | 62 | 102 | 301 | 566 | 180 | 233 | 60 | 58 | 160 | 402 | 545 | 940 |
| 5 | 46 | 73 | 290 | 540 | 180 | 199 | 60 | 57 | 160 | 389 | 520 | 890 |
| 6 | 46 | 74 | 267 | 502 | 100 | 113 | 60 | 66 | 160 | 397 | 570 | 982 |
| 7 | 41 | 69 | 262 | 509 | 100 | 121 | 60 | 59 | 160 | 384 | 570 | 1040 |
| 8 | 99 | 181 | 250 | 466 | 100 | 121 | 60 | 57 | 160 | 367 | 560 | 1030 |
| 9 | 274 | 624 | 260 | 497 | 100 | 103 | 60 | 57 | 160 | 354 | 540 | 1050 |
| 10 | 472 | 1160 | 280 | 586 | 100 | 86 | 60 | 62 | 160 | 346 | 500 | 982 |
| 11 | 764 | 2330 | 271 | 527 | 50 | 36 | 60 | 58 | 500 | 1310 | 620 | 1450 |
| 12 | 251 | 684 | 303 | 644 | 50 | 31 | 60 | 57 | 850 | 2130 | 555 | 1360 |
| 13 | 455 | 1510 | 348 | 866 | 50 | 28 | 60 | 57 | 1200 | 3790 | 460 | 1040 |
| 14 | 398 | 1250 | 320 | 735 | 50 | 34 | 60 | 57 | 1700 | 6880 | 410 | 871 |
| 15 | 350 | 1100 | 262 | 501 | 50 | 39 | 130 | 158 | 2400 | 13900 | 415 | 900 |
| 16 | 327 | 998 | 303 | 560 | 50 | 41 | 130 | 186 | 3000 | 18600 | 370 | 793 |
| 17 | 262 | 526 | 340 | 644 | 65 | 54 | 130 | 205 | 3400 | 27500 | 325 | 698 |
| 18 | 239 | 457 | 358 | 725 | 65 | 53 | 130 | 210 | 4000 | 47500 | 300 | 613 |
| 19 | 247 | 472 | 328 | 675 | 65 | 51 | 130 | 218 | 3760 | 35500 | 285 | 546 |
| 20 | 245 | 468 | 275 | 475 | 65 | 60 | 130 | 248 | 3100 | 21200 | 280 | 508 |
| 21 | 247 | 472 | 275 | 422 | 65 | 57 | 130 | 270 | 2750 | 16100 | 280 | 480 |
| 22 | 252 | 486 | 275 | 436 | 65 | 58 | 130 | 281 | 2080 | 6810 | 280 | 476 |
| 23 | 250 | 482 | 275 | 415 | 65 | 61 | 130 | 286 | 1700 | 4200 | 275 | 497 |
| 24 | 242 | 459 | 275 | 437 | 65 | 66 | 130 | 284 | 1450 | 3270 | 260 | 505 |
| 25 | 222 | 382 | 275 | 431 | 65 | 67 | 130 | 281 | 1310 | 2800 | 330 | 608 |
| 26 | 205 | 258 | 230 | 348 | 65 | 70 | 160 | 328 | 1240 | 2590 | 285 | 527 |
| 27 | 298 | 503 | 230 | 342 | 65 | 54 | 160 | 333 | 1100 | 2220 | 255 | 475 |
| 28 | 380 | 689 | 230 | 342 | 65 | 63 | 160 | 346 | 930 | 1800 | 245 | 463 |
| 29 | 380 | 702 | 230 | 335 | 65 | 61 | 160 | 363 | --- | --- | 185 | 313 |
| 30 | 405 | 881 | 230 | 323 | 65 | 63 | 160 | 397 | --- | --- | 380 | 820 |
| 31 | 322 | 456 | --- | --- | 65 | 82 | 160 | 415 | --- | --- | 480 | 1180 |
| TOTAL | --- | 18399 | --- | 15666 | --- | 2926 | --- | 5639 | --- | 221978 | --- | 25599 |

| 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 | 600 | 1650 | 2550 | 11000 | 1930 | 16200 | 1260 | 7230 | 128 | 304 | 490 | 774 |
| 2 | 700 | 2280 | 3590 | 17600 | 1720 | 14900 | 1080 | 5950 | 160 | 378 | 440 | 695 |
| 3 | 990 | 3780 | 3700 | 21100 | 1570 | 13800 | 820 | 4330 | 160 | 372 | 410 | 642 |
| 4 | 990 | 3880 | 3100 | 21100 | 1650 | 14200 | 750 | 3630 | 136 | 313 | 380 | 597 |
| 5 | 830 | 3060 | 3300 | 26700 | 1900 | 17500 | 940 | 4770 | 160 | 364 | 350 | 557 |
| 6 | 760 | 2720 | 3460 | 31100 | 2020 | 19500 | 2600 | 15800 | 368 | 839 | 180 | 308 |
| 7 | 680 | 2270 | 3300 | 26800 | 2360 | 24000 | 3100 | 20800 | 880 | 2080 | 220 | 387 |
| 8 | 670 | 2150 | 3110 | 23300 | 2580 | 27100 | 1820 | 9880 | 1400 | 3190 | 420 | 786 |
| 9 | 690 | 2190 | 2990 | 20200 | 2800 | 29500 | 1180 | 5730 | 685 | 1560 | 240 | 428 |
| 10 | 805 | 2560 | 2930 | 18500 | 3350 | 37000 | 1050 | 4990 | 247 | 511 | 250 | 480 |
| 11 | 1070 | 3530 | 2850 | 16800 | 2860 | 28900 | 373 | 1810 | 230 | 464 | 210 | 395 |
| 12 | 946 | 3170 | 2720 | 14900 | 2170 | 18400 | 120 | 529 | 370 | 794 | 185 | 335 |
| 13 | 812 | 2740 | 2670 | 14300 | 2250 | 17800 | 128 | 508 | 200 | 400 | 178 | 315 |
| 14 | 810 | 2800 | 2590 | 13400 | 2250 | 18100 | 168 | 631 | 1170 | 2380 | 170 | 298 |
| 15 | 825 | 2860 | 2560 | 13600 | 2100 | 16600 | 216 | 797 | 270 | 529 | 165 | 287 |
| 16 | 830 | 2720 | 2470 | 13800 | 2000 | 15700 | 728 | 2760 | 260 | 509 | 160 | 279 |
| 17 | 860 | 2830 | 2390 | 13300 | 2150 | 17200 | 735 | 2940 | 200 | 387 | 150 | 256 |
| 18 | 960 | 3370 | 2330 | 12200 | 2180 | 17600 | 625 | 2500 | 140 | 271 | 145 | 251 |
| 19 | 1220 | 4400 | 2230 | 11400 | 2120 | 17300 | 272 | 1020 | 200 | 384 | 140 | 253 |
| 20 | 1330 | 4630 | 2200 | 11600 | 2080 | 17200 | 368 | 1320 | 1500 | 2940 | 135 | 238 |
| 21 | 1400 | 4650 | 2520 | 14800 | 1880 | 15000 | 496 | 1730 | 12300 | 33500 | 125 | 218 |
| 22 | 1240 | 4010 | 3720 | 25000 | 1730 | 13400 | 1060 | 3590 | 4800 | 8810 | 125 | 216 |
| 23 | 1000 | 3310 | 3660 | 28800 | 1670 | 12500 | 376 | 1250 | 2000 | 3260 | 115 | 199 |
| 24 | 1730 | 6610 | 2740 | 21700 | 1530 | 11000 | 2160 | 7360 | 4360 | 7850 | 140 | 237 |
| 25 | 3450 | 15400 | 2220 | 16600 | 1430 | 9750 | 2050 | 6800 | 14800 | 39500 | 135 | 229 |
| 26 | 4180 | 20500 | 2540 | 19000 | 2320 | 15200 | 1650 | 5430 | 4000 | 6200 | 140 | 246 |
| 27 | 3740 | 18900 | 3040 | 23900 | 2080 | 14000 | 464 | 1450 | 2000 | 3080 | 125 | 210 |
| 28 | 3160 | 15300 | 3120 | 25800 | 1780 | 11700 | 320 | 949 | 1100 | 1680 | 132 | 229 |
| 29 | 2900 | 13200 | 2940 | 25500 | 1520 | 9400 | 240 | 647 | 800 | 1230 | 122 | 208 |
| 30 | 2270 | 9770 | 2280 | 20000 | 1320 | 7920 | 208 | 554 | 680 | 1080 | 155 | 281 |
| 31 | --- | --- | 2340 | 19900 | --- | --- | 144 | 351 | 560 | 909 | --- | --- |
| TOTAL | --- | 171240 | --- | 593700 | --- | 518370 | --- | 128036 | --- | 126068 | --- | 10834 |
| YEAR | 1838450 | | | | | | | | | | | |

GREEN RIVER BASIN

107

09306500 WHITE RIVER NEAR WATSON, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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 1985 | | | | | | |
| 29... | 1100 | 768 | 9.0 | -- | 403 | 836 |
| NOV | | | | | | |
| 19... | 1030 | 755 | 1.5 | -- | 326 | 665 |
| DEC | | | | | | |
| 17... | 1045 | 310 | 0.0 | -- | 63 | 53 |
| JAN 1986 | | | | | | |
| 15... | 1200 | 482 | 0.0 | -- | 76 | 99 |
| FEB | | | | | | |
| 19... | 1215 | 3330 | 1.5 | -- | 4780 | 43000 |
| MAR | | | | | | |
| 25... | 1115 | 690 | 9.5 | -- | 331 | 617 |
| APR | | | | | | |
| 22... | 1045 | 1250 | 13.0 | -- | 1400 | 4730 |
| JUL | | | | | | |
| 10... | 1100 | 1760 | 19.0 | 50 | 900 | 4280 |
| AUG | | | | | | |
| 12... | 1230 | 754 | 20.5 | -- | 639 | 1300 |
| SEP | | | | | | |
| 23... | 0930 | 653 | 14.0 | -- | 72 | 127 |

GREEN RIVER BASIN

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 southwest of Bonanza.

DRAINAGE AREA.--324 mi².

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 except for estimated daily discharges, which are poor. Small reservoirs on tributaries above station.

AVERAGE DISCHARGE.--16 years, 4.80 ft³/s, 3,480 acre-ft/yr. The figure published in the 1985 report was in error; the correct figure is 15 years, 4.09 ft³/s, 2,960 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,790 ft³/s Sept. 5, 1982, gage height, 13.82 ft from floodmarks, datum then in use; rating curve extended above 6 ft³/s on basis of slope-area measurement of peak flow; no flow for many days some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 25 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| May 8 | 715 | 29 | 6.06 | Aug. 8 | 0445 | 28 | 6.23 |
| July 8 | 2345 | 49 | 7.33 | Aug. 11 | 1630 | 49 | 7.22 |
| Aug. 6 | 2200 | 52 | 7.40 | Aug. 30 | 2245 | *179 | *10.99 |

Minimum daily, 3.7 ft³/s Dec. 17.

REVISIONS.--The minimum daily discharge for water year 1985 has been revised to 8.0 ft³/s Feb. 1. Revised daily discharges, in cubic feet per second, for August and September 1985, are given below. These figures supersede those published in the report for 1985.

| MONTH | TOTAL | MEAN | MAX | MIN | AC-FT |
|----------------|--------|------|-----|-----|-------|
| August 1985 | 407 | 13.1 | 16 | 11 | 807 |
| September 1985 | 431 | 14.4 | 16 | 13 | 855 |
| Wtr Yr 1985 | 6026.0 | 16.5 | 71 | 8.0 | 11950 |

GREEN RIVER BASIN

109

09306800 BITTER CREEK NEAR BONANZA, UT--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|------|--------|-------|-------|------|------|------|------|------|-------|------|
| 1 | 15 | 15 | 12 | e5.0 | e9.0 | 14 | 19 | 24 | 20 | 15 | e12 | e30 |
| 2 | 15 | 14 | 12 | e4.8 | e9.0 | 14 | 22 | 24 | 20 | 13 | e12 | 40 |
| 3 | 15 | 14 | 12 | e4.7 | e10 | 12 | 24 | 24 | 21 | 13 | e12 | e29 |
| 4 | 15 | 14 | 11 | e4.6 | e9.6 | 14 | 22 | 23 | 20 | 13 | e11 | e16 |
| 5 | 16 | 14 | e8.8 | e4.6 | e9.0 | 15 | 21 | 23 | 20 | 14 | 15 | e14 |
| 6 | 16 | 14 | 10 | e6.0 | e9.4 | 15 | 21 | 24 | 19 | 16 | 18 | e14 |
| 7 | 16 | 14 | 10 | e5.4 | e8.8 | 15 | 20 | 26 | 18 | 16 | 18 | e13 |
| 8 | 15 | 14 | 10 | e5.4 | e8.0 | 15 | 20 | 28 | 17 | 17 | 20 | e16 |
| 9 | 17 | 15 | e7.2 | e5.4 | e7.6 | 15 | 20 | 28 | 17 | 18 | 19 | e21 |
| 10 | 18 | 14 | e5.0 | e5.6 | e7.0 | 15 | 21 | 27 | 19 | 15 | e17 | e16 |
| 11 | 19 | 14 | e4.0 | e6.0 | e8.0 | 16 | 22 | 26 | 19 | 14 | 22 | e14 |
| 12 | 18 | 17 | e4.5 | e5.6 | e7.6 | 16 | 22 | 25 | 17 | 14 | 20 | e13 |
| 13 | 21 | 17 | e4.2 | e5.6 | e8.6 | 16 | 23 | 25 | 16 | 13 | 21 | e13 |
| 14 | 18 | 15 | e4.0 | e5.6 | e10 | 16 | 22 | 25 | 17 | 12 | 31 | e13 |
| 15 | 16 | 13 | e4.0 | e6.1 | e10 | 16 | 22 | 24 | 16 | 14 | 25 | e13 |
| 16 | 16 | 15 | e4.1 | e7.0 | e11 | 16 | 23 | 24 | 15 | 17 | 23 | e13 |
| 17 | 15 | 13 | e3.7 | e6.4 | e13 | 16 | 24 | 26 | 15 | 14 | e22 | e13 |
| 18 | 15 | 14 | e4.3 | e6.4 | e15 | 17 | 24 | 26 | 15 | 12 | e19 | e13 |
| 19 | 15 | 18 | e4.3 | e6.6 | e14 | 17 | 24 | 25 | 16 | e11 | e15 | e13 |
| 20 | 15 | 19 | e4.5 | e6.2 | e13 | 17 | 23 | 24 | 16 | e11 | 24 | e13 |
| 21 | 15 | 15 | e4.5 | e6.0 | e12 | 17 | 24 | 23 | 15 | 12 | 32 | e13 |
| 22 | 15 | 19 | e4.4 | e5.6 | 13 | 17 | 24 | 23 | 14 | e11 | 28 | e13 |
| 23 | 15 | 15 | e4.5 | e6.6 | 14 | 17 | 24 | 24 | 14 | 12 | e23 | e13 |
| 24 | 15 | 11 | e5.0 | e6.4 | 13 | 17 | 24 | 24 | 14 | 14 | e21 | e22 |
| 25 | 15 | 13 | e4.7 | e6.0 | 13 | 18 | 24 | 24 | 14 | 14 | e28 | e16 |
| 26 | 15 | 13 | e5.5 | e6.0 | 14 | 17 | 24 | 23 | 14 | 15 | e19 | 16 |
| 27 | 14 | 13 | e4.0 | e6.4 | 14 | 18 | 24 | 22 | 13 | 15 | e14 | 15 |
| 28 | 15 | 12 | e5.0 | e6.8 | 14 | 18 | 24 | 22 | 13 | 14 | e12 | 15 |
| 29 | 14 | 12 | e4.8 | e9.0 | --- | 18 | 24 | 22 | 12 | e13 | e20 | 15 |
| 30 | 15 | 13 | e5.6 | e9.0 | --- | 18 | 24 | 21 | 13 | e12 | 47 | 14 |
| 31 | 15 | --- | e5.6 | e10 | --- | 19 | --- | 20 | --- | e12 | 44 | --- |
| TOTAL | 489 | 433 | 193.2 | 190.8 | 304.6 | 501 | 679 | 749 | 489 | 426 | 664 | 492 |
| MEAN | 15.8 | 14.4 | 6.23 | 6.15 | 10.9 | 16.2 | 22.6 | 24.2 | 16.3 | 13.7 | 21.4 | 16.4 |
| MAX | 21 | 19 | 12 | 10 | 15 | 19 | 24 | 28 | 21 | 18 | 47 | 40 |
| MIN | 14 | 11 | 3.7 | 4.6 | 7.0 | 12 | 19 | 20 | 12 | 11 | 11 | 13 |
| ACFT | 970 | .859 | 383 | 378 | 604 | 994 | 1350 | 1490 | 970 | 845 | 1320 | 976 |
| CAL YR 1985 | TOTAL | | 5790.2 | MEAN | 15.9 | MAX | 71 | MIN | 3.7 | ACFT | 11480 | |
| WTR YR 1986 | TOTAL | | 5610.6 | MEAN | 15.4 | MAX | 47 | MIN | 3.7 | ACFT | 11130 | |

e Estimated.

GREEN RIVER BASIN

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 September 1986 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,655 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 33,200 acres above station.

AVERAGE DISCHARGE.--12 years, 846 ft³/s, 612,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,660 ft³/s June 10, 1984, gage height, 10.23 ft; minimum, 1.6 ft³/s July 18, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4,500 ft³/s Feb. 19; minimum daily, 240 ft³/s Dec. 13.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|
| 1 | 756 | e740 | e590 | e450 | e1040 | e740 | 998 | 1630 | 2930 | 1870 | 838 | 637 |
| 2 | 743 | e740 | e600 | e410 | e1000 | e700 | 1230 | 1670 | 2950 | 1840 | 829 | 569 |
| 3 | 730 | e720 | e610 | e390 | e1000 | e660 | 1280 | 1770 | 3090 | 1810 | 829 | 569 |
| 4 | 722 | e720 | e550 | e370 | e980 | e660 | 1310 | 1990 | 3150 | 1750 | 834 | 561 |
| 5 | 722 | e720 | e460 | e390 | e950 | e670 | 1320 | 2370 | 3200 | 1720 | 851 | 569 |
| 6 | 714 | e720 | e450 | e420 | e940 | e680 | 1380 | 2770 | 3340 | 1730 | 807 | 571 |
| 7 | 726 | e740 | e480 | e420 | e980 | e720 | 1360 | 2860 | 3380 | 2090 | 816 | 634 |
| 8 | 756 | e720 | e480 | e380 | e920 | e730 | 1320 | 2630 | 3390 | 1830 | 781 | 652 |
| 9 | 902 | e750 | e400 | e380 | e890 | e760 | 1280 | 2420 | 3530 | 1770 | 764 | 734 |
| 10 | 930 | e780 | e350 | e390 | e900 | e810 | 1230 | 2110 | 3720 | 1760 | 730 | 694 |
| 11 | 1020 | e760 | e300 | e410 | e980 | e830 | 1260 | 2090 | 3760 | 1770 | 691 | 703 |
| 12 | 1020 | e840 | e260 | e370 | e1100 | e880 | 1270 | 1980 | 3350 | 1690 | 718 | 674 |
| 13 | 1180 | e940 | e240 | e370 | e1300 | e940 | 1320 | 1910 | 2920 | 1620 | 740 | 660 |
| 14 | 1080 | e900 | e280 | e420 | e1800 | e880 | 1330 | 1940 | 2840 | 1550 | 697 | 651 |
| 15 | 1020 | e780 | e310 | e490 | e2100 | e860 | 1350 | 1900 | 2830 | 1480 | 725 | 646 |
| 16 | 1020 | e740 | e310 | e540 | e2300 | e820 | 1400 | 1940 | 2710 | 1590 | 695 | 644 |
| 17 | 1010 | e740 | e320 | e580 | e3000 | e830 | 1470 | 2000 | 2730 | 1460 | 681 | 638 |
| 18 | 760 | e780 | e320 | e620 | e3500 | e820 | 1340 | 2020 | 2790 | 1430 | 666 | 636 |
| 19 | 735 | e760 | e330 | e660 | e4500 | e780 | 1320 | 1930 | 2780 | 1370 | 659 | 657 |
| 20 | 735 | 710 | e350 | e700 | e3000 | e730 | 1310 | 1800 | 2750 | 1340 | 667 | 652 |
| 21 | 739 | 671 | e350 | e760 | e2700 | e690 | 1320 | 1860 | 2700 | 1300 | 835 | 622 |
| 22 | 739 | 640 | e350 | e800 | e1900 | e680 | 1330 | 2120 | 2650 | 1280 | 811 | 621 |
| 23 | 735 | 666 | e370 | e820 | e1200 | e700 | 1340 | 2390 | 2510 | 1250 | 659 | 623 |
| 24 | e760 | 659 | e390 | e850 | e960 | e740 | 1390 | 2660 | 2410 | 1230 | 603 | 708 |
| 25 | e760 | e650 | e410 | e820 | e870 | e720 | 1480 | 2740 | 2300 | 1250 | 798 | 758 |
| 26 | e600 | e630 | e420 | e800 | e830 | e720 | 1630 | 2650 | 2150 | 1210 | 859 | 680 |
| 27 | e650 | e610 | e370 | e820 | e790 | 712 | 1720 | 2600 | 2310 | 1170 | 611 | 701 |
| 28 | e691 | e610 | e360 | e860 | e760 | 722 | 1770 | 2780 | 2270 | 1090 | 583 | 655 |
| 29 | e740 | e590 | e370 | e900 | --- | 726 | 1720 | 3060 | 2080 | 1010 | 566 | 677 |
| 30 | e840 | e580 | e430 | e950 | --- | 682 | 1660 | 3080 | 1980 | 930 | 587 | 667 |
| 31 | e660 | --- | e480 | e1000 | --- | 879 | --- | 3010 | --- | 930 | 615 | --- |
| TOTAL | 25195 | 21606 | 12290 | 18540 | 43190 | 23471 | 41438 | 70680 | 85500 | 46120 | 22545 | 19463 |
| MEAN | 813 | 720 | 396 | 598 | 1543 | 757 | 1381 | 2280 | 2850 | 1488 | 727 | 649 |
| MAX | 1180 | 940 | 610 | 1000 | 4500 | 940 | 1770 | 3080 | 3760 | 2090 | 859 | 758 |
| MIN | 600 | 580 | 240 | 370 | 760 | 660 | 998 | 1630 | 1980 | 930 | 566 | 561 |
| ACFT | 49970 | 42860 | 24380 | 36770 | 85670 | 46550 | 82190 | 140200 | 169600 | 91480 | 44720 | 38600 |

| | | | | | | | | | | |
|-------------|-------|--------|------|------|-----|------|-----|-----|------|--------|
| CAL YR 1985 | TOTAL | 425202 | MEAN | 1165 | MAX | 4350 | MIN | 240 | ACFT | 843400 |
| WTR YR 1986 | TOTAL | 430038 | MEAN | 1178 | MAX | 4500 | MIN | 240 | ACFT | 853000 |

e Estimated.

GREEN RIVER BASIN

111

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 September 1985 (discontinued).

WATER TEMPERATURES: April 1977 to September 1985 (discontinued).

SUSPENDED-SEDIMENT DISCHARGE: October 1974 to September 1983.

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 microsiemens July 6, 1977; minimum recorded, 250 microsiemens 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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | PH (STAND- ARD UNITS) | TEMPER- ATURE, AIR (DEG C) | TEMPER- ATURE (DEG C) | TUR- BID- ITY (NTU) | OXYGEN, DIS- SOLVED (MG/L) | BARO- METRIC PRES- SURE (MM HG) | COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) | STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) |
|----------|------|---|---|--------------------------------|-------------------------------------|-----------------------------|------------------------------|-------------------------------------|--|--|--|
| NOV 1985 | | | | | | | | | | | |
| 18... | 1130 | e780 | 1020 | 8.50 | 3.0 | 3.0 | 55 | 13.1 | 640 | 42 | 36 |
| JAN 1986 | | | | | | | | | | | |
| 13... | 1300 | 630 | 1090 | 8.30 | -7.0 | 0.0 | 16 | 12.4 | 654 | <1 | 71 |
| MAR | | | | | | | | | | | |
| 27... | 1300 | 712 | 1290 | 8.50 | 15.0 | 10.5 | 120 | 10.4 | 651 | <1 | 82 |
| MAY | | | | | | | | | | | |
| 19... | 1345 | 1520 | 720 | 8.40 | 26.0 | 15.5 | 310 | 9.7 | 643 | 110 | 140 |
| JUL | | | | | | | | | | | |
| 09... | 1600 | e1770 | 600 | 8.30 | 33.5 | 23.0 | 720 | 7.0 | 640 | 260 | 1200 |
| AUG | | | | | | | | | | | |
| 13... | 1230 | 741 | 820 | 8.50 | 26.0 | 22.5 | 260 | 7.7 | 643 | K130 | K290 |

| DATE | HARD- NESS (MG/L AS CAC03) | HARD- NESS NONCAR- BONATE (MG/L AS CAC03) | CALCIUM DIS- SOLVED (MG/L AS CA) | MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) | SODIUM, DIS- SOLVED (MG/L AS NA) | PERCENT SODIUM | SODIUM AD- SORP- TION RATIO | POTAS- SIUM, DIS- SOLVED (MG/L AS K) | BICAR- BONATE IT-FLD (MG/L AS HC03) | CAR- BONATE IT-FLD (MG/L AS C03) | ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CAC03) |
|----------|--|---|--|--|--|-------------------|---|---|--|---|---|
| NOV 1985 | | | | | | | | | | | |
| 18... | 380 | 377 | 78 | 44 | 86 | 33 | 2 | 1.9 | 228 | 14 | 211 |
| JAN 1986 | | | | | | | | | | | |
| 13... | 400 | 399 | 84 | 46 | 93 | 34 | 2 | 1.7 | 292 | 0 | 240 |
| MAR | | | | | | | | | | | |
| 27... | 440 | 440 | 85 | 55 | 120 | 37 | 3 | 2.6 | 263 | 18 | 246 |
| MAY | | | | | | | | | | | |
| 19... | 280 | 285 | 61 | 32 | 51 | 28 | 1 | 1.9 | 212 | 2.0 | 177 |
| JUL | | | | | | | | | | | |
| 09... | 220 | 224 | 53 | 22 | 42 | 29 | 1 | 2.1 | 172 | 6.0 | 151 |
| AUG | | | | | | | | | | | |
| 13... | 300 | 302 | 65 | 34 | 63 | 31 | 2 | 2.3 | 209 | 6.0 | 181 |

e Estimated.

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

GREEN RIVER BASIN

09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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, NITRATE DIS- SOLVED (MG/L AS N) | NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) | NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) |
|----------|---|---|--|---|--|---|---|---|---|---|---|
| NOV 1985 | | | | | | | | | | | |
| 18... | 300 | 16 | 0.3 | 11 | 698 | 680 | 0.95 | 1470 | 0.48 | 0.01 | 0.49 |
| JAN 1986 | | | | | | | | | | | |
| 13... | 320 | 20 | 0.3 | 15 | 744 | 720 | 1.0 | 1270 | 0.77 | 0.01 | 0.78 |
| MAR | | | | | | | | | | | |
| 27... | 380 | 24 | 0.4 | 13 | 918 | 850 | 1.2 | 1760 | -- | <0.01 | 0.89 |
| MAY | | | | | | | | | | | |
| 19... | 200 | 9.7 | 0.2 | 13 | 485 | 480 | 0.66 | 1990 | -- | <0.01 | 0.82 |
| JUL | | | | | | | | | | | |
| 09... | 150 | 8.9 | 0.2 | 13 | 394 | 390 | 0.54 | 1880 | -- | <0.01 | 0.31 |
| AUG | | | | | | | | | | | |
| 13... | 240 | 12 | 0.3 | 12 | 550 | 540 | 0.75 | 1100 | -- | <0.01 | 0.28 |

| DATE | NITRO- GEN, AMMONIA TOTAL (MG/L AS N) | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) | NITRO- GEN, ORGANIC TOTAL (MG/L AS N) | NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) | PHOS- PHORUS, TOTAL (MG/L AS P) | PHOS- PHORUS TOTAL (MG/L AS PO4) | PHOS- PHORUS, 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 1985 | | | | | | | | | | |
| 18... | 0.06 | 0.04 | 0.05 | 0.34 | 0.4 | 0.08 | 0.25 | 0.05 | 0.01 | 0.03 |
| JAN 1986 | | | | | | | | | | |
| 13... | 0.08 | 0.08 | 0.01 | 0.32 | 0.4 | 0.03 | -- | <0.01 | 0.01 | 0.03 |
| MAR | | | | | | | | | | |
| 27... | 0.03 | 0.06 | 0.08 | 0.67 | 0.7 | 0.19 | -- | 0.03 | 0.03 | 0.09 |
| MAY | | | | | | | | | | |
| 19... | 0.04 | 0.03 | 0.04 | 0.66 | 0.7 | 0.30 | -- | 0.02 | 0.01 | 0.03 |
| JUL | | | | | | | | | | |
| 09... | 0.04 | 0.02 | 0.03 | 0.46 | 0.5 | 0.37 | -- | 0.04 | 0.02 | 0.06 |
| AUG | | | | | | | | | | |
| 13... | 0.15 | <0.01 | -- | 0.65 | 0.8 | 0.37 | -- | 0.01 | <0.01 | -- |

| DATE | TIME | ALUM- INIUM, 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 1985 | | | | | | | | | | | |
| 18... | 1130 | 10 | 1 | 73 | <0.5 | <1 | <1 | <3 | 2 | 5 | <2 |
| MAR 1986 | | | | | | | | | | | |
| 27... | 1300 | 110 | 2 | 76 | 2 | <1 | <1 | <3 | 3 | 150 | <1 |
| MAY | | | | | | | | | | | |
| 19... | 1345 | 20 | 3 | 52 | <0.5 | <1 | 1 | <3 | 5 | 350 | 16 |
| JUL | | | | | | | | | | | |
| 09... | 1600 | 20 | 2 | 62 | <0.5 | <1 | <1 | <3 | 5 | 31 | <5 |

| 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 1985 | | | | | | | | | | |
| 18... | 23 | 5 | <0.1 | <10 | <1 | 3 | <2 | 1200 | <6 | 13 |
| MAR 1986 | | | | | | | | | | |
| 27... | 30 | 7 | <0.1 | <10 | 2 | 7 | <1 | 1200 | <6 | 9 |
| MAY | | | | | | | | | | |
| 19... | 20 | 5 | 0.3 | <10 | 21 | 2 | <1 | 740 | <6 | 33 |
| JUL | | | | | | | | | | |
| 09... | 15 | 3 | <0.1 | <10 | 4 | 2 | <1 | 600 | <6 | 9 |

GREEN RIVER BASIN

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09306900 WHITE RIVER AT MOUTH, NEAR OURAY, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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 1985 | | | | | | |
| 18... | 1130 | e780 | 3.0 | -- | 765 | 1610 |
| JAN 1986 | | | | | | |
| 13... | 1300 | 630 | 0.0 | -- | 64 | 109 |
| MAR | | | | | | |
| 27... | 1300 | 712 | 10.5 | 37 | 889 | 1710 |
| MAY | | | | | | |
| 19... | 1345 | 1520 | 15.5 | 46 | 2670 | 11000 |
| JUL | | | | | | |
| 09... | 1600 | e1770 | 23.0 | 95 | 1780 | 8510 |
| AUG | | | | | | |
| 13... | 1230 | 741 | 22.5 | 57 | 953 | 1910 |

e Estimated.

GREEN RIVER BASIN

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 mi².

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 fair except for estimated daily discharges, which are poor. No diversion above station.

AVERAGE DISCHARGE.--34 years, 6.01 ft³/s, 4,350 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 ft³/s Aug. 25, 1961, gage height, 9.40 ft, from rating curve extended above
110 ft³/s on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|---------|-----------------------------------|---------------------|--|------|-----------------------------------|---------------------|
| June 3 | unknown | *696 | *9.67 | No other peak greater than base discharge. | | | |

Minimum daily discharge, 0.80 ft³/s, several days during December and February.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|
| 1 | 3.2 | e1.6 | e1.6 | e.90 | e1.1 | 8.2 | e34 | 43 | 35 | 9.6 | 5.4 | 4.8 |
| 2 | 3.3 | e1.7 | e1.7 | e.90 | e1.0 | 7.2 | e36 | 49 | 35 | 9.5 | 5.3 | 4.4 |
| 3 | 3.3 | e1.7 | e1.8 | e1.1 | e1.1 | 7.8 | e35 | 50 | e45 | 9.4 | 5.3 | 4.6 |
| 4 | 3.1 | e1.6 | e1.6 | e1.2 | e.90 | 7.6 | e34 | 56 | e37 | 11 | 5.3 | 4.3 |
| 5 | 3.2 | e1.5 | e1.5 | e1.1 | e.90 | 7.0 | e33 | 53 | e34 | 11 | 5.3 | 4.3 |
| 6 | 3.3 | e1.6 | e1.5 | e1.0 | e1.0 | 6.8 | e33 | 50 | e30 | 9.8 | 5.3 | 4.3 |
| 7 | 4.1 | e1.8 | e1.4 | e1.4 | e1.0 | 6.2 | e34 | 47 | e27 | 9.6 | 5.1 | 4.3 |
| 8 | 3.1 | e1.9 | e1.3 | e1.0 | e.90 | 7.2 | e36 | 46 | e26 | 10 | 5.4 | 8.5 |
| 9 | 3.1 | e1.6 | e1.6 | e1.2 | e.80 | e8.0 | e37 | 42 | e22 | 9.7 | 5.4 | 4.6 |
| 10 | 3.2 | e1.5 | e1.1 | e1.2 | e.80 | e7.2 | e37 | 40 | e20 | 9.3 | 5.1 | 3.4 |
| 11 | 3.0 | e1.5 | e1.0 | e1.2 | e.80 | e6.8 | e37 | 38 | e19 | 9.0 | 4.9 | 3.0 |
| 12 | 3.0 | e1.4 | e.90 | e1.2 | e1.0 | e6.6 | e38 | 38 | e18 | 8.9 | 6.4 | 2.7 |
| 13 | 2.6 | e1.3 | e.80 | e1.1 | e1.2 | e6.6 | e38 | 38 | e17 | 8.8 | 5.5 | 2.8 |
| 14 | 2.7 | e1.4 | e.80 | e1.3 | e1.4 | e6.6 | e38 | 40 | e17 | 8.6 | 5.1 | 3.3 |
| 15 | 2.5 | e1.5 | e.80 | e1.5 | e1.7 | e6.4 | e39 | 43 | e16 | 9.2 | 4.9 | 3.1 |
| 16 | 2.5 | e1.5 | e.80 | e1.7 | e1.5 | e6.2 | e38 | 43 | e15 | 9.3 | 4.8 | 3.2 |
| 17 | 2.4 | e1.6 | e.80 | e2.0 | e1.7 | e5.8 | e37 | 42 | e14 | 8.7 | 4.6 | 3.1 |
| 18 | 2.5 | e1.5 | e.80 | e1.8 | e2.0 | e5.4 | e37 | 40 | e14 | 8.5 | 4.6 | 3.3 |
| 19 | 2.5 | e1.4 | e.80 | e1.6 | e2.0 | e5.2 | e38 | 40 | 13 | 8.2 | 4.4 | 3.0 |
| 20 | 2.3 | e1.3 | e.80 | e1.5 | e1.7 | e5.0 | e39 | 45 | 12 | 8.5 | 4.6 | 2.6 |
| 21 | 2.4 | e1.3 | e.80 | e1.5 | e1.6 | e5.0 | e40 | 48 | 12 | 8.2 | 5.4 | 2.7 |
| 22 | 2.6 | e1.4 | e.80 | e1.4 | e1.5 | e5.0 | e42 | 47 | 12 | 9.9 | 4.9 | 2.6 |
| 23 | 2.0 | e1.5 | e.80 | e1.3 | e1.7 | e5.2 | 44 | 46 | 11 | 13 | 4.6 | 3.0 |
| 24 | 2.0 | e1.7 | e.80 | e1.2 | e1.9 | e5.4 | 44 | 42 | 11 | 7.8 | 4.6 | 9.4 |
| 25 | 2.1 | e1.6 | e.90 | e.90 | e4.0 | e6.0 | 42 | 40 | 11 | 6.6 | 4.9 | 8.2 |
| 26 | 2.1 | e1.7 | e1.1 | e1.1 | e5.0 | e6.4 | 41 | 40 | 11 | 6.6 | 4.6 | 5.4 |
| 27 | 1.9 | e1.6 | e.90 | e1.2 | e6.0 | e7.0 | 40 | 42 | 10 | 6.2 | 4.6 | 5.3 |
| 28 | 2.0 | e1.5 | e1.0 | e1.3 | e7.0 | e7.4 | 40 | 40 | 10 | 6.0 | 4.4 | 5.1 |
| 29 | 1.7 | e1.7 | e1.0 | e1.4 | --- | e11 | 40 | 39 | 10 | 5.8 | 4.6 | 4.6 |
| 30 | 1.9 | e1.7 | e1.0 | e1.2 | --- | e21 | 40 | 37 | 9.8 | 5.6 | 4.8 | 4.6 |
| 31 | 1.7 | --- | e.90 | e1.2 | --- | e35 | --- | 36 | --- | 5.6 | 5.3 | --- |
| TOTAL | 81.3 | 46.6 | 33.40 | 39.60 | 53.20 | 248.2 | 1141 | 1340 | 573.8 | 267.9 | 155.4 | 128.5 |
| MEAN | 2.62 | 1.55 | 1.08 | 1.28 | 1.90 | 8.01 | 38.0 | 43.2 | 19.1 | 8.64 | 5.01 | 4.28 |
| MAX | 4.1 | 1.9 | 1.8 | 2.0 | 7.0 | 35 | 44 | 56 | 45 | 13 | 6.4 | 9.4 |
| MIN | 1.7 | 1.3 | .80 | .90 | .80 | 5.0 | 33 | 36 | 9.8 | 5.6 | 4.4 | 2.6 |
| ACFT | 161 | 92 | 66 | 79 | 106 | 492 | 2260 | 2660 | 1140 | 531 | 308 | 255 |

| | | | | | | | | | | |
|-------------|-------|---------|------|------|-----|----|-----|-----|------|------|
| CAL YR 1985 | TOTAL | 3638.80 | MEAN | 9.97 | MAX | 49 | MIN | .80 | ACFT | 7220 |
| WTR YR 1986 | TOTAL | 4108.90 | MEAN | 11.3 | MAX | 56 | MIN | .80 | ACFT | 8150 |

e Estimated.

GREEN RIVER BASIN

115

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 good. 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 ft³/s June 6, 1984, gage height, 1.55 ft; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 37 ft³/s June 5, gage height, 1.18 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|------|------|--------|
| 1 | | | | | | | | | 7.0 | 14 | 16 | 12 |
| 2 | | | | | | | | | 19 | 15 | 16 | 12 |
| 3 | | | | | | | | | 30 | 15 | 16 | 11 |
| 4 | | | | | | | | | 34 | 15 | 16 | 11 |
| 5 | | | | | | | | | 36 | 15 | 16 | 10 |
| 6 | | | | | | | | | 34 | 14 | 16 | 10 |
| 7 | | | | | | | | | 30 | 14 | 16 | 10 |
| 8 | | | | | | | | | 26 | 15 | 16 | 10 |
| 9 | | | | | | | | | 18 | 17 | 16 | 9.7 |
| 10 | | | | | | | | | 8.9 | 17 | 16 | 9.7 |
| 11 | | | | | | | | | 7.1 | 18 | 16 | 9.4 |
| 12 | | | | | | | | | 14 | 18 | 16 | e5.0 |
| 13 | | | | | | | | | 21 | 18 | 16 | .00 |
| 14 | | | | | | | | | 20 | 17 | 15 | .00 |
| 15 | | | | | | | | | 19 | 17 | 15 | .00 |
| 16 | | | | | | | | | 20 | 17 | 15 | .00 |
| 17 | | | | | | | | | 20 | 17 | 14 | .00 |
| 18 | | | | | | | | | 13 | 17 | 14 | .00 |
| 19 | | | | | | | | | 6.6 | 17 | 15 | .00 |
| 20 | | | | | | | | | 10 | 17 | 15 | .00 |
| 21 | | | | | | | | | 15 | 17 | 15 | .00 |
| 22 | | | | | | | | | 12 | 18 | 15 | .00 |
| 23 | | | | | | | | | 11 | 17 | 14 | .00 |
| 24 | | | | | | | | | 11 | 17 | 14 | .00 |
| 25 | | | | | | | | | 12 | 17 | 14 | .00 |
| 26 | | | | | | | | | 12 | 17 | 14 | .00 |
| 27 | | | | | | | | | 12 | 17 | 13 | .00 |
| 28 | | | | | | | | | 14 | 17 | 13 | .00 |
| 29 | | | | | | | | | 14 | 17 | 13 | .00 |
| 30 | | | | | | | | | 14 | 16 | 13 | .00 |
| 31 | | | | | | | | | --- | 16 | 13 | --- |
| TOTAL | | | | | | | | | 520.6 | 510 | 462 | 119.80 |
| MEAN | | | | | | | | | 17.4 | 16.5 | 14.9 | 3.99 |
| MAX | | | | | | | | | 36 | 18 | 16 | 12 |
| MIN | | | | | | | | | 6.6 | 14 | 13 | .00 |
| ACFT | | | | | | | | | 1030 | 1010 | 916 | 238 |

e Estimated.

GREEN RIVER BASIN

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 mi².

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 good except for estimated daily discharges, which are 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.--47 years, 19.7 ft³/s, 14,270 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 419 ft³/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 discharge, 347 ft³/s May 27, gage height, 3.37 ft; minimum daily discharge, 4.3 ft³/s Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|---------|-------|-------|-------|------|-------|------|-------|-------|-------|
| 1 | 4.4 | 5.6 | 7.2 | e5.1 | 6.1 | 7.0 | 28 | 110 | 282 | 23 | 8.8 | 7.1 |
| 2 | 4.5 | 5.5 | 7.4 | e5.1 | 6.4 | 7.0 | 31 | 135 | 286 | 22 | 8.5 | 6.8 |
| 3 | 4.6 | 5.5 | 7.6 | e5.1 | 6.8 | 7.0 | 29 | 172 | 285 | 21 | 8.4 | 6.4 |
| 4 | 4.3 | 5.5 | 7.2 | e5.1 | 5.9 | 7.3 | 26 | 199 | 278 | 21 | 8.2 | 6.0 |
| 5 | 4.4 | 5.7 | 7.2 | e5.2 | 5.7 | 7.3 | 24 | 137 | 273 | 20 | 8.2 | 5.6 |
| 6 | 4.5 | 5.8 | 8.0 | e5.2 | 5.7 | 7.6 | 25 | 115 | 260 | 19 | 8.2 | 5.4 |
| 7 | 12 | 5.6 | 6.8 | e5.2 | e5.4 | 7.6 | 28 | 96 | 242 | 19 | 8.2 | 5.4 |
| 8 | 11 | 5.6 | e6.6 | e5.2 | e5.2 | 8.6 | 27 | 84 | 225 | 18 | 8.1 | 5.4 |
| 9 | 9.0 | 5.8 | e6.0 | e5.2 | e5.0 | 9.7 | 24 | 74 | 204 | 17 | 8.1 | 5.3 |
| 10 | 7.9 | 5.7 | e5.6 | e5.2 | e4.9 | 8.6 | 22 | 66 | 175 | 16 | 7.9 | 6.1 |
| 11 | 7.8 | 5.8 | e4.5 | 5.8 | e4.9 | 8.6 | 22 | 67 | 147 | 15 | 7.5 | 5.8 |
| 12 | 7.2 | 5.8 | e4.8 | 5.8 | e5.0 | 8.3 | 22 | 84 | 136 | 15 | 7.5 | 5.6 |
| 13 | 7.5 | 6.4 | e5.0 | 6.1 | e5.0 | 8.0 | 24 | 101 | 120 | 15 | 8.0 | 5.5 |
| 14 | 6.8 | 6.7 | e5.0 | 6.1 | e5.1 | 7.6 | 21 | 119 | 112 | 14 | 7.4 | 5.2 |
| 15 | 6.3 | 6.4 | e5.0 | 6.5 | e5.1 | 7.6 | 20 | 127 | 105 | 13 | 7.4 | 5.3 |
| 16 | 6.0 | 6.1 | e5.0 | 6.1 | e5.4 | 7.3 | 21 | 106 | 96 | 15 | 7.2 | 5.3 |
| 17 | 5.6 | 6.3 | e5.0 | 5.9 | e6.2 | 7.3 | 21 | 92 | 83 | 14 | 6.9 | 5.1 |
| 18 | 5.6 | 6.8 | e5.0 | 5.5 | e8.0 | 7.0 | 19 | 117 | 73 | 13 | 6.5 | 5.2 |
| 19 | 5.4 | 6.4 | e5.0 | 6.1 | e10 | 7.0 | 17 | 178 | 59 | 12 | 6.4 | 5.3 |
| 20 | 5.4 | 6.1 | e5.0 | 5.9 | e9.0 | 6.7 | 18 | 237 | 51 | 12 | 6.6 | 5.2 |
| 21 | 5.5 | 5.9 | e5.0 | 5.9 | e7.6 | 7.0 | 23 | 277 | 40 | 12 | 7.8 | 5.2 |
| 22 | 6.0 | 6.2 | e5.2 | 5.9 | e7.0 | 7.3 | 34 | 282 | 36 | 12 | 7.6 | 5.1 |
| 23 | 5.9 | 6.2 | e5.2 | 5.6 | e7.0 | 7.6 | 49 | 244 | 33 | 13 | 7.1 | 5.4 |
| 24 | 6.2 | 7.9 | e5.2 | 5.5 | e7.2 | 8.3 | 64 | 252 | 32 | 12 | 7.2 | 7.8 |
| 25 | 6.1 | 8.6 | e5.2 | 5.5 | e7.8 | 8.3 | 50 | 277 | 32 | 12 | 7.5 | 9.0 |
| 26 | 5.8 | 7.1 | e5.1 | 5.5 | e7.6 | 8.6 | 41 | 301 | 30 | 11 | 6.7 | 8.4 |
| 27 | 5.8 | 6.8 | e5.1 | 6.1 | e7.4 | 9.3 | 35 | 313 | 28 | 10 | 6.6 | 7.1 |
| 28 | 5.8 | 7.3 | e5.0 | 5.8 | e7.4 | 10 | 37 | 311 | 26 | 9.8 | 6.4 | 7.2 |
| 29 | 5.7 | 8.5 | e5.0 | 5.4 | --- | 12 | 59 | 309 | 25 | 9.5 | 6.5 | 6.8 |
| 30 | 5.9 | 7.6 | e5.0 | 5.4 | --- | 15 | 87 | 301 | 24 | 9.3 | 6.7 | 7.1 |
| 31 | 5.8 | --- | e5.0 | 7.2 | --- | 22 | --- | 290 | --- | 9.1 | 6.5 | --- |
| TOTAL | 194.7 | 191.2 | 174.9 | 175.2 | 179.8 | 268.5 | 948 | 5573 | 3798 | 453.7 | 230.6 | 182.1 |
| MEAN | 6.28 | 6.37 | 5.64 | 5.65 | 6.42 | 8.66 | 31.6 | 180 | 127 | 14.6 | 7.44 | 6.07 |
| MAX | 12 | 8.6 | 8.0 | 7.2 | 10 | 22 | 87 | 313 | 286 | 23 | 8.8 | 9.0 |
| MIN | 4.3 | 5.5 | 4.5 | 5.1 | 4.9 | 6.7 | 17 | 66 | 24 | 9.1 | 6.4 | 5.1 |
| ACFT | 386 | 379 | 347 | 348 | 357 | 533 | 1880 | 11050 | 7530 | 900 | 457 | 361 |
| CAL YR 1985 | TOTAL | | 9921.8 | MEAN | 27.2 | MAX | 254 | MIN | 4.3 | ACFT | 19680 | |
| WTR YR 1986 | TOTAL | | 12369.7 | MEAN | 33.9 | MAX | 313 | MIN | 4.3 | ACFT | 24540 | |

e Estimated.

GREEN RIVER BASIN

117

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 mi².

PERIOD OF RECORD.--June to October 1931, April to September 1932, October 1938 to current year. Published as Price River above Scofield Reservoir, near Scofield, October 1938 to September 1967.

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

GAGE.--Water-stage recorder. Altitude of gage is 7,670 ft from topographic map. June 1931 to September 1932, and October 1938 to July 27, 1967, at various sites about 0.5 mi downstream at different datums.

REMARKS.--Records good, except for estimated daily discharges, which are poor. Small transmountain diversions in headwaters for irrigation in Sevier Lake basin.

AVERAGE DISCHARGE.--48 years (1938-86), 51.1 ft³/s, 37,020 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,450 ft³/s May 21, 1984, gage height, 6.20 ft; minimum recorded, 0.6 ft³/s Oct. 31, 1960.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 270 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| May 3 | 2200 | 614 | 3.68 | May 26 | 2400 | 798 | 4.21 |
| May 21 | 2300 | *820 | *4.27 | | | | |

Minimum recorded discharge, 8.7 ft³/s, Nov. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|-------|-------|-------|------|------|
| 1 | 13 | 15 | e17 | e11 | e16 | e22 | 142 | 349 | 573 | 69 | 28 | 20 |
| 2 | 13 | 15 | e18 | e11 | e17 | e22 | 142 | 413 | 554 | 67 | 27 | 20 |
| 3 | 14 | 15 | e18 | e13 | e18 | e22 | 122 | 494 | 530 | 64 | 26 | 20 |
| 4 | 13 | 14 | e15 | e12 | e16 | e26 | 109 | 542 | 500 | 64 | 24 | 18 |
| 5 | 13 | 15 | e15 | e12 | e15 | e26 | 101 | 429 | 472 | 61 | 24 | 17 |
| 6 | 13 | 14 | e16 | e12 | e14 | e29 | 103 | 379 | 431 | 60 | 24 | 17 |
| 7 | 31 | 16 | e15 | e12 | e13 | e33 | 113 | 327 | 389 | 58 | 24 | 17 |
| 8 | 28 | 15 | e14 | e11 | e12 | e42 | 108 | 292 | 355 | 56 | 23 | 17 |
| 9 | 24 | 15 | e13 | e15 | e11 | e39 | 102 | 262 | 321 | 55 | 23 | 17 |
| 10 | 21 | e14 | e12 | e17 | e11 | e38 | 97 | 238 | 285 | 53 | 22 | 20 |
| 11 | 20 | e14 | e11 | e18 | e11 | e39 | 101 | 236 | 250 | 51 | 21 | 18 |
| 12 | 19 | e15 | e11 | e18 | e12 | e38 | 101 | 253 | 235 | 51 | 22 | 17 |
| 13 | 19 | e16 | e11 | e18 | e12 | e38 | 108 | 281 | 216 | 50 | 24 | 17 |
| 14 | 18 | e16 | e12 | e19 | e12 | 38 | 100 | 317 | 204 | 47 | 21 | 17 |
| 15 | 17 | e15 | e11 | e19 | e12 | 38 | 101 | 338 | 192 | 48 | 21 | 15 |
| 16 | 16 | e16 | e11 | e18 | e13 | 36 | 108 | 312 | 179 | 53 | 20 | 15 |
| 17 | 15 | e15 | e12 | e17 | e13 | 36 | 105 | 291 | 163 | 47 | 20 | 15 |
| 18 | 15 | e14 | e12 | e16 | e14 | 33 | 97 | 325 | 151 | 44 | 19 | 15 |
| 19 | 15 | e13 | e11 | e17 | e29 | 32 | 92 | 424 | 134 | 41 | 20 | 15 |
| 20 | 15 | e14 | e11 | e17 | e24 | 30 | 98 | 561 | 123 | 40 | 20 | 15 |
| 21 | 15 | e14 | e11 | e17 | e22 | 31 | 122 | 689 | 110 | 39 | 23 | 15 |
| 22 | 17 | e13 | e12 | e17 | e22 | 34 | 162 | 710 | 101 | 40 | 24 | 15 |
| 23 | 17 | e14 | e12 | e16 | e22 | 38 | 211 | 598 | 95 | 42 | 22 | 15 |
| 24 | 17 | e16 | e12 | e16 | e24 | 43 | 246 | 592 | 93 | 40 | 23 | 21 |
| 25 | 17 | e17 | e12 | e16 | e24 | 45 | 219 | 642 | 93 | 38 | 24 | 25 |
| 26 | 16 | e16 | e12 | e16 | e24 | 48 | 193 | 701 | 88 | 36 | 20 | 24 |
| 27 | 15 | e15 | e12 | e17 | e24 | 55 | 172 | 735 | 82 | 34 | 20 | 20 |
| 28 | 15 | e17 | e12 | e16 | e24 | 67 | 178 | 717 | 78 | 32 | 20 | 20 |
| 29 | 15 | e18 | e11 | e15 | --- | 79 | 223 | 685 | 75 | 31 | 19 | 20 |
| 30 | 15 | e18 | e11 | e14 | --- | 93 | 283 | 653 | 73 | 29 | 20 | 20 |
| 31 | 15 | --- | e11 | e19 | --- | 134 | --- | 613 | --- | 29 | 20 | --- |
| TOTAL | 526 | 454 | 394 | 482 | 481 | 1324 | 4159 | 14398 | 7145 | 1469 | 688 | 537 |
| MEAN | 17.0 | 15.1 | 12.7 | 15.5 | 17.2 | 42.7 | 139 | 464 | 238 | 47.4 | 22.2 | 17.9 |
| MAX | 31 | 18 | 18 | 19 | 29 | 134 | 283 | 735 | 573 | 69 | 28 | 25 |
| MIN | 13 | 13 | 11 | 11 | 11 | 22 | 92 | 236 | 73 | 29 | 19 | 15 |
| ACFT | 1040 | 901 | 781 | 956 | 954 | 2630 | 8250 | 28560 | 14170 | 2910 | 1360 | 1070 |
| CAL YR 1985 | TOTAL | 23776 | MEAN | 65.1 | MAX | 631 | MIN | 10 | ACFT | 47160 | | |
| WTR YR 1986 | TOTAL | 32057 | MEAN | 87.8 | MAX | 735 | MIN | 11 | ACFT | 63590 | | |

e Estimated.

GREEN RIVER BASIN

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 mi².

PERIOD OF RECORD.--August 1978 to September 1986 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 7,720 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--8 years, 20.0 ft³/s, 14,490 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 389 ft³/s May 21, 1984, gage height, 3.30 ft; minimum, 1.4 ft³/s Sept. 8, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 170 ft³/s May 29; minimum daily discharge, 4.4 ft³/s Feb. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|-------|-------|------|------|------|-------|------|------|
| 1 | e9.6 | 10 | e9.5 | e5.2 | e7.5 | e12 | 60 | e78 | e154 | 39 | 16 | 14 |
| 2 | e9.6 | 11 | e9.1 | e6.0 | e8.4 | 13 | 52 | e88 | e152 | 37 | 15 | 14 |
| 3 | e10 | 11 | e10 | e6.4 | e8.8 | 14 | 42 | e102 | e150 | 37 | 15 | 13 |
| 4 | e9.6 | 11 | e8.7 | e6.0 | e8.3 | 16 | 37 | e101 | e149 | 35 | 15 | 13 |
| 5 | e9.4 | 11 | e7.8 | e6.0 | e7.4 | 17 | 34 | e86 | e144 | 33 | 15 | 13 |
| 6 | e9.4 | 9.6 | e7.2 | e6.0 | e5.7 | 18 | 35 | e76 | e132 | 30 | 16 | 13 |
| 7 | e21 | 11 | e6.9 | e7.0 | e5.2 | 17 | 34 | e63 | e125 | 29 | 15 | 13 |
| 8 | e16 | 11 | e6.8 | e8.0 | e4.9 | 20 | 32 | e55 | e118 | 28 | 15 | 13 |
| 9 | e12 | e11 | e6.6 | e9.7 | e4.7 | 17 | 31 | e49 | e115 | 26 | 15 | 13 |
| 10 | e11 | e10 | e6.0 | e10 | e4.4 | 13 | 31 | e46 | e113 | 23 | 15 | 15 |
| 11 | e11 | e10 | e5.6 | e10 | e5.0 | 12 | 31 | e45 | e105 | 22 | 15 | 13 |
| 12 | e11 | e11 | e5.6 | e10 | e5.0 | 13 | 32 | e47 | e98 | 20 | 15 | 13 |
| 13 | e10 | e12 | e5.6 | e10 | e5.0 | 10 | 32 | e53 | e92 | 19 | 15 | 14 |
| 14 | e10 | e12 | e6.2 | e11 | e5.0 | 9.8 | 27 | 63 | e86 | 18 | 14 | 14 |
| 15 | e10 | e11 | e5.6 | e12 | e5.0 | 11 | 28 | e66 | e82 | 21 | 14 | 13 |
| 16 | 11 | e11 | e6.0 | e11 | e6.0 | 9.4 | 30 | e65 | e78 | 24 | 13 | 13 |
| 17 | 12 | e12 | e6.0 | e10 | e6.6 | 9.3 | 28 | e61 | e77 | 23 | 13 | 13 |
| 18 | 11 | e10 | e5.4 | e9.0 | e7.6 | 9.1 | 25 | e65 | 76 | 22 | 13 | 13 |
| 19 | 11 | e9.0 | e5.4 | e10 | e8.8 | 9.9 | 24 | e81 | 72 | 22 | 14 | 13 |
| 20 | 11 | e9.0 | e5.4 | e10 | e8.0 | 10 | 28 | e100 | 67 | 22 | 14 | 13 |
| 21 | 12 | e10 | e5.8 | e10 | e7.4 | 10 | 35 | e119 | 62 | 21 | 18 | 13 |
| 22 | 13 | e9.0 | e6.2 | e10 | e7.6 | 12 | 43 | e113 | 58 | 22 | 16 | 13 |
| 23 | 12 | e9.0 | e6.2 | e9.0 | e8.0 | 15 | 55 | e107 | 56 | 22 | 14 | 14 |
| 24 | 12 | e9.5 | e6.2 | e9.0 | e8.6 | 17 | 62 | e107 | 53 | 20 | 15 | 22 |
| 25 | 11 | e10 | e6.2 | e9.0 | e9.1 | 19 | 56 | e118 | 52 | 21 | 15 | 17 |
| 26 | 12 | e9.5 | e6.2 | e10 | e9.0 | 21 | 50 | e134 | 50 | 20 | 14 | 16 |
| 27 | 12 | e9.0 | e6.2 | e9.0 | e9.0 | 26 | 45 | e158 | 48 | 19 | 13 | 15 |
| 28 | 12 | e9.5 | e6.2 | e8.0 | e11 | 34 | 48 | e160 | 46 | 18 | 13 | 16 |
| 29 | 11 | e10 | e5.2 | e7.5 | --- | 42 | 56 | e170 | 44 | 17 | 13 | 14 |
| 30 | 11 | e11 | e5.2 | e7.0 | --- | 50 | 61 | e165 | 41 | 17 | 14 | 14 |
| 31 | 11 | --- | e5.2 | e9.0 | --- | 62 | --- | e158 | --- | 16 | 14 | --- |
| TOTAL | 354.6 | 310.1 | 200.2 | 270.8 | 197.0 | 568.5 | 1184 | 2899 | 2695 | 743 | 451 | 420 |
| MEAN | 11.4 | 10.3 | 6.46 | 8.74 | 7.04 | 18.3 | 39.5 | 93.5 | 89.8 | 24.0 | 14.5 | 14.0 |
| MAX | 21 | 12 | 10 | 12 | 11 | 62 | 62 | 170 | 154 | 39 | 18 | 22 |
| MIN | 9.4 | 9.0 | 5.2 | 5.2 | 4.4 | 9.1 | 24 | 45 | 41 | 16 | 13 | 13 |
| ACFT | 703 | 615 | 397 | 537 | 391 | 1130 | 2350 | 5750 | 5350 | 1470 | 895 | 833 |
| CAL YR 1985 | TOTAL | 8156.3 | MEAN | 22.3 | MAX | 109 | MIN | 5.2 | ACFT | 16180 | | |
| WTR YR 1986 | TOTAL | 10293.2 | MEAN | 28.2 | MAX | 170 | MIN | 4.4 | ACFT | 20420 | | |

e Estimated.

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 mi².

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 provided 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, 74,370 acre-ft June 3,4, elevation, 7,620.5 ft; minimum observed, 40,250 acre-ft Oct. 1-7, elevation, 7,607.8 ft.

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

| | | | |
|-------|--------|-------|--------|
| 7,607 | 38,310 | 7,615 | 58,870 |
| 7,608 | 40,740 | 7,620 | 72,930 |
| 7,610 | 45,720 | 7,621 | 75,860 |

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
INSTANTANEOUS VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 40250 | 41480 | 43460 | 44960 | 46740 | 49310 | 44210 | 46740 | 74090 | 68330 | 60230 | 49830 |
| 2 | 40250 | 41480 | 43460 | 44960 | 46740 | 49310 | 44210 | 47760 | 74090 | 67760 | 59960 | 49830 |
| 3 | 40250 | 41480 | 43710 | 44960 | 46740 | 49310 | 44210 | 48790 | 74370 | 67760 | 59690 | 49570 |
| 4 | 40250 | 41480 | 43710 | 44960 | 46740 | 49310 | 44210 | 49830 | 74370 | 67190 | 59410 | 49310 |
| 5 | 40250 | 41720 | 43960 | 44960 | 47000 | 49050 | 43960 | 50610 | 74090 | 66910 | 59140 | 49050 |
| 6 | 40250 | 41720 | 43960 | 44960 | 47000 | 49050 | 43960 | 51390 | 74090 | 66910 | 58600 | 48790 |
| 7 | 40250 | 41720 | 43960 | 45470 | 47000 | 49050 | 43960 | 51920 | 73800 | 66630 | 58320 | 48540 |
| 8 | 40490 | 41720 | 43960 | 45470 | 47000 | 48790 | 43960 | 52440 | 73510 | 66060 | 58050 | 48280 |
| 9 | 40490 | 41720 | 44210 | 45470 | 47000 | 48790 | 43960 | 52710 | 72930 | 65780 | 57510 | 48020 |
| 10 | 40490 | 41720 | 44210 | 45470 | 47250 | 48790 | 43960 | 52970 | 72640 | 65500 | 57240 | 47760 |
| 11 | 40740 | 41970 | 44210 | 45720 | 47250 | 48540 | 43960 | 53230 | 72350 | 64660 | 56430 | 47510 |
| 12 | 40740 | 41970 | 44210 | 45720 | 47250 | 48280 | 43960 | 53500 | 72060 | 64660 | 56160 | 47250 |
| 13 | 40740 | 41970 | 44460 | 45720 | 47250 | 48020 | 43960 | 54030 | 72060 | 64660 | 55630 | 47000 |
| 14 | 40740 | 42220 | 44460 | 45720 | 47510 | 47760 | 43960 | 54560 | 71770 | 64380 | 55360 | 46740 |
| 15 | 40740 | 42460 | 44460 | 45720 | 47510 | 47250 | 43710 | 54830 | 71480 | 64100 | 55090 | 46480 |
| 16 | 40740 | 42460 | 44460 | 45720 | 47510 | 47000 | 43710 | 55360 | 71480 | 63820 | 54560 | 46480 |
| 17 | 40980 | 42460 | 44460 | 45980 | 47760 | 46740 | 43710 | 55900 | 71200 | 63550 | 54300 | 46230 |
| 18 | 40980 | 42710 | 44460 | 45980 | 48020 | 46480 | 43710 | 56700 | 70910 | 62990 | 53760 | 45720 |
| 19 | 40980 | 42710 | 44710 | 45980 | 48280 | 46230 | 43460 | 57780 | 70910 | 62710 | 53500 | 45470 |
| 20 | 40980 | 42710 | 44710 | 45980 | 48540 | 45720 | 43460 | 59410 | 70620 | 62440 | 53230 | 45220 |
| 21 | 40980 | 42710 | 44710 | 46230 | 48540 | 45470 | 43710 | 60780 | 70330 | 62160 | 52970 | 44960 |
| 22 | 40980 | 42710 | 44710 | 46230 | 48790 | 45220 | 43710 | 62710 | 70040 | 61880 | 52710 | 44710 |
| 23 | 40980 | 42960 | 44710 | 46230 | 48790 | 44960 | 43960 | 64380 | 70040 | 61880 | 52440 | 44710 |
| 24 | 40980 | 42960 | 44710 | 46230 | 48790 | 44710 | 44460 | 65780 | 69760 | 61610 | 52180 | 44460 |
| 25 | 40980 | 42960 | 44710 | 46230 | 49050 | 44460 | 44960 | 67480 | 69760 | 61610 | 51650 | 44460 |
| 26 | 41230 | 43210 | 44710 | 46480 | 49050 | 44210 | 44960 | 67480 | 69470 | 61330 | 51650 | 44460 |
| 27 | 41230 | 43210 | 44960 | 46480 | 49310 | 43960 | 45220 | 70620 | 69190 | 61330 | 51130 | 44210 |
| 28 | 41230 | 43210 | 44960 | 46480 | 49310 | 43710 | 45470 | 71770 | 68900 | 61060 | 50870 | 44210 |
| 29 | 41230 | 43210 | 44960 | 46480 | --- | 43710 | 45720 | 72640 | 68620 | 60780 | 50610 | 44210 |
| 30 | 41480 | 43460 | 44960 | 46480 | --- | 43960 | 45720 | 73220 | 68620 | 60780 | 50350 | 44210 |
| 31 | 41480 | --- | 44960 | 46740 | --- | 43710 | --- | 73800 | --- | 60510 | 50090 | --- |
| MAX | --- | 43460 | 44960 | --- | 49310 | --- | 45720 | 73800 | 74370 | 68330 | 60230 | 49830 |
| MIN | --- | 41480 | 43460 | --- | 46740 | --- | 43460 | 46740 | 68620 | 60510 | 50090 | 44210 |
| (#) | 7608.3 | 7609.1 | 7609.7 | --- | 7611.4 | 7609.2 | 7610.0 | 7620.3 | 7618.5 | 7615.6 | 7611.7 | 7609.4 |
| (*) | +1230 | +1980 | +1500 | +1780 | +2570 | -5600 | +2010 | +28080 | -5180 | -8110 | -10420 | -5880 |

CAL YR 1985 (*) -2040

WTR YR 1986 (*) +3960

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

(a) No gage reading, contents interpolated.

GREEN RIVER BASIN

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 mi².

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 for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--19 years, 33.8 ft³/s, 24,490 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 962 ft³/s May 27, 1983, gage height, 5.82 ft; no flow many days August and September 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|-----------------------------------|---------------------|-------|------|-----------------------------------|---------------------|
| Mar. 31 | 1900 | 219 | 2.58 | May 4 | 1100 | *392 | *3.43 |
| Apr. 24 | 2100 | 290 | 2.96 | | | | |

Minimum discharge, 2.7 ft³/s Nov. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|------|-------|-------|------|------|-------|-------|
| 1 | 4.6 | 5.7 | e6.3 | e4.8 | e6.2 | 58 | 194 | 266 | 139 | 38 | 12 | 9.7 |
| 2 | 5.1 | 6.1 | e6.3 | e5.0 | e6.1 | 60 | 185 | 308 | 131 | 36 | 12 | 10 |
| 3 | 5.4 | 5.9 | e6.4 | e5.0 | e6.1 | 66 | 154 | 342 | 122 | 33 | 11 | 8.0 |
| 4 | 5.3 | 6.2 | e6.4 | e5.4 | e6.0 | 48 | 135 | 384 | 114 | 34 | 11 | 8.0 |
| 5 | 5.5 | 7.1 | e6.7 | e5.3 | e6.0 | 48 | 127 | 347 | 108 | 34 | 11 | 7.7 |
| 6 | 5.7 | 6.2 | e6.3 | e5.3 | e6.0 | 53 | 131 | 308 | 100 | 33 | 11 | 7.5 |
| 7 | 12 | 5.2 | e5.8 | e5.0 | e6.0 | 53 | 141 | 272 | 93 | 32 | 12 | 8.0 |
| 8 | 9.1 | 5.9 | e6.0 | e5.0 | e6.0 | 50 | 139 | 246 | 88 | 31 | 11 | 8.0 |
| 9 | 8.6 | e6.4 | e5.9 | e5.0 | e6.0 | 51 | 133 | 223 | 85 | 30 | 11 | 8.6 |
| 10 | 7.8 | e6.3 | e5.9 | e5.3 | e5.8 | 45 | 129 | 201 | 82 | 28 | 11 | 9.8 |
| 11 | 7.2 | e6.4 | e5.3 | e5.3 | e5.9 | 40 | 131 | 186 | 77 | 28 | 10 | 9.0 |
| 12 | 7.1 | e6.5 | e5.0 | e5.3 | e6.0 | 37 | 136 | 179 | 73 | 26 | 10 | 8.4 |
| 13 | 8.3 | e6.4 | e5.0 | e5.1 | e6.1 | 34 | 148 | 186 | 69 | 24 | 9.9 | 8.1 |
| 14 | 7.1 | e6.4 | e5.0 | e5.1 | 5.8 | 32 | 145 | 201 | 66 | 21 | 9.8 | 8.2 |
| 15 | 6.9 | e6.4 | e5.2 | e5.4 | 6.7 | 29 | 141 | 215 | 64 | 22 | 9.7 | 8.3 |
| 16 | 6.9 | e6.5 | e4.9 | e5.4 | 6.9 | 28 | 145 | 218 | 63 | 26 | 9.0 | 8.1 |
| 17 | 7.2 | e6.6 | e4.9 | e5.6 | 7.3 | 26 | 141 | 206 | 61 | 21 | 7.7 | 8.0 |
| 18 | 7.3 | e6.6 | e5.0 | e5.6 | 11 | 25 | 133 | 198 | 58 | 19 | 7.3 | 7.7 |
| 19 | 6.1 | e6.5 | e5.0 | e5.9 | 32 | 23 | 128 | 204 | 55 | 18 | 8.1 | 8.2 |
| 20 | 6.0 | e6.3 | e5.0 | e5.7 | 54 | 23 | 132 | 224 | 52 | 17 | 9.5 | 7.7 |
| 21 | 6.9 | e6.6 | e4.7 | e5.6 | 50 | 25 | 156 | 244 | 50 | 17 | 10 | 7.7 |
| 22 | 7.1 | e6.6 | e4.7 | e5.3 | 48 | 29 | 196 | 246 | 48 | 19 | 12 | 7.7 |
| 23 | 6.7 | e6.7 | e4.7 | e5.5 | 42 | 38 | 231 | 231 | 48 | 19 | 11 | 8.2 |
| 24 | 6.3 | e6.9 | e4.9 | e5.7 | 42 | 50 | 268 | 217 | 46 | 18 | 9.2 | 14 |
| 25 | 6.1 | e7.0 | e4.9 | e5.5 | 52 | 60 | 265 | 199 | 45 | 17 | 8.8 | 13 |
| 26 | 6.0 | e6.9 | e4.6 | e5.2 | 38 | 68 | 244 | 198 | 45 | 16 | 8.2 | 12 |
| 27 | 5.9 | e6.9 | e4.6 | e5.3 | 43 | 76 | 219 | 195 | 43 | 15 | 7.7 | 10 |
| 28 | 5.9 | e6.9 | e4.9 | e5.3 | 52 | 93 | 204 | 184 | 42 | 14 | 7.6 | 9.8 |
| 29 | 5.7 | e6.9 | e5.0 | e5.7 | --- | 111 | 206 | 171 | 41 | 13 | 11 | 9.2 |
| 30 | 6.1 | e6.5 | e5.0 | e5.7 | --- | 132 | 229 | 159 | 40 | 13 | 10 | 9.6 |
| 31 | 6.2 | --- | e5.0 | e5.7 | --- | 196 | --- | 148 | --- | 13 | 9.3 | --- |
| TOTAL | 208.1 | 193.5 | 165.3 | 166.0 | 568.9 | 1707 | 5066 | 7106 | 2148 | 725 | 308.8 | 268.2 |
| MEAN | 6.71 | 6.45 | 5.33 | 5.35 | 20.3 | 55.1 | 169 | 229 | 71.6 | 23.4 | 9.96 | 8.94 |
| MAX | 12 | 7.1 | 6.7 | 5.9 | 54 | 196 | 268 | 384 | 139 | 38 | 12 | 14 |
| MIN | 4.6 | 5.2 | 4.6 | 4.8 | 5.8 | 23 | 127 | 148 | 40 | 13 | 7.3 | 7.5 |
| ACFT | 413 | 384 | 328 | 329 | 1130 | 3390 | 10050 | 14090 | 4260 | 1440 | 613 | 532 |

| | | | | | | | | | | |
|-------------|-------|---------|------|------|-----|-----|-----|-----|------|-------|
| CAL YR 1985 | TOTAL | 14164.8 | MEAN | 38.8 | MAX | 298 | MIN | 4.5 | ACFT | 28100 |
| WTR YR 1986 | TOTAL | 18630.8 | MEAN | 51.0 | MAX | 384 | MIN | 4.6 | ACFT | 36950 |

e Estimated.

GREEN RIVER BASIN

121

09312700 BEAVER CREEK NEAR SOLDIER SUMMIT, UT

LOCATION.--Lat $39^{\circ}49'50''$, long $110^{\circ}58'07''$, 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 mi².

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. Prior to July 15, 1983 at different datum.

REMARKS.--Records good, except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--26 years, 4.75 ft³/s, 3,440 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 204 ft³/s May 27, 1983, maximum gage height, 2.81 ft May 16, 1984, datum then in use; no flow for many days some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 23 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| Apr. 23 | 1900 | 25 | 1.85 | May 22 | 0200 | *57 | 2.13 |
| May 2 | 1900 | 54 | *2.18 | | | | |

Minimum discharge, 0.91 ft³/s Nov. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|------|------|------|-------|------|------|-------|-------|------|------|
| 1 | 1.1 | e1.2 | e1.5 | e1.1 | e1.7 | e5.0 | 17 | 38 | 41 | 7.4 | 2.2 | 2.3 |
| 2 | 1.1 | 1.1 | e1.5 | e1.2 | e1.6 | e5.0 | e16 | 37 | 38 | 6.9 | 2.1 | 2.0 |
| 3 | 1.0 | 1.2 | e1.7 | e1.2 | e1.6 | e5.2 | e17 | 44 | 36 | 6.5 | 2.0 | 1.8 |
| 4 | 1.0 | 1.2 | e1.7 | e1.3 | e1.5 | e4.0 | 13 | 42 | 34 | 6.4 | 1.9 | 1.7 |
| 5 | 1.0 | 1.2 | e2.1 | e1.2 | e1.5 | e4.4 | 12 | 40 | 32 | 6.3 | 1.9 | 1.5 |
| 6 | 1.0 | e1.1 | e2.0 | e1.2 | e1.5 | e4.5 | 13 | 36 | 30 | 6.3 | 2.1 | 1.4 |
| 7 | 2.3 | e1.1 | e1.9 | e1.0 | e1.5 | 4.4 | 14 | 33 | 27 | 6.0 | 2.6 | 1.4 |
| 8 | 2.9 | 1.2 | e2.2 | e1.0 | e1.5 | 5.0 | 13 | 30 | 26 | 6.2 | 2.1 | 1.3 |
| 9 | 2.2 | e1.2 | e2.1 | e1.0 | e1.5 | 4.9 | 13 | 29 | 25 | 5.9 | 2.3 | 1.4 |
| 10 | 2.1 | e1.1 | e2.1 | e1.1 | e1.4 | 4.8 | 13 | e29 | 24 | 5.2 | 2.0 | 1.7 |
| 11 | 1.9 | e1.5 | e1.9 | e1.1 | e1.5 | 4.6 | 14 | e30 | 22 | 4.9 | 1.8 | 1.8 |
| 12 | 1.8 | e1.6 | e1.5 | e1.1 | e1.6 | 3.9 | 14 | e31 | 20 | 4.7 | 1.8 | 1.5 |
| 13 | 1.8 | e1.4 | e1.5 | e1.0 | e2.0 | 4.3 | 15 | e33 | 19 | 4.2 | 2.5 | 1.4 |
| 14 | 1.7 | e1.3 | e1.5 | e1.0 | e2.0 | 3.8 | 14 | 36 | 17 | 4.1 | 2.0 | 1.8 |
| 15 | 1.5 | e1.3 | e1.6 | e1.1 | e2.3 | 3.8 | 15 | 40 | 17 | 4.6 | 1.9 | 1.6 |
| 16 | 1.4 | e1.3 | e1.4 | e1.1 | e2.5 | 3.3 | 13 | 40 | 15 | 5.8 | 1.8 | 1.4 |
| 17 | 1.3 | e1.4 | e1.4 | e1.2 | e2.7 | 4.1 | 13 | 39 | 15 | 4.5 | 1.6 | 1.3 |
| 18 | 1.3 | e1.5 | e1.5 | e1.2 | e3.3 | 3.4 | 14 | 40 | 15 | 4.3 | 1.4 | 1.3 |
| 19 | 1.3 | e1.4 | e1.5 | e1.3 | e4.0 | 3.9 | 17 | 44 | 14 | 3.7 | 1.4 | 1.3 |
| 20 | 1.3 | e1.3 | e1.5 | e1.2 | e4.7 | 4.4 | 18 | 50 | 13 | 3.6 | 2.0 | 1.2 |
| 21 | 1.3 | e1.4 | e1.2 | e1.1 | e4.3 | 3.7 | 19 | 55 | 13 | 3.5 | 2.1 | 1.2 |
| 22 | 1.3 | e1.4 | e1.2 | e1.0 | e4.2 | 4.0 | 20 | 56 | 12 | 3.7 | 2.6 | 1.1 |
| 23 | 1.3 | e1.5 | e1.2 | e1.1 | e4.1 | 4.6 | 21 | 53 | 11 | 4.2 | 3.4 | 1.3 |
| 24 | 1.3 | e1.5 | e1.3 | e1.3 | e3.8 | 5.1 | 20 | 52 | 11 | 3.6 | 2.2 | 10 |
| 25 | 1.3 | e1.6 | e1.3 | e1.2 | e4.6 | 5.1 | 19 | 50 | 11 | 3.3 | 2.1 | 4.7 |
| 26 | 1.3 | e1.6 | e1.1 | e1.1 | e4.3 | 6.0 | 17 | 51 | 11 | 3.2 | 1.9 | 3.9 |
| 27 | 1.2 | e1.6 | e1.1 | e1.2 | e4.4 | 7.3 | 17 | 51 | 9.5 | 3.1 | 1.7 | 3.3 |
| 28 | 1.2 | e1.6 | e1.2 | e1.2 | e4.7 | 8.9 | 19 | 49 | 8.9 | 2.8 | 1.6 | 3.4 |
| 29 | 1.2 | e1.6 | e1.2 | e1.5 | --- | 11 | 32 | 47 | 8.6 | 2.6 | 2.2 | 3.0 |
| 30 | 1.2 | e1.6 | e1.2 | e1.5 | --- | 13 | 35 | 45 | 8.0 | 2.5 | 2.6 | 2.7 |
| 31 | 1.2 | --- | e1.2 | e1.5 | --- | 16 | --- | 43 | --- | 2.3 | 2.6 | --- |
| TOTAL | 44.8 | 41.0 | 47.3 | 36.3 | 76.3 | 171.4 | 507 | 1293 | 584.0 | 142.3 | 64.4 | 65.7 |
| MEAN | 1.45 | 1.37 | 1.53 | 1.17 | 2.72 | 5.53 | 16.9 | 41.7 | 19.5 | 4.59 | 2.08 | 2.19 |
| MAX | 2.9 | 1.6 | 2.2 | 1.5 | 4.7 | 16 | 35 | 56 | 41 | 7.4 | 3.4 | 10 |
| MIN | 1.0 | 1.1 | 1.1 | 1.0 | 1.4 | 3.3 | 12 | 29 | 8.0 | 2.3 | 1.4 | 1.1 |
| ACFT | 89 | 81 | 94 | 72 | 151 | 340 | 1010 | 2560 | 1160 | 282 | 128 | 130 |
| CAL YR 1985 | TOTAL | 1754.58 | | MEAN | 4.81 | MAX | 41 | MIN | .57 | ACFT | 3480 | |
| WTR YR 1986 | TOTAL | 3073.5 | | MEAN | 8.42 | MAX | 56 | MIN | 1.0 | ACFT | 6100 | |

e Estimated.

GREEN RIVER BASIN

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 mi².

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 for estimated daily discharges, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--24 years, 9.93 ft³/s, 7,190 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 836 ft³/s Aug. 6, 1973, gage height, 6.47 ft from floodmarks; no flow on many days.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--|------|--------------------------------|------------------|--|------|--------------------------------|------------------|
| Aug. 12 | 1800 | *143 | *3.11 | No other peak greater than base discharge. | | | |
| Minimum discharge, 0.56 ft ³ /s Nov. 6. | | | | | | | |

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|-------|------|------|------|------|-------|-------|-------|
| 1 | 2.1 | e2.2 | e1.6 | e1.4 | e1.9 | e35 | 34 | e62 | 42 | 11 | 4.7 | 4.4 |
| 2 | 2.2 | 2.3 | e1.6 | e1.5 | e1.8 | e40 | 51 | e68 | 40 | 10 | 4.6 | 3.9 |
| 3 | 2.1 | 2.2 | e1.8 | e1.5 | e1.8 | e48 | 62 | e75 | 39 | 9.7 | 4.5 | 3.9 |
| 4 | 2.0 | 2.3 | e1.8 | e1.7 | e1.6 | e28 | 55 | 83 | 38 | 14 | 4.4 | 3.5 |
| 5 | 2.1 | 2.3 | e2.2 | e1.6 | e1.6 | e28 | 52 | 78 | 36 | 11 | 4.3 | 3.2 |
| 6 | 2.2 | 1.8 | e2.1 | e1.6 | e1.6 | e29 | e52 | 69 | 33 | 10 | 4.8 | 3.3 |
| 7 | 3.5 | 2.2 | e2.0 | e1.5 | e1.6 | 22 | e49 | e64 | 30 | 9.9 | 4.6 | 3.2 |
| 8 | 3.1 | 2.3 | e2.2 | e1.5 | e1.6 | 26 | e52 | e54 | 28 | 16 | 4.7 | 6.4 |
| 9 | 3.4 | 2.1 | e2.1 | e1.6 | e1.6 | 26 | e52 | e42 | 28 | 9.8 | 5.6 | 5.1 |
| 10 | 2.9 | e1.5 | e2.1 | e1.6 | e1.5 | 22 | e48 | e42 | 28 | 7.9 | 4.5 | 4.6 |
| 11 | 2.6 | e1.6 | e1.8 | e1.6 | e1.6 | 20 | e52 | e41 | 25 | 7.4 | 4.1 | 3.8 |
| 12 | 2.6 | e1.6 | e1.6 | e1.6 | e1.7 | 18 | e51 | e40 | 23 | 7.0 | 25 | 3.6 |
| 13 | 2.7 | e1.5 | e1.7 | e1.5 | e2.2 | 16 | e47 | e40 | 22 | 6.7 | 7.4 | 3.6 |
| 14 | 2.3 | e1.5 | e1.7 | e1.5 | e2.2 | 15 | e47 | e44 | 21 | 6.4 | 5.1 | 4.1 |
| 15 | 2.3 | e1.5 | e1.8 | e1.7 | e2.5 | 14 | e47 | 47 | 20 | 9.5 | 4.7 | 3.3 |
| 16 | 2.4 | e1.6 | e1.6 | e1.7 | e2.9 | 13 | e44 | 47 | 19 | 9.1 | 4.4 | 3.1 |
| 17 | 2.3 | e1.7 | e1.6 | e1.8 | e3.1 | 13 | e44 | 44 | 18 | 7.9 | 4.0 | 3.1 |
| 18 | 2.3 | e1.8 | e1.7 | e1.8 | e5.0 | 12 | e43 | 42 | 17 | 7.9 | 3.8 | 3.3 |
| 19 | 2.3 | e1.6 | e1.7 | e1.9 | e1.0 | 11 | e43 | 45 | 16 | 6.9 | 3.8 | 3.4 |
| 20 | 2.3 | e1.5 | e1.7 | e1.8 | e2.8 | 12 | e44 | 55 | 15 | 6.6 | 4.0 | 3.1 |
| 21 | 2.5 | e1.6 | e1.6 | e1.7 | e2.5 | 13 | e52 | 66 | 15 | 6.6 | 5.3 | 3.1 |
| 22 | 3.2 | e1.6 | e1.6 | e1.6 | e2.4 | 15 | e63 | 64 | 14 | 7.8 | 4.9 | 3.0 |
| 23 | 2.5 | e1.7 | e1.6 | e1.7 | e2.1 | 19 | e71 | 59 | 13 | 11 | 4.7 | 7.6 |
| 24 | 2.4 | e1.8 | e1.7 | e1.8 | e2.1 | 21 | 76 | 54 | 13 | 9.4 | 5.7 | 40 |
| 25 | 2.4 | e1.8 | e1.7 | e1.6 | e3.0 | 24 | 74 | 51 | 14 | 7.1 | 5.2 | 25 |
| 26 | 2.3 | e1.8 | e1.5 | e1.5 | e2.6 | 25 | e67 | 52 | 13 | 7.6 | 4.9 | 9.7 |
| 27 | 2.3 | e1.8 | e1.4 | e1.6 | e2.9 | 30 | e60 | 53 | 12 | 8.4 | 4.0 | 4.8 |
| 28 | 2.4 | e1.8 | e1.5 | e1.6 | e3.2 | 37 | e57 | 52 | 12 | 6.1 | 3.9 | 4.3 |
| 29 | 2.4 | e1.8 | e1.5 | e1.8 | --- | 35 | e54 | 48 | 11 | 5.2 | 4.4 | 3.6 |
| 30 | 2.4 | e1.7 | e1.5 | e1.8 | --- | 33 | e57 | 46 | 11 | 5.0 | 4.4 | 3.3 |
| 31 | 2.3 | --- | e1.5 | e1.8 | --- | 33 | --- | 44 | --- | 4.8 | 4.5 | --- |
| TOTAL | 76.8 | 54.5 | 53.5 | 50.9 | 283.8 | 733 | 1600 | 1671 | 666 | 263.7 | 164.9 | 180.3 |
| MEAN | 2.48 | 1.82 | 1.73 | 1.64 | 10.1 | 23.6 | 53.3 | 53.9 | 22.2 | 8.51 | 5.32 | 6.01 |
| MAX | 3.5 | 2.3 | 2.2 | 1.9 | 32 | 48 | 76 | 83 | 42 | 16 | 25 | 40 |
| MIN | 2.0 | 1.5 | 1.4 | 1.4 | 1.5 | 11 | 34 | 40 | 11 | 4.8 | 3.8 | 3.0 |
| ACFT | 152 | 108 | 106 | 101 | 563 | 1450 | 3170 | 3310 | 1320 | 523 | 327 | 358 |

| | | | | | | | | | | |
|-------------|-------|--------|------|------|-----|-----|-----|-----|------|-------|
| CAL YR 1985 | TOTAL | 4152.4 | MEAN | 11.4 | MAX | 138 | MIN | 1.2 | ACFT | 8240 |
| WTR YR 1986 | TOTAL | 5798.4 | MEAN | 15.9 | MAX | 83 | MIN | 1.4 | ACFT | 11500 |

e Estimated.

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 mi².

PERIOD OF RECORD.--April 1972 to September 1986 (discontinued).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,150 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for Irrigation above station. Flow affected by storage in Scofield Reservoir.

AVERAGE DISCHARGE.--14 years, 145 ft³/s, 105,100 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 ft³/s June 30, July 1, 2, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|---------|-----------------------------------|---------------------|----------|------|-----------------------------------|---------------------|
| Apr. 2 | unknown | 1,050 | 6.12 | June 3 | 2000 | 1,190 | 6.53 |
| Apr. 25 | 1000 | 899 | 5.62 | Sept. 24 | 1830 | *1,630 | *8.16 |
| May 4 | 1400 | 979 | 5.89 | | | | |

Minimum daily discharge, 29 ft³/s Nov. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|
| 1 | e49 | e30 | e42 | e58 | e66 | e84 | e748 | 711 | 889 | e95 | 56 | 138 |
| 2 | e49 | e31 | e42 | e55 | e66 | e86 | e870 | 776 | 919 | e77 | 53 | 112 |
| 3 | e48 | e31 | e42 | e58 | e65 | e92 | e730 | 839 | e970 | e67 | 47 | 102 |
| 4 | e40 | e31 | e45 | e60 | e60 | e127 | e660 | 924 | 920 | e88 | 54 | 84 |
| 5 | e41 | e29 | e42 | e57 | e60 | e160 | e600 | 946 | 894 | e90 | 52 | 70 |
| 6 | e38 | e30 | e43 | e57 | e51 | e206 | e600 | 838 | 885 | e82 | 83 | 68 |
| 7 | e37 | 30 | e42 | e60 | e49 | e239 | e600 | 774 | 844 | e170 | 146 | 71 |
| 8 | e38 | 31 | e42 | e59 | e49 | e235 | e610 | 711 | 804 | e75 | 84 | 77 |
| 9 | e59 | 31 | e40 | e63 | e47 | e250 | e650 | 676 | 760 | e77 | 87 | 132 |
| 10 | e73 | 32 | e35 | e65 | e44 | e300 | e640 | 625 | 726 | e80 | 87 | 136 |
| 11 | 67 | 33 | e35 | e65 | e50 | e310 | e613 | 580 | 675 | e73 | 76 | 92 |
| 12 | 54 | 51 | e35 | e66 | e86 | e322 | e630 | 537 | 607 | e62 | 75 | 88 |
| 13 | 53 | 58 | e35 | e61 | e90 | e301 | 675 | 519 | 471 | e57 | 122 | 85 |
| 14 | 51 | 34 | e42 | e60 | e92 | e303 | 648 | 522 | 428 | e80 | 104 | 82 |
| 15 | 48 | 39 | e50 | e59 | e80 | e310 | 641 | 546 | 406 | 91 | 99 | 78 |
| 16 | 47 | 41 | e52 | e59 | e70 | e299 | 616 | 599 | 380 | e390 | 94 | 72 |
| 17 | 47 | 42 | e60 | e59 | e160 | e320 | 649 | 585 | 339 | e300 | 92 | 66 |
| 18 | 42 | 51 | e62 | e62 | e124 | e301 | 615 | 562 | e295 | 154 | 85 | 69 |
| 19 | 40 | e32 | e60 | e62 | e150 | e289 | 587 | 506 | e270 | 140 | 72 | 75 |
| 20 | 38 | e32 | e60 | e62 | e315 | e278 | 583 | 445 | e246 | 132 | 82 | 76 |
| 21 | 39 | e32 | e64 | e56 | e210 | e275 | 621 | 484 | e217 | 99 | 134 | 76 |
| 22 | 43 | e38 | e64 | e55 | e125 | e275 | 680 | 517 | e200 | e109 | 127 | 79 |
| 23 | 44 | e38 | e66 | e56 | e112 | e290 | 726 | 522 | e168 | 151 | 156 | 98 |
| 24 | 42 | e43 | e64 | e57 | e105 | e309 | 804 | 490 | e135 | e220 | 160 | e900 |
| 25 | 39 | e45 | e64 | e59 | e116 | e341 | 876 | 447 | e107 | 135 | 155 | e350 |
| 26 | 35 | e47 | e60 | e59 | e113 | e370 | 854 | 436 | e113 | 135 | 117 | e200 |
| 27 | e32 | e45 | e62 | e59 | e111 | e400 | 799 | 497 | e131 | 123 | 104 | 159 |
| 28 | e31 | e43 | e62 | e59 | e115 | e435 | 744 | 600 | e110 | 94 | 87 | 120 |
| 29 | e31 | e42 | e60 | e67 | --- | e490 | 689 | 675 | e106 | 69 | 95 | 111 |
| 30 | e30 | e44 | e60 | e66 | --- | e550 | 674 | 761 | e100 | 64 | 127 | 91 |
| 31 | e30 | --- | e60 | e65 | --- | e600 | --- | 837 | --- | 55 | 112 | --- |
| TOTAL | 1355 | 1136 | 1592 | 1865 | 2781 | 9147 | 20432 | 19487 | 14115 | 3634 | 3024 | 3957 |
| MEAN | 43.7 | 37.9 | 51.4 | 60.2 | 99.3 | 295 | 681 | 629 | 471 | 117 | 97.5 | 132 |
| MAX | 73 | 58 | 66 | 67 | 315 | 600 | 876 | 946 | 970 | 390 | 160 | 900 |
| MIN | 30 | 29 | 35 | 55 | 44 | 84 | 583 | 436 | 100 | 55 | 47 | 66 |
| ACFT | 2690 | 2250 | 3160 | 3700 | 5520 | 18140 | 40530 | 38650 | 28000 | 7210 | 6000 | 7850 |

| | | | | | | | | | | |
|-------------|-------|-------|------|-----|-----|-----|-----|----|------|--------|
| CAL YR 1985 | TOTAL | 63513 | MEAN | 174 | MAX | 865 | MIN | 29 | ACFT | 126000 |
| WTR YR 1986 | TOTAL | 82525 | MEAN | 226 | MAX | 970 | MIN | 29 | ACFT | 163700 |

e Estimated.

GREEN RIVER BASIN

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 mi².

PERIOD OF RECORD.--May 1972 to September 1986 (discontinued).

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 for estimated daily discharges, which are poor. Diversions above station for irrigation and storage in Desert Lake.

AVERAGE DISCHARGE.--14 years, 30.1 ft³/s, 21,810 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,060 ft³/s July 24, 1977, gage height, 10.00 ft from floodmarks from rating curve extended above 70 ft³/s on basis of slope-area measurements; no flow July 15-17, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|--------------------------------|------------------|---------|------|--------------------------------|------------------|
| Oct. 12 | 2230 | *364 | *4.90 | Aug. 24 | 2230 | 192 | 3.89 |
| Mar. 27 | 2030 | 186 | 3.93 | | | | |

Minimum daily, 14 ft³/s Dec. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 43 | 35 | e17 | e18 | e22 | 42 | 87 | 44 | 38 | 36 | 46 | 51 |
| 2 | 39 | 34 | e17 | e17 | e22 | 45 | 83 | 41 | 40 | 36 | 41 | 50 |
| 3 | 36 | 30 | e18 | e18 | e21 | 49 | 54 | 39 | 50 | 48 | 40 | 38 |
| 4 | 38 | 31 | e19 | e20 | e20 | 44 | 32 | 38 | 56 | 44 | 45 | 32 |
| 5 | 34 | 33 | e18 | e18 | e20 | 35 | 27 | 47 | 48 | 32 | 42 | 31 |
| 6 | 35 | 32 | e19 | e18 | e19 | 35 | 27 | 50 | 41 | 34 | 46 | 31 |
| 7 | 38 | 35 | e18 | e20 | e18 | 26 | 36 | 53 | 37 | 42 | 43 | 34 |
| 8 | 47 | 35 | e16 | e19 | e18 | 29 | 66 | 62 | 36 | 39 | 38 | 35 |
| 9 | 58 | 48 | e16 | e20 | e17 | 45 | 72 | 56 | 43 | 42 | 36 | 37 |
| 10 | 52 | 51 | e15 | e22 | e17 | 46 | 64 | 60 | 46 | 37 | 37 | 46 |
| 11 | 54 | 48 | e15 | e22 | e20 | 49 | 65 | 57 | 41 | 29 | 31 | 49 |
| 12 | 75 | 62 | e16 | e23 | e23 | 48 | 72 | 55 | 46 | 29 | 26 | 48 |
| 13 | 91 | 59 | e14 | e21 | 26 | 45 | 76 | 40 | 57 | 30 | 27 | 44 |
| 14 | 52 | 53 | e15 | e20 | 21 | 48 | 86 | 45 | 59 | 30 | 39 | 47 |
| 15 | 45 | 51 | e16 | e19 | 34 | 50 | 78 | 45 | 64 | 29 | 43 | 47 |
| 16 | 41 | 40 | e18 | e19 | 69 | 53 | 79 | 40 | 61 | 32 | 44 | 45 |
| 17 | 42 | 42 | e17 | e19 | 68 | 59 | 80 | 39 | 60 | 46 | 43 | 47 |
| 18 | 40 | 36 | e19 | e20 | 93 | 56 | 82 | 37 | 60 | 48 | 41 | 50 |
| 19 | 39 | e24 | e18 | e20 | 78 | 56 | 82 | 38 | 57 | 48 | 34 | 53 |
| 20 | 44 | e24 | e18 | e20 | 66 | 57 | 73 | 39 | 56 | 48 | 32 | 52 |
| 21 | 43 | e24 | e20 | e18 | 59 | 59 | 69 | 41 | 49 | 47 | 43 | 47 |
| 22 | 39 | e25 | e20 | e17 | 49 | 64 | 66 | 39 | 39 | 56 | 42 | 44 |
| 23 | 42 | e26 | e21 | e18 | 38 | 64 | 62 | 43 | 36 | 59 | 50 | 56 |
| 24 | 44 | e26 | e20 | e19 | 34 | 70 | 59 | 44 | 38 | 73 | 69 | 89 |
| 25 | 38 | e27 | e20 | e20 | 26 | 74 | 65 | 34 | 47 | 71 | 75 | 62 |
| 26 | 33 | e29 | e19 | e20 | 28 | 94 | 71 | 31 | 45 | 69 | 58 | 55 |
| 27 | 31 | e28 | e20 | e20 | 30 | 99 | 83 | 34 | 41 | 68 | 56 | 62 |
| 28 | 30 | e25 | e20 | e20 | 33 | 83 | 76 | 31 | 45 | 58 | 51 | 75 |
| 29 | 30 | e18 | e19 | e23 | --- | 83 | 60 | 33 | 43 | 60 | 52 | 83 |
| 30 | 31 | e19 | e19 | e22 | --- | 84 | 51 | 36 | 44 | 55 | 54 | 92 |
| 31 | 34 | --- | e19 | e21 | --- | 88 | --- | 33 | --- | 44 | 48 | --- |
| TOTAL | 1338 | 1050 | 556 | 611 | 989 | 1779 | 1983 | 1324 | 1423 | 1419 | 1372 | 1532 |
| MEAN | 43.2 | 35.0 | 17.9 | 19.7 | 35.3 | 57.4 | 66.1 | 42.7 | 47.4 | 45.8 | 44.3 | 51.1 |
| MAX | 91 | 62 | 21 | 23 | 93 | 99 | 87 | 62 | 64 | 73 | 75 | 92 |
| MIN | 30 | 18 | 14 | 17 | 17 | 26 | 27 | 31 | 36 | 29 | 26 | 31 |
| ACFT | 2650 | 2080 | 1100 | 1210 | 1960 | 3530 | 3930 | 2630 | 2820 | 2810 | 2720 | 3040 |

| | | | | | | | | | | |
|-------------|-------|---------|------|------|-----|-----|-----|-----|------|-------|
| CAL YR 1985 | TOTAL | 16379.5 | MEAN | 44.9 | MAX | 172 | MIN | 9.0 | ACFT | 32490 |
| WTR YR 1986 | TOTAL | 15376 | MEAN | 42.1 | MAX | 99 | MIN | 14 | ACFT | 30500 |

e Estimated.

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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1909 to December 1910, January to August 1911 (gage heights only), November 1945 to current year.

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

GAGE.--Water-stage recorder. Altitude of gage is 4,600 ft by barometer. September 1909 to August 1911, reference point at site about 100 ft upstream at different datum. Nov. 27, 1945 to Oct. 16, 1954, water-stage recorder at site 15 ft downstream at datum 1.85 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. 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.--40 years, 130 ft³/s, 94,180 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,720 ft³/s Sept. 11, 1980, gage height, 11.16 ft, from rating curve extended above 1,200 ft³/s; no flow for several days in 1960, 1961, and part of July 8, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|-----------------------------------|---------------------|----------|------|-----------------------------------|---------------------|
| July 17 | 0030 | *4,480 | *9.64 | Sept. 25 | 0700 | 2,040 | 7.45 |

Minimum daily discharge, 49 ft³/s Dec. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|------|------|-------|-------|-------|-------|--------|------|-------|
| 1 | 91 | 65 | e63 | e75 | e88 | 127 | 841 | 747 | 990 | 132 | 106 | 157 |
| 2 | 88 | 65 | e59 | e72 | e88 | 132 | 964 | 801 | 1040 | 113 | 106 | 172 |
| 3 | 84 | 65 | e60 | e76 | e85 | 142 | 904 | 895 | 1120 | 114 | 100 | 147 |
| 4 | 78 | 64 | e64 | e80 | e80 | 173 | 696 | 983 | 1190 | 133 | 95 | 129 |
| 5 | 75 | 63 | e60 | e77 | e80 | 197 | 631 | 1140 | 1100 | 121 | 101 | 110 |
| 6 | 73 | 64 | e62 | e77 | e70 | 244 | 635 | 1080 | 1080 | 115 | 99 | 100 |
| 7 | 75 | 64 | e60 | e80 | e67 | 269 | 647 | 978 | 1000 | 112 | 156 | 94 |
| 8 | 85 | 64 | e58 | e78 | e67 | 267 | 667 | 891 | 947 | 114 | 151 | 96 |
| 9 | 117 | 73 | e57 | e83 | e64 | 299 | 722 | 843 | 909 | 119 | 129 | 102 |
| 10 | 126 | 74 | e50 | e87 | e57 | 332 | 705 | 778 | 882 | 117 | 122 | 162 |
| 11 | 121 | 77 | e50 | e87 | e73 | 361 | 678 | 711 | 820 | 103 | 113 | 168 |
| 12 | 122 | 120 | e52 | e89 | e110 | 373 | 703 | 651 | 738 | 93 | 101 | 131 |
| 13 | 231 | 121 | e49 | e83 | e120 | 348 | 701 | 595 | 629 | 89 | 98 | 124 |
| 14 | 123 | 109 | e58 | e80 | 114 | 355 | 728 | 578 | 498 | 92 | 201 | 117 |
| 15 | 98 | 88 | e66 | e78 | 116 | 360 | 706 | 594 | 462 | 98 | 134 | 115 |
| 16 | 90 | 84 | e68 | e78 | e138 | 354 | 698 | 659 | 435 | 899 | 129 | 112 |
| 17 | 86 | 84 | e78 | e78 | e232 | 382 | 760 | 658 | 390 | 948 | 124 | 108 |
| 18 | 84 | 86 | e80 | e82 | 217 | 359 | 760 | 645 | 355 | 259 | 120 | 105 |
| 19 | 81 | e75 | e78 | e82 | e230 | 346 | 705 | 604 | 328 | 218 | 113 | 108 |
| 20 | 79 | e60 | e78 | e82 | e380 | 336 | 687 | 506 | 300 | 260 | 164 | 115 |
| 21 | 77 | e60 | e84 | e74 | e270 | 336 | 689 | 504 | 268 | 344 | 165 | 115 |
| 22 | 78 | e71 | e84 | e72 | 181 | 341 | 747 | 549 | 241 | 164 | 198 | 112 |
| 23 | 78 | e72 | e86 | e74 | 152 | 357 | 821 | 587 | 206 | 297 | 169 | 112 |
| 24 | 78 | e72 | e84 | e76 | 139 | 381 | 882 | 562 | 175 | 310 | 195 | 265 |
| 25 | 80 | e74 | e84 | e79 | 143 | 425 | 984 | 522 | 155 | 286 | 291 | 1230 |
| 26 | 76 | e77 | e79 | e79 | 142 | 468 | 1010 | 468 | 157 | 222 | 214 | 332 |
| 27 | 70 | e74 | e82 | e79 | 143 | 499 | 972 | 475 | 174 | 210 | 170 | 239 |
| 28 | 69 | e70 | e82 | e79 | 149 | 523 | 878 | 590 | 156 | 185 | 148 | 204 |
| 29 | 67 | e67 | e80 | e90 | --- | 576 | 800 | 702 | 151 | 148 | 127 | 184 |
| 30 | 65 | e72 | e80 | e88 | --- | 636 | 729 | 802 | 145 | 132 | 131 | 178 |
| 31 | 65 | --- | e80 | e86 | --- | 696 | --- | 913 | --- | 121 | 206 | --- |
| TOTAL | 2810 | 2274 | 2155 | 2480 | 3795 | 10994 | 23050 | 22011 | 17041 | 6668 | 4476 | 5443 |
| MEAN | 90.6 | 75.8 | 69.5 | 80.0 | 136 | 355 | 768 | 710 | 568 | 215 | 144 | 181 |
| MAX | 231 | 121 | 86 | 90 | 380 | 696 | 1010 | 1140 | 1190 | 948 | 291 | 1230 |
| MIN | 65 | 60 | 49 | 72 | 57 | 127 | 631 | 468 | 145 | 89 | 95 | 94 |
| ACFT | 5570 | 4510 | 4270 | 4920 | 7530 | 21810 | 45720 | 43660 | 33800 | 13230 | 8880 | 10800 |
| CAL YR 1985 | TOTAL | 84019 | MEAN | 230 | MAX | 1420 | MIN | 49 | ACFT | 166700 | | |
| WTR YR 1986 | TOTAL | 103197 | MEAN | 283 | MAX | 1230 | MIN | 49 | ACFT | 204700 | | |

e Estimated.

GREEN RIVER BASIN

09314500 PRICE RIVER AT WOODSIDE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1946 to September 1949, February 1951 to current year.

SPECIFIC CONDUCTANCE: February 1951 to September 30, 1978, once daily.

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 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | PH (STAND- ARD UNITS) | TEMPER- ATURE, AIR (DEG C) | TEMPER- ATURE (DEG C) | OXYGEN, DIS- SOLVED (MG/L) | BARO- METRIC PRES- SURE (MM OF HG) | HARD- NESS (MG/L AS CACO3) | HARD- NESS NONCAR- BONATE (MG/L AS CACO3) |
|----------|------|---|---|--------------------------------|-------------------------------------|-----------------------------|-------------------------------------|--|--|---|
| OCT 1985 | | | | | | | | | | |
| 25... | 1030 | 88 | 3200 | 8.50 | 8.5 | 9.0 | 9.6 | 650 | 1100 | 1100 |
| JAN 1986 | | | | | | | | | | |
| 31... | 1015 | 89 | 3140 | 8.40 | 7.5 | 0.5 | 12.7 | 646 | 1100 | 1130 |
| FEB | | | | | | | | | | |
| 21... | 1015 | 272 | 2270 | 8.00 | 7.5 | 2.5 | 10.9 | 648 | 720 | 720 |
| MAR | | | | | | | | | | |
| 25... | 1030 | 426 | 1170 | 8.50 | 17.0 | 9.0 | 9.4 | 648 | 450 | 449 |
| APR | | | | | | | | | | |
| 24... | 1230 | 852 | 900 | 8.60 | 19.5 | 11.5 | 9.7 | 641 | 340 | 340 |
| JUN | | | | | | | | | | |
| 30... | 1100 | 155 | 1860 | 8.40 | 27.5 | 22.0 | 7.5 | 640 | 700 | 701 |
| JUL | | | | | | | | | | |
| 23... | 1300 | 244 | 2030 | 8.20 | 26.5 | 22.5 | 7.7 | 650 | 720 | 717 |
| AUG | | | | | | | | | | |
| 22... | 1230 | 183 | 2290 | 8.20 | 23.5 | 21.0 | 7.2 | 646 | 680 | 683 |
| SEP | | | | | | | | | | |
| 23... | 1030 | 112 | 2520 | 8.40 | 15.5 | 15.0 | 8.7 | 640 | 710 | 711 |

| DATE | CALCIUM DIS- SOLVED (MG/L AS CA) | MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) | SODIUM, DIS- SOLVED (MG/L AS NA) | PERCENT SODIUM | SODIUM AD- SORP- TION RATIO | POTAS- SIUM, DIS- SOLVED (MG/L AS K) | BICAR- BONATE IT-FLD (MG/L AS HCO3) | CAR- BONATE IT-FLD (MG/L AS CO3) | ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CACO3) | SULFATE DIS- SOLVED (MG/L AS SO4) |
|----------|--|--|--|-------------------|---|---|--|---|---|---|
| OCT 1985 | | | | | | | | | | |
| 25... | 180 | 170 | 430 | 45 | 6 | 6.0 | 270 | 8.2 | 222 | 1700 |
| JAN 1986 | | | | | | | | | | |
| 31... | 190 | 160 | 400 | 43 | 5 | 6.1 | 374 | 14 | 330 | 1600 |
| FEB | | | | | | | | | | |
| 21... | 140 | 90 | 260 | 44 | 4 | 6.7 | 181 | -- | 148 | 1200 |
| MAR | | | | | | | | | | |
| 25... | 94 | 52 | 96 | 32 | 2 | 3.0 | 248 | 14 | 227 | 410 |
| APR | | | | | | | | | | |
| 24... | 70 | 40 | 65 | 29 | 2 | 2.4 | 342 | 14 | 303 | 250 |
| JUN | | | | | | | | | | |
| 30... | 140 | 85 | 190 | 37 | 3 | 5.6 | 226 | 10 | 202 | 790 |
| JUL | | | | | | | | | | |
| 23... | 160 | 77 | 200 | 38 | 3 | 6.4 | 246 | 0 | 202 | 920 |
| AUG | | | | | | | | | | |
| 22... | 140 | 81 | 260 | 45 | 4 | 7.2 | 231 | 0 | 189 | 890 |
| SEP | | | | | | | | | | |
| 23... | 120 | 100 | 300 | 48 | 5 | 6.3 | -- | -- | -- | 1200 |

GREEN RIVER BASIN

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09314500 PRICE RIVER AT WOODSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | CHLORIDE, DIS- SOLVED (MG/L AS CL) | FLUORIDE, DIS- SOLVED (MG/L AS F) | SILICA, DIS- SOLVED (MG/L AS SiO2) | SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) | SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) | SOLIDS, DIS- SOLVED (TONS PER AC-FT) | SOLIDS, DIS- SOLVED (TONS PER DAY) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, NO2+NO3 DIS- SOLVED (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) |
|----------|--|---|---|--|--|---|---|---|--|---|
| OCT 1985 | | | | | | | | | | |
| 25... | 58 | 0.3 | 1.0 | 2750 | 2700 | 3.7 | 650 | <0.10 | <0.10 | 0.08 |
| JAN 1986 | | | | | | | | | | |
| 31... | 62 | 0.3 | 7.2 | 2750 | 2600 | 3.7 | 660 | 0.90 | 0.91 | 0.35 |
| FEB | | | | | | | | | | |
| 21... | 36 | 0.3 | 4.6 | 1890 | 1800 | 2.6 | 1390 | 0.60 | 0.55 | 0.54 |
| MAR | | | | | | | | | | |
| 25... | 24 | 0.2 | 5.4 | 875 | 840 | 1.2 | 1010 | 0.40 | 0.37 | 0.02 |
| APR | | | | | | | | | | |
| 24... | 12 | 0.3 | 9.8 | 604 | 650 | 0.82 | 1390 | 0.30 | 0.29 | 0.02 |
| JUN | | | | | | | | | | |
| 30... | 33 | 0.3 | 9.1 | 1480 | 1400 | 2.0 | 619 | <0.10 | <0.10 | 0.07 |
| JUL | | | | | | | | | | |
| 23... | 28 | 0.3 | 7.2 | 1650 | 1500 | 2.2 | 1090 | 0.50 | 0.49 | 0.07 |
| AUG | | | | | | | | | | |
| 22... | 36 | 0.4 | 2.4 | 1660 | 1500 | 2.3 | 820 | <0.10 | <0.10 | 0.04 |
| SEP | | | | | | | | | | |
| 23... | 40 | 0.3 | 0.7 | 1900 | 1900 | 2.6 | 575 | <0.10 | <0.10 | 0.02 |

| DATE | NITROGEN, AMMONIA DIS- SOLVED (MG/L AS N) | NITROGEN, AMMONIA DIS- SOLVED (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, ORTHOPHOSPHATE, DIS- SOLVED (MG/L AS P) | PHOSPHATE, ORTHOPHOSPHATE, DIS- SOLVED (MG/L AS PO4) |
|----------|--|--|---|--|--------------------------------------|--|--|--|---|
| OCT 1985 | | | | | | | | | |
| 25... | 0.07 | 0.09 | 0.52 | 0.6 | -- | -- | 0.03 | <0.01 | -- |
| JAN 1986 | | | | | | | | | |
| 31... | 0.39 | 0.5 | 0.75 | 1.1 | 2.0 | 8.9 | 0.15 | 0.07 | 0.21 |
| FEB | | | | | | | | | |
| 21... | 0.50 | 0.64 | 4.2 | 4.7 | 5.3 | 23 | 1.10 | 0.01 | 0.03 |
| MAR | | | | | | | | | |
| 25... | 0.02 | 0.03 | 1.5 | 1.5 | 1.9 | 8.4 | 0.83 | 0.05 | 0.15 |
| APR | | | | | | | | | |
| 24... | 0.01 | 0.01 | 0.78 | 0.8 | 1.1 | 4.9 | 0.31 | 0.02 | 0.06 |
| JUN | | | | | | | | | |
| 30... | 0.06 | 0.08 | 0.63 | 0.7 | -- | -- | 0.13 | 0.01 | 0.03 |
| JUL | | | | | | | | | |
| 23... | 0.08 | 0.1 | 2.6 | 2.7 | 3.2 | 14 | 4.60 | 0.03 | 0.09 |
| AUG | | | | | | | | | |
| 22... | 0.04 | 0.05 | 0.96 | 1.0 | -- | -- | 0.71 | <0.01 | -- |
| SEP | | | | | | | | | |
| 23... | 0.05 | 0.06 | 1.9 | 1.9 | -- | -- | 0.05 | <0.01 | -- |

| DATE | TIME | ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) | ALUMINUM, DIS- SOLVED (UG/L AS AL) | ARSENIC TOTAL (UG/L AS AS) | ARSENIC DIS- SOLVED (UG/L AS AS) | BARIUM, DIS- SOLVED (UG/L AS BA) | BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) | BERYLLIUM, DIS- SOLVED (UG/L AS BE) | CADMIUM TOTAL RECOVERABLE (UG/L AS CD) | CADMIUM DIS- SOLVED (UG/L AS CD) | CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) | CHROMIUM, DIS- SOLVED (UG/L AS CR) |
|----------|------|--|--|-------------------------------------|--|--|---|---|--|--|--|--|
| JUN 1986 | | | | | | | | | | | | |
| 30... | 1100 | -- | 2000 | -- | 2 | 95 | -- | <0.5 | -- | <1 | -- | <1 |
| AUG | | | | | | | | | | | | |
| 22... | 1230 | 46000 | -- | 11 | -- | -- | <10 | -- | 2 | -- | 50 | -- |

| DATE | COBALT, DIS- SOLVED (UG/L AS CO) | COPPER, TOTAL RECOVERABLE (UG/L AS CU) | COPPER, DIS- SOLVED (UG/L AS CU) | IRON, TOTAL RECOVERABLE (UG/L AS FE) | IRON, DIS- SOLVED (UG/L AS FE) | LEAD, TOTAL RECOVERABLE (UG/L AS PB) | LEAD, DIS- SOLVED (UG/L AS PB) | LITHIUM TOTAL RECOVERABLE (UG/L AS LI) | LITHIUM DIS- SOLVED (UG/L AS LI) | MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) | MANGANESE, DIS- SOLVED (UG/L AS MN) |
|----------|--|--|--|--|--|--|--|--|--|---|---|
| JUN 1986 | | | | | | | | | | | |
| 30... | 60 | -- | 2 | -- | 2500 | -- | <5 | -- | 120 | -- | 96 |
| AUG | | | | | | | | | | | |
| 22... | -- | 51 | -- | 70000 | -- | 29 | -- | 240 | -- | 1300 | -- |

GREEN RIVER BASIN

09314500 PRICE RIVER AT WOODSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO) | MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) | 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) | SILVER, DIS- SOLVED (UG/L AS AG) | STRON- TIUM, DIS- SOLVED (UG/L AS SR) | VANA- DIUM, DIS- SOLVED (UG/L AS V) | ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) | ZINC, DIS- SOLVED (UG/L AS ZN) |
|-------------------|--|---|---|--|--|---|--|--|--|---|--|
| JUN 1986 30... | -- | <10 | -- | 2 | -- | 2 | <1 | 1400 | <6 | -- | 21 |
| AUG 22... | 6 | -- | 73 | -- | 6 | -- | -- | -- | -- | 40 | -- |

| DATE | TIME | BORON, DIS- SOLVED (UG/L AS B) |
|-------------------|------|--|
| OCT 1985 25... | 1030 | 320 |
| JAN 1986 31... | 1015 | 290 |
| FEB 21... | 1015 | 180 |
| MAR 25... | 1030 | 120 |
| APR 24... | 1230 | 80 |
| JUN 30... | 1100 | 200 |
| JUL 23... | 1300 | 210 |
| AUG 22... | 1230 | 240 |
| SEP 23... | 1030 | 240 |

| DATE | TIME | CARBON, ORGANIC DIS- SOLVED (MG/L AS C) | CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) |
|-------------------|------|--|--|
| JAN 1986 31... | 1015 | 5.2 | 1.8 |
| JUN 30... | 1100 | 6.9 | 0.7 |
| AUG 22... | 1230 | 6.7 | 0.3 |

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) |
|-------------------|------|---|-----------------------------|---|---|
| OCT 1985 25... | 1030 | 88 | 9.0 | 71 | 17 |
| JAN 1986 31... | 1015 | 89 | 0.5 | 365 | 88 |
| FEB 21... | 1015 | 272 | 2.5 | 32200 | 23600 |
| MAR 25... | 1030 | 426 | 9.0 | 8630 | 9930 |
| APR 24... | 1230 | 852 | 11.5 | 4190 | 9640 |
| MAY 23... | 1300 | 563 | 14.5 | 1270 | 1930 |
| JUN 30... | 1100 | 155 | 22.0 | 327 | 137 |
| JUL 23... | 1300 | 244 | 22.5 | 7170 | 4720 |
| AUG 22... | 1230 | 183 | 21.0 | 5260 | 2600 |
| SEP 23... | 1030 | 112 | 15.0 | 171 | 52 |

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 mi² approximately, of which about 4,260 mi² (including 3,959 mi² 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 for estimated daily discharges, which are poor. Diversions for irrigation above station. Flow regulated by Flaming Gorge Reservoir (see station 09234400) since Nov. 1, 1962.

AVERAGE DISCHARGE.--87 years, 6,425 ft³/s, 4,655,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,100 ft³/s June 27, 1917, gage height, 14.53 ft, site and datum then in use; minimum, 255 ft³/s Nov. 26, 1931; minimum gage height, 4.08 ft Aug. 1, Dec. 5, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 17,000 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|--------------------------------|------------------|--------|------|--------------------------------|------------------|
| Feb. 22 | 1515 | 19,100 | 10.71 | May 8 | 1745 | 25,600 | 11.95 |
| Apr. 29 | 1345 | 17,200 | 10.21 | June 8 | 1400 | *35,900 | *13.86 |

Minimum discharge, 2,280 ft³/s Dec. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|---------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|
| 1 | 3500 | 4080 | 4730 | 4220 | 4400 | 7810 | 9450 | 14800 | 30300 | 16900 | 5010 | 3810 |
| 2 | 3820 | 4280 | 5340 | 4750 | 4440 | 8030 | 10700 | 14200 | 31500 | 16300 | 4780 | 4080 |
| 3 | 3570 | 4170 | e5490 | 4140 | 4870 | 7940 | 12300 | 14900 | 32400 | 16100 | 4410 | 3970 |
| 4 | 3380 | 4130 | e5420 | 4320 | 4590 | 7600 | 15300 | 16300 | 33300 | 15600 | 4320 | 3810 |
| 5 | 3330 | 4090 | e5310 | 3960 | 4170 | 7150 | 15400 | 19000 | 34100 | 14900 | 4140 | 3660 |
| 6 | 3580 | 4010 | 4570 | 4600 | 4670 | 6890 | 15200 | 21700 | 34500 | 14400 | 3880 | 3730 |
| 7 | 3700 | 3800 | 4780 | 4740 | 5340 | 6810 | 14900 | 23700 | 35000 | 14200 | 3830 | 3490 |
| 8 | 3710 | 3930 | 4390 | 4930 | 5730 | 6780 | 13400 | 25100 | 35400 | 14300 | 3990 | 3470 |
| 9 | 3760 | 4020 | 4170 | 5160 | 5200 | 6810 | 12700 | 24400 | 35100 | 14600 | 4050 | 3540 |
| 10 | 3720 | 3820 | e4050 | 5630 | 4900 | 7390 | 12400 | 22000 | 35300 | 14600 | 3910 | 3750 |
| 11 | 4030 | 3630 | e3500 | 5070 | 4810 | 7980 | 12800 | 20800 | 35000 | 14000 | 3790 | 4030 |
| 12 | 4550 | 4060 | e3000 | 4690 | 4830 | 8250 | 13300 | 20800 | 33200 | 13400 | 3790 | 4170 |
| 13 | 5210 | 3880 | e2800 | 4340 | 4550 | 8560 | 13300 | 20300 | 31400 | 13000 | 3780 | 4020 |
| 14 | 4990 | 3610 | e2600 | 4360 | 4700 | 8750 | 13000 | 19300 | 28800 | 12600 | 3790 | 3850 |
| 15 | 5210 | e3760 | 2410 | 4620 | 4660 | 8420 | 12800 | 18900 | 25800 | 12400 | 3710 | 3680 |
| 16 | 4940 | e3800 | 2850 | 3940 | 4500 | 8120 | 12800 | 19300 | 25000 | 12600 | 3650 | 3670 |
| 17 | 4780 | 3950 | 3280 | 3700 | 4670 | 7970 | 12600 | 20000 | 24600 | 13200 | 3610 | 3700 |
| 18 | 5070 | e3840 | 3560 | 4290 | 5460 | 7590 | 12600 | 20300 | 25200 | 12600 | 3470 | 3630 |
| 19 | 5670 | e3750 | 3370 | 4620 | 7520 | 7380 | 12900 | 19700 | 25500 | 12400 | 3450 | 3470 |
| 20 | 5160 | e3810 | 2920 | 4350 | 10100 | 7310 | 12700 | 19000 | 24800 | 12000 | 3490 | 3480 |
| 21 | 4860 | e3600 | e3000 | 4110 | 12300 | 7130 | 12600 | 18500 | 24200 | 11900 | 3320 | 3610 |
| 22 | 4810 | e3350 | e3200 | 3850 | 16100 | 7000 | 12800 | 19000 | 23400 | 11400 | 3370 | 3620 |
| 23 | 4160 | e3400 | e3600 | 3670 | 13600 | 6930 | 12600 | 21100 | 22500 | 10400 | 3510 | 3570 |
| 24 | 4120 | 3520 | e3500 | 3880 | 11000 | 7390 | 11500 | 23600 | 21100 | 9630 | 3780 | 3710 |
| 25 | 3960 | 3930 | e3400 | 3940 | 9950 | 7930 | 11500 | 25100 | 20100 | 9060 | 3900 | 4090 |
| 26 | 4580 | e3750 | e3300 | 3710 | 9570 | 7950 | 12600 | 25500 | 19200 | 8500 | 3910 | 4180 |
| 27 | 4370 | e3400 | 3300 | 3700 | 8890 | 8100 | 15500 | 24700 | 18100 | 7860 | 3890 | 4240 |
| 28 | 4220 | e3550 | 3420 | 3970 | 7920 | 8510 | 16800 | 25000 | 17600 | 7360 | 3920 | 3820 |
| 29 | 3870 | 3730 | 3820 | 3790 | --- | 9060 | 17000 | 26300 | 17300 | 6600 | 3720 | 3660 |
| 30 | 3840 | 4050 | 3920 | 3860 | --- | 9310 | 16300 | 27700 | 17100 | 5770 | 3640 | 3660 |
| 31 | 4060 | --- | 4260 | 3700 | --- | 9120 | --- | 29200 | --- | 5090 | 3880 | --- |
| TOTAL | 132530 | 114700 | 117260 | 132610 | 193440 | 241970 | 399750 | 660200 | 816800 | 373670 | 119690 | 113170 |
| MEAN | 4275 | 3823 | 3783 | 4278 | 6909 | 7805 | 13330 | 21300 | 27230 | 12050 | 3861 | 3772 |
| MAX | 5670 | 4280 | 5490 | 5630 | 16100 | 9310 | 17000 | 29200 | 35400 | 16900 | 5010 | 4240 |
| MIN | 3330 | 3350 | 2410 | 3670 | 4170 | 6780 | 9450 | 14200 | 17100 | 5090 | 3320 | 3470 |
| ACFT | 262900 | 227500 | 232600 | 263000 | 383700 | 479900 | 792900 | 1310000 | 1620000 | 741200 | 237400 | 224500 |
| CAL YR 1985 | TOTAL | 2788960 | MEAN | 7641 | MAX | 26800 | MIN | 2410 | ACFT | 5532000 | | |
| WTR YR 1986 | TOTAL | 3415790 | MEAN | 9358 | MAX | 35400 | MIN | 2410 | ACFT | 6775000 | | |

e Estimated.

GREEN RIVER BASIN

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

LOCATION.--Daily samples collected at bridge on U.S. Highways 50 and 6, in town of Green River, 0.7 mi 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 September 1984.

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 microsiemens Dec. 1, 1967; minimum daily, 255 microsiemens 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 observed, 1,190 microsiemens Sept. 25; minimum observed, 410 microsiemens June 10.

WATER TEMPERATURES: Maximum, 26.0°C Aug. 3, 18-20; minimum, 0.0°C many days during December and January.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | PH (STAND- ARD UNITS) | TEMPER- ATURE, AIR (DEG C) | TEMPER- ATURE (DEG C) | TUR- BID- ITY (NTU) | OXYGEN, DIS- SOLVED (MG/L) | BARO- METRIC PRES- SURE (MM OF HG) | COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) | STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) |
|----------|------|---|---|--------------------------------|-------------------------------------|-----------------------------|------------------------------|-------------------------------------|--|--|--|
| OCT 1985 | | | | | | | | | | | |
| 28... | 1400 | 4060 | 1010 | 8.50 | 14.0 | 11.5 | -- | 9.4 | 657 | -- | -- |
| NOV | | | | | | | | | | | |
| 18... | 1100 | 3920 | 950 | 8.30 | 2.5 | 3.5 | 45 | 11.8 | 654 | <1 | <1 |
| FEB 1986 | | | | | | | | | | | |
| 18... | 1100 | 5460 | 930 | 8.20 | 16.5 | 3.0 | -- | 12.2 | 657 | -- | -- |
| MAR | | | | | | | | | | | |
| 17... | 1100 | 8090 | 890 | 8.40 | 9.5 | 7.0 | 280 | 10.5 | 650 | K30 | K70 |
| APR | | | | | | | | | | | |
| 23... | 1020 | 12600 | 700 | 8.50 | 25.0 | 14.0 | 180 | 8.6 | 650 | K15 | K100 |
| MAY | | | | | | | | | | | |
| 21... | 1100 | 18800 | 600 | 8.40 | 25.5 | 14.0 | 150 | 8.6 | 653 | <1 | <1 |
| JUN | | | | | | | | | | | |
| 24... | 1040 | 21800 | 450 | 8.30 | 30.0 | 20.0 | 100 | 7.5 | 661 | K43 | 290 |
| JUL | | | | | | | | | | | |
| 22... | 1105 | 11500 | 730 | 8.30 | 23.5 | 21.5 | -- | 7.9 | 650 | -- | -- |
| AUG | | | | | | | | | | | |
| 21... | 1300 | 3380 | 880 | 8.50 | 29.0 | 24.5 | 120 | 7.0 | 661 | K53 | 380 |
| SEP | | | | | | | | | | | |
| 24... | 1145 | 3880 | 950 | 8.50 | 15.0 | 15.5 | -- | 8.0 | 645 | -- | -- |

| 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) | BICAR- BONATE IT-FLD (MG/L AS HCO3) | CAR- BONATE IT-FLD (MG/L AS CO3) |
|----------|--|---|--|--|--|-------------------|---|---|--|---|
| OCT 1985 | | | | | | | | | | |
| 28... | 340 | 337 | 69 | 40 | 82 | 34 | 2 | 2.6 | -- | -- |
| NOV | | | | | | | | | | |
| 18... | 360 | 364 | 76 | 42 | 86 | 34 | 2 | 2.6 | 218 | 0 |
| FEB 1986 | | | | | | | | | | |
| 18... | 330 | 326 | 71 | 36 | 82 | 35 | 2 | 2.5 | -- | -- |
| MAR | | | | | | | | | | |
| 17... | 310 | 306 | 66 | 34 | 76 | 35 | 2 | 2.8 | 202 | 10 |
| APR | | | | | | | | | | |
| 23... | 260 | 258 | 57 | 28 | 50 | 29 | 1 | 2.4 | 134 | 30 |
| MAY | | | | | | | | | | |
| 21... | 210 | 210 | 48 | 22 | 42 | 30 | 1 | 2.1 | 155 | 3.0 |
| JUN | | | | | | | | | | |
| 24... | 160 | 157 | 38 | 15 | 31 | 30 | 1 | 1.7 | 106 | 4.0 |
| JUL | | | | | | | | | | |
| 22... | 250 | 253 | 60 | 25 | 57 | 33 | 2 | 2.7 | -- | -- |
| AUG | | | | | | | | | | |
| 21... | 300 | 297 | 68 | 31 | 70 | 34 | 2 | 3.3 | 164 | 20 |
| SEP | | | | | | | | | | |
| 24... | 330 | 326 | 73 | 35 | 79 | 34 | 2 | 3.5 | -- | -- |

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

GREEN RIVER BASIN

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09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CAC03) | SULFATE DIS- SOLVED (MG/L AS S04) | 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 CONSTITUENTS, DIS- SOLVED (MG/L) | SOLIDS, DIS- SOLVED (TONS PER AC-FT) | SOLIDS, DIS- SOLVED (TONS PER DAY) | NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) | |
|----------|---|--|---|---|--|---|--|--|--|---|--|
| OCT 1985 | | | | | | | | | | | |
| 28... | -- | 290 | 29 | 0.3 | 6.8 | -- | 630 | 0.85 | 6870 | -- | |
| NOV | | | | | | | | | | | |
| 18... | 179 | 290 | 27 | 0.3 | 7.3 | 657 | 640 | 0.89 | 6950 | <0.00 | |
| FEB 1986 | | | | | | | | | | | |
| 18... | -- | 300 | 26 | 0.3 | 7.6 | -- | 640 | 0.86 | 9370 | -- | |
| MAR | | | | | | | | | | | |
| 17... | 182 | 280 | 27 | 0.3 | 8.7 | 606 | 620 | 0.82 | 13200 | <0.01 | |
| APR | | | | | | | | | | | |
| 23... | 159 | 190 | 15 | 0.3 | 9.9 | 463 | 480 | 0.63 | 15800 | <0.01 | |
| MAY | | | | | | | | | | | |
| 21... | 132 | 140 | 12 | 0.2 | 9.2 | 397 | 360 | 0.54 | 20200 | <0.01 | |
| JUN | | | | | | | | | | | |
| 24... | 93 | 100 | 9.9 | 0.2 | 7.1 | 258 | 260 | 0.35 | 15200 | <0.01 | |
| JUL | | | | | | | | | | | |
| 22... | -- | 210 | 17 | 0.3 | 6.1 | -- | 470 | 0.64 | 14500 | -- | |
| AUG | | | | | | | | | | | |
| 21... | 167 | 250 | 23 | 0.3 | 6.9 | 580 | 570 | 0.79 | 5290 | <0.01 | |
| SEP | | | | | | | | | | | |
| 24... | -- | 290 | 26 | 0.3 | 6.4 | -- | 620 | 0.84 | 6500 | -- | |
| | | | | | | | | | | | |
| DATE | NITRO- GEN, NO2+N03 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) | NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) | PHOS- PHORUS, TOTAL (MG/L AS P) | 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 P04) | |
| OCT 1985 | | | | | | | | | | | |
| 28... | 0.00 | -- | -- | -- | -- | -- | -- | -- | <0.00 | -- | |
| NOV | | | | | | | | | | | |
| 18... | 0.00 | 0.08 | 0.00 | -- | 0.42 | 0.5 | 0.06 | <0.01 | <0.00 | -- | |
| FEB 1986 | | | | | | | | | | | |
| 18... | 0.55 | -- | -- | -- | -- | -- | -- | -- | <0.01 | -- | |
| MAR | | | | | | | | | | | |
| 17... | 0.66 | <0.01 | <0.01 | -- | -- | 1.2 | 0.32 | 0.03 | 0.03 | 0.09 | |
| APR | | | | | | | | | | | |
| 23... | 0.49 | 0.06 | 0.02 | 0.03 | 0.84 | 0.9 | 0.36 | 0.03 | 0.02 | 0.06 | |
| MAY | | | | | | | | | | | |
| 21... | 0.32 | 0.02 | <0.01 | -- | 0.78 | 0.8 | 0.29 | 0.02 | <0.01 | -- | |
| JUN | | | | | | | | | | | |
| 24... | 0.15 | 0.04 | 0.01 | 0.01 | 0.46 | 0.5 | 0.08 | 0.02 | 0.02 | 0.06 | |
| JUL | | | | | | | | | | | |
| 22... | 0.12 | -- | -- | -- | -- | -- | -- | -- | 0.01 | 0.03 | |
| AUG | | | | | | | | | | | |
| 21... | <0.10 | 0.08 | 0.07 | 0.09 | 0.52 | 0.6 | 0.14 | 0.01 | <0.01 | -- | |
| SEP | | | | | | | | | | | |
| 24... | <0.10 | -- | -- | -- | -- | -- | -- | -- | <0.01 | -- | |
| | | | | | | | | | | | |
| DATE | TIME | ALUM- INIUM, 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 1985 | | | | | | | | | | | |
| 18... | 1100 | <10 | 1 | 77 | <0.5 | <1 | <1 | <3 | 1 | 8 | <1 |
| MAR 1986 | | | | | | | | | | | |
| 17... | 1100 | 10 | 2 | 260 | <0.5 | <1 | <1 | <3 | 2 | 4 | <1 |
| APR | | | | | | | | | | | |
| 23... | 1020 | 10 | 2 | 93 | <0.5 | <1 | <1 | <3 | 3 | 7 | <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 1985 | | | | | | | | | | | |
| 18... | 44 | 4 | <0.1 | <10 | 3 | 4 | <1 | 920 | <6 | 36 | |
| MAR 1986 | | | | | | | | | | | |
| 17... | 35 | <1 | <0.1 | <10 | 4 | 4 | <1 | 740 | <6 | 9 | |
| APR | | | | | | | | | | | |
| 23... | 22 | <1 | <0.1 | <10 | 1 | 3 | <1 | 560 | <6 | 28 | |

GREEN RIVER BASIN

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | BORON, DIS- SOLVED (UG/L AS B) | | GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT) | GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT) | GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) | GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) | GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90) | GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90) | RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) |
|----------|------|--|----|--|--|---|---|--|--|---|
| | | | | | | | | | | |
| OCT 1985 | | | | | | | | | | |
| 28... | 1400 | | | | | | 150 | | | |
| FEB 1986 | | | | | | | | | | |
| 18... | 1100 | | | | | | 160 | | | |
| JUL | | | | | | | | | | |
| 22... | 1105 | | | | | | 110 | | | |
| SEP | | | | | | | | | | |
| 24... | 1145 | | | | | | 170 | | | |
| JUN 1986 | | | | | | | | | | |
| 24... | 1040 | 2.5 | 30 | 4.1 | 15 | 3.1 | 12 | 0.06 | | |

SPECIFIC CONDUCTANCE (US/CM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
ONCE-DAILY

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1 | 990 | 1000 | 860 | 790 | --- | 860 | 830 | 610 | 465 | --- | 800 | 950 |
| 2 | --- | 960 | 860 | 780 | 860 | 910 | 810 | 640 | 455 | 540 | --- | 940 |
| 3 | 990 | 940 | 840 | 760 | 830 | 950 | 810 | 670 | 445 | 540 | 790 | 950 |
| 4 | --- | 920 | 800 | 790 | 860 | 980 | 760 | 680 | 455 | 560 | 800 | 950 |
| 5 | 990 | --- | 860 | --- | 790 | 980 | 740 | 660 | 440 | --- | 800 | 970 |
| 6 | 990 | 940 | 820 | 850 | --- | 960 | 700 | 610 | 435 | 600 | 810 | 930 |
| 7 | 980 | --- | 800 | 800 | 820 | 940 | 700 | 580 | --- | 600 | 810 | 930 |
| 8 | --- | --- | --- | 800 | --- | --- | --- | 540 | 415 | 610 | 850 | 930 |
| 9 | 960 | 940 | 820 | 810 | 840 | 940 | 720 | 520 | 420 | 640 | 850 | 950 |
| 10 | 970 | 950 | 940 | 840 | 860 | 940 | 730 | 540 | 410 | --- | 860 | 930 |
| 11 | 960 | 960 | 870 | --- | 860 | 920 | 750 | 560 | 430 | --- | 910 | 940 |
| 12 | 960 | 960 | 830 | 800 | 900 | 910 | 740 | --- | 445 | 630 | 870 | 920 |
| 13 | 980 | 960 | 780 | 840 | --- | 900 | 700 | 600 | 440 | 640 | 870 | 910 |
| 14 | 990 | 980 | --- | 860 | --- | 890 | --- | 620 | 500 | 670 | 850 | --- |
| 15 | 920 | 980 | --- | 850 | 930 | 900 | 670 | 650 | 455 | 670 | 870 | 930 |
| 16 | --- | 980 | --- | 880 | 910 | 890 | 680 | 660 | 445 | 690 | --- | 930 |
| 17 | --- | 980 | 910 | 870 | --- | 900 | 680 | --- | 450 | 850 | 870 | 910 |
| 18 | --- | 960 | 900 | --- | 940 | 910 | 660 | 620 | 435 | 760 | 860 | 910 |
| 19 | --- | 960 | 940 | 940 | 870 | 940 | 670 | 600 | --- | 760 | 870 | 910 |
| 20 | --- | 960 | 840 | --- | 820 | 930 | 730 | 600 | 455 | 730 | 860 | 920 |
| 21 | --- | 980 | 820 | 850 | 850 | 930 | 740 | 620 | 450 | 770 | 890 | 930 |
| 22 | --- | 980 | 860 | 870 | 750 | --- | 720 | 630 | --- | 740 | 880 | 920 |
| 23 | --- | 1000 | --- | 880 | 730 | 940 | 700 | 630 | 455 | 780 | --- | 930 |
| 24 | 950 | 1020 | 860 | 890 | 760 | 940 | 720 | --- | 460 | 760 | --- | 930 |
| 25 | 980 | --- | 800 | --- | 870 | 950 | 750 | 550 | --- | 820 | 950 | 1190 |
| 26 | 980 | 1000 | 890 | 920 | 870 | 920 | --- | 510 | --- | 790 | 900 | 930 |
| 27 | 970 | 1010 | 920 | 930 | 860 | 920 | 730 | 500 | 500 | 790 | 940 | 930 |
| 28 | 950 | 980 | 970 | 930 | 860 | --- | 670 | 500 | 530 | 800 | 920 | 950 |
| 29 | 950 | --- | 970 | 940 | --- | 870 | --- | 485 | 530 | 800 | 960 | 1000 |
| 30 | 960 | 1020 | --- | 940 | --- | 860 | 600 | 490 | --- | 820 | --- | 1040 |
| 31 | 970 | --- | 960 | --- | --- | 860 | --- | 470 | --- | 820 | 980 | --- |
| MEAN | --- | 970 | 870 | 860 | 850 | 920 | 720 | 580 | 455 | 710 | 870 | 950 |

GREEN RIVER BASIN

133

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
ONCE-DAILY

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

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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 1985 | | | | | | |
| 18... | 1100 | 3920 | 3.5 | 88 | 98 | 1040 |
| FEB 1986 | | | | | | |
| 18... | 1100 | 5460 | 3.0 | -- | 358 | 5280 |
| MAR | | | | | | |
| 17... | 1100 | 8090 | 7.0 | 95 | 738 | 16100 |
| APR | | | | | | |
| 23... | 1020 | 12600 | 14.0 | 83 | 839 | 28600 |
| MAY | | | | | | |
| 21... | 1100 | 18800 | 14.0 | 59 | 1360 | 69000 |
| JUN | | | | | | |
| 24... | 1040 | 21800 | 20.0 | 60 | 542 | 31800 |
| JUL | | | | | | |
| 22... | 1105 | 11500 | 21.5 | -- | 624 | 19400 |
| AUG | | | | | | |
| 21... | 1300 | 3380 | 24.5 | 93 | 318 | 2900 |
| SEP | | | | | | |
| 24... | 1145 | 3880 | 15.5 | -- | 1240 | 13000 |

GREEN RIVER BASIN

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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1983 to September 1986 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,590 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation of approximately 200 acres above gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,170 ft³/s July 29, 1985, gage height, 11.09 ft, from rating curve extended above 1,400 ft³/s; no flow several days in January 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 662 ft³/s July 16, gage height, 8.51 ft; minimum discharge, 0.20 ft³/s, June 20-22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 1.3 | e.91 | 1.3 | e.90 | 1.1 | .96 | .80 | .95 | 1.2 | 1.6 | .42 | .96 |
| 2 | 1.3 | e.74 | 1.8 | e.90 | 1.1 | .97 | 1.2 | 1.2 | 1.1 | 1.7 | .41 | .95 |
| 3 | 1.2 | e.74 | 1.6 | e.88 | 1.2 | .92 | .91 | 1.3 | .87 | 1.5 | .39 | .89 |
| 4 | 1.3 | e.74 | 1.5 | e.90 | e.95 | .93 | .80 | 1.3 | .89 | 1.5 | .39 | .80 |
| 5 | 1.3 | e.73 | 1.5 | e.88 | e.94 | .87 | .81 | 1.3 | .83 | 2.1 | .39 | .73 |
| 6 | 1.3 | e.68 | 1.5 | e.80 | e.98 | .86 | .86 | 1.3 | .99 | 1.3 | .40 | .70 |
| 7 | 1.4 | e.91 | 1.5 | e.87 | e.96 | .82 | .86 | 1.5 | .87 | .99 | .37 | .68 |
| 8 | 4.1 | e.77 | 1.6 | e.87 | e.90 | .86 | .93 | 1.5 | .84 | .83 | .50 | 1.2 |
| 9 | 2.0 | e.78 | 1.4 | e.87 | e.86 | .93 | .97 | 1.4 | 1.1 | 1.8 | .38 | .97 |
| 10 | 1.2 | e.80 | 1.1 | e.90 | e.86 | .89 | .95 | 1.2 | .92 | 2.8 | .35 | .81 |
| 11 | 1.6 | e.84 | e.90 | e.94 | e.88 | 1.1 | .92 | 1.1 | 1.2 | 1.8 | .32 | .78 |
| 12 | 1.1 | e1.0 | e.90 | e.96 | e.92 | .84 | .91 | 1.1 | 1.0 | 3.1 | .35 | .72 |
| 13 | 1.2 | e1.1 | e.80 | e1.0 | 1.1 | .86 | .92 | 1.0 | 1.0 | .90 | .42 | .70 |
| 14 | 1.1 | e.90 | e.78 | e1.1 | .96 | .85 | .88 | 1.2 | .97 | .33 | .47 | .65 |
| 15 | 1.1 | e.92 | e.78 | e.90 | 1.1 | .85 | .92 | 1.6 | .84 | .53 | .44 | .60 |
| 16 | 1.2 | e1.0 | e.78 | 1.2 | 1.2 | .87 | .89 | 1.5 | .84 | 50 | .37 | .62 |
| 17 | 1.3 | e1.0 | e.82 | 1.2 | 1.1 | .94 | .88 | 1.3 | .53 | 4.1 | .33 | .63 |
| 18 | 1.3 | e1.3 | e.80 | 1.2 | 1.1 | .80 | .92 | 1.2 | .58 | 1.1 | .32 | .66 |
| 19 | 1.2 | e1.2 | e.82 | 1.1 | 1.1 | .76 | .86 | 1.3 | .43 | .92 | .32 | .68 |
| 20 | 1.2 | e1.1 | e.84 | 1.2 | 1.1 | .78 | .85 | 1.8 | .28 | .95 | .37 | .63 |
| 21 | 1.3 | e1.1 | e.82 | e1.1 | 1.0 | .75 | .75 | 1.5 | .24 | 1.1 | .54 | .62 |
| 22 | 1.3 | e1.0 | e.84 | e1.0 | .97 | .73 | .71 | 1.4 | .28 | 6.9 | .55 | .62 |
| 23 | 1.3 | e1.2 | e.82 | e.98 | .96 | .71 | .72 | 1.6 | .65 | .42 | .46 | .79 |
| 24 | 1.3 | e1.3 | e.78 | e.98 | .89 | .71 | .79 | 2.0 | .53 | 1.2 | 4.1 | 6.7 |
| 25 | 1.2 | e1.4 | e.84 | e.96 | .84 | .70 | .86 | 2.0 | 1.2 | .47 | .67 | 1.1 |
| 26 | 1.1 | e1.2 | e.84 | e.96 | .88 | .71 | .91 | 1.2 | .88 | .39 | .35 | 1.0 |
| 27 | 1.1 | 1.2 | e.82 | e.98 | .89 | .74 | .88 | 1.1 | .80 | .38 | .33 | .86 |
| 28 | 1.1 | 1.3 | e.82 | e1.0 | .93 | .74 | .83 | 1.1 | 1.6 | .37 | .77 | 1.0 |
| 29 | .98 | 1.7 | e.84 | e.95 | --- | .74 | .79 | 1.1 | 1.4 | .37 | .73 | .99 |
| 30 | .94 | 1.8 | e.88 | 1.1 | --- | .73 | .76 | 1.1 | .95 | .40 | 1.2 | .94 |
| 31 | e.77 | --- | e.84 | 1.1 | --- | .70 | --- | 1.2 | --- | .45 | 1.0 | --- |
| TOTAL | 41.09 | 31.36 | 32.16 | 30.68 | 27.77 | 25.62 | 26.04 | 41.35 | 25.81 | 92.30 | 18.41 | 29.98 |
| MEAN | 1.33 | 1.05 | 1.04 | .99 | .99 | .83 | .87 | 1.33 | .86 | 2.98 | .59 | 1.00 |
| MAX | 4.1 | 1.8 | 1.8 | 1.2 | 1.2 | 1.1 | 1.2 | 2.0 | 1.6 | 50 | 4.1 | 6.7 |
| MIN | .77 | .68 | .78 | .80 | .84 | .70 | .71 | .95 | .24 | .33 | .32 | .60 |
| ACFT | 82 | 62 | 64 | 61 | 55 | 51 | 52 | 82 | 51 | 183 | 37 | 59 |
| CAL YR 1985 | TOTAL | 399.93 | MEAN | 1.10 | MAX | 37 | MIN | .14 | ACFT | 793 | | |
| WTR YR 1986 | TOTAL | 422.57 | MEAN | 1.16 | MAX | 50 | MIN | .24 | ACFT | 838 | | |

e Estimated.

GREEN RIVER BASIN

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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 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | PH (STAND- ARD UNITS) | TEMPER- ATURE, AIR (DEG C) | TEMPER- ATURE (DEG C) | HARD- NESS (MG/L AS CAC03) | HARD- NESS NONCAR- BONATE (MG/L AS CAC03) | HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CAC03 |
|----------|------|---|---|--------------------------------|-------------------------------------|-----------------------------|--|---|---|
| OCT 1985 | | | | | | | | | |
| 11... | 1545 | 1.3 | 2180 | 8.20 | 14.0 | 20.5 | 600 | 597 | 360 |
| NOV | | | | | | | | | |
| 25... | 1330 | 1.5 | 2840 | 8.70 | 13.0 | 8.5 | 660 | 659 | 220 |
| FEB 1986 | | | | | | | | | |
| 18... | 1535 | 0.95 | 2590 | 8.50 | 21.5 | 14.0 | 740 | 744 | 340 |
| MAR | | | | | | | | | |
| 19... | 1445 | 0.65 | 2720 | 8.60 | 13.5 | 17.0 | 750 | 751 | 360 |
| APR | | | | | | | | | |
| 30... | 1500 | 0.93 | 2490 | 8.50 | 26.5 | 24.0 | 620 | 619 | 240 |
| MAY | | | | | | | | | |
| 14... | 1345 | 1.2 | 2620 | 8.60 | 28.0 | 24.0 | 670 | 669 | 300 |
| JUN | | | | | | | | | |
| 20... | 1330 | 0.42 | 3400 | 8.30 | 33.0 | 29.5 | 410 | 414 | 240 |
| JUL | | | | | | | | | |
| 16... | 1400 | 1.7 | 1840 | 8.40 | 29.0 | 28.0 | 450 | 452 | 17 |
| AUG | | | | | | | | | |
| 13... | 1500 | 0.61 | 2690 | 8.40 | 27.0 | 30.5 | 710 | 710 | 330 |
| SEP | | | | | | | | | |
| 19... | 1350 | 0.84 | 2330 | 8.40 | 26.5 | 19.5 | 580 | 575 | 170 |

| 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 CAC03) | SULFATE DIS- SOLVED (MG/L AS S04) |
|----------|--|--|--|-------------------|---|---|---|--|
| OCT 1985 | | | | | | | | |
| 11... | 84 | 94 | 300 | 52 | 5 | 4.2 | 237 | 830 |
| NOV | | | | | | | | |
| 25... | 66 | 120 | 320 | 51 | 5 | 3.2 | 438 | 810 |
| FEB 1986 | | | | | | | | |
| 18... | 100 | 120 | 370 | 52 | 6 | 3.8 | 402 | 1100 |
| MAR | | | | | | | | |
| 19... | 70 | 140 | 350 | 50 | 6 | 4.0 | 388 | 1200 |
| APR | | | | | | | | |
| 30... | 50 | 120 | 350 | 55 | 6 | 4.2 | 383 | 930 |
| MAY | | | | | | | | |
| 14... | 70 | 120 | 370 | 54 | 6 | 4.0 | 370 | 1000 |
| JUN | | | | | | | | |
| 20... | 85 | 49 | 110 | 36 | 2 | 4.0 | 170 | 370 |
| JUL | | | | | | | | |
| 16... | 46 | 82 | 250 | 54 | 5 | 4.4 | 435 | 550 |
| AUG | | | | | | | | |
| 13... | 70 | 130 | 380 | 54 | 6 | 3.9 | 377 | 980 |
| SEP | | | | | | | | |
| 19... | 49 | 110 | 350 | 57 | 6 | 3.6 | 406 | 890 |

GREEN RIVER BASIN

09316100 FLOY WASH NEAR GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | CHLORIDE, DIS- SOLVED (MG/L AS CL) | FLUORIDE, DIS- SOLVED (MG/L AS F) | SILICA, DIS- SOLVED (MG/L AS SiO2) | SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) | SOLIDS, DIS- SOLVED (TONS PER AC-FT) | SOLIDS, DIS- SOLVED (TONS PER DAY) | NITROGEN, NO2+NO3 DIS- SOLVED (MG/L AS N) | PHOSPHORUS, DIS- SOLVED (MG/L AS P) |
|----------|--|---|---|--|---|---|--|---|
| OCT 1985 | | | | | | | | |
| 11... | 27 | 0.2 | 15 | 1500 | 2.0 | 5.2 | 0.13 | 0.03 |
| NOV | | | | | | | | |
| 25... | 27 | 0.2 | 15 | 1600 | 2.2 | 6.4 | <0.00 | 0.05 |
| FEB 1986 | | | | | | | | |
| 18... | 32 | 0.3 | 18 | 2000 | 2.7 | 5.1 | <0.10 | 0.01 |
| MAR | | | | | | | | |
| 19... | 35 | 0.3 | 17 | 2000 | 2.8 | 3.6 | <0.10 | 0.02 |
| APR | | | | | | | | |
| 30... | 31 | 0.2 | 18 | 1700 | 2.4 | 4.4 | <0.10 | 0.04 |
| MAY | | | | | | | | |
| 14... | 28 | 0.2 | 18 | 1800 | 2.5 | 6.0 | <0.10 | 0.04 |
| JUN | | | | | | | | |
| 20... | 65 | 0.3 | 7.9 | 790 | 1.1 | 0.9 | <0.10 | 0.03 |
| JUL | | | | | | | | |
| 16... | 18 | 0.2 | 15 | 1200 | 1.7 | 5.7 | 0.33 | 0.04 |
| AUG | | | | | | | | |
| 13... | 32 | 0.3 | 18 | 1800 | 2.5 | 3.0 | <0.10 | 0.03 |
| SEP | | | | | | | | |
| 19... | 30 | 0.2 | 18 | 1700 | 2.3 | 3.8 | <0.10 | 0.02 |

| DATE | TIME | BORON, DIS- SOLVED (UG/L AS B) |
|----------|------|--|
| OCT 1985 | | |
| 11... | 1545 | 90 |
| NOV | | |
| 25... | 1330 | 90 |
| FEB 1986 | | |
| 18... | 1535 | 130 |
| MAR | | |
| 19... | 1445 | 130 |
| APR | | |
| 30... | 1500 | 110 |
| MAY | | |
| 14... | 1345 | 120 |
| JUN | | |
| 20... | 1330 | 110 |
| JUL | | |
| 16... | 1400 | 70 |
| AUG | | |
| 13... | 1500 | 120 |
| SEP | | |
| 19... | 1350 | 100 |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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 | SED. SUSP. FALL DIAM. PERCENT FINER THAN .500 MM |
|----------|------|---|-----------------------------|--|--|---|---|---|---|---|---|---|
| OCT 1985 | | | | | | | | | | | | |
| 11... | 1545 | 1.3 | 20.5 | 4810 | 17 | 60 | 85 | 96 | 100 | -- | -- | -- |
| NOV | | | | | | | | | | | | |
| 25... | 1330 | 1.5 | 8.5 | 1390 | 5.5 | -- | -- | -- | -- | -- | -- | -- |
| FEB 1986 | | | | | | | | | | | | |
| 18... | 1535 | 0.95 | 14.0 | 1070 | 2.7 | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | | | |
| 19... | 1445 | 0.65 | 17.0 | 677 | 1.2 | 31 | 43 | 68 | 89 | 97 | 100 | -- |
| APR | | | | | | | | | | | | |
| 30... | 1500 | 0.93 | 24.0 | 1050 | 2.6 | 30 | 45 | 62 | 89 | 98 | 100 | -- |
| MAY | | | | | | | | | | | | |
| 14... | 1345 | 1.2 | 24.0 | 1310 | 4.3 | -- | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | | | |
| 20... | 1330 | 0.42 | 29.5 | 2700 | 3.1 | -- | -- | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | | |
| 16... | 1400 | 1.7 | 28.0 | 26400 | 123 | 47 | 61 | 93 | 97 | 98 | 99 | 100 |
| AUG | | | | | | | | | | | | |
| 13... | 1500 | 0.61 | 30.5 | 3630 | 6.0 | -- | -- | -- | -- | -- | -- | -- |
| SEP | | | | | | | | | | | | |
| 19... | 1350 | 0.84 | 19.5 | 2180 | 4.9 | -- | -- | -- | -- | -- | -- | -- |

BEAR RIVER BASIN

137

09317800 ELECTRIC LAKE NEAR SCOFIELD, UT

LOCATION.--Lat 39°36'03", long 111°12'41", in NE1/4NE1/4SE1/4 sec.14, T.14 S., R.6 E., Emery County, Hydrologic Unit 14060009, 25 mi northwest of Huntington, 21 mi east of Fairview.

PERIOD OF RECORD.--October 1985 to September 1986.

COOPERATION.--Records provided by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 31,940 acre-ft June 5, elevation, 8,576.41 ft; minimum, 22,990 acre-ft Apr. 21, elevation, 8,555.05 ft.

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
INSTANTANEOUS VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | 28140 | 27720 | 27550 | 26860 | 26030 | 25550 | 24270 | 24220 | 31110 | 31340 | 30840 | 29650 |
| 2 | 28050 | 27710 | 27550 | 26840 | 26000 | 25530 | 24280 | 24400 | 31780 | 31330 | 30810 | 29600 |
| 3 | 28010 | 27700 | 27550 | 26820 | 25990 | 25520 | 24210 | 24660 | 31830 | 31320 | 30770 | 29550 |
| 4 | 27960 | 27680 | 27530 | 26780 | 25960 | 25500 | 24140 | 24950 | 31910 | 31310 | 30730 | 29500 |
| 5 | 27920 | 27680 | 27510 | 26760 | 25940 | 25490 | 24060 | 25110 | 31940 | 31290 | 30690 | 29450 |
| 6 | 27880 | 27660 | 27490 | 26740 | 25920 | 25470 | 23990 | 25160 | 31910 | 31280 | 30660 | 29400 |
| 7 | 27840 | 27640 | 27460 | 26750 | 25890 | 25460 | 23930 | 25160 | 31860 | 31260 | 30620 | 29350 |
| 8 | 27920 | 27640 | 27460 | 26680 | 25860 | 25470 | 23880 | 25160 | 31800 | 31260 | 30580 | 29300 |
| 9 | 27900 | 27640 | 27430 | 26660 | 25850 | 25480 | 23820 | 25070 | 31750 | 31260 | 30540 | 29260 |
| 10 | 27900 | 27630 | 27400 | 26620 | 25830 | 25480 | 23750 | 24880 | 31710 | 31250 | 30500 | 29220 |
| 11 | 27900 | 27630 | 27370 | 26590 | 25820 | 25480 | 23680 | 24710 | 31680 | 31250 | 30470 | 29170 |
| 12 | 27900 | 27660 | 27330 | 26550 | 25800 | 25440 | 23620 | 24550 | 31670 | 31260 | 30430 | 29120 |
| 13 | 27900 | 27640 | 27300 | 26540 | 25780 | 25380 | 23560 | 24440 | 31670 | 31260 | 30390 | 29080 |
| 14 | 27910 | 27630 | 27300 | 26510 | 25770 | 25320 | 23480 | 24360 | 31650 | 31260 | 30350 | 29040 |
| 15 | 27890 | 27620 | 27250 | 26490 | 25750 | 25250 | 23400 | 24390 | 31630 | 31270 | 30310 | 29000 |
| 16 | 27880 | 27610 | 27220 | 26460 | 25740 | 25200 | 23350 | 24450 | 31610 | 31280 | 30280 | 28950 |
| 17 | 27870 | 27600 | 27200 | 26430 | 25720 | 25130 | 23290 | 24500 | 31580 | 31260 | 30240 | 28900 |
| 18 | 27860 | 27610 | 27180 | 26400 | 25700 | 25060 | 23200 | 24580 | 31570 | 31260 | 30190 | 28860 |
| 19 | 27850 | 27590 | 27150 | 26370 | 25690 | 24980 | 23110 | 24770 | 31550 | 31230 | 30150 | 28820 |
| 20 | 27850 | 27570 | 27120 | 26370 | 25670 | 24910 | 23040 | 25170 | 31520 | 31200 | 30110 | 28760 |
| 21 | 27830 | 27570 | 27100 | 26330 | 25660 | 24840 | 22990 | 25750 | 31500 | 31170 | 30080 | 28720 |
| 22 | 27820 | 27550 | 27080 | 26300 | 25640 | 24770 | 23080 | 26360 | 31470 | 31140 | 30040 | 28670 |
| 23 | 27830 | 27540 | 27050 | 26270 | 25620 | 24700 | 23280 | 26850 | 31460 | 31130 | 30000 | 28630 |
| 24 | 27810 | 27550 | 27030 | 26240 | 25610 | 24650 | 23510 | 27320 | 31430 | 31110 | 29960 | 28620 |
| 25 | 27800 | 27590 | 27000 | 26210 | 25590 | 24580 | 23670 | 27830 | 31420 | 31090 | 29920 | 28600 |
| 26 | 27800 | 27570 | 26980 | 26180 | 25580 | 24530 | 23690 | 28500 | 31410 | 31060 | 29880 | 28580 |
| 27 | 27790 | 27550 | 26950 | 26160 | 25570 | 24440 | 23680 | 29060 | 31400 | 31030 | 29840 | 28540 |
| 28 | 27780 | 27550 | 26930 | 26130 | 25560 | 24350 | 23760 | 29530 | 31380 | 30990 | 29790 | 28500 |
| 29 | 27770 | 27570 | 26910 | 26090 | --- | 24280 | 23950 | 29970 | 31360 | 30960 | 29760 | 28460 |
| 30 | 27760 | 27570 | 26930 | 26070 | --- | 24240 | 24100 | 30400 | 31360 | 30910 | 29720 | 28440 |
| 31 | 27740 | --- | 26890 | 26060 | --- | 24240 | --- | 30760 | --- | 30880 | 29700 | --- |
| MAX | 28140 | 27720 | 27550 | 26860 | 26030 | 25550 | 24280 | 30760 | 31940 | 31340 | 30840 | 29650 |
| MIN | 27740 | 27540 | 26890 | 26060 | 25560 | 24240 | 22990 | 24220 | 31110 | 30880 | 29700 | 28440 |
| (#) | 8576.15 | 8566.75 | 8565.12 | 8563.08 | 8561.81 | 8558.42 | 8558.05 | 8573.94 | 8575.19 | 8574.18 | 8571.63 | 8568.78 |
| (*) | -400 | -170 | -680 | -830 | -500 | -1320 | -140 | +6660 | +600 | -480 | -1180 | -1260 |

WTR YR 1986 (*) +300

(#) Elevation, in feet, at end of month.
(*) Change in contents, in acre-feet.

GREEN RIVER BASIN

09317997 HUNTINGTON CREEK NEAR HUNTINGTON, UT

LOCATION.--Lat 39°23'07", long 111°05'15", in SE1/4NE1/4SW1/4, sec.36, T.16 S., R.7 E., Emery County, Hydrologic Unit 14060009, on right bank about 500 ft upstream from bridge to Deer Creek Mine, 8 mi northwest of Huntington.

DRAINAGE AREA.--181 mi², approximately.

PERIOD OF RECORD.--October 1979 to current year. Water years 1981-85 not published, records available in office of Utah Power & Light Co., located in Salt Lake City, Ut.

GAGE.--Water-stage recorder. Altitude of gage is 6,450 ft from topographic map.

REMARKS.--No estimated daily discharges. Records good. Small transmountain diversions to tributaries of San Pitch River (Sevier Lake Basin). Flow regulated by reservoirs above station.

COOPERATION.--Records collected by Utah Power & Light Co., and reviewed by U.S. Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,680 ft³/s May 24, 1984, gage height, 4.96 ft; minimum, 3.0 ft³/s Feb. 2-5, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 998 ft³/s June 6, gage height, 4.24 ft; minimum, 3.6 ft³/s Nov. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|-------|-------|--------|------|------|
| 1 | 57 | 47 | 33 | 27 | 43 | 58 | 175 | 305 | 782 | 212 | 100 | 122 |
| 2 | 60 | 45 | 32 | 49 | 43 | 62 | 172 | 353 | 804 | 193 | 99 | 110 |
| 3 | 61 | 44 | 24 | 42 | 45 | 64 | 153 | 416 | 847 | 180 | 104 | 107 |
| 4 | 61 | 34 | 19 | 30 | 39 | 66 | 139 | 463 | 762 | 182 | 108 | 106 |
| 5 | 61 | 36 | 19 | 32 | 42 | 66 | 131 | 354 | 761 | 186 | 109 | 104 |
| 6 | 62 | 30 | 19 | 41 | 45 | 68 | 132 | 321 | 834 | 162 | 108 | 102 |
| 7 | 95 | 32 | 33 | 24 | 41 | 68 | 136 | 296 | 765 | 149 | 112 | 103 |
| 8 | 94 | 35 | 36 | 25 | 42 | 69 | 132 | 293 | 710 | 147 | 124 | 103 |
| 9 | 74 | 35 | 36 | 45 | 32 | 71 | 128 | 320 | 581 | 141 | 120 | 106 |
| 10 | 76 | 29 | 36 | 44 | 29 | 62 | 126 | 310 | 485 | 132 | 117 | 99 |
| 11 | 75 | 33 | 25 | 40 | 51 | 57 | 130 | 339 | 461 | 128 | 118 | 96 |
| 12 | 71 | 36 | 30 | 33 | 42 | 59 | 130 | 415 | 483 | 121 | 133 | 97 |
| 13 | 70 | 34 | 58 | 35 | 46 | 62 | 139 | 390 | 493 | 120 | 170 | 100 |
| 14 | 62 | 43 | 46 | 32 | 50 | 76 | 128 | 410 | 502 | 131 | 165 | 103 |
| 15 | 61 | 30 | 37 | 43 | 47 | 75 | 126 | 370 | 490 | 143 | 163 | 100 |
| 16 | 57 | 34 | 33 | 40 | 51 | 77 | 130 | 295 | 468 | 171 | 162 | 103 |
| 17 | 55 | 38 | 25 | 41 | 46 | 76 | 128 | 281 | 438 | 169 | 160 | 119 |
| 18 | 65 | 36 | 35 | 41 | 53 | 78 | 123 | 325 | 431 | 161 | 158 | 123 |
| 19 | 64 | 21 | 34 | 41 | 51 | 80 | 118 | 402 | 427 | 162 | 163 | 115 |
| 20 | 60 | 27 | 35 | 43 | 38 | 81 | 123 | 435 | 392 | 165 | 157 | 106 |
| 21 | 61 | 32 | 34 | 41 | 45 | 82 | 143 | 433 | 354 | 172 | 165 | 110 |
| 22 | 63 | 33 | 41 | 38 | 51 | 84 | 144 | 449 | 323 | 172 | 169 | 111 |
| 23 | 64 | 43 | 43 | 44 | 54 | 101 | 124 | 391 | 303 | 174 | 163 | 129 |
| 24 | 45 | 45 | 42 | 41 | 53 | 103 | 144 | 410 | 291 | 172 | 174 | 167 |
| 25 | 40 | 44 | 43 | 39 | 55 | 96 | 137 | 485 | 290 | 169 | 158 | 143 |
| 26 | 41 | 38 | 39 | 41 | 56 | 91 | 174 | 578 | 291 | 161 | 149 | 137 |
| 27 | 46 | 34 | 41 | 43 | 57 | 101 | 162 | 696 | 273 | 150 | 123 | 138 |
| 28 | 53 | 33 | 42 | 43 | 57 | 126 | 136 | 786 | 261 | 146 | 104 | 132 |
| 29 | 46 | 40 | 41 | 45 | --- | 136 | 120 | 801 | 246 | 140 | 113 | 129 |
| 30 | 47 | 40 | 45 | 44 | --- | 148 | 196 | 795 | 237 | 106 | 106 | 124 |
| 31 | 48 | --- | 39 | 45 | --- | 168 | --- | 797 | --- | 102 | 117 | --- |
| TOTAL | 1895 | 1081 | 1095 | 1212 | 1304 | 2611 | 4179 | 13714 | 14785 | 4819 | 4191 | 3444 |
| MEAN | 61.1 | 36.0 | 35.3 | 39.1 | 46.6 | 84.2 | 139 | 442 | 493 | 155 | 135 | 115 |
| MAX | 95 | 47 | 58 | 49 | 57 | 168 | 196 | 801 | 847 | 212 | 174 | 167 |
| MIN | 40 | 21 | 19 | 24 | 29 | 57 | 118 | 281 | 237 | 102 | 99 | 96 |
| ACFT | 3760 | 2140 | 2170 | 2400 | 2590 | 5180 | 8290 | 27200 | 29330 | 9560 | 8310 | 6830 |
| WTR YR 1986 | TOTAL | 54330 | MEAN | 149 | MAX | 847 | MIN | 19 | ACFT | 107800 | | |

GREEN RIVER BASIN

139

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 good except for estimated daily discharges, which are poor. Flow is seasonal. 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, 142 ft³/s June 6, 1964, gage height, 5.43 ft; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 56 ft³/s June 3, gage height, 3.57 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-----|-----|-----|-----|-----|-----|-----|--------|-------|-------|-------|-----|
| 1 | | | | | | | --- | .22 | 24 | 13 | 1.7 | .08 |
| 2 | | | | | | | --- | .26 | 24 | 11 | 1.6 | .05 |
| 3 | | | | | | | --- | .40 | 32 | 11 | 1.5 | .03 |
| 4 | | | | | | | --- | .94 | 35 | 11 | 1.4 | .01 |
| 5 | | | | | | | --- | 1.2 | 35 | 9.7 | 1.4 | .00 |
| 6 | | | | | | | --- | 1.1 | e28 | 7.6 | 1.3 | .00 |
| 7 | | | | | | | --- | 1.0 | e25 | 6.2 | 1.3 | .00 |
| 8 | | | | | | | --- | 1.0 | e16 | 6.1 | 1.2 | .00 |
| 9 | | | | | | | --- | 1.0 | e12 | 6.1 | 1.1 | .04 |
| 10 | | | | | | | --- | 1.0 | e9.5 | 5.2 | 1.0 | .16 |
| 11 | | | | | | | --- | 1.0 | e12 | 5.1 | .94 | .05 |
| 12 | | | | | | | --- | 1.0 | e12 | 5.1 | .91 | .02 |
| 13 | | | | | | | --- | .98 | e15 | 6.3 | .85 | .01 |
| 14 | | | | | | | --- | .96 | e16 | 5.1 | .73 | .01 |
| 15 | | | | | | | .00 | .91 | e15 | 5.9 | .66 | .00 |
| 16 | | | | | | | .05 | .91 | 14 | 4.5 | .61 | .00 |
| 17 | | | | | | | .16 | .91 | 13 | 3.7 | .50 | .00 |
| 18 | | | | | | | .19 | .89 | 14 | 3.4 | .42 | .00 |
| 19 | | | | | | | .15 | .88 | 13 | 3.1 | .38 | .00 |
| 20 | | | | | | | .15 | 1.0 | e12 | 2.9 | .36 | .00 |
| 21 | | | | | | | .17 | 1.8 | 8.4 | 2.6 | .86 | .00 |
| 22 | | | | | | | .20 | 2.8 | 6.0 | 3.0 | .40 | .00 |
| 23 | | | | | | | .20 | 2.3 | e8.5 | 2.7 | .32 | .00 |
| 24 | | | | | | | .17 | 3.2 | 19 | 2.7 | .31 | .00 |
| 25 | | | | | | | .19 | 5.6 | 22 | 2.4 | .27 | .00 |
| 26 | | | | | | | .22 | 10 | 11 | 2.2 | .22 | .00 |
| 27 | | | | | | | .26 | 15 | 5.8 | 2.2 | .16 | .00 |
| 28 | | | | | | | .28 | 17 | 16 | 2.0 | .12 | .00 |
| 29 | | | | | | | .21 | 18 | 17 | 1.9 | .54 | .00 |
| 30 | | | | | | | .20 | 19 | 15 | 1.8 | .17 | .00 |
| 31 | | | | | | | --- | 22 | --- | 1.8 | .13 | --- |
| TOTAL | | | | | | | --- | 134.26 | 505.2 | 157.3 | 23.36 | .46 |
| MEAN | | | | | | | --- | 4.33 | 16.8 | 5.07 | .75 | .01 |
| MAX | | | | | | | --- | 22 | 35 | 13 | 1.7 | .16 |
| MIN | | | | | | | --- | .22 | 5.8 | 1.8 | .12 | .00 |
| ACFT | | | | | | | --- | 266 | 1000 | 312 | 46 | .9 |

e Estimated.

GREEN RIVER BASIN

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 except for estimated daily discharges, which are poor. Tunnel diverts from Cottonwood Creek drainage in Colorado River Basin to San Pitch River in the Great Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 111 ft³/s July 23, 1965; possibly no flow at times in some years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|------|------|
| 1 | | | | | | | --- | 6.5 | 13 | 14 | 2.6 | 1.5 |
| 2 | | | | | | | --- | 8.6 | 13 | 12 | 2.5 | 1.4 |
| 3 | | | | | | | --- | 11 | 13 | 12 | 2.4 | 1.3 |
| 4 | | | | | | | --- | 13 | 13 | 11 | 2.3 | 1.3 |
| 5 | | | | | | | --- | 9.6 | 13 | 9.7 | 2.3 | 1.3 |
| 6 | | | | | | | --- | 8.4 | 13 | 8.7 | 2.2 | 1.2 |
| 7 | | | | | | | --- | 7.4 | 13 | 8.2 | 2.1 | 1.2 |
| 8 | | | | | | | --- | 6.7 | 12 | 7.9 | 2.1 | 1.2 |
| 9 | | | | | | | --- | 6.1 | 11 | 7.4 | 2.0 | 1.3 |
| 10 | | | | | | | --- | 5.8 | 11 | 7.0 | 2.0 | 1.5 |
| 11 | | | | | | | --- | 5.6 | 11 | 6.6 | 1.9 | 1.4 |
| 12 | | | | | | | --- | 5.8 | 12 | 6.2 | 1.9 | 1.3 |
| 13 | | | | | | | --- | 6.1 | 12 | 6.0 | 1.9 | 1.3 |
| 14 | | | | | | | --- | 6.2 | 12 | 5.5 | 1.8 | 1.2 |
| 15 | | | | | | | 1.6 | 6.0 | 12 | 6.4 | 1.8 | 1.2 |
| 16 | | | | | | | 1.7 | 5.6 | 12 | 5.8 | 1.7 | 1.1 |
| 17 | | | | | | | 1.7 | 5.4 | 12 | 5.2 | 1.7 | 1.1 |
| 18 | | | | | | | 1.8 | 6.3 | 12 | e5.0 | 1.7 | 1.1 |
| 19 | | | | | | | 1.8 | 9.5 | 12 | e4.6 | 1.7 | 1.1 |
| 20 | | | | | | | 2.1 | 13 | 11 | e4.3 | 1.6 | 1.1 |
| 21 | | | | | | | 3.0 | 13 | 11 | e3.9 | 2.5 | 1.1 |
| 22 | | | | | | | 3.4 | 14 | 10 | e4.4 | 1.6 | 1.1 |
| 23 | | | | | | | 3.7 | 13 | 10 | e4.1 | 1.6 | 1.5 |
| 24 | | | | | | | 3.8 | 14 | 10 | e4.1 | 1.8 | 1.8 |
| 25 | | | | | | | 3.3 | 13 | 10 | e3.6 | 1.6 | 1.3 |
| 26 | | | | | | | 3.2 | 13 | 10 | e3.3 | 1.5 | 1.3 |
| 27 | | | | | | | 3.1 | 12 | 9.9 | e3.3 | 1.4 | 1.2 |
| 28 | | | | | | | 3.3 | 11 | 13 | e3.0 | 1.4 | 1.2 |
| 29 | | | | | | | 4.0 | 12 | 18 | e2.9 | 2.0 | 1.2 |
| 30 | | | | | | | 4.7 | 13 | 16 | e2.7 | 1.5 | 1.2 |
| 31 | | | | | | | --- | 13 | --- | 2.7 | 1.5 | --- |
| TOTAL | | | | | | | --- | 293.6 | 360.9 | 191.5 | 58.6 | 38.0 |
| MEAN | | | | | | | --- | 9.47 | 12.0 | 6.18 | 1.89 | 1.27 |
| MAX | | | | | | | --- | 14 | 18 | 14 | 2.6 | 1.8 |
| MIN | | | | | | | --- | 5.4 | 9.9 | 2.7 | 1.4 | 1.1 |
| ACFT | | | | | | | --- | 582 | 716 | 380 | 116 | 75 |

e Estimated.

GREEN RIVER BASIN

141

09323900 JOES VALLEY RESERVOIR NEAR ORANGEVILLE, UT

LOCATION.--Lat 39°17'20", long 111°16'10", in NW1/4NE1/4 sec.5, T.18 S., R.6 E., Emery County, Hydrologic Unit 14060009, on Seeley Creek 5.2 mi upstream from Cottonwood Creek, and 12.6 mi west of Orangeville.

DRAINAGE AREA.--146 mi².

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 provided 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, 64,950 acre-ft June 6, elevation, 6,991.8 ft; minimum observed, 44,940 acre-ft, Nov. 4, 8, elevation, 6,973.2 ft.

MONTHEND ELEVATION, IN FEET, AND CONTENTS AT 2400, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| Date | Elevation (feet) | Contents (acre-feet) | Change in contents (acre-feet) |
|-----------------------|---------------------|-------------------------|-----------------------------------|
| Sept. 30 | 6,974.2 | 45,890 | - |
| Oct. 31 | - | *45,040 | -850 |
| Nov. 30 | - | *45,610 | +570 |
| Dec. 31 | - | *45,610 | 0 |
| CAL YR 1985 | - | - | -4,430 |
| Jan. 31 | 6,974.0 | 45,700 | +90 |
| Feb. 28 | 6,974.5 | 46,180 | +480 |
| Mar. 31 | 6,976.2 | 47,840 | +1,660 |
| Apr. 30 | 6,977.3 | 48,930 | +1,090 |
| May 31 | - | *57,650 | +8,720 |
| June 30 | - | *63,640 | +5,990 |
| July 31 | 6,986.3 | 58,550 | -5,090 |
| Aug. 31 | - | *52,220 | -6,330 |
| Sept. 30 | - | *47,640 | -4,580 |
| WTR YR 1986 | - | - | +1,750 |

* No gage reading, contents interpolated.

09326500 FERRON CREEK (UPPER STATION) NEAR FERRON, UT

LOCATION.--Lat 39°06'15", long 111°12'57", 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 mi².

PERIOD OF RECORD.--May 1911 to September 1923, October 1947 to current year. Monthly discharge only for some periods, published in WSP 1313. Records for station at site 2 mi downstream published as Ferron Creek near Ferron, Apr. 1909 to Oct. 1911, not equivalent because of diversions 1.5 mi downstream from present site.

REVISED RECORDS.--WSP 1243: 1951(P). WSP 1313: 1920(M).

GAGE.--Water-stage recorder. Altitude of gage is 6,210 ft from topographic map. May 6, 1911 to Sept. 30, 1923, nonrecording gages in vicinity of present site at different datums. Dec. 19, 1947 to Sept. 30, 1966, at site 1.5 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Slight regulation by small reservoir above station (capacity not known). Small diversions above station for irrigation, including a transmountain diversion to tributary of San Pitch River (Sevier Lake basin). Greater part of flow diverted during irrigation season by Upper North and Upper South Canals, 1.5 mi below station.

AVERAGE DISCHARGE.--51 years, 69.9 ft³/s, 50,640 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,180 ft³/s Aug. 27, 1952, gage height, 9.71 ft, site and datum then in use, from rating table extended above 400 ft³/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 discharges greater than base discharge of 600 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|--------------------------------|------------------|--|------|--------------------------------|------------------|
| June 3 | 2300 | *1,070 | *6.45 | No other peak greater than base discharge. | | | |

Minimum daily, 4.4 ft³/s Dec. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|-------|------|------|-------|-------|-------|------|------|
| 1 | 16 | 11 | e8.0 | e5.8 | e11 | 20 | 76 | 159 | 729 | 191 | 46 | 27 |
| 2 | 15 | 13 | e9.4 | e5.0 | e9.0 | 22 | 65 | 181 | 756 | 180 | 44 | 24 |
| 3 | 15 | 13 | e7.8 | e6.0 | e7.8 | 19 | 44 | 220 | 791 | 173 | 43 | 24 |
| 4 | 15 | 13 | e8.0 | e5.6 | e7.6 | 20 | 38 | 223 | 821 | 171 | 42 | 24 |
| 5 | 14 | 13 | e8.0 | e6.2 | e7.4 | 22 | 36 | 166 | 820 | 164 | 41 | 23 |
| 6 | 14 | 9.7 | e7.2 | e5.4 | e7.0 | 23 | 46 | 150 | 753 | 151 | 40 | 22 |
| 7 | 21 | 12 | e6.4 | e7.2 | e6.8 | 24 | 50 | 129 | 681 | 142 | 40 | 22 |
| 8 | 21 | 14 | e7.0 | e5.8 | e6.4 | 25 | 43 | 121 | 611 | 138 | 41 | 22 |
| 9 | 24 | 13 | e5.8 | e6.8 | e6.1 | 29 | 39 | 114 | 523 | 133 | 38 | 22 |
| 10 | 27 | 11 | e5.4 | e7.2 | e5.8 | 20 | 43 | 107 | 476 | 123 | 37 | 23 |
| 11 | 21 | 14 | e5.0 | e7.8 | e6.6 | 19 | 55 | 115 | 481 | 114 | 36 | 23 |
| 12 | 19 | 13 | e4.4 | e10 | e7.6 | 17 | 59 | 145 | 459 | 107 | 35 | 22 |
| 13 | 18 | e7.0 | e5.2 | e12 | e8.2 | 16 | 57 | 159 | 459 | 100 | 35 | 21 |
| 14 | 15 | e6.2 | e4.8 | e11 | e7.0 | 16 | 43 | 169 | 451 | 91 | 34 | 21 |
| 15 | 16 | e6.6 | e4.8 | e11 | e15 | 15 | 42 | 177 | 428 | 103 | 32 | 20 |
| 16 | 16 | e7.2 | e5.4 | e10 | e14 | 16 | 52 | 150 | 414 | 89 | 32 | 20 |
| 17 | 16 | e6.8 | e7.2 | e8.4 | e13 | 16 | 44 | 141 | 398 | 80 | 30 | 19 |
| 18 | 15 | e6.4 | e8.4 | e7.4 | e15 | 15 | 43 | 165 | 408 | 75 | 29 | 20 |
| 19 | 15 | e5.6 | e9.6 | e8.4 | 19 | 15 | 40 | 212 | 382 | 71 | 30 | 19 |
| 20 | 15 | e5.8 | e11 | e7.4 | 18 | 15 | 52 | 275 | 355 | 69 | 31 | 18 |
| 21 | 15 | e6.4 | e10 | e6.6 | 12 | 17 | 83 | 319 | 325 | 67 | 39 | 18 |
| 22 | 15 | e6.8 | e8.6 | e6.0 | 12 | 21 | e105 | 324 | 303 | 73 | 33 | 18 |
| 23 | 15 | e7.4 | e7.2 | e5.6 | 12 | 27 | 104 | 293 | 288 | 70 | 30 | 22 |
| 24 | 15 | e9.0 | e7.4 | e5.4 | 17 | 28 | 101 | 335 | 273 | 66 | 34 | 33 |
| 25 | 15 | e7.4 | e6.2 | e5.2 | 25 | 26 | 86 | 424 | 269 | 62 | 35 | 26 |
| 26 | 14 | e8.6 | e5.8 | e5.2 | 29 | 28 | 77 | 521 | 262 | 61 | 29 | 24 |
| 27 | 14 | e9.2 | e6.4 | e5.6 | 26 | 38 | 72 | 585 | 244 | 56 | 28 | 23 |
| 28 | 14 | e8.0 | e5.4 | e7.6 | 20 | 48 | 85 | 599 | 229 | 52 | 27 | 22 |
| 29 | 14 | e9.6 | e5.8 | e9.6 | --- | 52 | 115 | 620 | 217 | 49 | 29 | 21 |
| 30 | 13 | e9.6 | e6.0 | e14 | --- | 63 | 134 | 651 | 204 | 48 | 41 | 21 |
| 31 | 13 | --- | e6.4 | e12 | --- | 87 | --- | 688 | --- | 47 | 28 | --- |
| TOTAL | 505 | 283.3 | 214.0 | 237.2 | 351.3 | 819 | 1929 | 8637 | 13810 | 3116 | 1089 | 664 |
| MEAN | 16.3 | 9.44 | 6.90 | 7.65 | 12.5 | 26.4 | 64.3 | 279 | 460 | 101 | 35.1 | 22.1 |
| MAX | 27 | 14 | 11 | 14 | 29 | 87 | 134 | 688 | 821 | 191 | 46 | 33 |
| MIN | 13 | 5.6 | 4.4 | 5.0 | 5.8 | 15 | 36 | 107 | 204 | 47 | 27 | 18 |
| ACFT | 1000 | 562 | 424 | 470 | 697 | 1620 | 3830 | 17130 | 27390 | 6180 | 2160 | 1320 |
| CAL YR 1985 | TOTAL | 26531.3 | MEAN | 72.7 | MAX | 404 | MIN | 4.4 | ACFT | 52620 | | |
| WTR YR 1986 | TOTAL | 31654.8 | MEAN | 86.7 | MAX | 821 | MIN | 4.4 | ACFT | 62790 | | |

e Estimated.

GREEN RIVER BASIN

143

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 mi².

PERIOD OF RECORD.--October 1975 to September 1986 (discontinued).

REVISED RECORDS.--WDR UT-77-1: 1976(M); WDR UT-84-1: 1980-83 (average discharge).

GAGE.--Water-stage recorder. Altitude of gage is 5,600 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--11 years, 59.8 ft³/s, 43,330 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,670 ft³/s July 22, 1985, gage height, 6.99 ft; No flow on many days.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 140 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|--|------|-----------------------------------|---------------------|
| June 4 | 1100 | *1,480 | *6.17 | No other peak greater than base discharge. | | | |

Minimum discharge, 3.6 ft³/s May 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 1 | 17 | 18 | e16 | e9.5 | e9.5 | 9.0 | 6.4 | 6.8 | 519 | 57 | 22 | 13 |
| 2 | 17 | 18 | e15 | e8.5 | e13 | 9.0 | 6.8 | 6.2 | 757 | 48 | 24 | 13 |
| 3 | 17 | 18 | e16 | e7.0 | e16 | 9.0 | 6.4 | 4.5 | 884 | 37 | 24 | 15 |
| 4 | 17 | 18 | e15 | e8.0 | e14 | 8.5 | 6.0 | 5.1 | 1240 | 37 | 28 | 14 |
| 5 | 17 | 18 | e14 | e7.5 | e13 | 8.5 | 6.0 | 8.1 | 1310 | 34 | 26 | 14 |
| 6 | 16 | 19 | e15 | e7.5 | e13 | 8.3 | 6.0 | 8.5 | 1220 | 34 | 27 | 12 |
| 7 | 17 | 19 | e14 | e7.5 | e12 | 8.5 | 5.6 | 13 | 1050 | 29 | 25 | 11 |
| 8 | 17 | 18 | e13 | e8.0 | e11 | 8.1 | 5.5 | 15 | 868 | 29 | 27 | 12 |
| 9 | 21 | 19 | e12 | e8.0 | e10 | 7.8 | 5.8 | 14 | 605 | 26 | 28 | 13 |
| 10 | 22 | 18 | e11 | e8.5 | e12 | 7.8 | 5.5 | 18 | 447 | 21 | 31 | 11 |
| 11 | 21 | 17 | e10 | e8.8 | e12 | 8.5 | 5.6 | 18 | 418 | 20 | 30 | 9.6 |
| 12 | 20 | 19 | e9.0 | e9.0 | e12 | 8.3 | 5.6 | 17 | 445 | 19 | 31 | 9.6 |
| 13 | 22 | 18 | e9.5 | e9.0 | e12 | 8.1 | 5.8 | 17 | 418 | 17 | 33 | 10 |
| 14 | 20 | 17 | e10 | e8.5 | e13 | 8.3 | 5.6 | 16 | 420 | 18 | 30 | 9.6 |
| 15 | 19 | 17 | e10 | e8.5 | e13 | 8.1 | 6.2 | 19 | 376 | 19 | 27 | 8.8 |
| 16 | 19 | 16 | e10 | e8.0 | 36 | 8.1 | 6.2 | 23 | 364 | 27 | 25 | 7.2 |
| 17 | 19 | 17 | e10 | e8.0 | 49 | 9.0 | 6.2 | 21 | 331 | 29 | 24 | 6.6 |
| 18 | 17 | 17 | e10 | e8.0 | 24 | 7.8 | 5.6 | 18 | 276 | 31 | 25 | 6.8 |
| 19 | 18 | 15 | e10 | e9.0 | 15 | 7.8 | 5.5 | 17 | 273 | 28 | 23 | 7.0 |
| 20 | 18 | 16 | e10 | e8.8 | 13 | 7.6 | 5.7 | 13 | 235 | 29 | 25 | 6.9 |
| 21 | 19 | 16 | e9.5 | e8.5 | 11 | 7.6 | 5.7 | 11 | 250 | 32 | 28 | 6.9 |
| 22 | 19 | 16 | e10 | e8.5 | 11 | 7.6 | 5.3 | 15 | 216 | 32 | 30 | 7.1 |
| 23 | 18 | 17 | e9.5 | e8.0 | 10 | 7.6 | 5.4 | 16 | 198 | 37 | 28 | 8.2 |
| 24 | 18 | 16 | e9.5 | e8.0 | 10 | 6.8 | 5.6 | 17 | 162 | 33 | 28 | 10 |
| 25 | 18 | 17 | e10 | e8.5 | 9.6 | 6.8 | 5.2 | 17 | 128 | 32 | 23 | 8.6 |
| 26 | 18 | 16 | e11 | e8.5 | 9.6 | 6.6 | 7.1 | 18 | 134 | 39 | 17 | 8.3 |
| 27 | 18 | 16 | e10 | e9.0 | 9.6 | 6.8 | 8.5 | 19 | 127 | 30 | 15 | 8.2 |
| 28 | 18 | 16 | e10 | e9.5 | 9.0 | 6.4 | 8.4 | 21 | 134 | 28 | 14 | 8.5 |
| 29 | 19 | 17 | e9.5 | e10 | --- | 6.4 | 7.5 | 20 | 74 | 25 | 15 | 8.5 |
| 30 | 18 | e18 | e10 | e10 | --- | 6.6 | 7.7 | 21 | 63 | 22 | 15 | 8.2 |
| 31 | 19 | --- | e10 | e10 | --- | 6.6 | --- | 272 | --- | 20 | 15 | --- |
| TOTAL | 573 | 517 | 348.5 | 264.1 | 402.3 | 241.9 | 184.4 | 725.2 | 13942 | 919 | 763 | 292.6 |
| MEAN | 18.5 | 17.2 | 11.2 | 8.52 | 14.4 | 7.80 | 6.15 | 23.4 | 465 | 29.6 | 24.6 | 9.75 |
| MAX | 22 | 19 | 16 | 10 | 49 | 9.0 | 8.5 | 272 | 1310 | 57 | 33 | 15 |
| MIN | 16 | 15 | 9.0 | 7.0 | 9.0 | 6.4 | 5.2 | 4.5 | 63 | 17 | 14 | 6.6 |
| ACFT | 1140 | 1030 | 691 | 524 | 798 | 480 | 366 | 1440 | 27650 | 1820 | 1510 | 580 |
| CAL YR 1985 | TOTAL | 15105.4 | MEAN | 41.4 | MAX | 336 | MIN | 2.5 | ACFT | 29960 | | |
| WTR YR 1986 | TOTAL | 19173.0 | MEAN | 52.5 | MAX | 1310 | MIN | 4.5 | ACFT | 38030 | | |

e Estimated.

GREEN RIVER BASIN

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 September 1986 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,320 ft from topographic map. Prior to July 11, 1956, at site 0.7 mi upstream at different datum. July 11, 1956 to Sept. 30, 1964, at site 0.6 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation above station, including transmountain diversions to Sevier Lake basin.

AVERAGE DISCHARGE.--31 years (1947-64, 1972-86), 132 ft³/s, 95,630 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,510 ft³/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 discharges greater than base discharge of 1,000 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|--|------|-----------------------------------|---------------------|
| June 6 | 1300 | *2,730 | *7.84 | No other peak greater than base discharge. | | | |

Minimum discharge, 35 ft³/s Sept. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|-------|-------|------|------|------|
| 1 | 73 | 97 | e100 | e65 | e81 | 82 | 133 | 144 | 1080 | 412 | 70 | 76 |
| 2 | 70 | 89 | e105 | e60 | e77 | 83 | 164 | 204 | 1280 | 371 | 68 | 73 |
| 3 | 58 | 80 | e101 | e55 | e80 | 86 | 198 | 228 | 1340 | 333 | 73 | 70 |
| 4 | 56 | 78 | e98 | e56 | e73 | 87 | 191 | 268 | 1940 | 302 | 78 | 67 |
| 5 | 56 | 80 | e94 | e55 | e69 | 86 | 185 | 252 | 2400 | 288 | 78 | 63 |
| 6 | 73 | 77 | e100 | e56 | e73 | 80 | 158 | 239 | 2550 | 258 | 79 | 58 |
| 7 | 79 | 77 | e96 | e60 | e60 | 80 | 154 | 227 | 2460 | 216 | 74 | 54 |
| 8 | 91 | 75 | e92 | e56 | e62 | 79 | 116 | 228 | 2230 | 187 | 83 | 56 |
| 9 | 136 | 79 | e88 | e60 | e53 | 76 | 115 | e219 | 1860 | 181 | 83 | 60 |
| 10 | 153 | 82 | e87 | e70 | e61 | 74 | 128 | e240 | 1590 | 141 | 91 | 53 |
| 11 | 134 | 80 | e80 | e70 | e74 | 79 | 130 | e240 | 1410 | 110 | 94 | 50 |
| 12 | 120 | 116 | e76 | e74 | e88 | 73 | 128 | e260 | 1400 | 90 | 93 | 53 |
| 13 | 151 | 88 | e80 | e72 | e94 | 71 | 121 | 272 | 1380 | 78 | 113 | 53 |
| 14 | 113 | 82 | e90 | e72 | e94 | 76 | 122 | 272 | 1410 | 78 | 97 | 53 |
| 15 | 106 | 101 | e93 | e64 | e110 | 86 | 118 | e380 | 1380 | 78 | 89 | 54 |
| 16 | 99 | 100 | e95 | e66 | e175 | 81 | 111 | 336 | 1350 | 99 | 83 | 47 |
| 17 | 95 | 101 | e90 | e70 | 219 | 95 | 123 | 256 | 1270 | 104 | 82 | 42 |
| 18 | 87 | 97 | e91 | e76 | 170 | 85 | 125 | 243 | 1180 | 100 | 75 | 43 |
| 19 | 87 | 78 | e88 | e74 | 127 | 81 | 115 | 259 | 1180 | 102 | 65 | 48 |
| 20 | 85 | 91 | e85 | e72 | 106 | 79 | 110 | 292 | 1090 | 103 | 86 | 48 |
| 21 | 83 | 99 | e82 | e70 | 83 | 80 | 104 | 301 | 997 | 110 | 141 | 43 |
| 22 | 83 | 86 | e79 | e70 | 83 | 65 | 106 | 325 | 897 | 113 | 105 | 46 |
| 23 | 82 | 98 | e78 | e68 | 83 | 65 | 93 | 310 | 801 | 123 | 109 | 53 |
| 24 | 85 | 97 | e76 | e70 | 84 | 76 | 80 | 306 | 719 | 124 | 254 | 141 |
| 25 | 84 | 96 | e75 | e74 | 82 | 78 | 88 | 337 | 707 | 122 | 174 | 93 |
| 26 | 82 | 100 | e78 | e69 | 83 | 71 | 79 | 388 | 699 | 123 | 104 | 86 |
| 27 | 82 | 94 | e76 | e71 | 88 | 75 | 92 | 449 | 635 | 106 | 88 | 81 |
| 28 | 84 | 92 | e74 | e79 | 84 | 80 | 85 | 516 | 623 | 98 | 79 | 80 |
| 29 | 91 | e98 | e73 | e88 | --- | 92 | 95 | 584 | 494 | 87 | 77 | 82 |
| 30 | 88 | e105 | e74 | e90 | --- | 100 | 75 | 570 | 452 | 81 | 72 | 81 |
| 31 | 92 | --- | e72 | e82 | --- | 110 | --- | 842 | --- | 74 | 74 | --- |
| TOTAL | 2858 | 2713 | 2666 | 2134 | 2616 | 2511 | 3642 | 9987 | 38804 | 4792 | 2931 | 1907 |
| MEAN | 92.2 | 90.4 | 86.0 | 68.8 | 93.4 | 81.0 | 121 | 322 | 1293 | 155 | 94.5 | 63.6 |
| MAX | 153 | 116 | 105 | 90 | 219 | 110 | 198 | 842 | 2550 | 412 | 254 | 141 |
| MIN | 56 | 75 | 72 | 55 | 53 | 65 | 75 | 144 | 452 | 74 | 65 | 42 |
| ACFT | 5670 | 5380 | 5290 | 4230 | 5190 | 4980 | 7220 | 19810 | 76970 | 9500 | 5810 | 3780 |

| CAL YR 1985 | TOTAL | 67504 | MEAN | 185 | MAX | 1080 | MIN | 30 | ACFT | 133900 |
|-------------|-------|-------|------|-----|-----|------|-----|----|------|--------|
| WTR YR 1986 | TOTAL | 77561 | MEAN | 212 | MAX | 2550 | MIN | 42 | ACFT | 153800 |

e Estimated.

GREEN RIVER BASIN

145

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 mi².

PERIOD OF RECORD.--October 1975 to September 1986 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,100 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--11 years, 171 ft³/s, 123,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,630 ft³/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 discharges greater than base discharge of 1,000 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| June 6 | 1900 | 2,490 | 7.96 | Aug. 25 | 0200 | *2,970 | *9.02 |

Minimum discharge, 39 ft³/s Sept. 18

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|-------|-------|-------|------|------|
| 1 | 68 | 94 | e104 | e62 | e79 | 82 | 136 | 100 | 1050 | 418 | 72 | 154 |
| 2 | 70 | 98 | e109 | e58 | e90 | 82 | 179 | 185 | 1180 | 365 | 67 | 127 |
| 3 | 59 | 80 | e105 | e53 | e95 | 83 | 213 | 222 | 1270 | 310 | 68 | 91 |
| 4 | 51 | 75 | e102 | e54 | e75 | 85 | 212 | 253 | 1650 | 288 | 75 | 84 |
| 5 | 48 | 74 | e96 | e52 | e74 | 85 | 206 | 265 | 2170 | 266 | 84 | 74 |
| 6 | 58 | 77 | e106 | e54 | e75 | 81 | 182 | 241 | 2310 | 227 | 82 | 68 |
| 7 | 68 | 73 | e100 | e56 | e57 | 79 | 164 | 230 | 2380 | 198 | 77 | 62 |
| 8 | 82 | 72 | e95 | e53 | e58 | 82 | 143 | 227 | 2250 | 178 | 92 | 60 |
| 9 | 133 | 88 | e91 | e56 | e52 | 79 | 130 | 218 | 1990 | 185 | 83 | 65 |
| 10 | 173 | 108 | e88 | e66 | e59 | 78 | 132 | 244 | 1660 | 156 | 83 | 68 |
| 11 | 191 | 80 | e77 | e67 | e78 | 83 | 136 | 244 | 1490 | 133 | 88 | 54 |
| 12 | 149 | 115 | e73 | e70 | e84 | 80 | 139 | 268 | 1420 | 109 | 190 | 57 |
| 13 | 319 | 164 | e71 | e69 | e105 | 73 | 127 | 291 | 1430 | 92 | 199 | 59 |
| 14 | 143 | 87 | e78 | e62 | e99 | 76 | 133 | 280 | 1450 | 83 | 113 | 57 |
| 15 | 122 | 106 | e88 | e61 | e115 | 89 | 127 | 365 | 1440 | 84 | 91 | 58 |
| 16 | 113 | 109 | e90 | e63 | 200 | 86 | 118 | 408 | 1400 | 195 | 83 | 56 |
| 17 | 103 | 104 | e84 | e66 | 365 | 100 | 125 | 290 | 1340 | 155 | 75 | 47 |
| 18 | 99 | 108 | e86 | e73 | 346 | 92 | 136 | 252 | 1230 | 115 | 72 | 44 |
| 19 | 91 | 82 | e84 | e70 | 202 | 84 | 128 | 266 | 1220 | 114 | 61 | 47 |
| 20 | 87 | 80 | e82 | e69 | 142 | 83 | 120 | 295 | 1160 | 115 | 59 | 55 |
| 21 | 88 | 103 | e80 | e68 | 102 | 82 | 110 | 316 | 1070 | 123 | 147 | 48 |
| 22 | 85 | 79 | e77 | e67 | 92 | 78 | 105 | 327 | 955 | 137 | 127 | 47 |
| 23 | 82 | 93 | e73 | e66 | 88 | 66 | 111 | 330 | 859 | 142 | 115 | 51 |
| 24 | 85 | 115 | e74 | e67 | 88 | 68 | 82 | 322 | 756 | 148 | 320 | 146 |
| 25 | 89 | 101 | e76 | e70 | 85 | 84 | 86 | 322 | 732 | 145 | 745 | 149 |
| 26 | 90 | 105 | e72 | e66 | 84 | 73 | 85 | 379 | 734 | 155 | 168 | 104 |
| 27 | 84 | 104 | e70 | e69 | 90 | 78 | 87 | 441 | 643 | 125 | 126 | 102 |
| 28 | 83 | 95 | e70 | e76 | 85 | 73 | 91 | 504 | 665 | 114 | 102 | 96 |
| 29 | 90 | e99 | e69 | e84 | --- | 96 | 90 | 573 | 538 | 98 | 100 | 100 |
| 30 | 94 | e108 | e71 | e85 | --- | 103 | 84 | 573 | 470 | 91 | 109 | 101 |
| 31 | 91 | --- | e70 | e78 | --- | 115 | --- | 747 | --- | 79 | 95 | --- |
| TOTAL | 3188 | 2876 | 2611 | 2030 | 3164 | 2578 | 3917 | 9978 | 38912 | 5143 | 3968 | 2331 |
| MEAN | 103 | 95.9 | 84.2 | 65.5 | 113 | 83.2 | 131 | 322 | 1297 | 166 | 128 | 77.7 |
| MAX | 319 | 164 | 109 | 85 | 365 | 115 | 213 | 747 | 2380 | 418 | 745 | 154 |
| MIN | 48 | 72 | 69 | 52 | 52 | 66 | 82 | 100 | 470 | 79 | 59 | 44 |
| ACFT | 6320 | 5700 | 5180 | 4030 | 6280 | 5110 | 7770 | 19790 | 77180 | 10200 | 7870 | 4620 |

| | | | | | | | | | | |
|-------------|-------|-------|------|-----|-----|------|-----|----|------|--------|
| CAL YR 1985 | TOTAL | 72549 | MEAN | 199 | MAX | 1170 | MIN | 26 | ACFT | 143900 |
| WTR YR 1986 | TOTAL | 80696 | MEAN | 221 | MAX | 2380 | MIN | 44 | ACFT | 160100 |

e Estimated.

GREEN RIVER BASIN

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 good except for estimated daily discharges, which are poor. Diversions above station for irrigation of about 42,000 acres. Several small transmountain diversions from tributaries for irrigation in Sevier Lake basin, and some storage since Nov. 3, 1965, in Joes Valley Reservoir (see station 09323900).

AVERAGE DISCHARGE.--50 years (1909-18, 1945-86), 161 ft³/s, 116,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,000 ft³/s, Sept. 2, 1909, gage height, 12.7 ft, site and datum then in use, from rating curve extended above 3,100 ft³/s; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|-----------------------|---------|--------------------------------|------------------|---------|------|--------------------------------|------------------|
| June 8 | unknown | unknown | unknown | Aug. 25 | 1400 | 1,480 | 9.48 |
| (maximum daily 2,300) | | | | | | | |

Minimum discharge, 40 ft³/s Sep. 19-21, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|-------|-------|--------|------|------|
| 1 | 64 | 84 | e105 | e61 | 86 | 91 | 123 | 95 | e850 | 379 | 79 | 106 |
| 2 | 67 | 86 | e100 | e55 | 88 | 89 | 158 | 101 | e1070 | 343 | 73 | 118 |
| 3 | 68 | 91 | e105 | e50 | 94 | 89 | 168 | 182 | e1260 | 295 | 70 | 107 |
| 4 | 65 | 82 | e97 | e52 | 100 | 88 | 192 | 202 | e1500 | 257 | 69 | 84 |
| 5 | 59 | 78 | e95 | e51 | 94 | 90 | 197 | 217 | 1830 | 251 | 71 | 80 |
| 6 | 57 | 77 | e90 | e52 | 88 | 91 | 186 | 220 | e2100 | 222 | 78 | 74 |
| 7 | 58 | 78 | e97 | e53 | 93 | 89 | 171 | 206 | e2200 | 194 | 78 | 68 |
| 8 | 69 | 77 | e90 | e58 | 75 | 87 | 158 | 204 | e2300 | 172 | 79 | 64 |
| 9 | 87 | 78 | e87 | e54 | 77 | 88 | 138 | 201 | e1980 | 159 | 84 | 62 |
| 10 | 116 | 85 | e84 | e58 | 62 | 87 | 123 | 192 | e1800 | 155 | 93 | 61 |
| 11 | 142 | 98 | e75 | e64 | 77 | 87 | 127 | 213 | e1600 | 133 | 86 | 63 |
| 12 | 138 | 84 | e71 | e67 | 85 | 88 | 133 | 208 | e1400 | 117 | 90 | 56 |
| 13 | 189 | 116 | e68 | e67 | 90 | 88 | 137 | 234 | 1330 | 104 | 182 | 56 |
| 14 | 187 | 116 | e66 | e66 | 102 | 84 | 123 | 236 | e1300 | 92 | 149 | 55 |
| 15 | 115 | 91 | e74 | e60 | 98 | 85 | 127 | 239 | e1280 | 90 | 115 | 54 |
| 16 | 99 | 94 | e80 | e62 | 106 | 89 | 123 | 394 | e1290 | 165 | 94 | 52 |
| 17 | 92 | 98 | e83 | e64 | e170 | 91 | 116 | 353 | e1250 | 165 | 86 | 51 |
| 18 | 86 | 98 | e80 | e70 | e390 | 97 | 119 | 283 | 1180 | 135 | 79 | 47 |
| 19 | 84 | 99 | e79 | e71 | e370 | 95 | 131 | 264 | 1090 | 106 | 77 | 43 |
| 20 | 79 | 83 | e78 | e67 | e210 | 89 | 123 | 277 | 1090 | 101 | 71 | 42 |
| 21 | 79 | 76 | e77 | e64 | 130 | 87 | 116 | 303 | 974 | 105 | 74 | 45 |
| 22 | 78 | 89 | e74 | e65 | 107 | 85 | 109 | 312 | 867 | 128 | 127 | 44 |
| 23 | 77 | 83 | e72 | e64 | 98 | 84 | 103 | 336 | 766 | 135 | 126 | 42 |
| 24 | 76 | 88 | e71 | e62 | 94 | 75 | 110 | 329 | 662 | 135 | 111 | 53 |
| 25 | 77 | 99 | e70 | e66 | 93 | 75 | 91 | 324 | 606 | 130 | 581 | 95 |
| 26 | 79 | 91 | e68 | e68 | 91 | 84 | 89 | 335 | 591 | 126 | 228 | 109 |
| 27 | e78 | 94 | e69 | e64 | 89 | 81 | 92 | 380 | 560 | 132 | 128 | 86 |
| 28 | e77 | 92 | e68 | e71 | 92 | 81 | 91 | 439 | 519 | 113 | 99 | 84 |
| 29 | e80 | 95 | e66 | e90 | --- | 79 | 97 | 514 | 499 | 103 | 84 | 79 |
| 30 | e84 | e97 | e65 | e93 | --- | 91 | 93 | e554 | 416 | 93 | 83 | 82 |
| 31 | 87 | --- | e68 | e95 | --- | 102 | --- | e552 | --- | 85 | 151 | --- |
| TOTAL | 2793 | 2697 | 2472 | 2004 | 3349 | 2706 | 3864 | 8899 | 36160 | 4920 | 3595 | 2062 |
| MEAN | 90.1 | 89.9 | 79.7 | 64.6 | 120 | 87.3 | 129 | 287 | 1205 | 159 | 116 | 68.7 |
| MAX | 189 | 116 | 105 | 95 | 390 | 102 | 197 | 554 | 2300 | 379 | 581 | 118 |
| MIN | 57 | 76 | 65 | 50 | 62 | 75 | 89 | 95 | 416 | 85 | 69 | 42 |
| ACFT | 5540 | 5350 | 4900 | 3970 | 6640 | 5370 | 7660 | 17650 | 71720 | 9760 | 7130 | 4090 |
| CAL YR 1985 | TOTAL | 78852 | MEAN | 216 | MAX | 1520 | MIN | 26 | ACFT | 156400 | | |
| WTR YR 1986 | TOTAL | 75521 | MEAN | 207 | MAX | 2300 | MIN | 42 | ACFT | 149800 | | |

e Estimated.

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 microsiemens July 15, 1954, and June 29, 1977; minimum daily (water years 1949, 1951-76), 689 microsiemens 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, 3,110 microsiemens Oct. 6; minimum, 720 microsiemens June 9, 17.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | PH (STAND- ARD UNITS) | TEMPER- ATURE, AIR (DEG C) | TEMPER- ATURE (DEG C) | OXYGEN, DIS- SOLVED (MG/L) | BARO- METRIC PRES- SURE (MM OF HG) | HARD- NESS (MG/L AS CACO3) | HARD- NESS NONCAR- BONATE (MG/L AS CACO3) |
|----------|------|---|---|--------------------------------|-------------------------------------|-----------------------------|-------------------------------------|--|--|---|
| OCT 1985 | | | | | | | | | | |
| 25... | 1315 | 83 | 2900 | 8.30 | 12.5 | 11.0 | 9.0 | 650 | 1100 | 1100 |
| NOV | | | | | | | | | | |
| 22... | 1330 | 93 | 2900 | 8.30 | 5.0 | 2.0 | 11.8 | 650 | 1100 | 1100 |
| JAN 1986 | | | | | | | | | | |
| 31... | 1300 | 103 | 2120 | 8.30 | 14.0 | 3.0 | 11.9 | 655 | 740 | 741 |
| FEB | | | | | | | | | | |
| 21... | 1330 | 136 | 2520 | 8.30 | 12.5 | 6.5 | 10.3 | 659 | 720 | 716 |
| MAR | | | | | | | | | | |
| 25... | 1330 | 76 | 2180 | 8.10 | 20.0 | 14.0 | 8.2 | 657 | 740 | 737 |
| APR | | | | | | | | | | |
| 24... | 0950 | 109 | 1880 | 8.40 | 27.0 | 14.5 | 9.2 | 652 | 570 | 569 |
| MAY | | | | | | | | | | |
| 23... | 1010 | 358 | 1130 | 8.40 | 17.5 | 14.0 | 8.5 | 655 | 420 | 422 |
| JUN | | | | | | | | | | |
| 30... | 1400 | 428 | 1080 | 8.40 | 27.5 | 23.5 | 7.8 | 650 | 1000 | 1020 |
| JUL | | | | | | | | | | |
| 23... | 1030 | 139 | 2230 | 8.20 | 25.5 | 22.0 | 7.2 | 658 | 720 | 720 |
| AUG | | | | | | | | | | |
| 22... | 1015 | 152 | 2390 | 8.10 | 23.0 | 21.5 | 7.0 | 657 | 670 | 675 |
| SEP | | | | | | | | | | |
| 23... | 1230 | 44 | 3070 | 8.30 | 18.5 | 16.0 | 8.5 | 650 | 980 | 985 |

| DATE | HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CACO3 | CALCIUM DIS- SOLVED (MG/L AS CA) | MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) | SODIUM, DIS- SOLVED (MG/L AS NA) | PERCENT SODIUM | SODIUM AD- SORP- TION RATIO | POTAS- SIUM, DIS- SOLVED (MG/L AS K) | ALKA- LITY LAB (MG/L AS CACO3) | SULFATE DIS- SOLVED (MG/L AS SO4) | CHLO- RIDE, DIS- SOLVED (MG/L AS CL) |
|----------|---|--|--|--|-------------------|---|---|---|---|---|
| OCT 1985 | | | | | | | | | | |
| 25... | 860 | 210 | 140 | 370 | 42 | 5 | 6.0 | 255 | 1500 | 98 |
| NOV | | | | | | | | | | |
| 22... | 800 | 210 | 140 | 360 | 41 | 5 | 6.4 | 293 | 1500 | 53 |
| JAN 1986 | | | | | | | | | | |
| 31... | 480 | 140 | 95 | 210 | 38 | 3 | 4.6 | 246 | 970 | 38 |
| FEB | | | | | | | | | | |
| 21... | 460 | 140 | 89 | 270 | 45 | 5 | 7.0 | 210 | 1100 | 35 |
| MAR | | | | | | | | | | |
| 25... | 520 | 140 | 94 | 210 | 38 | 3 | 5.5 | 149 | 980 | 42 |
| APR | | | | | | | | | | |
| 24... | 340 | 96 | 80 | 190 | 42 | 4 | 4.8 | 205 | 790 | 29 |
| MAY | | | | | | | | | | |
| 23... | 200 | 88 | 49 | 95 | 33 | 2 | 3.4 | 198 | 390 | 12 |
| JUN | | | | | | | | | | |
| 30... | 820 | 260 | 89 | 81 | 15 | 1 | 4.5 | 217 | 370 | 14 |
| JUL | | | | | | | | | | |
| 23... | 520 | 140 | 90 | 230 | 41 | 4 | 6.8 | 204 | 1100 | 10 |
| AUG | | | | | | | | | | |
| 22... | 490 | 130 | 85 | 260 | 45 | 4 | 7.7 | 194 | 980 | 34 |
| SEP | | | | | | | | | | |
| 23... | 760 | 180 | 130 | 340 | 43 | 5 | 7.4 | 227 | 1500 | 44 |

GREEN RIVER BASIN

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | 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 TOTAL (MG/L AS N) | NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) | NITRO- GEN, AMMONIA TOTAL (MG/L AS N) |
|----------|--|---|--|---|---|---|--|---|--|
| OCT 1985 | | | | | | | | | |
| 25... | 0.3 | 6.1 | 2410 | 2500 | 3.3 | 541 | 0.20 | 0.22 | 0.25 |
| NOV | | | | | | | | | |
| 22... | 0.3 | 6.9 | 2470 | 2500 | 3.4 | 618 | 0.60 | 0.00 | 0.37 |
| JAN 1986 | | | | | | | | | |
| 31... | 0.2 | 6.7 | 1750 | 1600 | 2.4 | 487 | 0.50 | 0.45 | 0.08 |
| FEB | | | | | | | | | |
| 21... | 0.3 | 6.6 | 2060 | 1800 | 2.8 | 756 | 0.80 | 0.82 | 0.11 |
| MAR | | | | | | | | | |
| 25... | 0.3 | 5.0 | 1820 | 1600 | 2.5 | 375 | 0.20 | 0.19 | 0.12 |
| APR | | | | | | | | | |
| 24... | 0.2 | 4.4 | 1470 | 1300 | 2.0 | 433 | <0.10 | <0.10 | 0.05 |
| MAY | | | | | | | | | |
| 23... | 0.2 | 5.4 | 811 | 790 | 1.1 | 784 | 0.30 | 0.26 | 0.03 |
| JUN | | | | | | | | | |
| 30... | 0.2 | 18 | 789 | 990 | 1.1 | 912 | 0.20 | 0.15 | 0.05 |
| JUL | | | | | | | | | |
| 23... | 0.3 | 6.8 | 1840 | 1700 | 2.5 | 691 | <0.10 | <0.10 | 0.04 |
| AUG | | | | | | | | | |
| 22... | 0.4 | 6.2 | 1900 | 1600 | 2.6 | 780 | <0.10 | <0.10 | 0.06 |
| SEP | | | | | | | | | |
| 23... | 0.3 | 5.8 | 2450 | 2300 | 3.3 | 294 | <0.10 | <0.10 | 0.05 |

| DATE | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) | NITRO- GEN, ORGANIC TOTAL (MG/L AS N) | NITRO- GEN,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, ORTHO, DIS- SOLVED (MG/L AS P) | PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) |
|----------|---|---|--|--|---|---|---|--|---|
| OCT 1985 | | | | | | | | | |
| 25... | 0.07 | 0.09 | 0.35 | 0.6 | 0.8 | 3.5 | 0.12 | <0.01 | -- |
| NOV | | | | | | | | | |
| 22... | 0.00 | -- | 0.23 | 0.6 | 1.2 | 5.3 | 0.07 | <0.00 | -- |
| JAN 1986 | | | | | | | | | |
| 31... | 0.08 | 0.1 | 0.42 | 0.5 | 1.0 | 4.4 | 0.04 | <0.01 | -- |
| FEB | | | | | | | | | |
| 21... | 0.12 | 0.15 | 2.0 | 2.1 | 2.9 | 13 | 0.66 | <0.01 | -- |
| MAR | | | | | | | | | |
| 25... | 0.07 | 0.09 | 8.6 | 8.7 | 8.9 | 39 | 6.60 | 0.03 | 0.09 |
| APR | | | | | | | | | |
| 24... | 0.04 | 0.05 | 0.45 | 0.5 | -- | -- | 0.10 | <0.01 | -- |
| MAY | | | | | | | | | |
| 23... | <0.01 | -- | 0.97 | 1.0 | 1.3 | 5.8 | 0.33 | <0.01 | -- |
| JUN | | | | | | | | | |
| 30... | 0.04 | 0.05 | 0.55 | 0.6 | 0.8 | 3.5 | 0.15 | 0.02 | 0.06 |
| JUL | | | | | | | | | |
| 23... | 0.05 | 0.06 | 0.96 | 1.0 | -- | -- | 0.42 | <0.01 | -- |
| AUG | | | | | | | | | |
| 22... | 0.05 | 0.06 | 0.64 | 0.7 | -- | -- | 0.21 | <0.01 | -- |
| SEP | | | | | | | | | |
| 23... | 0.09 | 0.12 | 0.95 | 1.0 | -- | -- | 0.02 | <0.01 | -- |

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) | ALUM- INUM, DIS- SOLVED (UG/L AS AL) | ARSENIC TOTAL (UG/L AS AS) | ARSENIC DIS- SOLVED (UG/L AS AS) | BARIUM, DIS- SOLVED (UG/L AS BA) | BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) | BERYL- LIUM, DIS- SOLVED (UG/L AS BE) | CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) | CADMIUM DIS- SOLVED (UG/L AS CD) | CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) | CHRO- MIUM, DIS- SOLVED (UG/L AS CR) |
|-------------------|------|--|---|-------------------------------------|--|--|---|--|---|--|--|---|
| JUN 1986 30... | 1400 | -- | 3800 | -- | 5 | 160 | -- | <0.5 | -- | <1 | -- | <1 |
| AUG 22... | 1015 | 30000 | -- | 13 | -- | -- | <10 | -- | 1 | -- | 50 | -- |

| DATE | COBALT, DIS- SOLVED (UG/L AS CO) | COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) | COPPER, DIS- SOLVED (UG/L AS CU) | IRON, TOTAL RECOV- ERABLE (UG/L AS FE) | IRON, DIS- SOLVED (UG/L AS FE) | LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) | LEAD, DIS- SOLVED (UG/L AS PB) | LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI) | LITHIUM DIS- SOLVED (UG/L AS LI) | MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) | MANGA- NESE, DIS- SOLVED (UG/L AS MN) |
|-------------------|--|---|--|---|--|---|--|---|--|---|--|
| JUN 1986 30... | 210 | -- | 2 | -- | 8600 | -- | <5 | -- | 79 | -- | 870 |
| AUG 22... | -- | 43 | -- | 44000 | -- | 19 | -- | 240 | -- | 1900 | -- |

| DATE | MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO) | MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) | 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) | SILVER, DIS- SOLVED (UG/L AS AG) | STRON- TIUM, DIS- SOLVED (UG/L AS SR) | VANA- DIUM, DIS- SOLVED (UG/L AS V) | ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) | ZINC, DIS- SOLVED (UG/L AS ZN) |
|-------------------|--|---|---|--|--|---|--|--|--|---|--|
| JUN 1986 30... | -- | <10 | -- | 2 | -- | 1 | <1 | 1100 | 16 | -- | 63 |
| AUG 22... | 8 | -- | 36 | -- | <1 | -- | -- | -- | -- | 180 | -- |

| DATE | TIME | BORON, DIS- SOLVED (UG/L AS B) |
|-------------------|------|--|
| OCT 1985 25... | 1315 | 270 |
| NOV 22... | 1330 | 220 |
| JAN 1986 31... | 1300 | 180 |
| FEB 21... | 1330 | 170 |
| MAR 25... | 1330 | 210 |
| APR 24... | 0950 | 150 |
| MAY 23... | 1010 | 90 |
| JUN 30... | 1400 | 100 |
| JUL 23... | 1030 | 220 |
| AUG 22... | 1015 | 270 |
| SEP 23... | 1230 | 270 |

| DATE | TIME | CARBON, ORGANIC DIS- SOLVED (MG/L AS C) | CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C) |
|-------------------|------|--|---|
| NOV 1985 22... | 1330 | 6.2 | 0.6 |
| FEB 1986 21... | 1330 | 7.0 | >3.0 |
| MAY 23... | 1010 | 6.3 | >5.0 |
| JUN 30... | 1400 | 5.0 | >7.0 |
| AUG 22... | 1015 | 5.8 | -- |

GREEN RIVER BASIN

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

SPECIFIC CONDUCTANCE (US/CM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
ONCE-DAILY

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 3050 | 2760 | --- | --- | --- | --- | --- | --- | 900 | --- | --- | --- |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2580 |
| 3 | --- | --- | --- | 2140 | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | --- | --- | 2980 | --- | 2050 | --- | --- | --- | 770 | 1380 | --- | --- |
| 5 | --- | --- | --- | --- | --- | 2430 | 1330 | 1190 | --- | --- | --- | --- |
| 6 | 3110 | --- | --- | --- | --- | --- | --- | --- | 820 | --- | 2570 | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | 730 | --- | --- | --- |
| 8 | --- | 2910 | --- | --- | --- | 2180 | --- | 1220 | --- | 1710 | --- | --- |
| 9 | --- | --- | 2910 | 2230 | --- | --- | 1540 | --- | 720 | 1810 | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | 740 | --- | 2460 | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | 800 | 1920 | --- | 2880 |
| 12 | --- | --- | --- | --- | 2780 | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | 2810 | --- | --- | --- | 2250 | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | 3000 | 2000 | --- | --- | --- | --- | --- | 2290 | --- | --- |
| 16 | --- | --- | --- | --- | 1720 | --- | --- | --- | 730 | --- | --- | --- |
| 17 | 2780 | --- | --- | --- | --- | --- | 1610 | --- | 720 | --- | --- | --- |
| 18 | --- | --- | --- | --- | --- | --- | --- | 1220 | --- | --- | --- | 3050 |
| 19 | --- | --- | 2340 | --- | --- | 2190 | --- | --- | --- | --- | 2500 | --- |
| 20 | --- | 2620 | --- | --- | --- | --- | --- | --- | 730 | --- | --- | --- |
| 21 | --- | --- | --- | 1640 | 2520 | --- | --- | --- | 780 | --- | --- | --- |
| 22 | --- | 2900 | --- | --- | --- | --- | --- | 1180 | --- | --- | 2400 | --- |
| 23 | 2890 | --- | --- | --- | 2710 | --- | --- | 1130 | 770 | 2230 | --- | 3070 |
| 24 | --- | 2690 | --- | --- | --- | 2100 | 1880 | --- | --- | --- | --- | --- |
| 25 | 2900 | --- | --- | --- | --- | 2180 | --- | --- | --- | --- | --- | --- |
| 26 | --- | --- | 2160 | 1960 | --- | --- | --- | --- | 980 | --- | --- | --- |
| 27 | --- | --- | --- | --- | --- | --- | --- | 1170 | 1140 | --- | 2670 | --- |
| 28 | 2750 | 2530 | --- | --- | --- | --- | 2510 | --- | 1140 | --- | --- | --- |
| 29 | --- | --- | --- | --- | --- | --- | --- | 970 | 1120 | --- | --- | 2690 |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | 1100 | --- | 2550 | --- |
| 31 | --- | --- | --- | 2120 | --- | --- | --- | --- | --- | --- | --- | --- |
| MEAN | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) |
|----------|------|---|-----------------------------|---|---|
| OCT 1985 | | | | | |
| 25... | 1315 | 83 | 11.0 | 307 | 69 |
| NOV | | | | | |
| 22... | 1330 | 93 | 2.0 | 258 | 65 |
| JAN 1986 | | | | | |
| 31... | 1300 | 103 | 3.0 | 600 | 167 |
| FEB | | | | | |
| 21... | 1330 | 136 | 6.5 | 97 | 36 |
| MAR | | | | | |
| 25... | 1330 | 76 | 14.0 | 9770 | 2020 |
| APR | | | | | |
| 24... | 0950 | 109 | 14.5 | 241 | 71 |
| MAY | | | | | |
| 23... | 1010 | 358 | 14.0 | 1960 | 1890 |
| JUN | | | | | |
| 30... | 1400 | 428 | 23.5 | 4720 | 5450 |
| JUL | | | | | |
| 23... | 1030 | 139 | 22.0 | 1390 | 522 |
| AUG | | | | | |
| 22... | 1015 | 152 | 21.5 | 3900 | 1600 |
| SEP | | | | | |
| 23... | 1230 | 44 | 16.0 | 1100 | 132 |

DIRTY DEVIL RIVER BASIN

151

09329050 SEVEN MILE CREEK NEAR FISH LAKE, UT

LOCATION.--Lat 38°37'40", long 111°38'50", in SE1/4SW1/4 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 mi².

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 except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--22 years, 16.1 ft³/s, 11,660 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 369 ft³/s June 1, 1984, gage height, 4.03 ft; minimum, 1.9 ft³/s Nov. 16, 17, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 80 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|-------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| May 3 | 1900 | 111 | 2.51 | May 26 | 2000 | *290 | *3.69 |

Minimum daily, 7.2 ft³/s Jan. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|-------|-------|-------|------|------|------|-------|------|------|
| 1 | 12 | e10 | 11 | 11 | 8.6 | 9.3 | 28 | 56 | 81 | 16 | 15 | 16 |
| 2 | 12 | 11 | 13 | 10 | 8.5 | 9.9 | 29 | 62 | 72 | 16 | 15 | 16 |
| 3 | 12 | 12 | 13 | 9.9 | 8.6 | 9.7 | 23 | 76 | 69 | 16 | 14 | 15 |
| 4 | 12 | 12 | 13 | 9.9 | 8.0 | 9.4 | 19 | 67 | 63 | 16 | 15 | 15 |
| 5 | 11 | 13 | 12 | 10 | 8.7 | 9.7 | 17 | 50 | 57 | 15 | 15 | 14 |
| 6 | 12 | e12 | 12 | 7.2 | 8.7 | 9.3 | 16 | 44 | 50 | 14 | 16 | 13 |
| 7 | 14 | e11 | 12 | 7.2 | 8.6 | 11 | 16 | 35 | 44 | 15 | 16 | 13 |
| 8 | 14 | 12 | 11 | 10 | 8.5 | 10 | 16 | 29 | 40 | 15 | 15 | 13 |
| 9 | 15 | 11 | 12 | 11 | 8.7 | 9.7 | 16 | 25 | 43 | 14 | 15 | 13 |
| 10 | 17 | e10 | 13 | 11 | 8.3 | 11 | 15 | 26 | 49 | 13 | 15 | 14 |
| 11 | 21 | 11 | 12 | 10 | 8.6 | 8.8 | 14 | 33 | 36 | 12 | 15 | 14 |
| 12 | 17 | e11 | 12 | 10 | 8.1 | 11 | 13 | 43 | 34 | 12 | 15 | 13 |
| 13 | 15 | e10 | 13 | 9.9 | 8.2 | 9.7 | 13 | 52 | 31 | 12 | 16 | 13 |
| 14 | 15 | e9.6 | 11 | 9.8 | 8.3 | 9.2 | 23 | 60 | 29 | 11 | 15 | 13 |
| 15 | 16 | e9.4 | 11 | 9.8 | 8.1 | 9.0 | 18 | 54 | 28 | 14 | 14 | 12 |
| 16 | 13 | e9.9 | 11 | 10 | 8.1 | 8.6 | 15 | 39 | 26 | 14 | 14 | 12 |
| 17 | 13 | e10 | 11 | 9.4 | 8.2 | 7.6 | 13 | 38 | 25 | 12 | 13 | 12 |
| 18 | 13 | 11 | 11 | 9.2 | 7.8 | 7.6 | 12 | 53 | 25 | 11 | 14 | 12 |
| 19 | 12 | e10 | 11 | 9.3 | 7.5 | 7.6 | 17 | 72 | 24 | 11 | 14 | 12 |
| 20 | 13 | e10 | 11 | 9.3 | 7.7 | 8.0 | 16 | 91 | 22 | 11 | 21 | 12 |
| 21 | 13 | 13 | 11 | 9.0 | 7.8 | 8.3 | 23 | 108 | 21 | 12 | 29 | 12 |
| 22 | 15 | 13 | 10 | 9.3 | 7.5 | 8.4 | 28 | 106 | 20 | 15 | 21 | 12 |
| 23 | 14 | 12 | 11 | 8.9 | 7.8 | 8.6 | 29 | 98 | 20 | 14 | 17 | 14 |
| 24 | 13 | 12 | 11 | 8.9 | 8.1 | 9.3 | 30 | 109 | 19 | 16 | 31 | 21 |
| 25 | 13 | 12 | 11 | 8.7 | 9.4 | 11 | 26 | 123 | 20 | 22 | 24 | 18 |
| 26 | 13 | 12 | 10 | 8.9 | 9.9 | 11 | 28 | 139 | 22 | 19 | 17 | 19 |
| 27 | 13 | 12 | 10 | 8.9 | 9.6 | 13 | 30 | 136 | 18 | 17 | 16 | 18 |
| 28 | 13 | 12 | 11 | 8.9 | 9.3 | 14 | 23 | 130 | 17 | 16 | 15 | 18 |
| 29 | 13 | 12 | 10 | 8.8 | --- | 15 | 33 | 111 | 16 | 15 | 17 | 18 |
| 30 | 13 | 12 | 11 | 8.6 | --- | 16 | 45 | 98 | 16 | 15 | 16 | 19 |
| 31 | 12 | --- | 10 | 8.6 | --- | 20 | --- | 90 | --- | 15 | 15 | --- |
| TOTAL | 424 | 337.9 | 352 | 291.4 | 235.2 | 320.7 | 644 | 2253 | 1037 | 446 | 520 | 436 |
| MEAN | 13.7 | 11.3 | 11.4 | 9.40 | 8.40 | 10.3 | 21.5 | 72.7 | 34.6 | 14.4 | 16.8 | 14.5 |
| MAX | 21 | 13 | 13 | 11 | 9.9 | 20 | 45 | 139 | 81 | 22 | 31 | 21 |
| MIN | 11 | 9.4 | 10 | 7.2 | 7.5 | 7.6 | 12 | 25 | 16 | 11 | 13 | 12 |
| ACFT | 841 | 670 | 698 | 578 | 467 | 636 | 1280 | 4470 | 2060 | 885 | 1030 | 865 |
| CAL YR 1985 | TOTAL | 6976.3 | MEAN | 19.1 | MAX | 86 | MIN | 9.1 | ACFT | 13840 | | |
| WTR YR 1986 | TOTAL | 7297.2 | MEAN | 20.0 | MAX | 139 | MIN | 7.2 | ACFT | 14470 | | |

e Estimated.

DIRTY DEVIL RIVER BASIN

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 mi².

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 poor. Diversions for irrigation of about 10,600 acres above station. Flow regulated by Fish Lake and Johnson, Forsythe, and Mill Meadow Reservoirs.

AVERAGE DISCHARGE.--31 years (1909-12, 1937-43, 1946-58, 1976-86), 89.4 ft³/s, 64,770 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,200 ft³/s Apr. 5, 1942, gage height, 5.8 ft, site and datum in use (from floodmarks), from rating curve extended above 700 ft³/s; minimum observed, 18 ft³/s June 2, 4, 13-15, 17, 18, 1912.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 275 ft³/s Aug. 25, gage height, 2.01 ft; minimum daily, 34 ft³/s July 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|------|------|-------|------|------|
| 1 | 67 | 78 | 120 | e129 | e105 | e125 | e126 | 134 | 107 | 62 | e35 | 101 |
| 2 | 72 | 72 | 133 | e130 | e109 | e123 | e129 | 109 | 102 | 75 | e37 | 102 |
| 3 | 72 | 69 | 126 | e132 | e118 | e120 | e130 | 95 | 109 | 100 | e38 | 97 |
| 4 | 72 | 82 | 120 | e125 | e111 | e114 | e122 | 91 | 117 | 113 | e43 | 92 |
| 5 | 78 | 93 | 120 | e112 | e99 | e111 | e124 | 99 | 103 | 51 | e50 | 87 |
| 6 | 86 | 89 | 128 | e98 | e87 | e110 | e123 | 108 | 87 | 48 | e44 | 77 |
| 7 | 93 | 89 | 116 | e89 | e86 | e109 | e119 | 109 | 85 | 48 | e39 | 72 |
| 8 | 95 | 91 | 122 | e92 | e88 | e108 | e118 | 109 | 76 | 52 | e43 | 68 |
| 9 | 114 | 89 | e88 | e93 | e84 | e109 | e118 | 103 | 73 | 51 | e45 | 68 |
| 10 | 118 | 91 | 90 | e100 | e82 | e108 | e122 | 99 | 74 | 47 | e46 | 100 |
| 11 | 116 | 91 | e92 | e117 | e86 | e107 | e128 | 92 | 70 | 44 | e47 | 97 |
| 12 | 99 | 101 | e98 | e121 | e121 | 103 | e131 | 91 | 61 | 42 | e52 | 97 |
| 13 | 103 | 91 | e98 | e110 | e128 | e104 | e150 | 91 | 65 | 42 | e51 | 91 |
| 14 | 84 | 95 | e103 | e107 | e124 | e105 | e162 | 101 | 65 | 43 | e55 | 88 |
| 15 | 76 | 89 | e112 | e109 | e124 | e106 | e160 | 137 | 57 | 56 | e58 | 81 |
| 16 | 76 | 84 | e120 | e110 | e123 | e105 | e170 | 162 | 56 | 56 | e60 | 64 |
| 17 | 78 | 84 | e127 | e112 | e122 | e103 | e185 | 126 | 59 | 49 | e65 | 48 |
| 18 | 71 | 91 | e131 | e112 | e121 | e101 | e184 | 109 | 61 | 52 | e70 | 48 |
| 19 | 67 | 88 | e134 | e110 | e118 | e100 | e198 | 95 | 62 | 54 | 76 | 48 |
| 20 | 67 | 86 | e133 | e112 | e116 | e100 | e200 | 89 | 60 | 60 | 78 | 50 |
| 21 | 71 | 94 | e131 | e113 | e112 | e102 | e198 | 80 | 56 | 68 | 94 | 51 |
| 22 | 72 | 89 | e128 | 116 | e110 | e110 | e200 | 76 | 56 | 80 | 92 | 52 |
| 23 | 72 | 96 | e130 | 117 | e110 | e118 | e201 | 85 | 59 | 72 | 113 | 55 |
| 24 | 71 | 104 | e132 | 114 | e111 | e120 | 212 | 89 | 58 | 69 | 200 | 61 |
| 25 | 72 | 109 | e132 | 110 | e112 | e119 | 222 | 85 | 64 | e63 | 206 | 57 |
| 26 | 71 | 111 | e133 | 103 | e113 | e118 | 239 | 86 | 69 | e54 | 150 | 61 |
| 27 | 69 | 114 | e134 | e96 | e120 | e120 | 235 | 87 | 71 | e48 | 138 | 63 |
| 28 | 74 | e121 | e133 | e94 | e125 | e120 | 217 | 97 | 73 | e45 | 116 | 76 |
| 29 | 72 | e127 | e134 | e97 | --- | e121 | 174 | 117 | 69 | e43 | 106 | 84 |
| 30 | 80 | 131 | e134 | e101 | --- | e121 | 149 | 113 | 61 | e38 | 100 | 82 |
| 31 | 80 | --- | e131 | e102 | --- | e124 | --- | 106 | --- | e34 | 98 | --- |
| TOTAL | 2508 | 2839 | 3763 | 3383 | 3065 | 3464 | 4946 | 3170 | 2185 | 1759 | 2445 | 2218 |
| MEAN | 80.9 | 94.6 | 121 | 109 | 109 | 112 | 165 | 102 | 72.8 | 56.7 | 78.9 | 73.9 |
| MAX | 118 | 131 | 134 | 132 | 128 | 125 | 239 | 162 | 117 | 113 | 206 | 102 |
| MIN | 67 | 69 | 88 | 89 | 82 | 100 | 118 | 76 | 56 | 34 | 35 | 48 |
| ACFT | 4970 | 5630 | 7460 | 6710 | 6080 | 6870 | 9810 | 6290 | 4330 | 3490 | 4850 | 4400 |
| CAL YR 1985 | TOTAL | 46808 | MEAN | 128 | MAX | 761 | MIN | 43 | ACFT | 92840 | | |
| WTR YR 1986 | TOTAL | 35745 | MEAN | 97.9 | MAX | 239 | MIN | 34 | ACFT | 70900 | | |

e Estimated.

DIRTY DEVIL RIVER BASIN

153

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 mi².

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 good except for estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--19 years, 76.0 ft³/s, 55,060 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,800 ft³/s July 24, 1984, gage height, 10.20 ft, from rating curve extended above 4,000 ft³/s on basis of slope-conveyance study; minimum discharge, 10 ft³/s June 9, 1981, July 31, Aug. 1, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| July 16 | 2000 | 718 | 3.27 | Aug. 21 | 1700 | *3,330 | 6.20 |
| Aug. 12 | 1800 | 3,280 | 6.20 | Aug. 29 | 2200 | unknown | unknown |

Minimum discharge, 10 ft³/s July 31, Aug. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|------|------|-------|------|------|
| 1 | 73 | 92 | 146 | 130 | e106 | 133 | 126 | 112 | 61 | 33 | 12 | 90 |
| 2 | 73 | 92 | 146 | 140 | e111 | 128 | 137 | 100 | 51 | 32 | 18 | 95 |
| 3 | 69 | 88 | 152 | 143 | e119 | 121 | 137 | 90 | 45 | 36 | 20 | 89 |
| 4 | 69 | 86 | 143 | 138 | e116 | 117 | 120 | 80 | 57 | 63 | 19 | 81 |
| 5 | 71 | 97 | 138 | 132 | e105 | 111 | 124 | 76 | 50 | 51 | 34 | 84 |
| 6 | 73 | 92 | 143 | e100 | e93 | 109 | 124 | 76 | 45 | 43 | 30 | 84 |
| 7 | 75 | 92 | 140 | e89 | e85 | 109 | 118 | 73 | 41 | 33 | 20 | 81 |
| 8 | 84 | 95 | 140 | e95 | 89 | 109 | 111 | 76 | 41 | 33 | 18 | 79 |
| 9 | 102 | 92 | 97 | e93 | 86 | 110 | 118 | 76 | 43 | 33 | 23 | 83 |
| 10 | 119 | 92 | 130 | e104 | 80 | 112 | 124 | 76 | 44 | 33 | 24 | 84 |
| 11 | 130 | 95 | e90 | e122 | 129 | 112 | 127 | 68 | 43 | 30 | 27 | 92 |
| 12 | 104 | 104 | 112 | e130 | 131 | 110 | 129 | 66 | 36 | 27 | e700 | 93 |
| 13 | 102 | 104 | 97 | e111 | 151 | 111 | 163 | 65 | 36 | 25 | e210 | 98 |
| 14 | 95 | 99 | 124 | e102 | 132 | 112 | 167 | 59 | 33 | 25 | e84 | 99 |
| 15 | 78 | 97 | 132 | e102 | 134 | 107 | 160 | 58 | 33 | 41 | e46 | 99 |
| 16 | 79 | 104 | 132 | e103 | 133 | 104 | 174 | 89 | 31 | 98 | e42 | 90 |
| 17 | 75 | 109 | 130 | e105 | 127 | 102 | 186 | 81 | 29 | 34 | e40 | 69 |
| 18 | 75 | 102 | 140 | 111 | 126 | 101 | 182 | 69 | 31 | 25 | e39 | 60 |
| 19 | 71 | e94 | 146 | 109 | 126 | 101 | 180 | 62 | 30 | 21 | e38 | 63 |
| 20 | 71 | e88 | 140 | 111 | 120 | 101 | 177 | 54 | 32 | 26 | 64 | 67 |
| 21 | 75 | 102 | 135 | 105 | 115 | 104 | 169 | 59 | 33 | 32 | e750 | 68 |
| 22 | 79 | 90 | 135 | 105 | 109 | 124 | 167 | 53 | 33 | 75 | e200 | 63 |
| 23 | 81 | 114 | 138 | 106 | 110 | 126 | 166 | 52 | 33 | 39 | e48 | 64 |
| 24 | 84 | 114 | 140 | 102 | 110 | 125 | 163 | 55 | 33 | 48 | e44 | 71 |
| 25 | 84 | 119 | 140 | e95 | 112 | 126 | 159 | 55 | 34 | 37 | e43 | 68 |
| 26 | 84 | 119 | 138 | e105 | 124 | 120 | 155 | 53 | 36 | 39 | e49 | 68 |
| 27 | 81 | 119 | 138 | e98 | 127 | 118 | 156 | 56 | 38 | 32 | e80 | 73 |
| 28 | 81 | 138 | 138 | e90 | 130 | 120 | 156 | 54 | 38 | 26 | e88 | 73 |
| 29 | 88 | 149 | 140 | e97 | --- | 119 | 141 | 57 | 40 | 20 | e130 | 74 |
| 30 | 88 | 149 | 146 | e104 | --- | 121 | 127 | 58 | 37 | 13 | e185 | 72 |
| 31 | 92 | --- | 146 | e99 | --- | 127 | --- | 58 | --- | 12 | 82 | --- |
| TOTAL | 2605 | 3127 | 4152 | 3376 | 3236 | 3550 | 4443 | 2116 | 1167 | 1115 | 3207 | 2374 |
| MEAN | 84.0 | 104 | 134 | 109 | 116 | 115 | 148 | 68.3 | 38.9 | 36.0 | 103 | 79.1 |
| MAX | 130 | 149 | 152 | 143 | 151 | 133 | 186 | 112 | 61 | 98 | 750 | 99 |
| MIN | 69 | 86 | 90 | 89 | 80 | 101 | 111 | 52 | 29 | 12 | 12 | 60 |
| ACFT | 5170 | 6200 | 8240 | 6700 | 6420 | 7040 | 8810 | 4200 | 2310 | 2210 | 6360 | 4710 |
| CAL YR 1985 | TOTAL | 46585 | MEAN | 128 | MAX | 1200 | MIN | 33 | ACFT | 92400 | | |
| WTR YR 1986 | TOTAL | 34468 | MEAN | 94.4 | MAX | 750 | MIN | 12 | ACFT | 68370 | | |

e Estimated.

DIRTY DEVIL RIVER BASIN

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 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR UT-85-1: 1984(M).

GAGE.--Water-stage recorder. Altitude of gage is 7,600 ft from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 200 ft³/s, Aug. 5, 1983, gage height, 3.70 ft; minimum daily, 0.03 ft³/s March 28, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27 ft³/s May 26, gage height, 1.56 ft; minimum daily discharge, 0.13 ft³/s Feb. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|------|------|------|-------|-------|-------|-------|-------|-------|
| 1 | .77 | .81 | e.53 | e.33 | e.26 | e.23 | e.52 | e1.5 | 7.8 | 2.2 | .91 | .70 |
| 2 | .75 | .77 | e.55 | e.32 | e.25 | e.24 | e.54 | e1.8 | 8.0 | 2.2 | .91 | .64 |
| 3 | .70 | .77 | e.55 | e.33 | e.21 | e.25 | e.70 | e2.0 | 7.7 | 2.1 | .89 | .64 |
| 4 | .70 | .77 | e.55 | e.32 | e.22 | e.25 | e.58 | e2.5 | 8.0 | 1.9 | .84 | .64 |
| 5 | .70 | .77 | e.53 | e.30 | e.21 | e.24 | e.60 | e2.5 | 8.2 | 1.9 | .82 | .65 |
| 6 | .65 | .80 | e.48 | e.27 | e.17 | e.21 | e.71 | e2.3 | 8.2 | 1.9 | .78 | .67 |
| 7 | e.90 | .74 | e.50 | e.23 | e.13 | e.20 | e.80 | e2.0 | 7.5 | 1.9 | .77 | .64 |
| 8 | 1.1 | .77 | e.52 | e.22 | e.14 | e.19 | e.80 | e1.9 | 7.3 | 1.8 | .77 | .65 |
| 9 | 1.2 | .77 | e.37 | e.25 | e.15 | e.19 | e.76 | e2.3 | 6.9 | 1.7 | .76 | .66 |
| 10 | 1.8 | .79 | e.36 | e.28 | e.19 | e.18 | e.86 | e2.0 | 6.1 | 1.8 | .77 | .64 |
| 11 | 1.3 | e.75 | e.32 | e.30 | e.22 | e.17 | e.80 | e2.0 | 5.5 | 1.8 | .73 | .65 |
| 12 | 1.3 | e.54 | e.33 | e.30 | e.23 | e.15 | e.80 | e1.9 | 5.4 | 1.7 | .73 | .64 |
| 13 | 1.2 | e.45 | e.34 | e.29 | e.24 | e.19 | e.90 | e1.7 | 5.1 | 1.7 | .68 | .64 |
| 14 | 1.1 | e.54 | e.35 | e.28 | e.25 | e.17 | e.90 | e2.0 | 5.1 | 1.7 | .68 | .67 |
| 15 | 1.1 | e.58 | e.34 | e.27 | e.27 | e.20 | e.90 | e2.0 | 4.9 | 1.7 | .66 | .71 |
| 16 | .99 | e.64 | e.34 | e.30 | e.28 | e.18 | e1.0 | e2.3 | 4.6 | 1.7 | .65 | .72 |
| 17 | .99 | e.62 | e.35 | e.31 | e.29 | e.18 | e.90 | e2.1 | 4.4 | 1.5 | .70 | .70 |
| 18 | .99 | e.50 | e.36 | e.34 | e.30 | e.20 | e.90 | e2.0 | 4.4 | 1.5 | .73 | .70 |
| 19 | .99 | e.35 | e.34 | e.32 | e.26 | e.16 | e.90 | e2.0 | 4.1 | 1.4 | .70 | .73 |
| 20 | .99 | e.54 | e.35 | e.35 | e.25 | e.23 | e.80 | e3.0 | 3.9 | 1.6 | .70 | .73 |
| 21 | .99 | e.55 | e.38 | e.30 | e.23 | e.28 | e.80 | e5.0 | 3.9 | 1.5 | .69 | .72 |
| 22 | 1.0 | e.52 | e.39 | e.27 | e.20 | e.30 | e.90 | e6.8 | 3.6 | 1.3 | .68 | .72 |
| 23 | .91 | e.57 | e.40 | e.25 | e.23 | e.40 | e1.1 | e9.6 | 3.5 | 1.3 | .64 | .82 |
| 24 | .86 | e.57 | e.41 | e.21 | e.24 | e.31 | e1.2 | e11 | 3.2 | 1.3 | .65 | 1.1 |
| 25 | .86 | e.60 | e.40 | e.20 | e.25 | e.30 | e1.4 | e15 | 2.9 | .98 | .71 | .96 |
| 26 | .91 | e.62 | e.39 | e.19 | e.31 | e.35 | e1.3 | e17 | 2.8 | .91 | .68 | .99 |
| 27 | .84 | e.62 | e.37 | e.20 | e.29 | e.35 | e1.1 | e12 | 2.8 | .91 | .65 | .80 |
| 28 | .84 | e.58 | e.37 | e.23 | e.25 | e.37 | e1.1 | e9.0 | 2.7 | .91 | .70 | 1.0 |
| 29 | .78 | e.58 | e.34 | e.24 | --- | e.40 | e1.2 | 8.1 | 2.6 | .90 | .62 | .87 |
| 30 | .77 | e.54 | e.38 | e.25 | --- | e.45 | e1.4 | 8.0 | 2.4 | .94 | .58 | .87 |
| 31 | .77 | --- | e.35 | e.30 | --- | e.50 | --- | 7.6 | --- | .91 | .73 | --- |
| TOTAL | 29.75 | 19.02 | 12.54 | 8.55 | 6.52 | 8.02 | 27.17 | 150.9 | 153.5 | 47.56 | 22.51 | 22.27 |
| MEAN | .96 | .63 | .40 | .28 | .23 | .26 | .91 | 4.87 | 5.12 | 1.53 | .73 | .74 |
| MAX | 1.8 | .81 | .55 | .35 | .31 | .50 | 1.4 | 17 | 8.2 | 2.2 | .91 | 1.1 |
| MIN | .65 | .35 | .32 | .19 | .13 | .15 | .52 | 1.5 | 2.4 | .90 | .58 | .64 |
| ACFT | 59 | 38 | 25 | 17 | 13 | 16 | 54 | 299 | 304 | 94 | 45 | 44 |
| CAL YR 1985 | TOTAL | 1057.76 | MEAN | 2.90 | MAX | 23 | MIN | .03 | ACFT | 2100 | | |
| WTR YR 1986 | TOTAL | 508.31 | MEAN | 1.39 | MAX | 17 | MIN | .13 | ACFT | 1010 | | |

e Estimated.

DIRTY DEVIL RIVER BASIN

155

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 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | PH (STAND- ARD UNITS) | TEMPER- ATURE, AIR (DEG C) | TEMPER- ATURE (DEG C) | OXYGEN, DIS- SOLVED (MG/L) | BARO- METRIC PRES- SURE (MM OF HG) | HARD- NESS (MG/L AS CAC03) |
|----------|------|---|---|--------------------------------|-------------------------------------|-----------------------------|-------------------------------------|--|--|
| OCT 1985 | | | | | | | | | |
| 11... | 1330 | 1.2 | 720 | 8.30 | 10.0 | 6.0 | 9.0 | 565 | 370 |
| NOV | | | | | | | | | |
| 26... | 1000 | 0.64 | 510 | 8.20 | -5.5 | 0.0 | -- | -- | 240 |
| MAR 1986 | | | | | | | | | |
| 12... | 1420 | 0.15 | 660 | 8.20 | 15.0 | 13.5 | -- | -- | 320 |
| APR | | | | | | | | | |
| 17... | 1530 | 0.94 | 530 | 8.40 | 14.5 | 12.5 | -- | -- | 270 |
| MAY | | | | | | | | | |
| 28... | 1640 | 8.5 | 260 | 8.30 | 20.5 | 9.5 | -- | -- | 130 |
| JUN | | | | | | | | | |
| 26... | 1630 | 2.8 | 340 | 8.00 | 24.0 | 16.0 | -- | -- | 170 |
| JUL | | | | | | | | | |
| 29... | 1700 | 0.9 | 420 | 8.10 | 25.5 | 17.5 | -- | -- | 200 |
| AUG | | | | | | | | | |
| 25... | 1330 | 0.72 | 410 | 8.20 | 20.5 | 13.5 | -- | -- | 210 |

| DATE | HARD- NESS NONCAR- BONATE (MG/L AS CAC03) | HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CAC03 | 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 CAC03) |
|----------|---|---|--|--|--|-------------------|---|---|---|
| OCT 1985 | | | | | | | | | |
| 11... | 365 | 220 | 100 | 28 | 10 | 6 | 0.2 | 1.0 | 147 |
| NOV | | | | | | | | | |
| 26... | 242 | 68 | 74 | 14 | 8.9 | 7 | 0.3 | 0.8 | 174 |
| MAR 1986 | | | | | | | | | |
| 12... | 315 | 220 | 95 | 19 | 32 | 18 | 0.8 | 0.8 | 96 |
| APR | | | | | | | | | |
| 17... | 273 | 130 | 83 | 16 | 17 | 12 | 0.5 | 0.8 | 148 |
| MAY | | | | | | | | | |
| 28... | 128 | 25 | 41 | 6.2 | 5.5 | 9 | 0.2 | 0.1 | 103 |
| JUN | | | | | | | | | |
| 26... | 173 | 40 | 55 | 8.6 | 6.4 | 7 | 0.2 | 0.7 | 133 |
| JUL | | | | | | | | | |
| 29... | 200 | 47 | 62 | 11 | 8.5 | 8 | 0.3 | 0.6 | 153 |
| AUG | | | | | | | | | |
| 25... | 208 | 51 | 65 | 11 | 8.1 | 8 | 0.3 | 0.7 | 157 |

| DATE | SULFATE DIS- SOLVED (MG/L AS S04) | 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 1985 | | | | | | | | | |
| 11... | 220 | 2.9 | 0.1 | 12 | 460 | 0.63 | 1.5 | <0.10 | 0.01 |
| NOV | | | | | | | | | |
| 26... | 84 | 3.5 | 0.2 | 12 | 300 | 0.41 | 0.52 | <0.00 | 0.03 |
| MAR 1986 | | | | | | | | | |
| 12... | 170 | 6.1 | 0.3 | 14 | 390 | 0.54 | 0.16 | <0.10 | <0.01 |
| APR | | | | | | | | | |
| 17... | 120 | 4.8 | 0.2 | 13 | 340 | 0.47 | 0.87 | <0.10 | 0.02 |
| MAY | | | | | | | | | |
| 28... | 31 | 1.4 | 0.2 | 10 | 160 | 0.21 | 3.6 | <0.10 | 0.02 |
| JUN | | | | | | | | | |
| 26... | 53 | 9.9 | 0.1 | 11 | 220 | 0.31 | 1.7 | <0.10 | 0.02 |
| JUL | | | | | | | | | |
| 29... | 68 | 2.4 | 0.1 | 12 | 260 | 0.35 | 0.62 | <0.10 | 0.02 |
| AUG | | | | | | | | | |
| 25... | 65 | 2.7 | 0.2 | 13 | 260 | 0.35 | 0.51 | <0.10 | 0.03 |

DIRTY DEVIL RIVER BASIN

09330410 BULL CREEK NEAR HANKSVILLE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | BORON, DIS- SOLVED (UG/L AS B) |
|----------|------|--|
| OCT 1985 | | |
| 11... | 1330 | 40 |
| NOV | | |
| 26... | 1000 | 30 |
| MAR 1986 | | |
| 12... | 1420 | 50 |
| APR | | |
| 17... | 1530 | 40 |
| MAY | | |
| 28... | 1640 | 20 |
| JUN | | |
| 26... | 1630 | 30 |
| JUL | | |
| 29... | 1700 | 30 |
| AUG | | |
| 25... | 1330 | 30 |

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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 1985 | | | | | |
| 11... | 1330 | 1.2 | 6.0 | 69 | 0.23 |
| MAR 1986 | | | | | |
| 12... | 1420 | 0.15 | 13.5 | 12 | 0.0 |
| APR | | | | | |
| 17... | 1530 | 0.94 | 12.5 | 24 | 0.06 |
| MAY | | | | | |
| 28... | 1640 | 8.5 | 9.5 | 635 | 15 |
| JUN | | | | | |
| 26... | 1630 | 2.8 | 16.0 | 2 | 0.02 |
| JUL | | | | | |
| 29... | 1700 | 0.9 | 17.5 | 323 | 0.78 |
| AUG | | | | | |
| 25... | 1330 | 0.72 | 13.5 | 35 | 0.07 |

DIRTY DEVIL RIVER BASIN

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09330500 MUDDY CREEK NEAR EMERY, UT

LOCATION.--Lat 38°58'55"N, long 111°14'55"W, 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 mi².

PERIOD OF RECORD.--April to July 1909, July 1910 to July 1914, June 1949 to current year.

REVISED RECORDS.--WSP 1633: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,400 ft from topographic map. Apr. 29 to July 31, 1909, reference point. July 23, 1910 to July 16, 1914, staff gages, at sites about 1 mi upstream at different datums. June 29, 1949 to May 1, 1957, water-stage recorder at site 100 ft upstream at datum 2.89 ft higher prior to Mar. 20, 1953, and at datum 1.89 ft higher thereafter.

REMARKS.--Records good except for estimated daily discharges, which are poor. One small diversion for irrigation and two storage reservoirs (total capacity 700 acre-ft) above station.

AVERAGE DISCHARGE.--40 years (1910-13, 1949-86), 40.9 ft³/s, 29,630 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,340 ft³/s May 10, 1952, gage height, 11.14 ft, present datum from rating curve extended above 400 ft³/s on basis of slope-area measurement of peak flow; no flow Apr. 13-16, 1911.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|----------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Sept. 23 | 2300 | *219 | *3.22 | | | | |

Minimum daily, 5.4 ft³/s Dec. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|-------|------|------|------|------|-------|------|------|
| 1 | 26 | 17 | e9.0 | e7.0 | e12 | 22 | 36 | 106 | e166 | 117 | 48 | 33 |
| 2 | 25 | 18 | e11 | e6.0 | e10 | 24 | 39 | 115 | e167 | 113 | 49 | 32 |
| 3 | 24 | 18 | e9.0 | e7.0 | e9.0 | 22 | 47 | 119 | 174 | 109 | 48 | 32 |
| 4 | 24 | 18 | e9.5 | e7.0 | e8.6 | 21 | 45 | 94 | 182 | 106 | 47 | 31 |
| 5 | 24 | 18 | e9.0 | e7.4 | e8.4 | 22 | 40 | 88 | 187 | 101 | 46 | 30 |
| 6 | 24 | 15 | e8.2 | e6.4 | e8.0 | 24 | 39 | 81 | 183 | 99 | 45 | 31 |
| 7 | 26 | 17 | e8.0 | e8.2 | e8.0 | 25 | 46 | 79 | 180 | 97 | 44 | 40 |
| 8 | 26 | 17 | e8.4 | e7.0 | e7.4 | 24 | 50 | 74 | 175 | 95 | 46 | 40 |
| 9 | 26 | 17 | e6.8 | e8.0 | e7.2 | 26 | 52 | 80 | 174 | 91 | 43 | 40 |
| 10 | 27 | 17 | e6.6 | e8.0 | e7.0 | 23 | 40 | 84 | 171 | 87 | 41 | 40 |
| 11 | 25 | 19 | e6.0 | e9.0 | e7.6 | 20 | 43 | 87 | 166 | 84 | 40 | 39 |
| 12 | 24 | 18 | e5.4 | e11 | e8.6 | 19 | 46 | 87 | 166 | 81 | 40 | 39 |
| 13 | 24 | e9.5 | e6.2 | e13 | e9.2 | 15 | 43 | 90 | 166 | 82 | 40 | 38 |
| 14 | 22 | e8.2 | e6.0 | e12 | e8.0 | 15 | e42 | 90 | 169 | 80 | 38 | 38 |
| 15 | 23 | e8.6 | e5.8 | e12 | e16 | 16 | e49 | 82 | 174 | 87 | 38 | 38 |
| 16 | 23 | e9.2 | e6.4 | e11 | e15 | 14 | e41 | 84 | 175 | 81 | 36 | 38 |
| 17 | 23 | e8.2 | e8.4 | e10 | e14 | 16 | e38 | 93 | 172 | 77 | 35 | 37 |
| 18 | 22 | e7.8 | e9.4 | e8.4 | e16 | 19 | 43 | 106 | 170 | 73 | 34 | 37 |
| 19 | 22 | e7.0 | e11 | e10 | 17 | 21 | 42 | 117 | 167 | 70 | 35 | 37 |
| 20 | 20 | e7.2 | e12 | e8.4 | 16 | 28 | 50 | 125 | 166 | 69 | 36 | 36 |
| 21 | 21 | e7.4 | e11 | e7.6 | e13 | 31 | 67 | 115 | 160 | 67 | 42 | 36 |
| 22 | 20 | e7.8 | e10 | e7.0 | e14 | 28 | 72 | 120 | 155 | 70 | 36 | 36 |
| 23 | 21 | e8.4 | e8.4 | e6.6 | 16 | 30 | 73 | 129 | 149 | 67 | 35 | 47 |
| 24 | 20 | e10 | e8.6 | e6.4 | 16 | 42 | 66 | 140 | 145 | 63 | 39 | 47 |
| 25 | 20 | e8.4 | e7.2 | e6.2 | 18 | 45 | 58 | 149 | 145 | 61 | 36 | 39 |
| 26 | 20 | e9.6 | e7.0 | e6.2 | 24 | 43 | 57 | 152 | 142 | 61 | 34 | 38 |
| 27 | 25 | e10 | e7.4 | e6.6 | 26 | 49 | 61 | 153 | 134 | 58 | 33 | 37 |
| 28 | 24 | e9.0 | e6.4 | e8.6 | 22 | 60 | 75 | 157 | 131 | 54 | 33 | 37 |
| 29 | 24 | e11 | e7.0 | e11 | --- | 56 | 88 | 160 | 127 | 51 | 33 | 36 |
| 30 | 23 | e11 | e7.0 | e15 | --- | 48 | 96 | 164 | 122 | 50 | 35 | 35 |
| 31 | 20 | --- | e7.4 | e13 | --- | 39 | --- | e165 | --- | 49 | 38 | --- |
| TOTAL | 718 | 367.3 | 249.5 | 271.0 | 362.0 | 887 | 1584 | 3485 | 4860 | 2450 | 1223 | 1114 |
| MEAN | 23.2 | 12.2 | 8.05 | 8.74 | 12.9 | 28.6 | 52.8 | 112 | 162 | 79.0 | 39.5 | 37.1 |
| MAX | 27 | 19 | 12 | 15 | 26 | 60 | 96 | 165 | 187 | 117 | 49 | 47 |
| MIN | 20 | 7.0 | 5.4 | 6.0 | 7.0 | 14 | 36 | 74 | 122 | 49 | 33 | 30 |
| ACFT | 1420 | 729 | 495 | 538 | 718 | 1760 | 3140 | 6910 | 9640 | 4860 | 2430 | 2210 |
| CAL YR 1985 | TOTAL | 21393.3 | MEAN | 58.6 | MAX | 224 | MIN | 5.4 | ACFT | 42430 | | |
| WTR YR 1986 | TOTAL | 17570.8 | MEAN | 48.1 | MAX | 187 | MIN | 5.4 | ACFT | 34850 | | |

e Estimated.

DIRTY DEVIL RIVER BASIN

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 0.25 mi downstream from bridge on Interstate Highway I-70, 0.50 mi downstream from Ivie Creek, and 12.2 mi southeast of Emery.

DRAINAGE AREA.--418 mi².

PERIOD OF RECORD.--October 1973 to September 1986 (discontinued).

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 except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--24 years, 24.3 ft³/s, 17,600 acre-ft/yr, includes record for station 09332500, 1950-61, 11 years, 15.4 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,400 ft³/s Sept. 5, 1981, gage height, 11.25 ft from floodmark, from slope-area measurement of peak flow, datum then in use; no flow several days in 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 290 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| June 25 | 2130 | 628 | 4.99 | Aug. 24 | 1800 | 701 | 5.35 |
| July 16 | 1600 | *3,140 | *8.72 | Aug. 30 | 1700 | 895 | 5.78 |
| Aug. 21 | 1400 | 430 | 4.61 | | | | |

Minimum discharge, 1.8 ft³/s Aug. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-------|
| 1 | 14 | 21 | e16 | e18 | e29 | 34 | 55 | 51 | 117 | 25 | 5.1 | 13 |
| 2 | 14 | 22 | e15 | e16 | e27 | 34 | 53 | 67 | 121 | 25 | e4.5 | 6.2 |
| 3 | 10 | 22 | e18 | e19 | e25 | 33 | 33 | 79 | 126 | 20 | e5.7 | 5.7 |
| 4 | 11 | 22 | e22 | e17 | e22 | 33 | 33 | 104 | 140 | 19 | e3.8 | 4.7 |
| 5 | 11 | 21 | e21 | e16 | e20 | 35 | 32 | 58 | 147 | 18 | e3.7 | 4.7 |
| 6 | 12 | 20 | e25 | e16 | e19 | 33 | 36 | 42 | 142 | 21 | e3.6 | 2.9 |
| 7 | 12 | 19 | e22 | e17 | e18 | 37 | 44 | 35 | 135 | 22 | e4.0 | 4.3 |
| 8 | 12 | 22 | e18 | e19 | e16 | 34 | 39 | 31 | 130 | 27 | e3.8 | 5.4 |
| 9 | 21 | 27 | e16 | e22 | e14 | 38 | 34 | 28 | 121 | 25 | e3.7 | 6.8 |
| 10 | 27 | 24 | e14 | e23 | e10 | 33 | 31 | 32 | 109 | 22 | e3.7 | 5.0 |
| 11 | 21 | 26 | e14 | e25 | e12 | 35 | 35 | 34 | 102 | 20 | e4.3 | 6.2 |
| 12 | 20 | 29 | e16 | e27 | e26 | 31 | 36 | 44 | 91 | 17 | e3.8 | 7.0 |
| 13 | 21 | 22 | e18 | e23 | e38 | 32 | 40 | 42 | 88 | 13 | e3.7 | 6.2 |
| 14 | 17 | 20 | e19 | e22 | e36 | 31 | 30 | 42 | 86 | 14 | 2.8 | 6.2 |
| 15 | 20 | 19 | e21 | e22 | e37 | 27 | 33 | 52 | 77 | 44 | 3.7 | 6.8 |
| 16 | 20 | 22 | e23 | e21 | e48 | 32 | 31 | 57 | 75 | 206 | 2.3 | 4.5 |
| 17 | 21 | 25 | e27 | e22 | 74 | 29 | 28 | 47 | 69 | 23 | 2.0 | 3.9 |
| 18 | 21 | 24 | e29 | e25 | 60 | 27 | 25 | 39 | 67 | 13 | 2.8 | 4.1 |
| 19 | 22 | 16 | e23 | e27 | 47 | 23 | 27 | 46 | 68 | 8.6 | 2.4 | 5.4 |
| 20 | 21 | e14 | e20 | e23 | e39 | 25 | 20 | 54 | 67 | 8.3 | 6.2 | 4.3 |
| 21 | 22 | e14 | e19 | e22 | e37 | 28 | 23 | 66 | 61 | 10 | 54 | 3.1 |
| 22 | 22 | e15 | e18 | e20 | e33 | 33 | 40 | 70 | 54 | 14 | 8.6 | 4.2 |
| 23 | 22 | e17 | e18 | e19 | 36 | 38 | 38 | 58 | 54 | 22 | 5.2 | 6.5 |
| 24 | 19 | e19 | e22 | e20 | 34 | 41 | 46 | 61 | 51 | 13 | 32 | 26 |
| 25 | 17 | e28 | e19 | e20 | 34 | 38 | 49 | 68 | 89 | 16 | 10 | 13 |
| 26 | 17 | e25 | e18 | e22 | 37 | 40 | 46 | 82 | 65 | 13 | 5.0 | 10 |
| 27 | 19 | e23 | e20 | e21 | 37 | 43 | 40 | 98 | 50 | 9.6 | 4.5 | 8.8 |
| 28 | 22 | e20 | e18 | e22 | 34 | 55 | 29 | 105 | 44 | 7.6 | 2.9 | 11 |
| 29 | 21 | e18 | e20 | e25 | --- | 55 | 27 | 101 | 43 | 7.4 | 4.7 | 12 |
| 30 | 22 | e17 | e20 | e28 | --- | 51 | 34 | 101 | 37 | 6.5 | 31 | 13 |
| 31 | 23 | --- | e22 | e29 | --- | 63 | --- | 113 | --- | e5.5 | 14 | --- |
| TOTAL | 574 | 633 | 611 | 668 | 899 | 1121 | 1067 | 1907 | 2626 | 715.5 | 247.5 | 220.9 |
| MEAN | 18.5 | 21.1 | 19.7 | 21.5 | 32.1 | 36.2 | 35.6 | 61.5 | 87.5 | 23.1 | 7.98 | 7.36 |
| MAX | 27 | 29 | 29 | 29 | 74 | 63 | 55 | 113 | 147 | 206 | 54 | 26 |
| MIN | 10 | 14 | 14 | 16 | 10 | 23 | 20 | 28 | 37 | 5.5 | 2.0 | 2.9 |
| ACFT | 1140 | 1260 | 1210 | 1320 | 1780 | 2220 | 2120 | 3780 | 5210 | 1420 | 491 | 438 |

| | | | | | | | | | | |
|-------------|-------|----------|------|------|-----|-----|-----|-----|------|-------|
| CAL YR 1985 | TOTAL | 14649.20 | MEAN | 40.1 | MAX | 201 | MIN | .90 | ACFT | 29060 |
| WTR YR 1986 | TOTAL | 11289.9 | MEAN | 30.9 | MAX | 206 | MIN | 2.0 | ACFT | 22390 |

e Estimated.

DIRTY DEVIL RIVER BASIN

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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 mi².

PERIOD OF RECORD.--October 1975 to September 1986 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,650 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--11 years, 27.1 ft³/s, 23,620 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,840 ft³/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 most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| July 17 | 0230 | *933 | *4.70 | | | | |

Minimum daily, 0.60 ft³/s, Aug. 10, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|----------|------|------|-------|------|------|------|------|-------|--------|-------|
| 1 | 8.9 | 18 | e13 | e14 | e31 | e30 | 48 | e26 | 114 | 29 | 3.4 | e15 |
| 2 | 8.9 | 18 | e12 | e13 | e25 | e30 | 45 | e40 | 118 | 19 | 3.1 | e12 |
| 3 | 8.7 | 18 | e15 | e17 | e20 | e29 | 40 | e54 | 120 | 18 | 1.9 | e5.0 |
| 4 | 8.1 | 19 | e18 | e14 | e18 | e29 | 26 | e70 | 131 | 14 | 1.6 | e4.2 |
| 5 | 7.7 | 19 | e17 | e14 | e17 | e28 | 26 | e90 | 136 | e10 | 2.0 | e3.7 |
| 6 | 7.6 | 18 | e21 | e13 | e15 | e30 | 25 | e48 | 139 | e10 | e.90 | e3.3 |
| 7 | 7.6 | 16 | e18 | e14 | e15 | e27 | 26 | e33 | 130 | e11 | e.80 | e2.7 |
| 8 | 8.6 | 16 | e15 | e16 | e14 | e30 | 34 | e26 | 127 | e11 | e.80 | e3.5 |
| 9 | 12 | 21 | e13 | e18 | e12 | e26 | 31 | e24 | 123 | 19 | e.70 | e4.5 |
| 10 | 29 | 31 | e12 | e19 | e7.7 | e30 | 27 | e22 | 114 | 16 | e.60 | e5.6 |
| 11 | 70 | 20 | e12 | e22 | e8.5 | e28 | 24 | e27 | 109 | e11 | e.80 | e4.5 |
| 12 | 30 | 22 | e13 | e23 | e11 | e30 | 26 | e30 | e90 | e10 | e.90 | e5.0 |
| 13 | 55 | 32 | e15 | e29 | e23 | 24 | 28 | e37 | e86 | e9.5 | e.90 | e6.4 |
| 14 | 28 | 20 | e16 | e24 | e35 | 24 | 31 | e35 | e80 | e9.0 | e.70 | e5.4 |
| 15 | 16 | 16 | e18 | e18 | e34 | 22 | 24 | e35 | e76 | e10 | e.60 | e5.2 |
| 16 | 16 | 16 | e20 | e17 | e34 | 20 | 26 | e45 | e72 | e35 | e.90 | e5.8 |
| 17 | 17 | 19 | e23 | e19 | e45 | 24 | 23 | e50 | e66 | e200 | e.90 | e4.0 |
| 18 | 17 | 22 | e32 | e22 | e65 | 21 | 21 | e43 | e65 | 33 | e.80 | e3.5 |
| 19 | 16 | 12 | e20 | e26 | e52 | 20 | 19 | e33 | e64 | 20 | e.80 | e3.7 |
| 20 | 17 | 9.3 | e16 | e21 | e40 | 17 | 21 | e40 | e66 | e11 | e.90 | e5.6 |
| 21 | 18 | e9.2 | e15 | e18 | e36 | 17 | 16 | e46 | e60 | e9.0 | e.90 | e3.9 |
| 22 | 17 | e11 | e15 | e17 | e33 | 19 | 16 | e56 | e52 | e11 | e50 | e2.9 |
| 23 | 18 | e16 | e14 | e16 | e31 | 25 | 32 | e66 | e50 | e15 | e10 | e3.5 |
| 24 | 18 | e27 | e17 | e17 | e34 | 29 | 31 | e52 | e48 | e30 | e5.0 | e5.0 |
| 25 | 17 | e28 | e16 | e17 | e31 | 32 | 37 | e58 | e46 | e12 | e28 | e20 |
| 26 | 14 | e26 | e15 | e18 | e31 | 29 | 41 | e62 | e84 | e16 | e17 | e11 |
| 27 | 14 | e21 | e16 | e17 | e34 | 30 | 37 | e73 | e55 | e12 | 7.1 | e9.6 |
| 28 | 14 | e18 | e14 | e19 | e34 | 36 | 33 | e86 | 39 | e8.4 | 4.2 | e8.0 |
| 29 | 18 | e16 | e15 | e21 | --- | 43 | 23 | e98 | 36 | e7.2 | 3.2 | e9.5 |
| 30 | 17 | e14 | e16 | e24 | --- | 41 | 20 | 101 | 35 | e5.5 | 2.1 | e10 |
| 31 | 18 | --- | e17 | e25 | --- | 42 | --- | 103 | --- | 5.0 | e35 | --- |
| TOTAL | 572.1 | 568.5 | 509 | 582 | 786.2 | 862 | 857 | 1609 | 2531 | 636.6 | 186.50 | 192.0 |
| MEAN | 18.5 | 18.9 | 16.4 | 18.8 | 28.1 | 27.8 | 28.6 | 51.9 | 84.4 | 20.5 | 6.02 | 6.40 |
| MAX | 70 | 32 | 32 | 29 | 65 | 43 | 48 | 103 | 139 | 200 | 50 | 20 |
| MIN | 7.6 | 9.2 | 12 | 13 | 7.7 | 17 | 16 | 22 | 35 | 5.0 | .60 | 2.7 |
| ACFT | 1130 | 1130 | 1010 | 1150 | 1560 | 1710 | 1700 | 3190 | 5020 | 1260 | 370 | 381 |
| CAL YR 1985 | TOTAL | 11813.00 | MEAN | 32.4 | MAX | 136 | MIN | .00 | ACFT | 23430 | | |
| WTR YR 1986 | TOTAL | 9891.90 | MEAN | 27.1 | MAX | 200 | MIN | .60 | ACFT | 19620 | | |

e Estimated.

DIRTY DEVIL RIVER BASIN

09333500 DIRTY DEVIL RIVER ABOVE POISON SPRING WASH, NEAR HANKSVILLE, UT

LOCATION (REVISED).--Lat 38°05'39", long 110°24'24", in SE1/4SW1/4SE1/4 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 south-east of Hanksville.

DRAINAGE AREA.--4,159 mi².

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.--38 years, 104 ft³/s, 75,350 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 35,000 ft³/s Nov. 4, 1957, gage height, 28.1 ft from floodmarks, site and datum then in use, from rating curve extended above 9,000 ft³/s on basis of slope-area measurement at gage height 20.65 ft; no flow at times many years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,700 ft³/s, and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---|---------|--------------------------------|------------------|--|------|--------------------------------|------------------|
| Aug. 22 | unknown | *2,370 | *8.47 | No other peak greater than base discharge. | | | |
| Minimum daily discharge, 15 ft ³ /s July 14. | | | | | | | |

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|----------|------|------|------|------|------|------|------|--------|------|------|
| 1 | e105 | e130 | e130 | e130 | 185 | e150 | 132 | 129 | 138 | 57 | e21 | e90 |
| 2 | e100 | e140 | e140 | e120 | 189 | e160 | e220 | 126 | 144 | 45 | e20 | e80 |
| 3 | e95 | e140 | e120 | e130 | 187 | e170 | e170 | 123 | 138 | 36 | e21 | e115 |
| 4 | e90 | e140 | e110 | e120 | 178 | e180 | e160 | 126 | 141 | 23 | e19 | 112 |
| 5 | e90 | e150 | e120 | e110 | 182 | e180 | e150 | 117 | 144 | e20 | e19 | 74 |
| 6 | e85 | e140 | e120 | e100 | e179 | e170 | e150 | 144 | e130 | e25 | e18 | 68 |
| 7 | e88 | e130 | e110 | e85 | e170 | e190 | e140 | 141 | e125 | e48 | e25 | 64 |
| 8 | e250 | e140 | e110 | e90 | e130 | e170 | e150 | 151 | e125 | e36 | 41 | 58 |
| 9 | e450 | e150 | e100 | e100 | e110 | e140 | e170 | e200 | e125 | e23 | 28 | e90 |
| 10 | e600 | e150 | e100 | e110 | e100 | e130 | e160 | e170 | e125 | e20 | e24 | e140 |
| 11 | e400 | e140 | e100 | e120 | e80 | e110 | e150 | e140 | e100 | e19 | e20 | 102 |
| 12 | e170 | e200 | e90 | e130 | e75 | e120 | e140 | e130 | 58 | e18 | e16 | 53 |
| 13 | e125 | e170 | e100 | e120 | e100 | e120 | e160 | e120 | 49 | e17 | e70 | 51 |
| 14 | e180 | e160 | e110 | e140 | e95 | 112 | e150 | e120 | 41 | e15 | 456 | 68 |
| 15 | e140 | 135 | e130 | e160 | e110 | 110 | e160 | e120 | 36 | e16 | 212 | 65 |
| 16 | e120 | 144 | e140 | e170 | e120 | 110 | e150 | e140 | 39 | e16 | 96 | 67 |
| 17 | e110 | 158 | e150 | 181 | e140 | 104 | e170 | e120 | 32 | e50 | 68 | 72 |
| 18 | e105 | 168 | e160 | 183 | e160 | 103 | e190 | e120 | 29 | e240 | 26 | 69 |
| 19 | e110 | 148 | e150 | 175 | e150 | 98 | e180 | e130 | 26 | e70 | e24 | 52 |
| 20 | e120 | 114 | e150 | 186 | e130 | 94 | e190 | e120 | 17 | e350 | e23 | 49 |
| 21 | e120 | 108 | e140 | 185 | e110 | 93 | e200 | e110 | 18 | e60 | e75 | 39 |
| 22 | e110 | 138 | e150 | 189 | e100 | 87 | e190 | e120 | 20 | e35 | e750 | 36 |
| 23 | e120 | 144 | e140 | 184 | e120 | 92 | e180 | e115 | 21 | e33 | e320 | 46 |
| 24 | e120 | 164 | e150 | 181 | e150 | 115 | e180 | e115 | 24 | e30 | e150 | 83 |
| 25 | e120 | 196 | e170 | 186 | e170 | 129 | e190 | e110 | 24 | e26 | e115 | 92 |
| 26 | e120 | e185 | e160 | 175 | e190 | 127 | e180 | e115 | e50 | e24 | e200 | 98 |
| 27 | e120 | e180 | e150 | 171 | e170 | 116 | e170 | e110 | 109 | e23 | e140 | 94 |
| 28 | e125 | e190 | e130 | e176 | e160 | 133 | e170 | e112 | 120 | e24 | e110 | 93 |
| 29 | e120 | e160 | e140 | 174 | --- | 118 | 168 | 115 | 92 | e26 | e120 | 97 |
| 30 | e130 | e150 | e130 | 185 | --- | 122 | 154 | 120 | 73 | 26 | e400 | 87 |
| 31 | e120 | --- | e120 | 190 | --- | 141 | --- | 126 | --- | e23 | e150 | --- |
| TOTAL | 4858 | 4562 | 4020 | 4656 | 3940 | 3994 | 5024 | 3955 | 2313 | 1474 | 3777 | 2304 |
| MEAN | 157 | 152 | 130 | 150 | 141 | 129 | 167 | 128 | 77.1 | 47.5 | 122 | 76.8 |
| MAX | 600 | 200 | 170 | 190 | 190 | 190 | 220 | 200 | 144 | 350 | 750 | 140 |
| MIN | 85 | 108 | 90 | 85 | 75 | 87 | 132 | 110 | 17 | 15 | 16 | 36 |
| ACFT | 9640 | 9050 | 7970 | 9240 | 7810 | 7920 | 9970 | 7840 | 4590 | 2920 | 7490 | 4570 |
| CAL YR 1985 | TOTAL | 60873.30 | MEAN | 167 | MAX | 1430 | MIN | .00 | ACFT | 120700 | | |
| WTR YR 1986 | TOTAL | 44877 | MEAN | 123 | MAX | 750 | MIN | 15 | ACFT | 89010 | | |

e Estimated.

ESCALANTE RIVER BASIN

161

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 mi².

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 fair except for estimated daily discharges, which are poor. No diversion above station.

AVERAGE DISCHARGE.--34 years, 5.03 ft³/s, 3,640 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,010 ft³/s Aug. 2, 1967, gage height, 7.72 ft, from rating curve extended above 35 ft³/s on basis of slope-area measurement at gage height 7.70 ft; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|--------------------------------|------------------|--|------|--------------------------------|------------------|
| July 15 | 2330 | *162 | *3.77 | No other peak greater than base discharge. | | | |

Minimum daily discharge, 1.1 ft³/s Sept. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 4.8 | 5.1 | 5.5 | e4.9 | 3.5 | 3.7 | 6.1 | 15 | 5.6 | 6.1 | 4.3 | 2.1 |
| 2 | 4.8 | 4.9 | 5.5 | e5.2 | 3.4 | 3.9 | 6.6 | 17 | 5.4 | 6.3 | 4.2 | 1.6 |
| 3 | 4.6 | 4.9 | 5.4 | e5.0 | 3.5 | 3.8 | 4.9 | 24 | 6.6 | 6.2 | 4.2 | 1.4 |
| 4 | 4.5 | 4.9 | 5.3 | e5.1 | 2.9 | 3.7 | 4.7 | 22 | 7.1 | 7.4 | 5.6 | 1.2 |
| 5 | 4.8 | 4.9 | 5.8 | e5.0 | e3.2 | 3.6 | 4.8 | 12 | 7.0 | 5.9 | 6.7 | 1.1 |
| 6 | 4.8 | 4.9 | 5.1 | e4.9 | e3.4 | 3.7 | 4.6 | 8.7 | 4.7 | 7.1 | 7.0 | 1.1 |
| 7 | 5.2 | 4.9 | 4.9 | e4.9 | e3.0 | 3.9 | 4.9 | 7.6 | 4.6 | 7.2 | 6.7 | 1.8 |
| 8 | 6.0 | 4.7 | 4.9 | e5.1 | e3.5 | 3.9 | 4.6 | 6.5 | 5.5 | 7.6 | 8.7 | 3.2 |
| 9 | 7.5 | 4.7 | 2.1 | e5.3 | e3.3 | 4.3 | 4.4 | 5.8 | 5.1 | 7.2 | 7.5 | 3.9 |
| 10 | 12 | 4.9 | 4.0 | e5.5 | e2.9 | 4.0 | 4.4 | 5.2 | 5.0 | 6.9 | 7.3 | 3.1 |
| 11 | 7.5 | 4.9 | 4.6 | e5.5 | e3.2 | 3.8 | 4.6 | 4.7 | 4.5 | 6.8 | 7.1 | 3.3 |
| 12 | 6.3 | 5.0 | e5.0 | e5.6 | e3.9 | 3.2 | 4.7 | 5.3 | 4.4 | 6.8 | 7.6 | 3.1 |
| 13 | 6.3 | 2.9 | e4.8 | e5.8 | e4.2 | 3.5 | 5.2 | 5.9 | 4.1 | 7.0 | 8.1 | 3.1 |
| 14 | 5.9 | 3.2 | e5.1 | e5.1 | 4.4 | 3.8 | 4.2 | 7.2 | 3.8 | 6.7 | 7.6 | 3.0 |
| 15 | 5.4 | 3.5 | e5.0 | e4.3 | 4.4 | e3.1 | 4.8 | 7.3 | 6.8 | 14 | 7.0 | 2.9 |
| 16 | 5.7 | e3.1 | e4.7 | e3.9 | 4.0 | e3.4 | 4.8 | 6.1 | 7.7 | 11 | 6.8 | 2.6 |
| 17 | 5.3 | e3.2 | e4.5 | e4.4 | 3.7 | e4.3 | 4.4 | 4.7 | 7.5 | 8.4 | 6.5 | 2.6 |
| 18 | 5.4 | 3.7 | e4.3 | 3.9 | 3.6 | e3.7 | 4.1 | 4.5 | 7.5 | 7.8 | 6.4 | 2.5 |
| 19 | 5.3 | e3.5 | e4.4 | 3.5 | 4.0 | e3.2 | 4.0 | 6.3 | 7.3 | 7.6 | 6.1 | 2.5 |
| 20 | 5.2 | e4.2 | e5.3 | 3.6 | 3.5 | 3.7 | 4.1 | 7.8 | 7.2 | 8.1 | 6.6 | 2.4 |
| 21 | 5.2 | e4.0 | e5.6 | 3.8 | 3.1 | 3.7 | 4.8 | 5.9 | 7.4 | 8.6 | 6.6 | 2.3 |
| 22 | 5.2 | e4.5 | e6.2 | 4.0 | 3.2 | 3.9 | 5.8 | 3.7 | 7.3 | 13 | 3.3 | 2.4 |
| 23 | 5.2 | e4.7 | e6.6 | 4.4 | 3.3 | 4.0 | 7.9 | 3.1 | 7.1 | 11 | 2.4 | 13 |
| 24 | 5.2 | e4.9 | e7.0 | 3.9 | 3.6 | 4.0 | 8.3 | 4.3 | 7.4 | 7.8 | 2.4 | 19 |
| 25 | 5.2 | e5.0 | e6.4 | 4.3 | 3.8 | 3.8 | 6.9 | 7.3 | 8.1 | 6.2 | 3.4 | 13 |
| 26 | 5.2 | 5.4 | e5.8 | 4.9 | 4.1 | 4.0 | 5.9 | 7.0 | 7.7 | 5.4 | 2.0 | 12 |
| 27 | 5.2 | 5.9 | e5.4 | 5.8 | 4.2 | 4.1 | 5.1 | 6.7 | 6.6 | 4.9 | 1.7 | 11 |
| 28 | 5.2 | 5.3 | e5.4 | 5.6 | 3.8 | 4.2 | 5.3 | 6.3 | 6.3 | 4.6 | 1.9 | 10 |
| 29 | 5.2 | 5.6 | e5.2 | 4.8 | --- | 4.4 | 8.4 | 5.7 | 6.2 | 4.5 | 2.1 | 11 |
| 30 | 5.2 | 5.6 | e5.1 | 3.9 | --- | 4.2 | 16 | 5.2 | 6.2 | 4.4 | 1.7 | 8.9 |
| 31 | 5.2 | --- | e5.0 | 3.7 | --- | 4.5 | --- | 4.8 | --- | 4.3 | 1.7 | --- |
| TOTAL | 174.5 | 136.9 | 159.9 | 145.6 | 100.6 | 119.0 | 169.3 | 243.6 | 187.7 | 226.8 | 161.2 | 151.1 |
| MEAN | 5.63 | 4.56 | 5.16 | 4.70 | 3.59 | 3.84 | 5.64 | 7.86 | 6.26 | 7.32 | 5.20 | 5.04 |
| MAX | 12 | 5.9 | 7.0 | 5.8 | 4.4 | 4.5 | 16 | 24 | 8.1 | 14 | 8.7 | 19 |
| MIN | 4.5 | 2.9 | 2.1 | 3.5 | 2.9 | 3.1 | 4.0 | 3.1 | 3.8 | 4.3 | 1.7 | 1.1 |
| ACFT | 346 | 272 | 317 | 289 | 200 | 236 | 336 | 483 | 372 | 450 | 320 | 300 |

| | | | | | | | | | | |
|-------------|-------|--------|------|------|-----|----|-----|-----|------|------|
| CAL YR 1985 | TOTAL | 3324.2 | MEAN | 9.11 | MAX | 58 | MIN | 2.1 | ACFT | 6590 |
| WTR YR 1986 | TOTAL | 1976.2 | MEAN | 5.41 | MAX | 24 | MIN | 1.1 | ACFT | 3920 |

e Estimated.

ESCALANTE RIVER BASIN

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 mi².

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 poor. Diversions above station for irrigation of about 2,300 acres of crop and pastureland.

AVERAGE DISCHARGE.--30 years (1909-12, 1942-55, 1972-86), 15.2 ft³/s, 11,010 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,450 ft³/s August 1953, day unknown, gage height, 9.9 ft from outside high-water mark, from rating curve extended above 540 ft³/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 ft³/s Dec. 24, 1978, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,210 ft³/s Oct. 10, gage height 5.86 ft, from floodmarks; minimum daily discharge, 0.89 ft³/s June 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 7.2 | e9.7 | 6.6 | e6.1 | e15 | e18 | e35 | 8.4 | 11 | 1.0 | 2.6 | e1.4 |
| 2 | 8.4 | e10 | 7.3 | e7.1 | e11 | 17 | e44 | 8.4 | 6.1 | 1.1 | 2.6 | e1.3 |
| 3 | 7.6 | e9.8 | 7.0 | e7.5 | e11 | 16 | e35 | 10 | 6.2 | 1.6 | 2.7 | e1.2 |
| 4 | 7.6 | e9.7 | 6.1 | e7.7 | e10 | e15 | e31 | 16 | 7.3 | 1.6 | 2.8 | e1.1 |
| 5 | 7.6 | e9.7 | 5.7 | e8.2 | e10 | 15 | e24 | e6.4 | 7.4 | 1.2 | 3.1 | e1.0 |
| 6 | 6.8 | e9.7 | 6.7 | e8.1 | e10 | 14 | e18 | 2.2 | 6.4 | 1.2 | 4.1 | e1.1 |
| 7 | 7.6 | e11 | 4.7 | e8.0 | e10 | 16 | e17 | 2.9 | 5.1 | 1.2 | 3.8 | e1.2 |
| 8 | 12 | e12 | 5.5 | e7.8 | e10 | 16 | e16 | e3.1 | 4.6 | 1.9 | 5.0 | e2.0 |
| 9 | 19 | 9.9 | e6.2 | e7.6 | e10 | 19 | e16 | 4.4 | 3.2 | 1.8 | 6.9 | e5.0 |
| 10 | 92 | 9.5 | e6.1 | e7.7 | e10 | 17 | e11 | e3.4 | 2.4 | 1.6 | 5.4 | e5.2 |
| 11 | 44 | 9.8 | e5.8 | e7.9 | e11 | 19 | 9.7 | e2.9 | 2.1 | 1.8 | 4.8 | e4.4 |
| 12 | 2.6 | 11 | e6.2 | e8.6 | e12 | e16 | 8.0 | 2.2 | 1.6 | 1.8 | 56 | e4.2 |
| 13 | 9.3 | 7.2 | e6.3 | e9.0 | e15 | e16 | e8.0 | 2.2 | 1.2 | 1.8 | 14 | e4.0 |
| 14 | 8.4 | 4.6 | e6.6 | e9.4 | e19 | e19 | e8.0 | 2.0 | 1.2 | 2.0 | 5.7 | e4.0 |
| 15 | 8.0 | 7.8 | e7.0 | e10 | e22 | e15 | e4.4 | 2.4 | 1.2 | 3.6 | 4.8 | e3.9 |
| 16 | 8.4 | 6.8 | e6.9 | e10 | 24 | e20 | 4.2 | 2.2 | 1.2 | 4.1 | 4.4 | e3.9 |
| 17 | 9.5 | 12 | e6.8 | e10 | 28 | e16 | 3.9 | 2.2 | 1.3 | 3.4 | 4.4 | e4.0 |
| 18 | 10 | 8.0 | e6.9 | e7.6 | 33 | e20 | e3.6 | 2.9 | 1.6 | 4.2 | 2.0 | e4.0 |
| 19 | 10 | e7.3 | e7.2 | e6.5 | 33 | e13 | 3.6 | 1.7 | 1.6 | 6.0 | 1.5 | e3.9 |
| 20 | 9.9 | e8.4 | e7.6 | e6.0 | e28 | e3.9 | 3.1 | 2.0 | 1.8 | 12 | e130 | e3.9 |
| 21 | 9.8 | 7.3 | e8.0 | e6.0 | e22 | e12 | 3.1 | 2.4 | 1.9 | 22 | e30 | e4.0 |
| 22 | 11 | e8.8 | e8.1 | e6.8 | e18 | e3.6 | 3.1 | 1.5 | 1.7 | 25 | e10 | e10 |
| 23 | 10 | 10 | e8.3 | e7.6 | e17 | e5.1 | 3.1 | 1.5 | .90 | 22 | e5.0 | e31 |
| 24 | 9.7 | e12 | e8.7 | e7.6 | e17 | e7.2 | 3.0 | 1.5 | .90 | 18 | e1.9 | e6.0 |
| 25 | 9.7 | e10 | e8.1 | e6.8 | e17 | e7.6 | 3.1 | 3.6 | .98 | 13 | e2.2 | e25 |
| 26 | e9.7 | e9.5 | e8.1 | e7.6 | e18 | e8.8 | e2.7 | 5.4 | 1.2 | 16 | e1.7 | e17 |
| 27 | e9.7 | e9.3 | e7.8 | e8.5 | e19 | e20 | e2.2 | 6.4 | .99 | 15 | e1.6 | e13 |
| 28 | e9.7 | 9.3 | e7.6 | e9.5 | e19 | e24 | e2.4 | 12 | .89 | 8.4 | e1.7 | e11 |
| 29 | e9.7 | 9.3 | e7.6 | e11 | --- | e16 | 2.4 | 12 | .90 | 5.1 | e1.8 | e7.0 |
| 30 | e9.7 | 9.3 | e7.3 | e13 | --- | e13 | 4.4 | 12 | .90 | 3.8 | e1.6 | e6.2 |
| 31 | e9.7 | --- | e6.3 | e19 | --- | e18 | --- | 12 | --- | 3.5 | e1.5 | --- |
| TOTAL | 404.3 | 278.7 | 215.1 | 264.2 | 479 | 456.2 | 333.0 | 158.2 | 85.76 | 206.7 | 325.6 | 190.9 |
| MEAN | 13.0 | 9.29 | 6.94 | 8.52 | 17.1 | 14.7 | 11.1 | 5.10 | 2.86 | 6.67 | 10.5 | 6.36 |
| MAX | 92 | 12 | 8.7 | 19 | 33 | 24 | 44 | 16 | 11 | 25 | 130 | 31 |
| MIN | 2.6 | 4.6 | 4.7 | 6.0 | 10 | 3.6 | 2.2 | 1.5 | .89 | 1.0 | 1.5 | 1.0 |
| ACFT | 802 | 553 | 427 | 524 | 950 | 905 | 661 | 314 | 170 | 410 | 646 | 379 |
| CAL YR 1985 | TOTAL | 5806.1 | MEAN | 15.9 | MAX | 92 | MIN | 1.2 | ACFT | 11520 | | |
| WTR YR 1986 | TOTAL | 3397.66 | MEAN | 9.31 | MAX | 130 | MIN | .89 | ACFT | 6740 | | |

e Estimated.

SAN JUAN RIVER BASIN

163

09378170 SOUTH CREEK ABOVE RESERVOIR NEAR MONTICELLO, UT

LOCATION.--Lat 37°50'48", long 109°22'08", in NE1/4SW1/4 sec.2, T.34 S., R.23 E., San Juan County,
Hydrologic Unit 14080203, 200 ft upstream from west side of reservoir and 2 mi southwest of Monticello, Ut.

DRAINAGE AREA.--8.64 mi².

PERIOD OF RECORD.--March to September 1986.

GAGE.--Water-stage recorder. Altitude of gage is 7,170 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 68 ft³/s Apr. 2, gage height, 3.02 ft, may have been
higher during period prior to recorder-installation; minimum daily, 0.10 ft³/s Oct. 1-6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | e.10 | e.12 | e.22 | e.19 | e.34 | e2.5 | 21 | 7.0 | 5.9 | 1.0 | .46 | .42 |
| 2 | e.10 | e.12 | e.22 | e.17 | e.34 | e2.5 | 37 | 5.7 | 6.0 | .92 | .46 | .40 |
| 3 | e.10 | e.12 | e.22 | e.20 | e.30 | e2.5 | 18 | 6.4 | 6.2 | .88 | .46 | .40 |
| 4 | e.10 | e.12 | e.27 | e.19 | e.25 | e2.7 | 13 | 9.7 | 6.7 | .92 | .46 | .40 |
| 5 | e.10 | e.12 | e.26 | e.18 | e.25 | e3.0 | 10 | 12 | 7.1 | .89 | .46 | .40 |
| 6 | e.10 | e.12 | e.21 | e.18 | e.24 | e3.2 | 9.0 | 10 | 6.8 | .76 | .46 | .35 |
| 7 | e.12 | e.12 | e.22 | e.19 | e.22 | 3.4 | 8.1 | 9.3 | 6.1 | .71 | .46 | .34 |
| 8 | e.14 | e.12 | e.21 | e.21 | e.22 | 3.4 | 7.6 | 7.6 | 5.1 | .72 | .46 | .34 |
| 9 | e.14 | e.12 | e.24 | e.25 | e.22 | 3.5 | 7.3 | 6.5 | 4.6 | .88 | .42 | 1.3 |
| 10 | e.20 | e.12 | e.17 | e.30 | e.28 | 2.9 | 7.3 | 5.4 | 5.4 | .66 | .44 | .57 |
| 11 | e.60 | e.12 | e.18 | e.28 | e.35 | 2.9 | 7.4 | 4.7 | 4.5 | .57 | .46 | .51 |
| 12 | e.35 | e.12 | e.13 | e.28 | e.35 | 2.8 | 7.4 | 3.9 | 4.0 | .51 | .48 | .51 |
| 13 | e.25 | e.21 | e.12 | e.28 | e.38 | 2.8 | 7.4 | 3.6 | 3.7 | .51 | .46 | .46 |
| 14 | e.22 | e.21 | e.12 | e.27 | e.38 | 2.6 | 6.7 | 3.5 | 3.6 | .48 | .46 | .46 |
| 15 | e.20 | e.25 | e.13 | e.26 | e.38 | 2.6 | 6.3 | 3.7 | 3.5 | .46 | .41 | .40 |
| 16 | e.19 | e.29 | e.13 | e.22 | e.50 | 2.5 | 6.3 | 4.4 | 3.2 | .68 | .40 | .40 |
| 17 | e.19 | e.23 | e.14 | e.25 | e.50 | 2.3 | 6.0 | 4.5 | 2.9 | .58 | .40 | .34 |
| 18 | e.16 | e.20 | e.14 | e.28 | e.90 | 2.2 | 5.7 | 4.0 | 2.8 | .51 | .40 | .30 |
| 19 | e.15 | e.20 | e.16 | e.28 | e1.3 | 2.2 | 5.6 | 4.2 | 2.7 | .48 | .40 | .28 |
| 20 | e.15 | e.24 | e.18 | e.33 | e2.0 | 2.8 | 4.7 | 5.2 | 2.5 | .46 | .40 | .28 |
| 21 | e.14 | e.28 | e.18 | e.30 | e1.6 | 3.9 | 4.5 | 7.4 | 2.3 | .45 | .36 | .28 |
| 22 | e.13 | e.30 | e.18 | e.33 | e1.3 | 5.4 | 5.2 | 8.2 | 2.1 | .46 | .34 | .24 |
| 23 | e.13 | e.35 | e.18 | e.37 | e1.4 | 6.7 | 6.9 | 8.5 | 1.8 | .51 | .34 | .75 |
| 24 | e.12 | e.22 | e.16 | e.35 | e2.5 | 6.4 | 7.8 | 8.1 | 1.7 | .49 | .34 | 1.7 |
| 25 | e.12 | e.22 | e.16 | e.30 | e3.0 | 6.0 | 7.8 | 7.4 | 1.9 | .46 | .40 | 2.1 |
| 26 | e.11 | e.22 | e.17 | e.27 | e4.5 | 6.4 | 8.2 | 7.7 | 1.6 | .46 | .42 | 1.0 |
| 27 | e.11 | e.22 | e.19 | e.30 | e3.5 | 6.8 | 7.8 | 8.4 | 1.3 | .46 | .40 | .42 |
| 28 | e.12 | e.22 | e.17 | e.39 | e2.8 | 7.1 | 6.8 | 8.3 | 1.2 | .46 | .43 | .40 |
| 29 | e.12 | e.22 | e.20 | e.37 | --- | 8.8 | 6.6 | 7.9 | 1.1 | .46 | .59 | .40 |
| 30 | e.11 | e.22 | e.20 | e.35 | --- | 9.9 | 6.8 | 7.1 | 1.1 | .46 | .46 | .36 |
| 31 | e.12 | --- | e.17 | e.34 | --- | 9.8 | --- | 6.4 | --- | .46 | .46 | --- |
| TOTAL | 4.99 | 5.74 | 5.63 | 8.46 | 30.30 | 132.5 | 270.2 | 206.7 | 109.4 | 18.71 | 13.35 | 16.51 |
| MEAN | .16 | .19 | .18 | .27 | 1.08 | 4.27 | 9.01 | 6.67 | 3.65 | .60 | .43 | .55 |
| MAX | .60 | .35 | .27 | .39 | 4.5 | 9.9 | 37 | 12 | 7.1 | 1.0 | .59 | 2.1 |
| MIN | .10 | .12 | .12 | .17 | .22 | 2.2 | 4.5 | 3.5 | 1.1 | .45 | .34 | .24 |
| ACFT | 9.9 | 11 | 11 | 17 | 60 | 263 | 536 | 410 | 217 | 37 | 26 | 33 |

WTR YR 1986 TOTAL 822.49 MEAN 2.25 MAX 37 MIN .10 ACFT 1630

e Estimated.

SAN JUAN RIVER BASIN

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 191 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 except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--7 years, 5.90 ft³/s. 4,270 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 537 ft³/s Apr. 24, 1983, gage height, 5.77 ft; no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Sept. 9 | 1900 | *19 | *4.24 | | | | |

Minimum daily discharge, 0.01 ft³/s Sept. 18, 20, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|-------|-------|------|-------|-------|-------|
| 1 | e.14 | .18 | .25 | e.14 | e.13 | .21 | .36 | e.45 | e3.0 | e.90 | e1.2 | .41 |
| 2 | e.14 | .18 | .25 | e.13 | e.13 | .22 | .45 | e.60 | e2.7 | e.86 | e1.2 | .41 |
| 3 | e.14 | .18 | .25 | e.14 | e.12 | .25 | .56 | e1.0 | e2.5 | e.80 | e1.2 | .44 |
| 4 | .14 | .18 | .32 | e.13 | e.10 | .27 | .53 | e1.7 | e2.5 | e1.0 | e1.1 | .96 |
| 5 | .14 | .18 | .31 | e.12 | e.10 | .27 | .52 | e1.7 | e2.4 | e.90 | e1.1 | 1.2 |
| 6 | .14 | .18 | .27 | e.12 | e.09 | .27 | .50 | e1.4 | e2.3 | e.80 | e1.0 | .94 |
| 7 | .17 | .18 | .28 | e.13 | e.08 | .27 | .50 | e1.2 | e2.1 | e.80 | e1.0 | .65 |
| 8 | .19 | .18 | .27 | e.14 | e.08 | .25 | .50 | e.90 | e2.0 | e.90 | e1.0 | .40 |
| 9 | .19 | .18 | .31 | e.15 | e.08 | .25 | .50 | e.80 | e1.9 | e2.5 | e1.0 | 3.9 |
| 10 | .68 | .18 | e.20 | e.17 | e.10 | .28 | e.56 | e.78 | e1.9 | e1.7 | e1.0 | .47 |
| 11 | 1.6 | .18 | e.22 | e.15 | e.12 | .30 | e.50 | e.76 | e1.8 | e1.7 | e.90 | .32 |
| 12 | 1.1 | .18 | e.10 | e.15 | e.12 | .31 | e.45 | e.74 | e1.8 | e1.3 | e1.7 | .03 |
| 13 | .70 | .21 | e.11 | e.15 | e.14 | .25 | e.40 | e.80 | e1.7 | e1.3 | e1.1 | .03 |
| 14 | .47 | .22 | e.11 | e.14 | e.14 | .25 | e.33 | e.94 | e1.7 | e1.0 | e1.2 | .03 |
| 15 | .35 | .28 | e.12 | e.13 | e.14 | .25 | e.31 | e1.0 | e1.6 | e1.5 | 1.4 | .02 |
| 16 | .34 | .32 | e.12 | e.11 | e.19 | .26 | e.31 | .95 | e1.6 | e3.0 | 1.4 | .02 |
| 17 | .34 | .25 | e.13 | e.13 | e.19 | .27 | e.31 | .94 | e1.6 | e2.5 | 2.0 | .02 |
| 18 | .31 | .21 | e.13 | e.14 | e.25 | .32 | e.28 | .94 | e1.5 | e1.4 | 2.0 | e.01 |
| 19 | .27 | .21 | e.14 | e.14 | .40 | .36 | e.24 | .88 | e1.5 | e1.4 | .60 | e.04 |
| 20 | .27 | .28 | e.16 | e.15 | .31 | .34 | e.21 | .94 | e1.5 | e1.6 | .79 | e.01 |
| 21 | .25 | .34 | e.16 | e.13 | .30 | .34 | e.24 | 1.2 | e1.5 | e1.6 | .99 | e.01 |
| 22 | .23 | .37 | e.16 | e.14 | .32 | .34 | e.35 | 1.2 | e1.4 | 1.5 | .75 | e.07 |
| 23 | .23 | .39 | e.16 | e.15 | .27 | .32 | e.50 | 1.4 | e1.4 | 1.7 | 1.6 | .16 |
| 24 | .19 | .25 | e.12 | e.13 | .27 | .32 | e.43 | 1.5 | e1.3 | 1.8 | 2.5 | .47 |
| 25 | .19 | .25 | e.12 | e.12 | .25 | .32 | e.40 | 2.0 | e1.9 | 1.9 | 3.0 | .96 |
| 26 | .18 | .25 | e.13 | e.10 | .22 | .32 | e.35 | 4.2 | e1.7 | 2.1 | 1.8 | .36 |
| 27 | .18 | .25 | e.14 | e.15 | .21 | .32 | e.30 | 5.2 | e1.4 | 1.5 | .33 | .14 |
| 28 | .19 | .25 | e.13 | e.16 | .21 | .32 | e.25 | e4.4 | e1.1 | 1.5 | .39 | .09 |
| 29 | .19 | .25 | e.15 | e.15 | --- | .34 | e.35 | e3.9 | e1.1 | e1.5 | .64 | .06 |
| 30 | .16 | .25 | e.15 | e.14 | --- | .34 | e.45 | e3.7 | e1.0 | e1.2 | .49 | .09 |
| 31 | .18 | --- | e.13 | e.13 | --- | .34 | --- | e3.4 | --- | e1.2 | .39 | --- |
| TOTAL | 9.99 | 6.99 | 5.60 | 4.26 | 5.06 | 9.07 | 11.94 | 51.52 | 53.4 | 45.36 | 36.77 | 12.72 |
| MEAN | .32 | .23 | .18 | .14 | .18 | .29 | .40 | 1.66 | 1.78 | 1.46 | 1.19 | .42 |
| MAX | 1.6 | .39 | .32 | .17 | .40 | .36 | .56 | 5.2 | 3.0 | 3.0 | 3.0 | 3.9 |
| MIN | .14 | .18 | .10 | .10 | .08 | .21 | .21 | .45 | 1.0 | .80 | .33 | .01 |
| ACFT | 20 | 14 | 11 | 8.4 | 10 | 18 | 24 | 102 | 106 | 90 | 73 | 25 |

| CAL YR 1985 | TOTAL | 2165.96 | MEAN | 5.93 | MAX | 51 | MIN | .02 | ACFT | 4300 |
|-------------|-------|---------|------|------|-----|-----|-----|-----|------|------|
| WTR YR 1986 | TOTAL | 252.68 | MEAN | .69 | MAX | 5.2 | MIN | .01 | ACFT | 501 |

e Estimated.

SAN JUAN RIVER BASIN

165

09378600 MONTEZUMA CREEK NEAR BLUFF, UT

LOCATION.--Lat 37°18'30", long 109°17'35", in NW1/4SW1/4 sec.16, T.40 S., R.24 E., San Juan County, Hydrologic Unit 14080201, on right bank approximately 200 ft upstream from bridge on Highway 262, 3.4 mi above mouth, and 14 mi southeast of Bluff.

DRAINAGE AREA.--1,200 mi²,.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1985 to September 1986. Annual maximum only December 1958 to September 1971 at crest-stage site.

GAGE.--Water-stage recorder. Altitude of gage is 4,490 ft from topographic map. December 1958 to September 1971, crest-stage gage only at various sites upstream from bridge at different datums. June 6, 1985 to September 30, 1985 instantaneous measurements only at same site.

REMARKS.--Records poor. Upstream is Lloyd's Lake with a capacity of approximately 3,000 acre-ft and several diversions for agricultural use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,310 ft³/s Aug. 28, gage height, 12.3 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|--------|--------|-------|-------|------|------|------|------|-------|--------|--------|--------|
| 1 | e.00 | e.10 | e27 | e16 | e20 | e35 | e96 | 19 | 14 | e1.8 | .00 | e4.0 |
| 2 | e.00 | e.10 | e11 | e14 | e31 | e34 | e120 | 19 | 12 | e1.3 | .00 | e.00 |
| 3 | e.00 | e.10 | e4.0 | e12 | e26 | e26 | e94 | 20 | 12 | e1.1 | .00 | .00 |
| 4 | e.00 | e.10 | e3.0 | e11 | e24 | 25 | e80 | 17 | 11 | e1.0 | .00 | .00 |
| 5 | e.00 | e.10 | e2.0 | e9.4 | e25 | 24 | e78 | 18 | 9.6 | e1.1 | .00 | .00 |
| 6 | e.00 | e.10 | e2.0 | e8.5 | e24 | 25 | e70 | 18 | 10 | e1.1 | .00 | .00 |
| 7 | e2.0 | e.10 | e1.0 | e7.7 | 21 | 22 | e68 | 24 | 12 | e3.0 | .00 | .00 |
| 8 | e2.0 | e.10 | e8.0 | e7.0 | 22 | 23 | e66 | 27 | 13 | e5.0 | .00 | e.00 |
| 9 | e8.0 | e.10 | e7.0 | e6.8 | 21 | 25 | e66 | 28 | 12 | e32 | .00 | e3.8 |
| 10 | e11 | e.10 | e5.0 | e7.4 | 19 | 26 | e64 | 24 | 13 | e6.6 | .00 | e70 |
| 11 | e88 | e.10 | e4.0 | e8.1 | 18 | 29 | e58 | 20 | 13 | e6.0 | .00 | e9.0 |
| 12 | e20 | e.10 | e7.0 | e8.2 | 20 | 31 | 38 | 21 | 10 | e4.5 | e3.5 | e4.5 |
| 13 | e9.0 | e.10 | e13 | e8.7 | 22 | 32 | 36 | 18 | e7.0 | e3.5 | e17 | e2.0 |
| 14 | e7.0 | e.70 | e18 | e9.0 | 22 | 32 | e35 | 18 | e6.0 | e2.2 | e4.0 | e.00 |
| 15 | e6.0 | e1.0 | e22 | e8.0 | 26 | 33 | e33 | 16 | e5.0 | e1.5 | e.00 | e.00 |
| 16 | e6.0 | e1.0 | e17 | e8.4 | 53 | 33 | e33 | 19 | e4.0 | e30 | .00 | e.00 |
| 17 | e4.0 | e1.0 | e13 | e9.0 | 94 | 52 | e32 | 18 | e3.0 | e11 | .00 | e.00 |
| 18 | e4.0 | e1.0 | e9.0 | e9.3 | 83 | 66 | 31 | 17 | e2.7 | e3.5 | .00 | e.00 |
| 19 | e2.0 | e1.0 | e16 | e9.3 | 74 | 49 | 29 | 15 | e2.4 | e20 | .00 | e.00 |
| 20 | e2.0 | e1.0 | e15 | e9.8 | 68 | 33 | 26 | 15 | e2.3 | e10 | .00 | e.00 |
| 21 | e.00 | e1.0 | e16 | e9.1 | 56 | 33 | 24 | 13 | e2.2 | e8.0 | .00 | e.00 |
| 22 | e.00 | e1.0 | e18 | e8.4 | 40 | 30 | 23 | 11 | e2.1 | e13 | .00 | e.00 |
| 23 | e.00 | e5.0 | e18 | e9.1 | e70 | 42 | 24 | 12 | e2.0 | 42 | .00 | e4.0 |
| 24 | e.00 | e30 | e20 | e9.6 | e82 | 45 | 24 | 12 | e1.8 | 39 | .00 | e35 |
| 25 | e.00 | e21 | e20 | e9.0 | e96 | 43 | 25 | 12 | e5.0 | 8.4 | e2.0 | 26 |
| 26 | e.00 | e4.0 | e19 | e9.1 | e110 | 35 | 29 | 12 | e1.4 | 4.9 | e4.9 | e9.0 |
| 27 | e.00 | e4.0 | e17 | e9.3 | e50 | 30 | 33 | 12 | e1.3 | e3.0 | e3.0 | e4.0 |
| 28 | e.00 | e4.0 | e15 | e9.6 | 28 | e28 | 30 | 14 | e3.0 | e.30 | e72 | e1.0 |
| 29 | e.00 | e18 | e14 | e10 | --- | e26 | 25 | 15 | e2.5 | e.00 | 88 | e.00 |
| 30 | e.10 | e54 | e12 | e10 | --- | e29 | 22 | 15 | e2.2 | .00 | 56 | e.00 |
| 31 | e.10 | --- | e11 | e12 | --- | e56 | --- | 15 | --- | .00 | 8.8 | --- |
| TOTAL | 171.20 | 150.00 | 384.0 | 292.8 | 1245 | 1052 | 1412 | 534 | 197.5 | 264.80 | 259.20 | 172.30 |
| MEAN | 5.52 | 5.00 | 12.4 | 9.45 | 44.5 | 33.9 | 47.1 | 17.2 | 6.58 | 8.54 | 8.36 | 5.74 |
| MAX | 88 | 54 | 27 | 16 | 110 | 66 | 120 | 28 | 14 | 42 | 88 | 70 |
| MIN | .00 | .10 | 1.0 | 6.8 | 18 | 22 | 22 | 11 | 1.3 | .00 | .00 | .00 |
| ACFT | 340 | 298 | 762 | 581 | 2470 | 2090 | 2800 | 1060 | 392 | 525 | 514 | 342 |

WTR YR 1986 TOTAL 6134.80 MEAN 16.8 MAX 120 MIN .00 ACFT 12170

e Estimated.

SAN JUAN RIVER BASIN

09378600 MONTEZUMA CREEK NEAR BLUFF, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1985 to July 1986.

SEDIMENT DATA.--November 1985 to July 1986.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | PH (STAND- ARD UNITS) | TEMPER- ATURE, AIR (DEG C) | TEMPER- ATURE (DEG C) | HARD- NESS (MG/L AS CAC03) | HARD- NESS NONCAR- BONATE (MG/L AS CAC03) | HARD- NESS NONCARB WH WAT TOT FLD MG/L AS CAC03 |
|----------|------|---|---|--------------------------------|-------------------------------------|-----------------------------|--|---|---|
| NOV 1985 | | | | | | | | | |
| 15... | 1030 | 1.1 | 2100 | 8.40 | 8.0 | 1.0 | 560 | 559 | 290 |
| JAN 1986 | | | | | | | | | |
| 16... | 1450 | 8.0 | 3140 | 8.30 | 6.0 | 3.5 | 1200 | 1190 | 950 |
| FEB | | | | | | | | | |
| 06... | 1400 | 24 | 2980 | 8.30 | 0.0 | 7.0 | 1300 | 1300 | 1100 |
| MAR | | | | | | | | | |
| 13... | 1000 | 42 | 2940 | 8.30 | 11.0 | 9.5 | 1200 | 1240 | 1000 |
| APR | | | | | | | | | |
| 11... | 0930 | 60 | 2990 | 8.40 | 18.5 | 15.0 | 1300 | 1270 | 1100 |
| 28... | 1400 | 33 | 3250 | 8.30 | 22.5 | 19.5 | 1400 | 1450 | 1200 |
| MAY | | | | | | | | | |
| 16... | 0945 | 20 | 2860 | 8.40 | 16.5 | 14.0 | 1100 | 1120 | 930 |
| JUN | | | | | | | | | |
| 10... | 1300 | 13 | 1270 | 8.40 | 24.5 | 20.5 | 830 | 834 | 490 |
| JUL | | | | | | | | | |
| 22... | 1400 | 12 | 830 | 8.10 | 29.0 | 22.0 | 190 | 194 | 35 |

| 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- LITY LAB (MG/L AS CAC03) | SULFATE DIS- SOLVED (MG/L AS SO4) |
|----------|--|--|--|-------------------|---|---|---|---|
| NOV 1985 | | | | | | | | |
| 15... | 120 | 63 | 260 | 50 | 5 | 5.1 | 274 | 640 |
| JAN 1986 | | | | | | | | |
| 16... | 230 | 150 | 270 | 33 | 3 | 4.7 | 240 | 1300 |
| FEB | | | | | | | | |
| 06... | 240 | 170 | 250 | 29 | 3 | 4.4 | 204 | 1300 |
| MAR | | | | | | | | |
| 13... | 200 | 180 | 220 | 28 | 3 | 4.5 | 214 | 1300 |
| APR | | | | | | | | |
| 11... | 230 | 170 | 220 | 27 | 3 | 5.2 | 216 | 1300 |
| 28... | 250 | 200 | 260 | 28 | 3 | 5.3 | 201 | 1400 |
| MAY | | | | | | | | |
| 16... | 200 | 150 | 230 | 31 | 3 | 4.7 | 183 | 1200 |
| JUN | | | | | | | | |
| 10... | 70 | 160 | 530 | 58 | 8 | 5.0 | 345 | 1300 |
| JUL | | | | | | | | |
| 22... | 48 | 18 | 85 | 48 | 3 | 4.8 | 159 | 230 |

| DATE | CHLO- RIDE, DIS- SOLVED (MG/L AS CL) | FLUO- RIDE, DIS- SOLVED (MG/L AS F) | SILICA, DIS- SOLVED (MG/L AS SiO2) | SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) | SOLIDS, DIS- SOLVED (TONS PER AC-FT) | SOLIDS, DIS- SOLVED (TONS PER DAY) | NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) | PHOS- PHORUS, DIS- SOLVED (MG/L AS P) |
|----------|---|--|---|--|---|---|---|--|
| NOV 1985 | | | | | | | | |
| 15... | 140 | 0.4 | 8.2 | 1400 | 1.9 | 4.3 | <0.00 | 0.01 |
| JAN 1986 | | | | | | | | |
| 16... | 230 | 0.3 | 8.6 | 2300 | 3.2 | 51 | 0.97 | 0.02 |
| FEB | | | | | | | | |
| 06... | 220 | 0.3 | 6.9 | 2300 | 3.1 | 150 | 0.89 | 0.02 |
| MAR | | | | | | | | |
| 13... | 230 | 0.3 | 7.3 | 2300 | 3.1 | 255 | 0.74 | 0.02 |
| APR | | | | | | | | |
| 11... | 220 | 0.4 | 8.7 | 2300 | 3.1 | 370 | 0.55 | 0.03 |
| 28... | 240 | 0.4 | 7.4 | 2500 | 3.4 | 223 | 0.44 | 0.07 |
| MAY | | | | | | | | |
| 16... | 200 | 0.3 | 7.0 | 2100 | 2.9 | 113 | <0.10 | 0.01 |
| JUN | | | | | | | | |
| 10... | 40 | 0.2 | 19 | 2300 | 3.2 | 81 | 0.37 | 0.01 |
| JUL | | | | | | | | |
| 22... | 39 | 0.4 | 8.4 | 530 | 0.72 | 18 | 0.50 | 0.07 |

SAN JUAN RIVER BASIN

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09378600 MONTEZUMA CREEK NEAR BLUFF, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | BORON, DIS- SOLVED (UG/L AS B) |
|----------|------|--|
| NOV 1985 | | |
| 15... | 1030 | 160 |
| JAN 1986 | | |
| 16... | 1450 | 150 |
| FEB | | |
| 06... | 1400 | 140 |
| MAR | | |
| 13... | 1000 | 100 |
| APR | | |
| 11... | 0930 | 110 |
| 28... | 1400 | 130 |
| MAY | | |
| 16... | 0945 | 110 |
| JUN | | |
| 10... | 1300 | 150 |
| JUL | | |
| 22... | 1400 | 70 |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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 |
|----------|------|---|-----------------------------|--|--|---|---|
| NOV 1985 | | | | | | | |
| 15... | 1030 | 1.1 | 1.0 | 164 | 0.5 | -- | -- |
| JAN 1986 | | | | | | | |
| 16... | 1450 | 8.0 | 3.5 | 881 | 19 | 30 | 41 |
| FEB | | | | | | | |
| 06... | 1400 | 24 | 7.0 | 2740 | 178 | 18 | 21 |
| MAR | | | | | | | |
| 13... | 1000 | 42 | 9.5 | 1620 | 182 | 25 | 29 |
| APR | | | | | | | |
| 11... | 0930 | 60 | 15.0 | 1770 | 287 | 27 | 31 |
| 28... | 1400 | 33 | 19.5 | 2830 | 254 | 4 | 5 |
| MAY | | | | | | | |
| 16... | 0945 | 20 | 14.0 | 790 | 42 | 16 | 21 |
| JUN | | | | | | | |
| 10... | 1300 | 13 | 20.5 | 688 | 24 | 42 | 52 |
| JUL | | | | | | | |
| 22... | 1400 | 12 | 22.0 | 5860 | 190 | 76 | 84 |

| 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 |
|----------|---|---|---|---|---|---|---|
| NOV 1985 | | | | | | | |
| 15... | -- | 17 | 33 | 88 | 99 | 100 | -- |
| JAN 1986 | | | | | | | |
| 16... | 61 | 82 | 92 | 97 | 100 | -- | -- |
| FEB | | | | | | | |
| 06... | 34 | 56 | 72 | 93 | 100 | -- | -- |
| MAR | | | | | | | |
| 13... | 39 | 75 | 93 | 100 | -- | -- | -- |
| APR | | | | | | | |
| 11... | 41 | 65 | 84 | 97 | 100 | -- | -- |
| 28... | 7 | 12 | 19 | 57 | 98 | 99 | 100 |
| MAY | | | | | | | |
| 16... | 30 | 50 | 71 | 89 | 100 | -- | -- |
| JUN | | | | | | | |
| 10... | 62 | 71 | 81 | 94 | 100 | -- | -- |
| JUL | | | | | | | |
| 22... | 93 | 93 | 95 | 97 | 100 | -- | -- |

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 mi².

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 estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--21 years, 1.50 ft³/s, 1,090 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 142 ft³/s Oct. 20, 1972, gage height, 2.14 ft; no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8.0 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|-----------------------------------|---------------------|-------|------|-----------------------------------|---------------------|
| Apr. 2 | 0100 | *30 | *1.47 | May 4 | 0430 | 12 | 1.21 |
| Apr. 23 | 0930 | 9.8 | 1.17 | | | | |

Minimum daily discharge, .01 ft³/s on many days during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-----|------|------|------|-------|-------|-------|-------|-------|------|-----|-----|
| 1 | .02 | .03 | e.02 | e.01 | e.02 | 1.9 | 15 | 7.1 | 2.7 | .08 | .03 | .01 |
| 2 | .02 | .04 | e.02 | e.01 | e.02 | 1.9 | 25 | 8.1 | 2.6 | .07 | .03 | .01 |
| 3 | .02 | .04 | e.02 | e.01 | e.02 | 1.9 | 18 | 9.8 | 2.7 | .06 | .03 | .01 |
| 4 | .02 | .04 | e.02 | e.01 | e.01 | 2.1 | 13 | 12 | 2.6 | .08 | .02 | .01 |
| 5 | .02 | .04 | e.02 | e.01 | e.01 | 2.4 | 9.5 | 11 | 2.6 | .07 | .02 | .01 |
| 6 | .02 | .04 | e.02 | e.01 | e.01 | 2.5 | 8.2 | 8.6 | 2.5 | .06 | .02 | .01 |
| 7 | .03 | .04 | e.02 | e.01 | e.01 | 2.8 | 8.1 | 6.8 | 2.3 | .06 | .02 | .01 |
| 8 | .03 | .04 | e.02 | e.01 | e.01 | 2.8 | 8.1 | 5.2 | 1.9 | .06 | .02 | .01 |
| 9 | .03 | .04 | e.02 | e.01 | e.01 | 2.8 | 8.1 | 4.1 | 1.8 | .27 | .02 | .02 |
| 10 | .03 | e.03 | e.01 | e.01 | e.01 | 2.3 | 8.0 | 3.4 | 1.6 | .05 | .02 | .01 |
| 11 | .06 | e.02 | e.01 | e.01 | e.03 | 2.3 | 8.0 | 3.1 | 1.3 | .05 | .01 | .01 |
| 12 | .03 | e.02 | e.01 | e.01 | e.03 | 2.1 | 7.4 | 2.9 | 1.1 | .05 | .03 | .01 |
| 13 | .03 | e.01 | e.01 | e.01 | e.05 | 1.8 | 7.0 | 3.0 | .97 | .04 | .02 | .01 |
| 14 | .03 | e.01 | e.01 | e.01 | e.07 | 1.6 | 6.1 | 3.7 | .86 | .04 | .02 | .01 |
| 15 | .03 | e.02 | e.01 | e.01 | e.08 | 1.6 | 5.5 | 4.3 | .81 | .05 | .02 | .01 |
| 16 | .03 | e.02 | e.01 | e.01 | e.09 | 1.6 | 5.5 | 4.4 | .72 | .24 | .01 | .01 |
| 17 | .03 | e.02 | e.01 | e.01 | e.09 | 1.4 | 5.5 | 4.0 | .63 | .09 | .01 | .01 |
| 18 | .03 | e.02 | e.01 | e.01 | e.10 | 1.2 | 5.2 | 3.7 | .56 | .05 | .01 | .01 |
| 19 | .03 | e.01 | e.01 | e.01 | .37 | 1.4 | 4.4 | 4.1 | .50 | .05 | .01 | .01 |
| 20 | .03 | e.01 | e.01 | e.01 | .94 | 2.0 | 3.9 | 5.3 | .45 | .09 | .01 | .01 |
| 21 | .03 | e.01 | e.01 | e.01 | .62 | 3.0 | 4.1 | 6.1 | .39 | .09 | .01 | .01 |
| 22 | .03 | e.02 | e.01 | e.01 | .53 | 4.9 | 6.4 | 5.8 | .34 | .05 | .01 | .01 |
| 23 | .03 | e.02 | e.01 | e.01 | .55 | 6.5 | 8.5 | 5.3 | .32 | .09 | .01 | .02 |
| 24 | .03 | e.02 | e.01 | e.01 | 1.1 | 6.4 | 7.9 | 4.8 | .30 | .05 | .01 | .32 |
| 25 | .03 | e.02 | e.01 | e.01 | 2.2 | 6.0 | 6.8 | 4.4 | .42 | .04 | .01 | .14 |
| 26 | .03 | e.03 | e.01 | e.01 | 3.0 | 6.3 | 6.1 | 4.6 | .27 | .04 | .01 | .13 |
| 27 | .03 | e.03 | e.01 | e.02 | 2.6 | 7.6 | 5.0 | 4.8 | .13 | .03 | .01 | .04 |
| 28 | .03 | e.02 | e.01 | e.02 | 2.1 | 9.4 | 4.4 | 4.5 | .10 | .03 | .01 | .03 |
| 29 | .03 | e.02 | e.01 | e.02 | --- | 9.6 | 5.7 | 4.0 | .10 | .03 | .02 | .03 |
| 30 | .03 | e.02 | e.01 | e.02 | --- | 9.4 | 6.8 | 3.5 | .09 | .03 | .02 | .03 |
| 31 | .03 | --- | e.01 | e.02 | --- | 9.6 | --- | 3.1 | --- | .03 | .02 | --- |
| TOTAL | .90 | .75 | .40 | .36 | 14.68 | 119.1 | 241.2 | 165.5 | 33.66 | 2.12 | .52 | .97 |
| MEAN | .03 | .02 | .01 | .01 | .52 | 3.84 | 8.04 | 5.34 | 1.12 | .07 | .02 | .03 |
| MAX | .06 | .04 | .02 | .02 | 3.0 | 9.6 | 25 | 12 | 2.7 | .21 | .03 | .32 |
| MIN | .02 | .01 | .01 | .01 | .01 | 1.2 | 3.9 | 2.9 | .09 | .03 | .01 | .01 |
| ACFT | 1.8 | 1.5 | .8 | .7 | 29 | 236 | 478 | 328 | 67 | 4.2 | .0 | 1.9 |

CAL YR 1985 TOTAL 946.86 MEAN 2.59 MAX 27 MIN .01 ACFT 1880
WTR YR 1986 TOTAL 580.16 MEAN 1.59 MAX 25 MIN .01 ACFT 1150

e Estimated.

SAN JUAN RIVER BASIN

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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 191 and 4.3 mi northwest of Blanding.

DRAINAGE AREA.--50.2 mi².

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 except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--11 years, 10.1 ft³/s, 7,320 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 695 ft³/s Mar. 14, 1981, gage height, 5.67 ft; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 230 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|---------|-----------------------------------|---------------------|---|------|-----------------------------------|---------------------|
| Apr. 2 | unknown | *170 | *3.59 | Maximum discharge the same as maximum daily discharge on April 2. | | | |

No flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|------|------|--------|-------|------|-------|--------|------|------|-------|
| 1 | .00 | .00 | 2.6 | .00 | .00 | e13 | e80 | 31 | 28 | .07 | e.01 | .68 |
| 2 | .00 | .00 | 1.3 | .00 | .00 | e13 | e170 | 34 | 27 | .07 | e.01 | .30 |
| 3 | .00 | .00 | 1.1 | .00 | .00 | e13 | e110 | 38 | 27 | .05 | .00 | .04 |
| 4 | .00 | .00 | 1.2 | .00 | .00 | e13 | e80 | 45 | 27 | .06 | .00 | .02 |
| 5 | .00 | .00 | 1.0 | .00 | .00 | e17 | e60 | 35 | 28 | .06 | .00 | .02 |
| 6 | .00 | .00 | .57 | .00 | .00 | e17 | e52 | 26 | 28 | .05 | .00 | .01 |
| 7 | e.01 | .00 | .41 | .00 | .00 | e19 | e52 | 23 | 25 | .04 | .00 | .01 |
| 8 | .00 | .00 | .41 | .00 | .00 | e19 | e52 | 18 | 22 | .04 | .00 | .01 |
| 9 | .00 | .00 | .14 | .00 | .00 | e19 | e52 | 14 | 18 | .06 | .00 | 5.9 |
| 10 | .00 | .00 | .05 | .00 | .00 | e19 | e52 | 11 | 16 | .04 | e.03 | .86 |
| 11 | e6.0 | .00 | e.01 | .00 | .00 | e17 | 52 | 10 | 16 | .03 | e.05 | .03 |
| 12 | .90 | .00 | .00 | .00 | .00 | e15 | 50 | 9.9 | 16 | .02 | e.43 | .01 |
| 13 | .15 | .00 | .00 | .00 | .00 | 12 | 46 | 21 | 14 | .02 | .74 | .01 |
| 14 | .18 | .00 | .00 | .00 | .00 | 11 | 41 | 21 | 14 | .02 | .03 | e.01 |
| 15 | .04 | .00 | .00 | .00 | 3.0 | 9.4 | 37 | 21 | 13 | .02 | .02 | e.01 |
| 16 | .02 | .00 | .00 | .00 | 7.0 | 11 | 37 | 24 | 12 | .02 | .01 | e.01 |
| 17 | .01 | .00 | .00 | .00 | 4.8 | e10 | 37 | 23 | 11 | .02 | .01 | .00 |
| 18 | e.01 | .00 | .00 | .00 | 5.3 | e9.0 | 35 | 23 | 10 | .01 | e.01 | .00 |
| 19 | e.01 | .00 | .00 | .00 | 8.8 | e12 | 34 | 25 | 9.1 | .01 | e.01 | .00 |
| 20 | e.01 | .00 | .00 | .00 | 12 | e20 | 32 | 32 | 8.2 | .01 | e.01 | .00 |
| 21 | e.01 | .00 | .00 | .00 | 8.4 | e25 | 32 | 41 | 7.1 | 1.1 | e.02 | .00 |
| 22 | e.01 | .00 | .00 | .00 | 6.4 | e34 | 35 | 42 | 3.8 | .12 | e.02 | .00 |
| 23 | e.01 | .00 | .00 | .00 | 3.8 | e40 | 42 | 40 | .35 | .09 | e.02 | e.01 |
| 24 | .00 | .00 | .00 | .00 | 8.8 | e35 | 40 | 38 | .24 | .04 | e.01 | 9.5 |
| 25 | .00 | e.01 | .00 | .00 | 12 | e36 | 36 | 36 | .20 | .02 | e.02 | 5.1 |
| 26 | .00 | 1.1 | .00 | .00 | 19 | e33 | 32 | 38 | .13 | .02 | e.02 | 4.1 |
| 27 | .00 | .69 | .00 | .00 | e20 | e41 | 27 | 40 | .09 | .02 | e.01 | 2.0 |
| 28 | .00 | .22 | .00 | .00 | e21 | e50 | 24 | 39 | .08 | .01 | e.02 | 1.6 |
| 29 | .00 | .41 | .00 | .00 | --- | e54 | 25 | 37 | .08 | e.01 | .91 | 1.3 |
| 30 | .00 | 4.4 | .00 | .00 | --- | e50 | 30 | 34 | .07 | e.01 | .31 | .24 |
| 31 | .00 | --- | .00 | .00 | --- | e54 | --- | 30 | --- | e.01 | .11 | --- |
| TOTAL | 7.37 | 6.83 | 8.79 | .00 | 140.30 | 740.4 | 1484 | 899.9 | 381.44 | 2.17 | 2.84 | 31.78 |
| MEAN | .24 | .23 | .28 | .00 | 5.01 | 23.9 | 49.5 | 29.0 | 12.7 | .07 | .09 | 1.06 |
| MAX | 6.0 | 4.4 | 2.6 | .00 | 21 | 54 | 170 | 45 | 28 | 1.1 | .91 | 9.5 |
| MIN | .00 | .00 | .00 | .00 | .00 | 9.0 | 24 | 9.9 | .07 | .01 | .00 | .00 |
| ACFT | 15 | 14 | 17 | .00 | 278 | 1470 | 2940 | 1780 | 757 | 4.3 | 5.6 | 63 |
| CAL YR 1985 | TOTAL | 4916.06 | MEAN | 13.5 | MAX | 136 | MIN | .00 | ACFT | 9750 | | |
| WTR YR 1986 | TOTAL | 3705.82 | MEAN | 10.2 | MAX | 170 | MIN | .00 | ACFT | 7350 | | |

e Estimated.

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 left bank, 40 ft north 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 mi².

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 except for estimated daily discharges, which are poor. No regulation or diversions above station.

AVERAGE DISCHARGE.--22 years, 8.99 ft³/s, 6,510 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,500 ft³/s Aug. 1, 1968, gage height, 20.68 ft; no flow during some periods each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Aug. 13 | 1830 | *879 | *5.90 | | | | |

No flow many days during June, July, and August.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|---------|-------|-------|--------|------|-------|-------|-------|--------|--------|--------|
| 1 | 1.1 | e2.7 | e8.0 | e6.6 | e7.5 | e110 | 32 | 7.0 | 5.1 | .00 | .00 | 14 |
| 2 | 1.2 | e2.6 | e6.0 | e7.4 | e7.2 | e30 | 54 | 7.0 | 4.9 | .00 | .00 | 11 |
| 3 | 1.4 | e2.5 | e5.6 | e7.8 | e6.8 | e30 | 40 | 7.3 | 5.7 | .00 | .00 | 6.4 |
| 4 | 1.2 | e2.5 | e8.0 | e7.4 | e6.0 | e30 | 24 | 7.5 | 5.1 | e15 | .00 | 3.8 |
| 5 | .93 | e2.5 | e7.7 | e7.0 | e5.5 | e30 | 22 | 7.5 | 3.9 | e6.0 | .00 | 2.1 |
| 6 | .93 | e2.5 | e7.2 | e6.8 | e4.5 | e40 | 22 | 7.5 | 3.3 | e.50 | .00 | 1.1 |
| 7 | 11 | e2.5 | e6.8 | e7.2 | e3.1 | e40 | 20 | 11 | 3.0 | .00 | e3.9 | .51 |
| 8 | 6.8 | e2.5 | e6.8 | e7.2 | e3.1 | e50 | 17 | 12 | e2.0 | .00 | 3.1 | 4.0 |
| 9 | 3.3 | e2.5 | e5.4 | e7.6 | e3.2 | e50 | 15 | 10 | e1.5 | e1.5 | e1.2 | 45 |
| 10 | 63 | e2.4 | e5.0 | e7.8 | e2.9 | e50 | 15 | 9.6 | 3.5 | e1.4 | e1.0 | 44 |
| 11 | 52 | e2.1 | e4.9 | e7.8 | e3.0 | e50 | 15 | 7.6 | e3.0 | .00 | e.50 | 24 |
| 12 | 14 | e7.0 | e5.6 | e7.8 | e3.0 | e25 | 14 | 7.1 | e1.0 | .00 | e6.0 | 20 |
| 13 | 20 | 9.9 | e6.0 | e7.6 | e3.3 | e15 | 14 | 6.5 | e.50 | .00 | 86 | 18 |
| 14 | 9.4 | 4.0 | e6.6 | e7.5 | e3.2 | 18 | 13 | 5.8 | e.30 | .00 | 19 | 16 |
| 15 | 6.6 | e3.7 | e7.0 | e6.8 | 23 | 20 | 11 | 5.3 | .00 | .00 | e3.7 | 9.0 |
| 16 | 5.4 | 3.8 | e7.8 | e7.0 | 96 | 18 | 12 | 7.9 | .00 | e1.9 | .20 | 6.9 |
| 17 | 5.2 | 4.8 | e7.5 | e7.1 | 99 | 21 | 11 | 9.4 | .00 | e.74 | e.05 | e5.0 |
| 18 | 4.7 | 6.7 | e8.0 | e7.4 | 90 | 20 | 11 | 7.3 | .00 | .00 | e.02 | e4.8 |
| 19 | 4.3 | e3.0 | e8.4 | e7.6 | 92 | 18 | 11 | 6.1 | .00 | .00 | .00 | e4.0 |
| 20 | e4.3 | 3.7 | e7.8 | e7.7 | 84 | 17 | 10 | 5.1 | .00 | e5.0 | .00 | e3.0 |
| 21 | e3.3 | e4.3 | e7.8 | e7.4 | 109 | 17 | 9.1 | 4.8 | .00 | 25 | e5.7 | e2.0 |
| 22 | e3.0 | e11 | e8.2 | e7.4 | 134 | 17 | 8.5 | 5.4 | .00 | 18 | .15 | e15 |
| 23 | e3.1 | e3.9 | e7.6 | e7.6 | 79 | 17 | 8.7 | 5.9 | .00 | 58 | .13 | e20 |
| 24 | e3.2 | e2.7 | e7.6 | e7.2 | 61 | 17 | 8.9 | 5.9 | .00 | 12 | .10 | e30 |
| 25 | e3.2 | e3.2 | e7.8 | e7.4 | 87 | 18 | 9.2 | 5.7 | .00 | 6.2 | .55 | e20 |
| 26 | e3.2 | e5.3 | e7.2 | e7.5 | e88 | 19 | 10 | 5.1 | .00 | e2.3 | 3.6 | e17 |
| 27 | e3.0 | e3.0 | e7.2 | e7.5 | e96 | 19 | 10 | 4.8 | .00 | e1.0 | e.09 | e10 |
| 28 | e2.6 | e2.0 | e7.2 | e7.6 | e100 | 19 | 8.7 | 4.8 | .00 | e.50 | e46 | e8.0 |
| 29 | e2.6 | e3.5 | e7.0 | e7.7 | --- | 18 | 8.0 | 5.1 | .00 | e.20 | 156 | e5.0 |
| 30 | e2.5 | e13 | e7.0 | e7.4 | --- | 18 | 7.5 | 5.3 | .00 | .00 | 42 | e3.0 |
| 31 | e2.6 | --- | e6.8 | e7.4 | --- | 26 | --- | 5.3 | --- | .00 | 29 | --- |
| TOTAL | 249.06 | 125.8 | 217.5 | 229.2 | 1300.3 | 887 | 471.6 | 212.6 | 42.80 | 155.24 | 407.99 | 372.61 |
| MEAN | 8.03 | 4.19 | 7.02 | 7.39 | 46.4 | 28.6 | 15.7 | 6.86 | 1.43 | 5.01 | 13.2 | 12.4 |
| MAX | 63 | 13 | 8.4 | 7.8 | 134 | 110 | 54 | 12 | 5.7 | 58 | 156 | 45 |
| MIN | .93 | 2.0 | 4.9 | 6.6 | 2.9 | 15 | 7.5 | 4.8 | .00 | .00 | .00 | .51 |
| ACFT | 494 | 250 | 431 | 455 | 2580 | 1760 | 935 | 422 | 85 | 308 | 809 | 739 |
| CAL YR 1985 | TOTAL | 2834.04 | MEAN | 7.76 | MAX | 63 | MIN | .00 | ACFT | 5620 | | |
| WTR YR 1986 | TOTAL | 4671.70 | MEAN | 12.8 | MAX | 156 | MIN | .00 | ACFT | 9270 | | |

e Estimated.

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 mi², 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 except for estimated daily discharges, which are fair. Diversions for irrigation of approximately 200,000 acres above station. No diversion between station and mouth of river. Flow regulated by Navajo Reservoir since June 28, 1962 (see station 09355100 in New Mexico report).

AVERAGE DISCHARGE.--72 years, 2,577 ft³/s, 1,867,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--1914-17, 1927-86; maximum discharge, 70,000 ft³/s Sept. 10, 1927, gage height, 32.0 ft from rating curve extended above 31,000 ft³/s and slope-area measurement at gage height 26.62 ft; no flow July 3-13, 1934, Aug. 24-27, 29, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 6, 1911, which is greatest known at Shiprock, NM, probably exceeded that of Sept. 10, 1927 at this station but stage was not accurately determined.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|-----------------------------------|---------------------|----------|------|-----------------------------------|---------------------|
| Apr. 3 | 1545 | 8,880 | 9.22 | July 23 | 1230 | 12,600 | 11.44 |
| June 28 | 1645 | 8,010 | 9.23 | Aug. 29 | 2030 | *13,600 | *12.03 |
| July 21 | 0700 | 11,700 | 11.21 | Sept. 10 | 0230 | 11,500 | 11.00 |

Minimum, 1,560 ft³/s Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 1 | 2270 | 3030 | 3830 | 3560 | 3380 | 2330 | 2800 | 3330 | 5060 | 7010 | 4020 | 3320 |
| 2 | 2070 | 3120 | 3640 | 3500 | 3440 | 2360 | 4060 | 3940 | 4870 | 6810 | 3840 | 3190 |
| 3 | 1810 | 3120 | 3430 | 3500 | 3430 | 2340 | 8000 | 4630 | 4920 | 6280 | 3760 | 2960 |
| 4 | 1740 | 3090 | 3350 | 3470 | 3390 | 2330 | 6450 | 5870 | 4910 | 5740 | 3700 | 2800 |
| 5 | 1710 | 3130 | 3390 | 3440 | 3350 | 2440 | 5400 | 7370 | 6100 | 5720 | 3590 | 2650 |
| 6 | 1650 | 3110 | 3330 | 3400 | 3360 | 2500 | 4570 | 7180 | 6640 | 6070 | 3500 | 2580 |
| 7 | 1660 | 3110 | 3300 | 3390 | 3360 | 2550 | 4170 | 6200 | 6630 | 6330 | 3360 | 2480 |
| 8 | 1610 | 3140 | 3280 | 3400 | 3390 | 2550 | 4060 | 5410 | 6920 | 5940 | 3310 | 2540 |
| 9 | 1730 | 3050 | 3240 | 3390 | 3310 | 2560 | 4180 | 4580 | 7160 | 5850 | 3280 | 3280 |
| 10 | 1850 | 3030 | 3190 | 3330 | 3290 | 2620 | 4210 | 3910 | 6680 | 5830 | 3240 | 7260 |
| 11 | 2610 | 3020 | 3230 | 3380 | 3240 | 2710 | 4190 | 3320 | 5870 | 6830 | 3250 | 6830 |
| 12 | 2960 | 3050 | 3110 | 3400 | 2770 | 2710 | 4070 | 2900 | 4780 | 6320 | 3220 | 5820 |
| 13 | 2490 | 3090 | 3290 | 3400 | 2150 | 2700 | 4040 | 2750 | 4420 | 5720 | 2680 | 3900 |
| 14 | 2770 | 3160 | 3270 | 3390 | 1980 | 2680 | 3920 | 2680 | 4910 | 5360 | 2600 | 3500 |
| 15 | 2300 | 3110 | 3300 | 3400 | 2050 | 2550 | 3770 | 2790 | 5580 | 5170 | e2510 | 3300 |
| 16 | 2150 | 3030 | 3330 | 3340 | 2200 | 2570 | 3650 | 3030 | 5770 | 5630 | e2400 | 3050 |
| 17 | 2080 | 3080 | 3350 | 3380 | 2360 | 2620 | 3550 | 3160 | 5690 | 6260 | e2280 | 2960 |
| 18 | 1960 | 3160 | 3340 | 3350 | 2410 | 2780 | 3630 | 3040 | 5520 | 5030 | e2160 | 2900 |
| 19 | 2050 | 3200 | 3390 | 3360 | 2280 | 2760 | 3720 | 2890 | 5420 | 3910 | e2040 | 2800 |
| 20 | 2060 | 3130 | 3460 | 3360 | 2320 | 2550 | 3580 | 2720 | 5960 | 5110 | e1900 | 2730 |
| 21 | 1880 | 3120 | 2880 | 3320 | 2530 | 2500 | 3390 | 2990 | 6390 | 8430 | 1750 | 2710 |
| 22 | 1810 | 3190 | 3420 | 3300 | 2580 | 2460 | 3270 | 3730 | 6220 | 6250 | 1780 | 2700 |
| 23 | 1750 | 3180 | 3480 | 3320 | 2380 | 2540 | 3060 | 4080 | 6130 | 9920 | 1800 | 2710 |
| 24 | 1720 | 3150 | 3510 | 3290 | 2250 | 2580 | 3330 | 4200 | 5900 | 10500 | 1950 | 4200 |
| 25 | 1720 | 3190 | 3510 | 3270 | 2180 | 2600 | 3900 | 4540 | 5820 | 8760 | 2920 | 6320 |
| 26 | 1750 | 3380 | 3520 | 3260 | 2170 | 2640 | 3880 | 4600 | 5760 | 5890 | 3780 | 4940 |
| 27 | 1710 | 3690 | 3490 | 3300 | 2230 | 2640 | 3860 | 4760 | 6300 | 5370 | 3630 | 4580 |
| 28 | 1700 | 3630 | 3480 | 3320 | 2260 | 2450 | 3660 | 5400 | 7410 | 5090 | 3680 | 3910 |
| 29 | 1690 | 3420 | 3490 | 3330 | --- | 2440 | 3400 | 5750 | 7280 | 4900 | 5510 | 3570 |
| 30 | 1650 | 4080 | 3500 | 3380 | --- | 2570 | 3180 | 5790 | 7110 | 4610 | 6290 | 3510 |
| 31 | 2210 | --- | 3560 | 3360 | --- | 2710 | --- | 5580 | --- | 4280 | 5160 | --- |
| TOTAL | 61120 | 95990 | 104890 | 104590 | 76040 | 79340 | 120950 | 133120 | 178130 | 190920 | 98890 | 110000 |
| MEAN | 1972 | 3200 | 3384 | 3374 | 2716 | 2559 | 4032 | 4294 | 5938 | 6159 | 3190 | 3667 |
| MAX | 2960 | 4080 | 3830 | 3560 | 3440 | 2780 | 8000 | 7370 | 7410 | 10500 | 6290 | 7260 |
| MIN | 1610 | 3020 | 2880 | 3260 | 1980 | 2330 | 2800 | 2680 | 4420 | 3910 | 1750 | 2480 |
| ACFT | 121200 | 190400 | 208000 | 207500 | 150800 | 157400 | 239900 | 264000 | 353300 | 378700 | 196100 | 218200 |
| CAL YR 1985 | TOTAL | 1464955 | | MEAN | 4014 | MAX | 12200 | MIN | 871 | ACFT | 2906000 | |
| WTR YR 1986 | TOTAL | 1353980 | | MEAN | 3710 | MAX | 10500 | MIN | 1610 | ACFT | 2686000 | |

e Estimated.

SAN JUAN RIVER BASIN

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 microsiemens Sept. 19, 1959; minimum daily, 208 microsiemens 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, 1,160 microsiemens Aug. 27; minimum recorded, 260 microsiemens June 10.

WATER TEMPERATURES: Maximum recorded, 24.8°C Aug. 21, 22; minimum observed, 2.0°C Dec. 19.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | PH (STAND- ARD UNITS) | TEMPER- ATURE, AIR (DEG C) | TEMPER- ATURE (DEG C) | TUR- BID- ITY (NTU) | OXYGEN, DIS- SOLVED (MG/L) | BARO- METRIC PRES- SURE (MM HG) | COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) | STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) |
|----------|------|---|---|--------------------------------|-------------------------------------|-----------------------------|------------------------------|-------------------------------------|--|--|--|
| OCT 1985 | | | | | | | | | | | |
| 23... | 1200 | 1710 | 710 | 8.50 | 16.0 | 12.0 | -- | 10.1 | 660 | -- | -- |
| NOV | | | | | | | | | | | |
| 21... | 1200 | 3190 | 490 | 8.20 | 7.0 | 3.5 | 31 | 12.2 | 660 | <1 | <1 |
| DEC | | | | | | | | | | | |
| 19... | 1100 | 3460 | 420 | 8.20 | 7.0 | 2.0 | -- | 12.5 | 660 | -- | -- |
| JAN 1986 | | | | | | | | | | | |
| 16... | 0930 | 3300 | 420 | 8.30 | 11.0 | 3.0 | -- | 12.5 | 660 | -- | -- |
| FEB | | | | | | | | | | | |
| 18... | 1230 | 2460 | 1050 | 8.40 | 16.5 | 7.0 | 790 | 10.7 | 660 | <1 | <1 |
| MAR | | | | | | | | | | | |
| 20... | 1130 | 2570 | 690 | 8.20 | 16.0 | 8.0 | -- | 12.8 | 660 | -- | -- |
| APR | | | | | | | | | | | |
| 22... | 1145 | 3230 | 610 | 8.20 | 25.0 | 15.0 | -- | -- | 661 | -- | -- |
| MAY | | | | | | | | | | | |
| 22... | 1145 | 3670 | 470 | 8.50 | 22.0 | 16.0 | 140 | 8.3 | 660 | <1 | <1 |
| JUN | | | | | | | | | | | |
| 24... | 1040 | 5700 | 290 | 8.20 | 29.5 | 17.5 | -- | 8.0 | 660 | -- | -- |
| JUL | | | | | | | | | | | |
| 22... | 1115 | 5720 | 890 | 7.90 | 29.0 | 20.0 | -- | 8.2 | 660 | -- | -- |
| AUG | | | | | | | | | | | |
| 20... | 1130 | 1880 | 480 | 8.30 | 35.5 | 23.5 | 42 | 7.8 | 660 | <1 | <1 |
| SEP | | | | | | | | | | | |
| 24... | 1000 | 3520 | 550 | 8.20 | 15.0 | 14.0 | -- | 8.3 | 650 | -- | -- |

SAN JUAN RIVER BASIN

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09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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) | BICAR- BONATE IT-FLD (MG/L AS HCO3) | CAR- BONATE IT-FLD (MG/L AS CO3) |
|----------|--|---|--|--|--|-------------------|---|---|--|---|
| OCT 1985 | | | | | | | | | | |
| 23... | 250 | 246 | 67 | 19 | 43 | 27 | 1 | 2.6 | -- | -- |
| NOV | | | | | | | | | | |
| 21... | 190 | 188 | 52 | 14 | 28 | 24 | 0.9 | 2.0 | 125 | -- |
| DEC | | | | | | | | | | |
| 19... | 170 | 170 | 45 | 14 | 27 | 25 | 0.9 | 1.9 | -- | -- |
| JAN 1986 | | | | | | | | | | |
| 16... | 160 | 159 | 44 | 12 | 25 | 25 | 0.9 | 1.8 | -- | -- |
| FEB | | | | | | | | | | |
| 18... | -- | -- | -- | 39 | -- | -- | -- | -- | 188 | 39 |
| MAR | | | | | | | | | | |
| 20... | 240 | 239 | 61 | 21 | 48 | 30 | 1 | 2.3 | -- | -- |
| APR | | | | | | | | | | |
| 22... | -- | -- | 56 | -- | 30 | -- | -- | 2.1 | -- | -- |
| MAY | | | | | | | | | | |
| 22... | 180 | 178 | 50 | 13 | 25 | 23 | 0.8 | 1.7 | 100 | 12 |
| JUN | | | | | | | | | | |
| 24... | 110 | 113 | 33 | 7.5 | 13 | 20 | 0.6 | 1.6 | -- | -- |
| JUL | | | | | | | | | | |
| 22... | 220 | 220 | 70 | 11 | 95 | 48 | 3 | 4.8 | -- | -- |
| AUG | | | | | | | | | | |
| 20... | 170 | 172 | 49 | 12 | 28 | 26 | 1 | 2.6 | 118 | 2.0 |
| SEP | | | | | | | | | | |
| 24... | 220 | 219 | 63 | 15 | 31 | 23 | 0.9 | 2.6 | -- | -- |

| DATE | ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CACO3) | SULFATE DIS- SOLVED (MG/L AS SO4) | CHLO- RIDE, DIS- SOLVED (MG/L AS CL) | FLUO- RIDE, DIS- SOLVED (MG/L AS F) | SILICA, DIS- SOLVED (MG/L AS SiO2) | SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) | SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) | SOLIDS, DIS- SOLVED (TONS PER AC-FT) | SOLIDS, DIS- SOLVED (TONS PER DAY) | NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) |
|----------|---|---|---|--|---|--|---|---|---|---|
| OCT 1985 | | | | | | | | | | |
| 23... | -- | 210 | 13 | 0.3 | 9.2 | -- | 420 | 0.58 | 1960 | -- |
| NOV | | | | | | | | | | |
| 21... | 102 | 130 | 10 | 0.2 | 11 | 304 | 310 | 0.41 | 2620 | <0.00 |
| DEC | | | | | | | | | | |
| 19... | -- | 120 | 7.6 | 0.2 | 11 | -- | 280 | 0.38 | 2640 | -- |
| JAN 1986 | | | | | | | | | | |
| 16... | -- | 120 | 7.3 | 0.2 | 11 | -- | 280 | 0.37 | 2450 | -- |
| FEB | | | | | | | | | | |
| 18... | 138 | 400 | -- | -- | 9.6 | 739 | -- | -- | -- | <0.01 |
| MAR | | | | | | | | | | |
| 20... | -- | 210 | 16 | 0.3 | 9.1 | -- | 440 | 0.59 | 3030 | -- |
| APR | | | | | | | | | | |
| 22... | -- | 160 | 8.0 | 0.3 | 9.5 | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | |
| 22... | 102 | 110 | 6.7 | 0.2 | 7.8 | 301 | 290 | 0.41 | 2980 | <0.01 |
| JUN | | | | | | | | | | |
| 24... | -- | 65 | 4.0 | 0.2 | 7.7 | -- | 180 | 0.24 | 2720 | -- |
| JUL | | | | | | | | | | |
| 22... | -- | 300 | 11 | 0.5 | 9.6 | -- | 580 | 0.79 | 9020 | -- |
| AUG | | | | | | | | | | |
| 20... | 100 | 130 | 7.9 | 0.3 | 9.6 | 320 | 300 | 0.44 | 1620 | <0.01 |
| SEP | | | | | | | | | | |
| 24... | -- | 170 | 8.3 | 0.2 | 9.7 | -- | 370 | 0.5 | 3480 | -- |

SAN JUAN RIVER BASIN

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | 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) | NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) | PHOS- PHORUS, TOTAL (MG/L AS P) | 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 1985 | | | | | | | | | | |
| 23... | 0.00 | -- | -- | -- | -- | -- | -- | -- | 0.00 | -- |
| NOV | | | | | | | | | | |
| 21... | 0.00 | 0.10 | 0.00 | -- | 0.4 | 0.5 | 0.04 | 0.02 | 0.00 | -- |
| DEC | | | | | | | | | | |
| 19... | 0.19 | -- | -- | -- | -- | -- | -- | -- | 0.02 | 0.06 |
| JAN 1986 | | | | | | | | | | |
| 16... | 0.17 | -- | -- | -- | -- | -- | -- | -- | 0.02 | 0.06 |
| FEB | | | | | | | | | | |
| 18... | 0.72 | 0.05 | 0.05 | 0.06 | 2.0 | 2.1 | 0.24 | 0.03 | 0.02 | 0.06 |
| MAR | | | | | | | | | | |
| 20... | 0.31 | -- | -- | -- | -- | -- | -- | 0.03 | -- | -- |
| APR | | | | | | | | | | |
| 22... | 0.20 | -- | -- | -- | -- | -- | -- | -- | 0.02 | 0.06 |
| MAY | | | | | | | | | | |
| 22... | 0.13 | 0.01 | <0.01 | -- | 0.79 | 0.8 | 0.19 | 0.02 | 0.01 | 0.03 |
| JUN | | | | | | | | | | |
| 24... | 0.11 | -- | -- | -- | -- | -- | -- | -- | 0.01 | 0.03 |
| JUL | | | | | | | | | | |
| 22... | 1.10 | -- | -- | -- | -- | -- | -- | -- | 0.01 | 0.03 |
| AUG | | | | | | | | | | |
| 20... | <0.10 | 0.03 | <0.01 | -- | 0.57 | 0.6 | 0.07 | 0.05 | <0.01 | -- |
| SEP | | | | | | | | | | |
| 24... | 0.22 | -- | -- | -- | -- | -- | -- | -- | 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 1985 | | | | | | | | | | | |
| 21... | 1200 | 10 | <1 | 75 | <0.5 | <1 | <1 | <3 | 1 | 20 | <1 |
| FEB 1986 | | | | | | | | | | | |
| 18... | 1230 | <10 | 1 | -- | <0.5 | <1 | <1 | <3 | -- | -- | -- |

| 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 1985 | | | | | | | | | | |
| 21... | 20 | 1 | <0.1 | <10 | <1 | 1 | <1 | 590 | <6 | 34 |
| FEB 1986 | | | | | | | | | | |
| 18... | 41 | 2 | <1.0 | -- | 2 | 4 | <1 | 1400 | <6 | 12 |

| DATE | TIME | BORON, DIS- SOLVED (UG/L AS B) |
|----------|------|--|
| OCT 1985 | | |
| 23... | 1200 | 60 |
| DEC | | |
| 19... | 1100 | 50 |
| JAN 1986 | | |
| 16... | 0930 | 60 |
| MAR | | |
| 20... | 1130 | 60 |
| APR | | |
| 22... | 1145 | 30 |
| JUN | | |
| 24... | 1040 | 20 |
| JUL | | |
| 22... | 1115 | 70 |
| SEP | | |
| 24... | 1000 | 40 |

SAN JUAN RIVER BASIN

175

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|----------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
| | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
| 1 | 510 | 500 | 505 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 510 | 500 | 506 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | 558 | 510 | 530 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | 580 | 550 | 567 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | 580 | 570 | 575 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | 590 | 570 | 576 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 590 | 570 | 578 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 590 | 560 | 577 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | 610 | 580 | 594 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | 750 | 560 | 646 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | 600 | 550 | 578 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | 649 | 550 | 584 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | 670 | 640 | 657 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | 650 | 500 | 556 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | 549 | 510 | 522 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | 550 | 520 | 532 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17 | 530 | 500 | 512 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18 | 510 | 500 | 505 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19 | 510 | 490 | 500 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20 | 520 | 500 | 513 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | 530 | 520 | 523 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22 | 520 | 510 | 516 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 26 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 28 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 600 | 560 | 582 |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 570 | 490 | 532 |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 500 | 460 | 474 |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 460 | 430 | 438 |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 440 | 380 | 410 |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 380 | 350 | 364 |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 370 | 360 | 362 |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 430 | 370 | 392 |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 490 | 430 | 460 |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 520 | 490 | 503 |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 550 | 520 | 528 |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 580 | 550 | 560 |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 590 | 560 | 575 |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 570 | 550 | 562 |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 560 | 530 | 547 |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 800 | 520 | 571 |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 620 | 520 | 549 |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 542 | 520 | 536 |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 580 | 550 | 570 |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 590 | 570 | 580 |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 580 | 550 | 569 |
| 22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 580 | 430 | 493 |
| 23 | --- | --- | --- | --- | --- | --- | 630 | 590 | 609 | 430 | 370 | 389 |
| 24 | --- | --- | --- | --- | --- | --- | 650 | 611 | 638 | 370 | 360 | 363 |
| 25 | --- | --- | --- | --- | --- | --- | 610 | 540 | 572 | 370 | 350 | 355 |
| 26 | --- | --- | --- | --- | --- | --- | 540 | 520 | 530 | 350 | 330 | 338 |
| 27 | --- | --- | --- | --- | --- | --- | 530 | 520 | 523 | 350 | 340 | 342 |
| 28 | --- | --- | --- | --- | --- | --- | 570 | 530 | 552 | 350 | 300 | 327 |
| 29 | --- | --- | --- | --- | --- | --- | 598 | 550 | 568 | 310 | 290 | 299 |
| 30 | --- | --- | --- | --- | --- | --- | 630 | 590 | 612 | 300 | 290 | 294 |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 300 | 280 | 289 |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | 800 | 280 | 457 |

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|------|-----|------|------|-----|------|--------|------|------|-----------|------|------|
| | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
| 1 | 318 | 290 | 303 | 320 | 290 | 305 | 400 | 380 | 391 | 1100 | 1070 | 1080 |
| 2 | 350 | 320 | 333 | 350 | 310 | 329 | 410 | 390 | 399 | 1110 | 1090 | 1100 |
| 3 | 350 | 340 | 347 | 350 | 340 | 345 | 400 | 390 | 393 | 1120 | 1110 | 1110 |
| 4 | 370 | 340 | 354 | 680 | 340 | 394 | 400 | 390 | 394 | 1130 | 1110 | 1120 |
| 5 | 430 | 350 | 376 | 390 | 330 | 343 | 390 | 370 | 386 | 1140 | 1120 | 1120 |
| 6 | 370 | 320 | 337 | 380 | 340 | 364 | 390 | 380 | 386 | 1140 | 1110 | 1120 |
| 7 | 320 | 290 | 298 | 410 | 370 | 380 | 400 | 390 | 394 | 1120 | 1100 | 1110 |
| 8 | 310 | 280 | 289 | 370 | 330 | 338 | 410 | 390 | 395 | 1100 | 1080 | 1090 |
| 9 | 290 | 270 | 276 | 440 | 330 | 355 | 410 | 390 | 397 | 1110 | 1090 | 1100 |
| 10 | 290 | 260 | 273 | 400 | 350 | 375 | 400 | 380 | 389 | 1100 | 1050 | 1080 |
| 11 | 310 | 290 | 296 | 410 | 340 | 382 | 390 | 380 | 382 | 1050 | 870 | 955 |
| 12 | 360 | 310 | 331 | 340 | 310 | 325 | 390 | 380 | 381 | 870 | 702 | 739 |
| 13 | 380 | 360 | 366 | 340 | 320 | 328 | 400 | 380 | 391 | 710 | 690 | 699 |
| 14 | 380 | 336 | 363 | 350 | 330 | 337 | 620 | 400 | 503 | 690 | 670 | 680 |
| 15 | 340 | 290 | 314 | 350 | 330 | 341 | 710 | 500 | 563 | 670 | 640 | 655 |
| 16 | 300 | 280 | 284 | 1000 | 340 | 438 | 570 | 510 | 541 | 640 | 630 | 634 |
| 17 | 290 | 270 | 276 | 620 | 360 | 446 | 510 | 480 | 502 | 640 | 630 | 632 |
| 18 | 280 | 270 | 273 | 519 | 460 | 481 | 500 | 470 | 485 | 630 | 600 | 610 |
| 19 | 290 | 280 | 281 | 710 | 460 | 520 | 500 | 470 | 488 | 600 | 590 | 594 |
| 20 | 290 | 280 | 287 | 610 | 450 | 496 | 560 | 470 | 486 | 590 | 580 | 589 |
| 21 | 290 | 270 | 277 | 1150 | 510 | 949 | 730 | 480 | 529 | 590 | 580 | 584 |
| 22 | 290 | 280 | 283 | 920 | 710 | 820 | 540 | 510 | 523 | 590 | 570 | 577 |
| 23 | 290 | 280 | 284 | 1150 | 650 | 795 | 610 | 520 | 552 | 680 | 550 | 572 |
| 24 | 290 | 280 | 283 | 1150 | 590 | 791 | 580 | 530 | 553 | 1070 | 450 | 683 |
| 25 | 300 | 280 | 290 | 930 | 680 | 793 | 720 | 520 | 569 | 1050 | 560 | 806 |
| 26 | 330 | 290 | 308 | 710 | 440 | 518 | 740 | 560 | 649 | 820 | 610 | 716 |
| 27 | 779 | 330 | 433 | 440 | 410 | 424 | 1160 | 610 | 830 | 610 | 530 | 560 |
| 28 | 780 | 390 | 472 | 420 | 400 | 407 | 860 | 710 | 774 | 610 | 530 | 574 |
| 29 | 390 | 320 | 361 | 400 | 380 | 388 | 1000 | 770 | 853 | 580 | 540 | 561 |
| 30 | 320 | 310 | 316 | 390 | 380 | 382 | 1040 | 1000 | 1010 | 540 | 510 | 519 |
| 31 | --- | --- | --- | 400 | 370 | 384 | 1080 | 1030 | 1050 | --- | --- | --- |
| MONTH | 780 | 260 | 319 | 1150 | 290 | 460 | 1160 | 370 | 533 | 1140 | 450 | 790 |

TEMPERATURE, WATER (DEG.C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

[illegible]

SAN JUAN RIVER BASIN

177

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|----------|------|------|-------|------|------|--------|------|------|-----------|------|------|
| | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.0 | 15.6 | 16.9 |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 17.8 | 16.3 | 17.3 |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 17.9 | 15.7 | 16.9 |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 17.4 | 14.9 | 16.2 |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 15.4 | 13.1 | 14.3 |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 14.4 | 12.0 | 13.0 |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 11.8 | 10.8 | 11.4 |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 11.7 | 10.2 | 11.1 |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 12.7 | 10.1 | 11.5 |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 14.0 | 10.9 | 12.5 |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 15.6 | 12.2 | 14.0 |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 17.2 | 14.0 | 15.7 |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.3 | 15.3 | 16.9 |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.0 | 16.3 | 17.3 |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 17.5 | 16.4 | 16.9 |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 16.4 | 15.0 | 15.6 |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 15.8 | 13.3 | 14.7 |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 17.0 | 13.9 | 15.6 |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.9 | 15.4 | 17.2 |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 19.7 | 17.2 | 18.6 |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.7 | 16.8 | 17.5 |
| 22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.0 | 15.3 | 16.7 |
| 23 | --- | --- | --- | --- | --- | --- | 15.9 | 13.9 | 14.8 | 18.0 | 15.8 | 17.0 |
| 24 | --- | --- | --- | --- | --- | --- | 15.3 | 13.6 | 14.4 | 17.9 | 15.7 | 16.9 |
| 25 | --- | --- | --- | --- | --- | --- | 14.0 | 13.0 | 13.4 | 18.5 | 15.7 | 17.2 |
| 26 | --- | --- | --- | --- | --- | --- | 13.3 | 12.0 | 12.6 | 18.9 | 15.9 | 17.6 |
| 27 | --- | --- | --- | --- | --- | --- | 12.5 | 10.5 | 11.7 | 19.1 | 16.4 | 17.9 |
| 28 | --- | --- | --- | --- | --- | --- | 14.1 | 10.8 | 12.6 | 19.1 | 16.6 | 17.9 |
| 29 | --- | --- | --- | --- | --- | --- | 15.4 | 12.7 | 14.2 | 18.7 | 16.6 | 17.8 |
| 30 | --- | --- | --- | --- | --- | --- | 17.0 | 14.3 | 15.8 | 18.5 | 16.2 | 17.5 |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18.8 | 15.8 | 17.3 |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | 19.7 | 10.1 | 16.0 |
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
| 1 | 18.4 | 16.4 | 17.5 | 19.1 | 17.3 | 18.2 | 22.4 | 19.6 | 21.2 | 21.3 | 19.1 | 20.3 |
| 2 | 19.1 | 16.3 | 17.7 | 20.6 | 17.7 | 19.0 | 22.7 | 20.0 | 21.5 | 21.0 | 19.3 | 20.2 |
| 3 | 20.1 | 17.0 | 18.6 | 20.5 | 19.2 | 19.9 | 22.8 | 20.5 | 21.8 | 20.4 | 18.8 | 19.8 |
| 4 | 20.7 | 18.1 | 19.5 | 20.9 | 19.4 | 20.1 | 23.0 | 20.4 | 21.9 | 20.4 | 19.1 | 19.8 |
| 5 | 19.9 | 17.8 | 18.9 | 20.1 | 18.3 | 19.3 | 22.9 | 20.7 | 21.4 | 20.7 | 19.4 | 20.1 |
| 6 | 19.1 | 16.7 | 18.0 | 19.8 | 17.3 | 18.6 | 22.1 | 19.2 | 20.5 | 20.9 | 19.6 | 20.3 |
| 7 | 19.3 | 17.1 | 18.2 | 19.3 | 18.0 | 18.6 | 22.9 | 20.4 | 21.7 | 20.9 | 19.7 | 20.2 |
| 8 | 18.5 | 16.8 | 17.7 | 19.1 | 17.7 | 18.3 | 23.0 | 20.9 | 22.2 | 20.4 | 19.6 | 20.0 |
| 9 | 17.3 | 15.5 | 16.3 | 20.3 | 17.0 | 18.6 | 22.9 | 21.1 | 22.1 | 19.6 | 18.4 | 19.3 |
| 10 | 17.0 | 14.9 | 16.0 | 20.2 | 17.9 | 19.2 | 22.1 | 20.2 | 21.0 | 18.3 | 13.3 | 15.3 |
| 11 | 18.5 | 15.4 | 16.9 | 20.0 | 18.0 | 19.1 | 22.1 | 19.9 | 21.1 | 16.8 | 14.7 | 15.8 |
| 12 | 19.8 | 16.2 | 18.0 | 20.4 | 17.9 | 19.2 | 22.4 | 20.9 | 21.7 | 16.6 | 14.4 | 15.5 |
| 13 | 20.8 | 17.9 | 19.4 | 21.3 | 18.4 | 19.8 | 23.1 | 21.1 | 22.3 | 16.8 | 15.4 | 16.1 |
| 14 | 20.7 | 18.3 | 19.7 | 21.2 | 19.0 | 20.2 | 22.8 | 20.0 | 21.4 | 17.2 | 15.0 | 16.2 |
| 15 | 20.6 | 17.9 | 19.4 | 20.7 | 19.4 | 20.2 | 22.6 | 20.9 | 21.8 | 17.7 | 15.7 | 16.9 |
| 16 | 20.4 | 17.6 | 19.1 | 20.4 | 18.7 | 19.3 | 23.5 | 21.6 | 22.6 | 17.8 | 15.9 | 16.9 |
| 17 | 20.6 | 18.1 | 19.5 | 20.4 | 17.9 | 19.0 | 23.9 | 22.5 | 23.2 | 17.5 | 15.8 | 16.6 |
| 18 | 21.1 | 18.5 | 19.8 | 21.5 | 18.2 | 19.8 | 24.0 | 23.1 | 23.6 | 16.8 | 15.2 | 15.9 |
| 19 | 21.6 | 18.8 | 20.2 | 22.7 | 20.7 | 21.7 | 24.2 | 23.1 | 23.7 | 15.8 | 14.5 | 15.2 |
| 20 | 21.0 | 18.8 | 20.1 | 22.4 | 20.8 | 21.7 | 24.6 | 23.2 | 24.0 | 15.8 | 14.4 | 15.2 |
| 21 | 20.2 | 17.9 | 19.2 | 21.6 | 18.8 | 19.9 | 24.8 | 23.0 | 24.1 | 16.6 | 15.1 | 15.9 |
| 22 | 19.9 | 17.2 | 18.7 | 20.6 | 19.0 | 19.8 | 24.8 | 23.0 | 24.1 | 16.6 | 15.8 | 16.0 |
| 23 | 20.0 | 17.3 | 18.7 | 20.0 | 17.6 | 18.6 | 24.3 | 22.9 | 23.4 | 15.9 | 15.4 | 15.7 |
| 24 | 19.2 | 17.2 | 18.1 | 19.8 | 17.4 | 18.6 | 23.1 | 21.5 | 22.2 | 15.5 | 13.4 | 14.2 |
| 25 | 17.9 | 16.5 | 17.1 | 20.0 | 18.8 | 19.4 | 23.0 | 21.5 | 22.3 | 13.4 | 12.2 | 12.8 |
| 26 | 19.0 | 15.2 | 17.0 | 20.8 | 19.0 | 19.9 | 22.6 | 20.9 | 22.0 | 13.4 | 12.0 | 12.7 |
| 27 | 19.8 | 16.8 | 18.3 | 20.3 | 18.3 | 19.4 | 22.7 | 20.7 | 21.7 | 13.8 | 11.9 | 12.9 |
| 28 | 20.4 | 18.4 | 19.4 | 20.7 | 18.1 | 19.4 | 22.6 | 20.6 | 21.3 | 14.1 | 12.9 | 13.6 |
| 29 | 19.6 | 18.8 | 19.2 | 21.0 | 18.2 | 19.7 | 21.3 | 18.3 | 20.7 | 14.1 | 13.1 | 13.7 |
| 30 | 19.3 | 18.0 | 18.6 | 21.1 | 18.4 | 19.9 | 21.4 | 18.3 | 20.0 | 14.6 | 13.1 | 13.8 |
| 31 | --- | --- | --- | 21.9 | 18.6 | 20.3 | 20.9 | 18.9 | 20.1 | --- | --- | --- |
| MONTH | 21.6 | 14.9 | 18.5 | 22.7 | 17.0 | 19.5 | 24.8 | 18.3 | 22.0 | 21.3 | 11.9 | 16.6 |

SAN JUAN RIVER BASIN

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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 1985 | | | | | | |
| 23... | 1200 | 1710 | 12.0 | -- | 1320 | 6090 |
| NOV | | | | | | |
| 21... | 1200 | 3190 | 3.5 | 87 | 140 | 1210 |
| DEC | | | | | | |
| 19... | 1100 | 3460 | 2.0 | -- | 97 | 906 |
| JAN 1986 | | | | | | |
| 16... | 0930 | 3300 | 3.0 | -- | 77 | 686 |
| FEB | | | | | | |
| 18... | 1230 | 2460 | 7.0 | 95 | 1860 | 12400 |
| MAR | | | | | | |
| 20... | 1130 | 2570 | 8.0 | -- | 474 | 3290 |
| APR | | | | | | |
| 22... | 1145 | 3230 | 15.0 | -- | 327 | 2850 |
| MAY | | | | | | |
| 22... | 1145 | 3670 | 16.0 | 52 | 1240 | 12300 |
| JUN | | | | | | |
| 24... | 1040 | 5700 | 17.5 | -- | 124 | 1910 |
| JUL | | | | | | |
| 22... | 1115 | 5720 | 20.0 | -- | 26800 | 414000 |
| AUG | | | | | | |
| 20... | 1130 | 1880 | 23.5 | 61 | 173 | 878 |
| SEP | | | | | | |
| 24... | 1000 | 3520 | 14.0 | -- | 10300 | 97900 |

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 mi², approximately, including 3,959 mi² 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 provided 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, 25,004,000 acre-ft July 27, elevation, 3,700.02 ft; minimum, 22,015,000 acre-ft Mar. 31, elevation, 3,680.68 ft.

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

| | | | |
|-------|------------|-------|------------|
| 3,680 | 21,916,000 | 3,695 | 24,204,000 |
| 3,685 | 22,662,000 | 3,700 | 25,002,000 |
| 3,690 | 23,424,000 | 3,701 | 25,164,000 |

RESERVOIR STORAGE, IN THOUSANDS OF ACRE-FEET, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
INSTANTANEOUS OBSERVATIONS AT 2400

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | 22760 | 22847 | 22903 | 22997 | 22733 | 22446 | 22024 | 22238 | 22703 | 24233 | 24927 | 24137 |
| 2 | 22762 | 22845 | 22907 | 23002 | 22714 | 22440 | 22017 | 22262 | 22729 | 24279 | 24904 | 24115 |
| 3 | 22762 | 22857 | 22913 | 22996 | 22698 | 22425 | 22045 | 22281 | 22788 | 24314 | 24875 | 24083 |
| 4 | 22760 | 22857 | 22926 | 22997 | 22683 | 22411 | 22072 | 22310 | 22813 | 24353 | 24872 | 24060 |
| 5 | 22760 | 22857 | 22926 | 22996 | 22659 | 22396 | 22098 | 22359 | 22876 | 24393 | 24869 | 24033 |
| 6 | 22763 | 22857 | 22926 | 23005 | 22649 | 22383 | 22113 | 22410 | 22936 | 24431 | 24846 | 23997 |
| 7 | 22759 | 22853 | 22941 | 23002 | 22626 | 22366 | 22125 | 22495 | 23000 | 24475 | 24843 | 23967 |
| 8 | 22766 | 22851 | 22944 | 22999 | 22605 | 22343 | 22133 | 22539 | 23066 | 24506 | 24832 | 23934 |
| 9 | 22759 | 22851 | 22951 | 22999 | 22582 | 22338 | 22143 | 22570 | 23160 | 24534 | 24800 | 23925 |
| 10 | 22771 | 22848 | 22955 | 22986 | 22569 | 22326 | 22137 | 22596 | 23242 | 24568 | 24774 | 23881 |
| 11 | 22782 | 22844 | 22941 | 22990 | 22543 | 22305 | 22136 | 22602 | 23331 | 24603 | 24739 | 23853 |
| 12 | 22791 | 22835 | 22926 | 22991 | 22530 | 22292 | 22137 | 22602 | 23408 | 24648 | 24712 | 23827 |
| 13 | 22812 | 22835 | 22918 | 22991 | 22516 | 22277 | 22136 | 22596 | 23473 | 24699 | 24684 | 23800 |
| 14 | 22822 | 22835 | 22918 | 22991 | 22500 | 22313 | 22136 | 22591 | 23527 | 24737 | 24649 | 23764 |
| 15 | 22833 | 22830 | 22929 | 22985 | 22486 | 22284 | 22128 | 22585 | 23586 | 24784 | 24635 | 23738 |
| 16 | 22841 | 22833 | 22923 | 22973 | 22470 | 22260 | 22141 | 22563 | 23635 | 24803 | 24595 | 23705 |
| 17 | 22847 | 22839 | 22923 | 22953 | 22458 | 22252 | 22140 | 22548 | 23691 | 24835 | 24563 | 23676 |
| 18 | 22850 | 22833 | 22913 | 22942 | 22446 | 22234 | 22137 | 22546 | 23730 | 24856 | 24531 | 23641 |
| 19 | 22859 | 22833 | 22918 | 22938 | 22428 | 22217 | 22136 | 22537 | 23778 | 24898 | 24488 | 23604 |
| 20 | 22865 | 22829 | 22918 | 22932 | 22425 | 22199 | 22146 | 22524 | 23823 | 24919 | 24464 | 23575 |
| 21 | 22860 | 22822 | 22918 | 22923 | 22420 | 22182 | 22147 | 22534 | 23872 | 24962 | 24426 | 23536 |
| 22 | 22865 | 22824 | 22938 | 22913 | 22425 | 22164 | 22146 | 22527 | 23917 | 24964 | 24406 | 23513 |
| 23 | 22869 | 22822 | 22945 | 22903 | 22446 | 22146 | 22138 | 22524 | 23961 | 24978 | 24363 | 23486 |
| 24 | 22869 | 22819 | 22945 | 22880 | 22453 | 22118 | 22140 | 22530 | 24005 | 24991 | 24330 | 23473 |
| 25 | 22869 | 22830 | 22965 | 22856 | 22455 | 22104 | 22140 | 22546 | 24036 | 24996 | 24295 | 23448 |
| 26 | 22869 | 22829 | 22976 | 22833 | 22450 | 22081 | 22140 | 22564 | 24069 | 24986 | 24268 | 23437 |
| 27 | 22869 | 22839 | 22976 | 22809 | 22450 | 22064 | 22152 | 22579 | 24109 | 25004 | 24238 | 23417 |
| 28 | 22862 | 22857 | 22976 | 22783 | 22446 | 22051 | 22174 | 22600 | 24135 | 25001 | 24231 | 23408 |
| 29 | 22853 | 22874 | 22979 | 22771 | --- | 22041 | 22193 | 22615 | 24162 | 24983 | 24209 | 23389 |
| 30 | 22850 | 22883 | 22986 | 22754 | --- | 22027 | 22220 | 22652 | 24201 | 24973 | 24189 | 23365 |
| 31 | 22847 | --- | 22993 | 22750 | --- | 22015 | --- | 22674 | --- | 24954 | 24159 | --- |
| MAX | 22869 | 22883 | 22993 | 23005 | 22733 | 22446 | 22220 | 22674 | 24201 | 25004 | 24927 | 24137 |
| MIN | 22759 | 22819 | 22903 | 22750 | 22420 | 22015 | 22017 | 22238 | 22703 | 24233 | 24159 | 23365 |
| (#) | 3686.23 | 3686.47 | 3687.19 | 3685.59 | 3683.57 | 3680.68 | 3682.06 | 3685.09 | 3694.99 | 3699.71 | 3694.72 | 3689.62 |
| (*) | +87 | +36 | +110 | -243 | -304 | -431 | +205 | +454 | +1527 | +753 | -795 | -794 |

CAL YR 1985 (*) +368

WTR YR 1986 (*) +605

(#) Elevation, in feet, at end of month.

(*) Change in contents, in thousands of acre-feet.

KANAB CREEK BASIN

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 mi².

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. Estimated daily discharges Oct. 3, 13-28, 30-Dec. 2, Dec. 5, 7, 8, 10-30, Jan. 1-3, Feb. 21-23, 25-Mar. 4, Apr. 20, 22-24, 29, May 2-June 2, June 5-24, July 2, 3, 5, 6, 9-11, 13-30, Aug. 2-6, 12-20, 22, 26-28, Sept. 1, 8-22. No diversion above station for irrigation.

AVERAGE DISCHARGE.--7 years, 16.9 ft³/s, 12,240 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,130 ft³/s Aug. 20, 1984, maximum gage height, 8.50 ft Aug. 20, 1984; minimum recorded, 0.90 ft³/s June 23, 26, 29, 1983.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge recorded by crest-stage gage, 3,030 ft³/s Sept. 8, 1961, gage height, 19.80 ft at different datum.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|--------------------------------|------------------|--|------|--------------------------------|------------------|
| Feb. 19 | 2130 | * about 350 | *4.86 | No other peak greater than base discharge. | | | |

Minimum daily discharge, 3.0 ft³/s June 15-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|------|------|------|------|-------|-------|-------|-------|------|
| 1 | 10 | e9.0 | e18 | e15 | 20 | e17 | 18 | 11 | e4.1 | 7.6 | 6.2 | e15 |
| 2 | 12 | e8.7 | e16 | e15 | 19 | e18 | 21 | e10 | e4.2 | e8.0 | e7.0 | 15 |
| 3 | e13 | e8.2 | 17 | e16 | 18 | e18 | 18 | e9.5 | 4.1 | e8.2 | e7.4 | 14 |
| 4 | 15 | e8.0 | 15 | 15 | 16 | e19 | 18 | e9.1 | 4.6 | 6.5 | e8.0 | 16 |
| 5 | 12 | e8.0 | e18 | 14 | 18 | 18 | 18 | e8.8 | e5.5 | e6.9 | e8.2 | 18 |
| 6 | 12 | e8.0 | 19 | 14 | 18 | 17 | 17 | e8.4 | e5.0 | e7.2 | e9.0 | 18 |
| 7 | 13 | e8.0 | e20 | 13 | 21 | 16 | 16 | e8.3 | e4.0 | 7.9 | 12 | 20 |
| 8 | 21 | e8.0 | e19 | 15 | 21 | 17 | 15 | e8.2 | e3.8 | 6.8 | 14 | e28 |
| 9 | 16 | e8.0 | 18 | 14 | 21 | 23 | 15 | e8.2 | e3.5 | e8.2 | 14 | e17 |
| 10 | 21 | e8.0 | e23 | 14 | 21 | 14 | 14 | e8.2 | e3.4 | e9.2 | 16 | e18 |
| 11 | 25 | e8.0 | e22 | 15 | 21 | 19 | 15 | e8.1 | e3.3 | e9.8 | 8.2 | e17 |
| 12 | 20 | e21 | e20 | 16 | 22 | 21 | 14 | e8.0 | e3.2 | 7.5 | e7.8 | e17 |
| 13 | e24 | e16 | e22 | 17 | 22 | 14 | 14 | e8.0 | e3.1 | e7.4 | e7.5 | e17 |
| 14 | e23 | e14 | e25 | 17 | 23 | 17 | 14 | e8.0 | e3.1 | e8.0 | e7.1 | e17 |
| 15 | e23 | e13 | e23 | 16 | 25 | 16 | 15 | e8.0 | e3.0 | e18 | e6.7 | e16 |
| 16 | e22 | e12 | e26 | 16 | 26 | 16 | 15 | e8.0 | e3.0 | e16 | e6.0 | e16 |
| 17 | e20 | e12 | e22 | 18 | 28 | 18 | 14 | e8.0 | e3.0 | e13 | e4.9 | e16 |
| 18 | e20 | e12 | e16 | 17 | 36 | 19 | 14 | e7.8 | e3.0 | e13 | e4.2 | e16 |
| 19 | e21 | e12 | e18 | 16 | 81 | 17 | 16 | e7.6 | e3.0 | e13 | e5.5 | e16 |
| 20 | e19 | e12 | e22 | 18 | 42 | 18 | e15 | e7.5 | e3.8 | e18 | e7.3 | e16 |
| 21 | e18 | e12 | e18 | 18 | e19 | 17 | 15 | e7.3 | e4.4 | e18 | 7.0 | e16 |
| 22 | e16 | e12 | e18 | 19 | 17 | 19 | e16 | e7.2 | e4.7 | e17 | e9.4 | e16 |
| 23 | e17 | e12 | e18 | 17 | 16 | 19 | e16 | e6.9 | e5.2 | e13 | 9.7 | 22 |
| 24 | e15 | e12 | e18 | 17 | 15 | 19 | e16 | e6.6 | e5.6 | e10 | 11 | 26 |
| 25 | e13 | e19 | e20 | 18 | e16 | 19 | 15 | e6.3 | 5.8 | e9.2 | 8.5 | 19 |
| 26 | e12 | e16 | e20 | 16 | e16 | 19 | 14 | e5.7 | 6.3 | e8.2 | e9.0 | 16 |
| 27 | e13 | e15 | e19 | 16 | e16 | 19 | 15 | e5.3 | 6.9 | e7.4 | e9.6 | 16 |
| 28 | e11 | e15 | e15 | 18 | e17 | 19 | 13 | e4.9 | 6.3 | e7.0 | e10 | 16 |
| 29 | 9.8 | e22 | e18 | 18 | --- | 18 | e13 | e4.2 | 5.6 | e6.6 | 16 | 15 |
| 30 | e10 | e23 | e16 | 17 | --- | 19 | 12 | e4.2 | 6.4 | e6.3 | 15 | 15 |
| 31 | e9.5 | --- | 15 | 18 | --- | 18 | --- | e4.0 | --- | 5.8 | 15 | --- |
| TOTAL | 506.3 | 371.9 | 594 | 503 | 651 | 557 | 461 | 231.3 | 130.9 | 308.7 | 287.2 | 520 |
| MEAN | 16.3 | 12.4 | 19.2 | 16.2 | 23.3 | 18.0 | 15.4 | 7.46 | 4.36 | 9.96 | 9.26 | 17.3 |
| MAX | 25 | 23 | 26 | 19 | 81 | 23 | 21 | 11 | 6.9 | 18 | 16 | 28 |
| MIN | 9.5 | 8.0 | 15 | 13 | 15 | 14 | 12 | 4.0 | 3.0 | 5.8 | 4.2 | 14 |
| ACFT | 1000 | 738 | 1180 | 998 | 1290 | 1100 | 914 | 459 | 260 | 612 | 570 | 1030 |
| CAL YR 1985 | TOTAL | 5444.0 | MEAN | 14.9 | MAX | 65 | MIN | 5.4 | ACFT | 10800 | | |
| WTR YR 1986 | TOTAL | 5122.3 | MEAN | 14.0 | MAX | 81 | MIN | 3.0 | ACFT | 10160 | | |

e Estimated.

VIRGIN RIVER BASIN

181

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 mi².

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 except for estimated daily discharges, which are fair. A few small diversions above station.

AVERAGE DISCHARGE.--20 years, 21.4 ft³/s, 15,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 640 ft³/s July 27, 1976, gage height, 4.14 ft; minimum, 3.2 ft³/s Aug. 12, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|----------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Sept. 25 | 0630 | *76 | *1.90 | | | | |

Minimum discharge, 4.1 ft³/s Aug. 1, 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| 1 | 9.6 | 17 | e22 | 20 | 23 | 28 | 22 | 15 | 9.9 | 6.9 | 5.0 | 12 |
| 2 | 9.2 | 17 | e21 | 19 | 22 | 27 | 32 | 15 | 11 | 6.3 | 4.9 | 12 |
| 3 | 9.5 | 17 | 21 | 20 | 21 | 26 | 30 | 15 | 15 | 6.5 | 4.9 | 11 |
| 4 | 11 | 16 | 20 | 20 | 20 | 25 | 27 | 15 | 17 | 6.3 | 4.7 | 9.4 |
| 5 | 11 | 16 | 19 | 20 | 20 | 24 | 27 | 15 | 15 | 6.2 | 5.2 | 8.4 |
| 6 | 11 | 13 | 20 | 19 | 20 | 24 | 26 | 15 | 13 | 5.7 | 7.0 | 8.1 |
| 7 | 15 | 15 | 19 | 18 | 20 | 23 | 26 | 15 | 11 | 5.8 | 8.8 | 9.5 |
| 8 | 25 | 15 | 19 | 18 | 19 | 27 | 25 | 15 | 11 | 5.7 | 9.1 | 13 |
| 9 | 18 | 16 | 17 | 19 | 19 | 34 | 24 | 15 | 11 | 5.6 | 8.7 | 11 |
| 10 | 19 | 16 | 18 | 19 | 18 | 26 | 24 | 16 | 11 | 5.3 | 8.6 | 10 |
| 11 | 19 | 17 | 18 | 19 | 18 | 26 | 24 | 16 | 11 | 5.2 | 8.5 | 10 |
| 12 | 16 | e20 | 17 | 19 | 19 | 26 | 24 | 16 | 10 | 5.6 | 9.1 | 9.5 |
| 13 | 16 | 20 | 17 | 19 | 21 | 25 | 24 | 15 | 9.9 | 6.1 | 9.5 | 8.8 |
| 14 | 16 | 20 | 17 | 19 | 22 | 26 | 23 | 15 | 9.5 | 6.5 | 9.8 | 9.6 |
| 15 | 16 | 19 | 17 | 20 | 28 | 25 | 24 | 15 | 9.0 | 10 | 9.1 | 9.9 |
| 16 | 16 | 19 | 17 | 20 | 32 | 25 | 24 | 14 | 9.3 | 7.9 | 8.4 | 9.5 |
| 17 | 16 | 19 | 17 | 20 | 36 | 25 | 24 | 13 | 9.5 | 7.0 | 8.4 | 8.9 |
| 18 | 16 | 19 | 18 | 20 | 38 | 24 | 23 | 13 | 9.9 | 5.9 | 7.6 | 8.8 |
| 19 | 15 | 17 | 18 | 20 | 50 | 24 | 22 | 13 | 9.7 | 5.7 | 7.2 | 9.3 |
| 20 | 16 | 18 | 19 | 20 | 63 | 24 | 22 | 13 | 10 | 5.6 | 7.5 | 9.7 |
| 21 | 16 | 18 | 19 | 19 | 46 | 23 | 19 | 12 | 7.3 | 6.9 | 8.0 | 9.6 |
| 22 | 17 | 18 | 19 | 19 | 36 | 22 | 18 | 12 | 6.7 | 17 | 9.9 | 9.8 |
| 23 | 17 | 18 | 19 | 19 | 33 | 22 | 16 | 12 | 7.4 | 15 | 10 | 22 |
| 24 | 16 | 18 | 19 | 19 | 33 | 22 | 16 | 11 | 7.6 | 11 | 10 | 24 |
| 25 | 16 | 20 | 19 | 18 | 31 | 21 | 15 | 12 | 8.8 | 9.6 | 10 | 51 |
| 26 | 17 | 21 | 19 | 19 | 30 | 22 | 15 | 11 | 8.3 | 8.4 | 11 | 23 |
| 27 | 17 | 20 | 18 | 19 | 30 | 21 | 16 | 12 | 6.6 | 7.2 | 9.2 | 19 |
| 28 | 17 | 19 | 18 | 19 | 30 | 21 | 16 | 12 | 6.5 | 5.7 | 9.1 | 21 |
| 29 | 17 | 23 | 19 | 19 | --- | 22 | 16 | 12 | 6.8 | 5.6 | 11 | 19 |
| 30 | 17 | e23 | 22 | 20 | --- | 22 | 15 | 12 | 7.2 | 6.1 | 10 | 18 |
| 31 | 17 | --- | 20 | 30 | --- | 21 | --- | 11 | --- | 6.2 | 11 | --- |
| TOTAL | 484.3 | 544 | 582 | 608 | 798 | 753 | 659 | 423 | 295.9 | 224.5 | 261.2 | 414.8 |
| MEAN | 15.6 | 18.1 | 18.8 | 19.6 | 28.5 | 24.3 | 22.0 | 13.6 | 9.86 | 7.24 | 8.43 | 13.8 |
| MAX | 25 | 23 | 22 | 30 | 63 | 34 | 32 | 16 | 17 | 17 | 11 | 51 |
| MIN | 9.2 | 13 | 17 | 18 | 18 | 21 | 15 | 11 | 6.5 | 5.2 | 4.7 | 8.1 |
| ACFT | 961 | 1080 | 1150 | 1210 | 1580 | 1490 | 1310 | 839 | 587 | 445 | 518 | 823 |

| | | | | | | | | | | |
|-------------|-------|--------|------|------|-----|----|-----|-----|------|-------|
| CAL YR 1985 | TOTAL | 6653.5 | MEAN | 18.2 | MAX | 41 | MIN | 4.3 | ACFT | 13200 |
| WTR YR 1986 | TOTAL | 6047.7 | MEAN | 16.6 | MAX | 63 | MIN | 4.7 | ACFT | 12000 |

e Estimated.

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 mi².

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 except for estimated daily discharges, which are poor. Figures given herein include Springdale Canal, which diverts water in NW1/4NW1/4 sec.22, T.41 S., R.10 W., for irrigation in vicinity of Springdale. Diversion for irrigation of about 1,400 acres above station.

AVERAGE DISCHARGE.--61 years, 105 ft³/s, 76,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,150 ft³/s Dec. 6, 1966, gage height, 12.98 ft, from rating curve extended above 2,000 ft³/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 ft³/s July 31, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 610 ft³/s Nov. 29; minimum daily, 37 ft³/s Sept. 17, 19-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|-------|-------|-------|------|-------|------|------|
| 1 | 51 | 46 | 75 | 56 | e73 | 113 | e322 | 284 | 102 | 50 | 43 | 50 |
| 2 | 50 | 47 | 80 | 52 | e63 | 120 | e472 | 283 | 99 | 49 | 41 | 49 |
| 3 | 46 | 48 | 86 | 57 | e61 | 113 | e290 | 291 | 99 | 50 | 43 | 45 |
| 4 | 45 | 48 | 63 | 55 | e60 | 125 | 260 | 277 | 111 | 47 | 41 | 44 |
| 5 | 44 | 48 | 61 | 55 | e57 | 130 | 243 | 232 | 99 | 47 | 42 | 42 |
| 6 | 44 | 48 | 64 | 56 | e60 | 136 | 251 | 215 | 89 | 50 | 45 | 43 |
| 7 | 55 | 48 | 60 | 45 | e52 | e169 | 257 | 191 | 87 | 51 | 49 | 41 |
| 8 | 117 | 48 | 62 | 43 | e50 | e207 | 217 | 184 | 83 | 52 | 50 | 40 |
| 9 | 83 | 48 | 47 | 46 | e46 | e320 | 191 | e181 | 88 | 51 | 49 | 40 |
| 10 | 74 | 47 | 52 | 56 | e41 | e240 | e220 | 165 | 84 | 47 | 70 | 39 |
| 11 | 74 | 53 | 58 | 57 | e41 | e281 | 239 | 162 | 80 | 46 | 55 | 39 |
| 12 | 60 | 67 | 42 | 57 | e49 | e234 | 262 | 162 | 75 | 47 | 49 | 40 |
| 13 | 58 | 59 | 41 | 53 | e66 | e188 | 259 | 166 | 74 | 46 | 60 | 39 |
| 14 | 56 | 54 | 47 | 53 | e56 | e168 | 214 | 169 | 72 | 46 | 61 | 38 |
| 15 | 53 | 54 | 49 | 59 | e255 | e147 | 216 | 165 | 73 | 51 | 50 | 38 |
| 16 | 52 | 62 | 49 | 56 | e344 | e187 | 251 | 159 | 72 | 64 | 47 | 38 |
| 17 | 50 | 61 | 48 | e54 | e148 | e189 | e224 | 147 | 70 | 57 | 44 | 37 |
| 18 | 49 | 60 | 52 | e52 | e108 | e147 | e205 | 146 | 67 | 50 | 43 | 38 |
| 19 | 49 | 43 | 50 | e51 | e312 | e107 | e185 | 144 | 65 | 45 | 44 | 37 |
| 20 | 49 | 50 | 51 | e57 | e145 | e117 | e183 | 145 | 60 | 45 | 42 | 37 |
| 21 | 48 | 60 | 51 | e61 | e98 | e135 | e210 | 137 | 60 | 49 | 43 | 37 |
| 22 | 52 | 50 | 51 | e57 | 90 | e152 | e243 | 131 | 59 | 162 | 42 | 39 |
| 23 | 52 | 58 | 49 | e54 | 91 | e172 | e292 | 128 | 59 | 100 | 45 | 76 |
| 24 | 52 | 61 | 54 | e52 | 98 | e191 | e289 | 122 | 58 | 62 | 47 | 159 |
| 25 | 53 | 114 | 53 | e49 | 108 | e166 | e258 | 118 | 59 | 55 | 48 | 192 |
| 26 | 52 | 69 | 52 | e51 | 115 | e180 | e250 | 115 | 57 | 53 | 60 | 86 |
| 27 | 52 | 59 | 49 | e51 | 125 | e199 | e226 | 109 | 55 | 49 | 51 | 73 |
| 28 | 54 | 69 | 49 | e51 | 118 | e231 | e246 | 109 | 54 | 45 | 45 | 72 |
| 29 | 51 | 257 | 50 | e51 | --- | e240 | e275 | 107 | 52 | 44 | 58 | 66 |
| 30 | 49 | 128 | 60 | e53 | --- | e293 | e280 | 107 | 52 | 44 | 66 | 64 |
| 31 | 48 | --- | 64 | e80 | --- | e296 | --- | 105 | --- | 44 | 50 | --- |
| TOTAL | 1722 | 1964 | 1719 | 1680 | 2930 | 5693 | 7530 | 5156 | 2214 | 1698 | 1523 | 1678 |
| MEAN | 55.5 | 65.5 | 55.5 | 54.2 | 105 | 184 | 251 | 166 | 73.8 | 54.8 | 49.1 | 55.9 |
| MAX | 117 | 257 | 86 | 80 | 344 | 320 | 472 | 291 | 111 | 162 | 70 | 192 |
| MIN | 44 | 43 | 41 | 43 | 41 | 107 | 183 | 105 | 52 | 44 | 41 | 37 |
| ACFT | 3420 | 3900 | 3410 | 3330 | 5810 | 11290 | 14940 | 10230 | 4390 | 3370 | 3020 | 3330 |
| CAL YR 1985 | TOTAL | 47766 | MEAN | 131 | MAX | 758 | MIN | 41 | ACFT | 94740 | | |
| WTR YR 1986 | TOTAL | 35507 | MEAN | 97.3 | MAX | 472 | MIN | 37 | ACFT | 70430 | | |

e Estimated.

VIRGIN RIVER BASIN

183

09405900 NORTH CREEK NEAR VIRGIN, UT

LOCATION.--Lat 37°14'14", long 113°09'01", in SE1/4SW1/4NE1/4, sec. 12, T.41 S., R.13 W., Washington County, Hydrologic Unit 15010008, on left bank 30 ft upstream from Bonnie Reeder Memorial Bridge, 3.2 mi north of town of Virgin and State Highway 9.

DRAINAGE AREA.--110 mi².

PERIOD OF RECORD.--December 1984 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,680 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Two diversions for irrigation above station, the nearest approximately 200 ft upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 346 ft³/s, Feb. 19, 1986, from rating curve extended above 70 ft³/s on the basis of a slope conveyance study, gage height, 6.72 ft; no flow, Sept. 6, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 346 ft³/s, Feb. 19, from rating curve extended above 70 ft³/s on the basis of a slope conveyance study, gage height, 6.72 ft; no flow, Sept. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1 | 2.5 | 2.3 | 31 | 4.5 | 7.3 | 12 | 35 | 2.3 | 1.1 | e.32 | .55 | .97 |
| 2 | 2.8 | 2.6 | 29 | 4.2 | 5.2 | 11 | 75 | 1.3 | 1.2 | e.21 | .46 | .74 |
| 3 | 1.7 | 2.7 | 46 | 4.1 | 4.8 | 9.9 | 28 | 1.7 | 1.4 | e.30 | .71 | .60 |
| 4 | 1.6 | 2.5 | 19 | 3.9 | 4.4 | 8.6 | 22 | 1.7 | 1.1 | e.22 | .93 | .55 |
| 5 | 1.7 | 2.3 | 14 | 4.0 | 4.3 | 7.5 | 17 | 2.0 | .99 | e.17 | 1.3 | e.13 |
| 6 | 1.7 | 2.1 | 17 | 4.0 | 4.8 | 7.2 | 19 | 2.2 | e.41 | e.36 | 1.8 | e.00 |
| 7 | 1.9 | 1.4 | 11 | 4.4 | 4.4 | 7.3 | 27 | 2.9 | e.20 | e.50 | 1.6 | e.30 |
| 8 | 23 | 1.3 | 6.9 | 5.2 | 4.2 | 25 | 17 | 3.1 | e.75 | e.50 | .85 | .45 |
| 9 | 10 | 1.7 | 6.8 | 5.2 | e4.2 | 47 | 14 | 2.3 | .95 | e.50 | .88 | .30 |
| 10 | 8.4 | 2.2 | 6.4 | 4.6 | e4.1 | 42 | 14 | 2.6 | .90 | .77 | 1.1 | e.14 |
| 11 | 2.9 | 2.4 | 6.3 | 4.3 | e4.2 | 76 | 14 | 2.8 | e.80 | e.52 | .96 | .65 |
| 12 | 2.3 | 14 | e6.1 | 4.2 | 4.4 | 43 | 14 | 2.5 | .94 | e.16 | .92 | .22 |
| 13 | 2.3 | 11 | e5.7 | 4.2 | 10 | 33 | 15 | 2.4 | e.49 | e.16 | .98 | .37 |
| 14 | 2.1 | 6.2 | 5.4 | 4.3 | 8.3 | 28 | 12 | 1.6 | e.18 | e.45 | 2.0 | .66 |
| 15 | 2.6 | 6.3 | 5.2 | 5.2 | 98 | 19 | 9.5 | 2.4 | e.55 | e.60 | .50 | .56 |
| 16 | 2.2 | 6.1 | 5.1 | 5.2 | 112 | 46 | 9.5 | 1.9 | .62 | e.54 | .54 | .40 |
| 17 | 1.9 | 6.4 | 5.0 | 4.4 | 62 | 36 | 9.9 | 1.8 | .62 | e.38 | .74 | .46 |
| 18 | 1.8 | 7.6 | 5.1 | 4.2 | 30 | 21 | 6.2 | 2.2 | .78 | e.28 | .60 | .60 |
| 19 | 1.9 | 4.1 | 5.0 | 4.3 | 93 | 15 | 5.4 | 1.9 | e.48 | e.13 | .85 | .40 |
| 20 | 1.9 | 3.7 | 5.0 | 4.3 | 38 | 15 | 4.9 | 1.8 | e.18 | e8.2 | .87 | .29 |
| 21 | 1.7 | 3.7 | 5.0 | 4.2 | 21 | 18 | 4.3 | 1.3 | e.31 | 2.5 | 1.6 | .44 |
| 22 | 1.7 | 3.5 | 5.0 | 4.2 | 18 | 20 | 4.8 | 1.6 | .65 | 59 | .41 | .95 |
| 23 | 1.7 | 3.7 | 5.3 | 4.2 | 17 | 19 | 4.7 | e.35 | e.55 | e5.3 | 1.1 | 30 |
| 24 | 1.8 | 3.8 | 5.2 | 4.0 | 16 | 18 | 4.5 | e.45 | e.85 | 3.1 | 1.3 | 36 |
| 25 | 1.8 | 49 | 4.7 | 4.0 | 16 | 14 | 3.4 | e1.2 | e.71 | 2.7 | 2.3 | 62 |
| 26 | 1.7 | 14 | 4.4 | 4.0 | 16 | 28 | 3.8 | 1.4 | .53 | 2.3 | 6.5 | 8.8 |
| 27 | 2.0 | 4.4 | 4.4 | 3.9 | 16 | 25 | 3.6 | 1.1 | e.30 | 2.0 | 1.1 | 4.3 |
| 28 | 2.3 | 6.8 | 4.4 | 3.9 | 14 | 27 | 2.9 | 1.5 | e.18 | 1.3 | 1.0 | 6.8 |
| 29 | 2.1 | 91 | 4.0 | 4.0 | --- | 27 | 2.6 | 1.6 | e.41 | 1.0 | .83 | 4.4 |
| 30 | 2.1 | 67 | 4.1 | 4.6 | --- | 36 | 2.1 | e.28 | e.35 | .80 | e.32 | 3.0 |
| 31 | 2.2 | --- | 8.7 | 17 | --- | 34 | --- | 1.0 | --- | 1.1 | e.48 | --- |
| TOTAL | 98.3 | 335.8 | 296.2 | 146.7 | 641.6 | 775.5 | 405.1 | 55.18 | 19.48 | 96.37 | 36.06 | 165.48 |
| MEAN | 3.17 | 11.2 | 9.55 | 4.73 | 22.9 | 25.0 | 13.5 | 1.78 | .65 | 3.11 | 1.16 | 5.52 |
| MAX | 23 | 91 | 46 | 17 | 112 | 76 | 75 | 3.1 | 1.4 | 59 | 6.5 | 62 |
| MIN | 1.6 | 1.3 | 4.0 | 3.9 | 4.1 | 7.2 | 2.1 | .28 | .18 | .13 | .32 | .00 |
| ACFT | 195 | 666 | 588 | 291 | 1270 | 1540 | 804 | 109 | 39 | 191 | 72 | 328 |
| CAL YR 1985 | TOTAL | 3080.77 | MEAN | 8.44 | MAX | 103 | MIN | .27 | ACFT | 6110 | | |
| WTR YR 1986 | TOTAL | 3071.77 | MEAN | 8.42 | MAX | 112 | MIN | .00 | ACFT | 6090 | | |

e Estimated.

09406000 VIRGIN RIVER AT VIRGIN, UT

LOCATION.--Lat 37°10'22", long 113°10'48", in SW1/4NW1/4SW1/4 sec.23, T.41 S., R.12 W., Washington County, Hydrologic Unit 15010008, on right bank 1.0 mi east of Virgin and .25 mi downstream from North Creek.

DRAINAGE AREA.--934 mi².

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 3,500 ft from topographic map. At present location since July 18, 1985; from Oct. 1, 1978 to July 5, 1985, located 2 mi downstream on left bank, and from Dec. 19, 1949 to September 1971, located directly across from previous site, 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.--No estimated daily discharges. Records good. Diversions for irrigation of about 2,800 acres above station.

AVERAGE DISCHARGE.--70 years, 207 ft³/s, 150,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,800 ft³/s Dec. 6, 1966, gage height, 18.00 ft from rating curve extended above 5,000 ft³/s on basis of one slope-area measurement and one float measurement; minimum observed, 22 ft³/s July 10, 1920 and June 11, 1921.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|--|------|-----------------------------------|---------------------|
| Mar. 8 | 2400 | *1,620 | *10.81 | No other peak greater than base discharge. | | | |

Minimum daily discharge, 58 ft³/s Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|-------|-------|-------|-------|------|--------|------|------|
| 1 | 88 | 122 | 202 | 134 | 165 | 222 | 449 | 318 | 120 | 71 | 67 | 102 |
| 2 | 90 | 123 | 197 | 126 | 143 | 226 | 689 | 313 | 116 | 70 | 64 | 77 |
| 3 | 85 | 121 | 233 | 126 | 140 | 220 | 411 | 313 | 114 | 69 | 61 | 74 |
| 4 | 85 | 122 | 172 | 126 | 137 | 223 | 380 | 319 | 138 | 66 | 60 | 69 |
| 5 | 85 | 123 | 152 | 125 | 129 | 221 | 343 | 260 | 125 | 72 | 59 | 70 |
| 6 | 86 | 122 | 165 | 125 | 134 | 227 | 354 | 249 | 112 | 71 | 90 | 64 |
| 7 | 88 | 118 | 151 | 122 | 127 | 230 | 370 | 235 | 105 | 71 | 72 | 63 |
| 8 | 156 | 118 | 142 | 118 | 126 | 271 | 336 | 221 | 101 | 71 | 72 | 63 |
| 9 | 146 | 124 | 137 | 121 | 124 | 536 | 294 | 217 | 101 | 69 | 75 | 80 |
| 10 | 130 | 123 | 123 | 126 | 117 | 346 | 303 | 210 | 100 | 67 | 109 | 70 |
| 11 | 144 | 125 | 134 | 128 | 117 | 436 | 315 | 204 | 96 | 63 | 79 | 65 |
| 12 | 123 | 158 | 123 | 126 | 127 | 352 | 335 | 200 | 93 | 65 | 73 | 65 |
| 13 | 119 | 145 | 114 | 123 | 155 | 297 | 346 | 197 | 89 | 64 | 80 | 67 |
| 14 | 119 | 138 | 122 | 124 | 147 | 272 | 285 | 195 | 88 | 63 | 96 | 67 |
| 15 | 121 | 136 | 122 | 125 | 421 | 239 | 286 | 193 | 88 | 66 | 81 | 68 |
| 16 | 118 | 143 | 126 | 133 | 540 | 280 | 303 | 190 | 85 | 82 | 75 | 69 |
| 17 | 118 | 147 | 122 | 131 | 331 | 283 | 287 | 179 | 83 | 76 | 70 | 62 |
| 18 | 119 | 151 | 122 | 128 | 256 | 243 | 266 | 177 | 83 | 67 | 69 | 61 |
| 19 | 118 | 136 | 123 | 128 | 514 | 210 | 248 | 171 | 80 | 63 | 69 | 58 |
| 20 | 118 | 126 | 124 | 131 | 460 | 223 | 245 | 167 | 80 | 78 | 72 | 59 |
| 21 | 119 | 141 | 124 | 134 | 266 | 235 | 265 | 162 | 79 | 73 | 73 | 59 |
| 22 | 119 | 134 | 125 | 130 | 220 | 255 | 309 | 155 | 78 | 257 | 69 | 64 |
| 23 | 123 | 136 | 123 | 128 | 213 | 271 | 347 | 152 | 77 | 207 | 73 | 128 |
| 24 | 126 | 133 | 124 | 125 | 215 | 281 | 338 | 149 | 81 | 110 | 73 | 335 |
| 25 | 128 | 223 | 126 | 122 | 225 | 266 | 306 | 143 | 84 | 91 | 78 | 397 |
| 26 | 123 | 178 | 126 | 124 | 229 | 292 | 297 | 138 | 76 | 84 | 127 | 217 |
| 27 | 123 | 140 | 125 | 127 | 237 | 324 | 265 | 130 | 79 | 79 | 93 | 141 |
| 28 | 125 | 138 | 125 | 126 | 229 | 368 | 271 | 127 | 75 | 73 | 77 | 142 |
| 29 | 124 | 392 | 119 | 127 | --- | 373 | 301 | 126 | 74 | 68 | 76 | 136 |
| 30 | 125 | 385 | 125 | 130 | --- | 436 | 314 | 122 | 73 | 65 | 96 | 123 |
| 31 | 124 | --- | 137 | 167 | --- | 434 | --- | 121 | --- | 66 | 92 | --- |
| TOTAL | 3615 | 4621 | 4285 | 3966 | 6244 | 9092 | 9858 | 6053 | 2773 | 2557 | 2420 | 3115 |
| MEAN | 117 | 154 | 138 | 128 | 223 | 293 | 329 | 195 | 92.4 | 82.5 | 78.1 | 104 |
| MAX | 156 | 392 | 233 | 167 | 540 | 536 | 689 | 319 | 138 | 257 | 127 | 397 |
| MIN | 85 | 118 | 114 | 118 | 117 | 210 | 245 | 121 | 73 | 63 | 59 | 58 |
| ACFT | 7170 | 9170 | 8500 | 7870 | 12380 | 18030 | 19550 | 12010 | 5500 | 5070 | 4800 | 6180 |
| CAL YR 1985 | TOTAL | 78006 | MEAN | 214 | MAX | 880 | MIN | 52 | ACFT | 154700 | | |
| WTR YR 1986 | TOTAL | 58599 | MEAN | 161 | MAX | 689 | MIN | 58 | ACFT | 116200 | | |

VIRGIN RIVER BASIN

185

09406150 LAVERKIN CREEK NEAR LAVERKIN, UT

LOCATION.--Lat 37°12'17", long 113°17'03", in NE1/4NE1/4SW1/4 sec. 23, T.41 S, R.13 W., Washington County, Hydrologic Unit 15010008, on left bank 1 mi west of LaVerkin, 0.25 mi upstream from confluence of LaVerkin Creek and Virgin River.

DRAINAGE AREA.--90 mi².

PERIOD OF RECORD.--December 1984 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,040 ft from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 249 ft³/s, Nov. 30, 1985, gage height 5.86 ft; minimum discharge, 0.41 ft³/s July 3, 4, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 249 ft³/s Nov. 30, gage height 5.86 ft from rating curve extended above 60 ft³/s on basis of slope conveyance study; minimum discharge, 0.41 ft³/s July 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|-------|------|-------|-------|--------|-------|-------|------|
| 1 | 2.4 | 2.8 | 22 | 8.3 | 24 | 11 | 31 | 11 | 5.0 | 1.6 | 2.0 | e2.3 |
| 2 | 2.3 | 2.8 | 21 | 7.9 | 9.6 | 10 | 82 | 15 | 5.2 | 2.8 | e1.4 | e2.2 |
| 3 | 1.8 | 2.7 | 24 | 8.3 | 8.3 | 11 | 64 | 13 | 6.1 | .96 | e1.2 | e2.1 |
| 4 | 1.5 | 4.4 | 18 | 7.8 | 7.9 | 17 | 57 | 12 | 19 | .60 | e1.1 | e2.1 |
| 5 | 1.6 | 5.6 | 12 | 7.4 | 6.8 | 20 | 54 | 12 | 8.0 | 1.4 | e1.1 | e2.1 |
| 6 | 3.2 | 5.2 | 13 | 7.7 | 7.4 | 16 | 47 | 13 | 4.0 | 1.2 | e1.2 | e2.2 |
| 7 | 4.5 | 5.2 | 10 | 6.5 | 7.7 | e20 | 42 | 15 | 2.9 | 1.1 | e1.4 | e2.5 |
| 8 | 36 | 5.2 | 9.5 | 7.5 | 9.0 | e23 | 35 | 23 | 5.1 | 2.6 | 2.7 | e3.4 |
| 9 | 62 | 5.1 | 7.9 | 7.2 | 5.4 | e97 | 26 | 20 | 5.3 | 1.9 | 3.6 | 6.3 |
| 10 | 24 | 4.7 | 7.6 | 7.1 | 6.1 | e58 | 26 | 18 | 4.2 | 1.1 | 2.6 | 3.1 |
| 11 | 6.8 | 4.7 | 7.4 | 7.4 | 8.3 | 52 | 26 | 12 | 4.0 | .64 | 3.5 | 2.6 |
| 12 | 6.3 | 14 | 4.6 | 6.7 | 13 | 29 | 25 | 12 | 4.1 | .65 | 2.6 | 2.6 |
| 13 | 6.2 | 11 | 5.5 | 6.7 | 15 | 24 | 23 | 12 | 2.9 | .52 | 8.0 | 2.6 |
| 14 | 5.7 | 9.9 | 7.9 | 6.9 | 11 | 26 | 23 | e12 | .81 | .52 | 14 | e2.3 |
| 15 | 5.5 | 8.1 | 10 | 8.8 | 112 | 28 | 21 | e11 | .80 | .79 | 6.9 | e2.3 |
| 16 | 5.4 | 9.0 | 8.9 | 8.7 | 73 | 33 | 16 | e11 | 1.8 | 2.1 | 2.7 | e2.1 |
| 17 | 5.2 | 9.2 | 8.1 | 7.3 | 58 | 33 | 17 | e10 | 3.4 | 2.0 | 5.1 | e2.0 |
| 18 | 4.9 | 11 | 7.2 | 7.1 | 34 | 28 | 22 | e9.6 | 4.1 | 1.9 | 7.5 | e2.0 |
| 19 | 4.8 | 6.5 | 6.3 | 6.4 | 42 | 23 | 17 | e9.0 | 3.7 | 1.4 | 6.9 | e2.0 |
| 20 | 4.6 | 8.5 | 6.8 | 6.1 | 36 | 32 | 16 | e8.7 | 1.3 | 1.9 | 6.7 | e2.1 |
| 21 | 4.7 | 8.0 | 7.0 | 5.9 | 21 | 37 | 16 | e8.4 | 1.4 | 2.1 | 6.6 | e2.3 |
| 22 | 4.9 | 6.7 | 7.0 | 5.6 | 28 | 39 | 16 | e7.7 | 1.4 | 18 | 8.8 | e2.4 |
| 23 | 2.8 | 6.8 | 7.2 | 4.8 | 15 | 35 | 17 | e7.3 | 1.7 | 17 | 8.0 | e2.5 |
| 24 | 1.6 | 7.3 | 7.6 | 4.9 | 19 | 34 | 17 | e6.7 | 1.5 | 9.6 | 6.6 | e2.7 |
| 25 | 1.6 | 31 | 8.0 | 7.1 | 17 | 30 | 17 | e6.5 | 1.0 | 7.0 | 12 | e2.9 |
| 26 | 2.4 | 24 | 8.3 | 9.9 | 14 | 32 | 16 | e5.9 | .67 | 3.3 | 14 | e3.1 |
| 27 | 2.6 | 9.0 | 8.1 | 8.7 | 12 | 32 | 15 | e5.4 | .60 | 2.2 | 2.6 | e3.4 |
| 28 | 2.8 | 7.8 | 7.9 | 7.3 | 12 | 34 | 16 | e4.9 | .77 | 2.4 | 3.9 | e3.7 |
| 29 | 2.6 | 38 | 7.9 | 7.0 | --- | 34 | 13 | 4.9 | .75 | 2.4 | 5.2 | e4.1 |
| 30 | 2.8 | 61 | 8.1 | 6.5 | --- | 34 | 9.3 | 4.7 | .99 | 2.2 | 4.0 | e4.5 |
| 31 | 2.8 | --- | 9.7 | 52 | --- | 33 | --- | 5.3 | --- | 1.7 | 2.4 | --- |
| TOTAL | 226.3 | 335.2 | 304.5 | 267.5 | 632.5 | 965 | 822.3 | 327.0 | 102.49 | 95.58 | 156.3 | 82.5 |
| MEAN | 7.30 | 11.2 | 9.82 | 8.63 | 22.6 | 31.1 | 27.4 | 10.5 | 3.42 | 3.08 | 5.04 | 2.75 |
| MAX | 62 | 61 | 24 | 52 | 112 | 97 | 82 | 23 | 19 | 18 | 14 | 6.3 |
| MIN | 1.5 | 2.7 | 4.6 | 4.8 | 5.4 | 10 | 9.3 | 4.7 | .60 | .52 | 1.1 | 2.0 |
| ACFT | 449 | 665 | 604 | 531 | 1250 | 1910 | 1630 | 649 | 203 | 190 | 310 | 164 |
| CAL YR 1985 | TOTAL | 4591.93 | MEAN | 12.6 | MAX | 72 | MIN | .61 | ACFT | 9110 | | |
| WTR YR 1986 | TOTAL | 4317.17 | MEAN | 11.8 | MAX | 112 | MIN | .52 | ACFT | 8560 | | |

e Estimated.

VIRGIN RIVER BASIN

09407000 ASH CREEK ABOVE TOQUERVILLE, UT

LOCATION.--Lat 37°16'00", long 113°16'43", in SE1/4SW1/4NE1/4 sec.35, T.40 S., R.13W., Washington County, Hydrologic Unit 15010008, on left bank approximately 1 mi upstream from Toquerville.

DRAINAGE AREA.--190 mi².

PERIOD OF RECORD.--October 1941 to September 1942, December 1984 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,450 ft from topographic map. October 1941 to September 1942 at approximately the same site at different datum.

REMARKS.--Records poor.

COOPERATION.--Gage-height readings and discharge measurements for 1942 water year provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 420 ft³/s, Aug. 9, 1986, gage height, 7.98 ft; no flow for extended periods each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 420 ft³/s, Aug. 9, gage height, 7.98 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|------|--------|-------|-------|-----|------|------|-------|-------|
| 1 | .00 | .00 | e15 | .00 | .00 | 6.9 | 3.3 | .00 | .00 | .00 | .00 | .00 |
| 2 | .00 | .00 | e10 | .00 | .00 | 6.6 | 7.0 | .00 | .00 | .00 | .00 | .00 |
| 3 | .00 | .00 | e7.0 | .00 | .00 | 6.6 | 7.2 | .00 | .00 | .00 | .00 | .00 |
| 4 | .00 | .00 | e4.7 | .00 | .00 | 6.1 | 5.7 | .00 | .00 | .00 | .00 | .00 |
| 5 | .00 | .00 | e4.2 | .00 | .00 | 5.9 | 3.6 | .00 | .00 | .00 | .00 | .00 |
| 6 | .00 | .00 | e.80 | .00 | .00 | 5.8 | 2.8 | .00 | .00 | .00 | .00 | .00 |
| 7 | .00 | .00 | e.25 | .00 | .00 | 5.8 | 2.9 | .06 | .00 | .00 | .00 | .00 |
| 8 | .00 | .00 | .07 | .00 | .00 | 6.1 | 2.5 | .26 | .00 | .00 | .00 | .00 |
| 9 | .00 | .00 | 13 | .00 | .00 | 8.1 | 2.1 | .30 | .00 | .00 | e8.2 | .00 |
| 10 | .00 | .00 | .00 | .00 | .00 | 9.5 | 1.6 | .06 | .00 | .00 | e7.0 | .00 |
| 11 | .00 | .00 | .00 | .00 | .00 | 8.4 | 1.1 | .00 | .00 | .00 | e7.2 | .00 |
| 12 | .00 | .00 | .00 | .00 | .00 | 2.8 | 1.1 | .00 | .00 | .00 | e6.4 | .00 |
| 13 | .00 | .00 | .00 | .00 | .00 | 2.7 | .83 | .00 | .00 | .00 | e6.2 | .00 |
| 14 | .00 | .00 | .00 | .00 | .00 | 4.5 | .73 | .00 | .00 | .00 | e20 | .00 |
| 15 | .00 | .00 | .00 | .00 | 50 | 3.2 | .46 | .00 | .00 | .00 | .21 | .00 |
| 16 | .00 | .00 | .00 | .00 | 52 | 7.6 | .09 | .00 | .00 | .00 | .00 | .00 |
| 17 | .00 | .00 | .00 | .00 | 32 | 8.0 | .26 | .00 | .00 | .00 | .00 | .00 |
| 18 | .00 | .00 | .00 | .00 | 20 | 6.4 | .36 | .00 | .00 | .00 | .00 | .00 |
| 19 | .00 | .00 | .00 | .00 | 24 | 5.9 | .21 | .00 | .00 | .00 | .00 | .00 |
| 20 | .00 | .59 | .00 | .00 | 18 | 9.3 | .03 | .00 | .00 | .00 | .00 | .00 |
| 21 | .00 | 1.6 | .00 | .00 | 8.5 | 12 | .00 | .00 | .00 | .00 | .00 | .00 |
| 22 | .00 | 1.9 | .00 | .00 | 12 | 11 | .00 | .00 | .00 | .00 | .00 | .00 |
| 23 | .00 | e3.5 | .00 | .00 | 10 | 9.0 | .00 | .00 | .00 | .00 | .00 | 7.8 |
| 24 | .00 | e5.4 | .00 | .00 | 7.9 | 7.4 | .00 | .00 | .00 | .00 | .00 | 2.5 |
| 25 | .00 | e10 | .00 | .00 | 7.0 | 5.9 | .00 | .00 | .00 | .00 | .00 | 6.1 |
| 26 | .00 | e7.2 | .00 | .00 | 6.8 | 5.0 | .16 | .00 | .00 | .00 | .00 | .57 |
| 27 | .00 | e5.5 | .00 | .00 | 6.9 | 4.4 | .41 | .00 | .00 | .00 | .00 | .24 |
| 28 | .00 | e9.0 | .00 | .00 | 7.0 | 4.0 | .23 | .00 | .00 | .00 | .00 | .27 |
| 29 | .00 | e13 | .00 | .00 | --- | 3.4 | .02 | .00 | .00 | .00 | .00 | .22 |
| 30 | .00 | e20 | .00 | .00 | --- | 3.0 | .00 | .00 | .00 | .00 | .00 | .17 |
| 31 | .00 | --- | .00 | .00 | --- | 3.1 | --- | .00 | --- | .00 | .00 | --- |
| TOTAL | .00 | 77.69 | 55.02 | .00 | 262.10 | 194.4 | 44.69 | .68 | .00 | .00 | 55.21 | 17.87 |
| MEAN | .00 | 2.59 | 1.77 | .00 | 9.36 | 6.27 | 1.49 | .02 | .00 | .00 | 1.78 | .60 |
| MAX | .00 | 20 | 15 | .00 | 52 | 12 | 7.2 | .30 | .00 | .00 | 20 | 7.8 |
| MIN | .00 | .00 | .00 | .00 | .00 | 2.7 | .00 | .00 | .00 | .00 | .00 | .00 |
| ACFT | .00 | 154 | 109 | .00 | 520 | 386 | 89 | 1.3 | .00 | .00 | 110 | 35 |
| CAL YR 1985 | TOTAL | 550.08 | MEAN | 1.51 | MAX | 20 | MIN | .00 | ACFT | 1090 | | |
| WTR YR 1986 | TOTAL | 707.66 | MEAN | 1.94 | MAX | 52 | MIN | .00 | ACFT | 1400 | | |

e Estimated.

VIRGIN RIVER BASIN

187

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 mi².

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 estimated daily discharges, which are fair. One diversion above station for domestic use.

AVERAGE DISCHARGE.--22 years, 7.64 ft³/s, 5,540 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,710 ft³/s Aug. 6, 1967, gage height, 5.78 ft, site and datum then in use; minimum recorded, 0.23 ft³/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 ft³/s from slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--|---------|-----------------------------------|---------------------|--|------|-----------------------------------|---------------------|
| Aug. 9 | unknown | *811 | *5.93 | No other peak greater than base discharge. | | | |
| Minimum discharge, 3.0 ft ³ /s Nov. 19. | | | | | | | |

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 3.2 | 3.2 | 3.8 | 3.5 | 3.7 | 4.7 | 8.1 | 7.6 | 8.2 | 8.1 | e5.2 | 5.5 |
| 2 | 3.1 | 3.2 | 4.0 | 3.5 | 3.7 | 4.8 | 8.9 | 7.5 | 8.3 | 8.0 | e5.2 | 4.9 |
| 3 | 3.2 | 3.2 | 3.9 | 3.5 | 3.7 | 4.7 | 8.6 | 7.5 | 8.4 | 7.9 | e5.1 | 4.7 |
| 4 | 3.1 | 3.2 | 3.8 | 3.5 | 3.7 | 4.6 | 8.7 | 7.5 | 8.3 | 7.9 | e5.1 | 4.6 |
| 5 | 3.1 | 3.2 | 3.7 | 3.5 | 3.7 | 4.6 | 8.6 | 7.6 | 8.2 | 7.9 | e5.1 | 4.6 |
| 6 | 3.1 | 3.2 | 3.7 | 3.5 | 3.7 | 4.6 | 8.6 | 7.7 | 8.3 | 7.8 | e15 | 4.5 |
| 7 | 3.1 | 3.2 | 3.7 | 3.5 | 3.7 | 4.6 | 8.8 | 8.1 | 8.3 | 7.8 | e5.6 | 4.5 |
| 8 | 3.2 | 3.2 | 3.7 | 3.5 | 3.8 | 4.7 | 8.7 | 8.0 | 8.5 | 7.7 | e5.0 | 4.4 |
| 9 | 3.8 | 3.2 | 3.7 | 3.5 | e3.7 | 4.8 | 8.7 | 7.9 | 8.5 | 7.6 | e6.0 | 4.4 |
| 10 | 3.4 | 3.2 | 3.7 | 3.4 | e3.6 | 5.4 | 8.6 | 7.9 | 8.5 | 7.4 | e5.4 | 4.4 |
| 11 | 3.4 | 3.3 | 3.7 | 3.4 | e3.7 | 5.6 | 8.5 | 7.7 | 8.6 | 7.3 | 5.1 | 4.4 |
| 12 | 3.3 | 3.6 | e3.6 | 3.4 | 3.9 | 5.3 | 8.4 | 7.8 | 8.6 | 7.2 | 5.0 | 4.4 |
| 13 | 3.3 | 3.3 | e3.2 | 3.4 | 4.1 | 5.5 | 8.3 | 7.8 | 8.6 | 7.0 | 5.5 | 4.4 |
| 14 | 3.2 | 3.4 | e3.4 | 3.4 | 3.9 | 6.0 | 8.3 | 7.8 | 8.6 | 7.0 | 5.3 | 4.4 |
| 15 | 3.3 | 3.3 | e3.4 | 3.7 | 8.0 | 5.9 | 8.2 | 7.7 | 8.5 | 7.0 | 5.0 | 4.3 |
| 16 | 3.2 | 3.3 | 3.5 | 3.7 | 9.3 | 7.3 | 8.1 | 7.8 | 8.5 | 6.9 | 5.0 | 4.3 |
| 17 | 3.2 | 3.4 | 3.5 | 3.7 | 6.5 | 6.3 | 8.2 | 7.8 | 8.5 | 6.6 | 4.9 | 4.3 |
| 18 | 3.2 | 3.4 | 3.5 | 3.7 | 5.3 | 7.0 | 8.1 | 7.7 | 8.5 | 6.5 | 5.0 | 4.3 |
| 19 | 3.2 | e3.3 | 3.5 | 3.7 | 5.3 | 8.0 | 7.9 | 7.6 | 8.5 | 6.4 | 5.0 | 4.3 |
| 20 | 3.2 | e3.2 | 3.5 | 3.7 | 4.9 | 8.3 | 7.8 | 7.6 | 8.4 | 6.4 | 5.0 | 4.2 |
| 21 | 3.2 | 3.3 | 3.5 | 3.6 | 4.8 | 7.9 | 7.9 | 7.6 | 8.3 | 6.6 | 4.9 | 4.2 |
| 22 | 3.2 | 3.3 | 3.5 | 3.6 | 4.7 | 7.4 | 7.8 | 7.7 | 8.2 | 10 | 5.2 | 4.2 |
| 23 | 3.2 | 3.3 | 3.5 | 3.6 | 4.6 | 7.6 | 7.8 | 7.7 | 8.4 | 8.0 | 5.1 | 7.4 |
| 24 | 3.2 | 3.3 | 3.5 | 3.5 | 4.5 | 7.6 | 7.8 | 7.8 | 8.5 | e7.2 | 5.2 | 5.4 |
| 25 | 3.2 | 3.9 | 3.5 | 3.5 | 4.5 | 7.6 | 7.8 | 7.8 | 8.6 | e6.6 | 4.8 | 8.4 |
| 26 | 3.2 | 3.6 | 3.5 | 3.5 | 4.6 | 7.5 | 7.8 | 7.8 | 8.5 | e6.2 | 5.2 | 7.8 |
| 27 | 3.2 | 3.4 | 3.5 | 3.5 | 4.6 | 7.6 | 7.8 | 7.8 | 8.4 | e5.8 | 4.7 | 6.1 |
| 28 | 3.2 | 3.5 | 3.5 | 3.5 | 4.7 | 7.7 | 7.7 | 7.9 | 8.3 | e5.6 | 4.6 | 5.6 |
| 29 | 3.2 | 4.4 | 3.5 | 3.5 | --- | 7.8 | 7.6 | 8.1 | 8.2 | e5.6 | 4.5 | 5.2 |
| 30 | 3.2 | 4.7 | 3.6 | 3.8 | --- | 7.8 | 7.6 | 8.2 | 8.2 | e5.4 | 4.5 | 5.0 |
| 31 | 3.2 | --- | 3.6 | 4.0 | --- | 7.9 | --- | 8.3 | --- | e5.3 | 5.0 | --- |
| TOTAL | 100.0 | 102.2 | 111.2 | 110.3 | 128.9 | 197.1 | 245.7 | 241.3 | 252.4 | 218.7 | 221.2 | 149.1 |
| MEAN | 3.23 | 3.41 | 3.59 | 3.56 | 4.60 | 6.36 | 8.19 | 7.78 | 8.41 | 7.05 | 7.14 | 4.97 |
| MAX | 3.8 | 4.7 | 4.0 | 4.0 | 9.3 | 8.3 | 8.9 | 8.3 | 8.6 | 10 | 60 | 8.4 |
| MIN | 3.1 | 3.2 | 3.2 | 3.4 | 3.6 | 4.6 | 7.6 | 7.5 | 8.2 | 5.3 | 4.5 | 4.2 |
| ACFT | 198 | 203 | 221 | 219 | 256 | 391 | 487 | 479 | 501 | 434 | 439 | 296 |

| | | | | | | | | | | |
|-------------|-------|--------|------|------|-----|----|-----|-----|------|------|
| CAL YR 1985 | TOTAL | 1949.1 | MEAN | 5.34 | MAX | 11 | MIN | 3.0 | ACFT | 3870 |
| WTR YR 1986 | TOTAL | 2078.1 | MEAN | 5.69 | MAX | 60 | MIN | 3.1 | ACFT | 4120 |

e Estimated.

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 mi².

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 poor. Beginning in June 1985 flow is diverted from the river into a pipeline, at a point approximately 20 miles upstream, into Quail Creek Reservoir, an offstream site, located about 1.0 mile above the gage, capacity 40,000 acre-feet.

AVERAGE DISCHARGE.--18 years (water years 1968-85), 246 ft³/s, 178,200 acre-ft/yr (prior to diversion to Quail Creek Reservoir).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,700 ft³/s Mar. 5, 1978, gage height, 16.28 ft; minimum, 23 ft³/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 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,100 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|--------------------------------|------------------|------|------|--------------------------------|------------------|
| Nov. 30 | 0030 | *1,560 | *4.48 | | | | |

Minimum daily discharge, 32 ft³/s Nov. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------|------|-------|
| 1 | 72 | 39 | 239 | e160 | e210 | e230 | e252 | 172 | 266 | 65 | e93 | 138 |
| 2 | 70 | 41 | 209 | e150 | e102 | e237 | e400 | 171 | 175 | 85 | e92 | 138 |
| 3 | 69 | 32 | 266 | e145 | e97 | e240 | e325 | 175 | 74 | 98 | e92 | 217 |
| 4 | 69 | 111 | 228 | e140 | e94 | e248 | e270 | 180 | e105 | 109 | e92 | 274 |
| 5 | 68 | 155 | 195 | e145 | e91 | e250 | e248 | 158 | e95 | 107 | e92 | 270 |
| 6 | 71 | 154 | 198 | e148 | e84 | e240 | e232 | 125 | 108 | 81 | e92 | 254 |
| 7 | 72 | 150 | 192 | e150 | e88 | e250 | e250 | 112 | 173 | 98 | e92 | 248 |
| 8 | 109 | 152 | 178 | e145 | e75 | e280 | e245 | 116 | e160 | 109 | e92 | 255 |
| 9 | 136 | 153 | 173 | 141 | e56 | e320 | e325 | 146 | e150 | 98 | e130 | 258 |
| 10 | 88 | 155 | 158 | 168 | e50 | e370 | e295 | 194 | 138 | 81 | e116 | 217 |
| 11 | 85 | 156 | 159 | 186 | 57 | e420 | e262 | 188 | 152 | 77 | e93 | 199 |
| 12 | 80 | 212 | 148 | 184 | 58 | 318 | e260 | 175 | e172 | 75 | e90 | 208 |
| 13 | 81 | 146 | 133 | 182 | 82 | 403 | e290 | 163 | 193 | 75 | e117 | 208 |
| 14 | 79 | 90 | 144 | 179 | 98 | 274 | e290 | 159 | 232 | 93 | 149 | 205 |
| 15 | 65 | 53 | 147 | 185 | 361 | 227 | e260 | 158 | 252 | 96 | 83 | 211 |
| 16 | 40 | 55 | 149 | 192 | 729 | 240 | e300 | 166 | 257 | 121 | 74 | 202 |
| 17 | 40 | 62 | 147 | 187 | 487 | 293 | e290 | 176 | 263 | e100 | 69 | 202 |
| 18 | 39 | 71 | 143 | 188 | 391 | 241 | e288 | 175 | 270 | e95 | 71 | 217 |
| 19 | 40 | 55 | 147 | 188 | 517 | 190 | e286 | 169 | 217 | e103 | 72 | 233 |
| 20 | 38 | 35 | 126 | 186 | 615 | 240 | e284 | 164 | 175 | e138 | 75 | 252 |
| 21 | 37 | 57 | 80 | 187 | 289 | 301 | e280 | 157 | e168 | e148 | 78 | 217 |
| 22 | 36 | 111 | 157 | 191 | 234 | 233 | e260 | 193 | 150 | e152 | 77 | 205 |
| 23 | 46 | 158 | 154 | 186 | 221 | 242 | 263 | 197 | 150 | e152 | 54 | 343 |
| 24 | 47 | 162 | 156 | 186 | e230 | e228 | 246 | 199 | 160 | e137 | 65 | 371 |
| 25 | 44 | 201 | 157 | 189 | e230 | e210 | 217 | 201 | 143 | e113 | 107 | 444 |
| 26 | 40 | 287 | 157 | 190 | e230 | e215 | 204 | 205 | 130 | e103 | 186 | 403 |
| 27 | 45 | 158 | 154 | 188 | e222 | e208 | 182 | 224 | 116 | e96 | 148 | 266 |
| 28 | 50 | 136 | 145 | 189 | e220 | e218 | 130 | 274 | 76 | e94 | 145 | 224 |
| 29 | 65 | 245 | 141 | 191 | --- | e225 | 141 | 242 | e65 | e94 | 141 | 360 |
| 30 | 52 | 651 | e145 | e195 | --- | e260 | 165 | 272 | 63 | e93 | 140 | 383 |
| 31 | 45 | --- | e150 | e210 | --- | e274 | --- | 268 | --- | e93 | 134 | --- |
| TOTAL | 1918 | 4243 | 5075 | 5451 | 6218 | 8125 | 7740 | 5674 | 4848 | 3179 | 3151 | 7622 |
| MEAN | 61.9 | 141 | 164 | 176 | 222 | 262 | 258 | 183 | 162 | 103 | 102 | 254 |
| MAX | 136 | 651 | 266 | 210 | 729 | 420 | 400 | 274 | 270 | 152 | 186 | 444 |
| MIN | 36 | 32 | 80 | 140 | 50 | 190 | 130 | 112 | 63 | 65 | 54 | 138 |
| ACFT | 3800 | 8420 | 10070 | 10810 | 12330 | 16120 | 15350 | 11250 | 9620 | 6310 | 6250 | 15120 |
| CAL YR 1985 | TOTAL | 69120 | MEAN | 189 | MAX | 982 | MIN | 32 | ACFT | 137100 | | |
| WTR YR 1986 | TOTAL | 63244 | MEAN | 173 | MAX | 729 | MIN | 32 | ACFT | 125400 | | |

e Estimated.

VIRGIN RIVER BASIN

189

09408195 FORT PIERCE WASH NEAR ST. GEORGE, UT

LOCATION.--Lat 37°00'03", long 113°28'05", in SE1/4NE1/2SW1/4 sec.31, T.43S, R.14W.,, Washington County, Hydrologic Unit 15010009, on left bank upstream of road crossing, and approximately 10 mi southeast of St. George, Ut.

DRAINAGE AREA.--700 mi².

PERIOD OF RECORD.--September 1984 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,800 ft from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 394 ft³/s Oct. 12, 1984, gage height 6.29 ft; no flow for extended periods during year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 265 ft³/s Sept. 23, gage height 5.86 ft, from floodmarks; no flow for extended periods during year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|-----|------|------|-----|-----|------|-----|------|------|
| 1 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | e.00 |
| 2 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | e.00 |
| 3 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | e.00 |
| 4 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | e.00 |
| 5 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | e.00 |
| 6 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | e.00 |
| 7 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | e.00 |
| 8 | 1.0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | e.00 |
| 9 | 2.5 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | e.00 |
| 10 | 2.6 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | e.00 |
| 11 | 2.5 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | e.00 |
| 12 | 2.5 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | e.00 |
| 13 | 2.5 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | e.00 |
| 14 | 1.6 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | e.00 |
| 15 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | e.00 |
| 16 | .00 | .00 | .00 | .00 | .08 | .00 | .00 | .00 | .00 | .00 | .00 | e.00 |
| 17 | .00 | .00 | .00 | .00 | 1.1 | .66 | .00 | .00 | .00 | .00 | .00 | e.00 |
| 18 | .00 | .00 | .00 | .00 | 1.1 | .80 | .00 | .00 | .00 | .00 | .00 | e.00 |
| 19 | .00 | .00 | .00 | .00 | .43 | .87 | .00 | .00 | .00 | .00 | .00 | e.00 |
| 20 | .00 | .00 | .00 | .00 | .00 | .07 | .00 | .00 | .00 | .00 | .00 | e.00 |
| 21 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | e.50 | e.00 |
| 22 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | e.20 | e.00 |
| 23 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .07 | e.00 | e.15 |
| 24 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .66 | e.00 | e.70 |
| 25 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .22 | e.00 | e.40 |
| 26 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | e.00 | e.30 |
| 27 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | e.00 | e.30 |
| 28 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | e.00 | e.30 |
| 29 | .00 | .00 | .00 | .00 | --- | .00 | .00 | .00 | .00 | .00 | e.00 | e.30 |
| 30 | .00 | .00 | .00 | .00 | --- | .00 | .00 | .00 | .00 | .00 | e.00 | e.30 |
| 31 | .00 | --- | .00 | .00 | --- | .00 | --- | .00 | --- | .00 | e.00 | --- |
| TOTAL | 15.20 | .00 | .00 | .00 | 2.71 | 2.40 | .00 | .00 | .00 | .95 | .70 | 2.75 |
| MEAN | .49 | .00 | .00 | .00 | .10 | .08 | .00 | .00 | .00 | .03 | .02 | .09 |
| MAX | 2.6 | .00 | .00 | .00 | 1.1 | .87 | .00 | .00 | .00 | .66 | .50 | .70 |
| MIN | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| ACFT | 30 | .00 | .00 | .00 | 5.4 | 4.8 | .00 | .00 | .00 | 1.9 | 1.4 | 5.5 |
| CAL YR 1985 | TOTAL | 27.26 | MEAN | .07 | MAX | 2.6 | MIN | .00 | ACFT | 54 | | |
| WTR YR 1986 | TOTAL | 24.71 | MEAN | .07 | MAX | 2.6 | MIN | .00 | ACFT | 49 | | |

e Estimated.

VIRGIN RIVER BASIN

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 mi².

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 estimated daily discharges, which are fair. Flow slightly regulated by Pine Valley Reservoir. No diversion above station.

AVERAGE DISCHARGE.--27 years, 10.4 ft³/s, 7,530 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 776 ft³/s Dec. 6, 1966, gage height, 6.85 ft; minimum, 0.37 ft³/s Mar. 30, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 60 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Apr. 2 | 0200 | *29 | *2.03 | | | | |

Minimum daily discharge, 1.8 ft³/s Jan. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|-------|-------|------|------|-------|-------|------|------|
| 1 | 2.5 | 2.4 | 2.7 | e2.5 | 2.6 | 6.9 | 23 | 21 | 13 | 5.8 | 3.3 | 2.8 |
| 2 | 2.3 | 2.5 | 3.3 | e2.5 | 2.4 | 7.1 | 25 | 22 | 13 | 5.7 | 3.3 | 2.6 |
| 3 | 2.3 | 2.5 | 3.1 | e2.5 | 2.3 | 6.9 | 21 | 23 | 12 | 5.6 | 3.2 | 2.5 |
| 4 | 2.3 | 2.5 | 3.2 | e2.5 | 2.3 | 6.8 | 19 | 23 | 12 | 5.4 | 3.2 | 2.5 |
| 5 | 2.2 | 2.5 | 3.3 | e2.3 | 2.2 | 6.8 | 19 | 19 | 11 | 5.4 | 3.2 | 2.4 |
| 6 | 2.2 | 2.4 | 3.2 | e2.1 | 2.3 | 6.7 | 19 | 17 | 11 | 5.3 | 3.4 | 2.4 |
| 7 | 2.6 | 2.4 | 3.0 | e2.1 | e2.0 | 6.7 | 18 | 15 | 9.8 | 5.3 | 3.1 | 2.4 |
| 8 | 4.1 | 2.4 | 2.9 | e1.8 | e1.9 | 7.5 | 17 | 14 | 10 | 5.0 | 2.9 | 2.4 |
| 9 | 4.0 | 2.4 | 2.7 | e1.9 | e1.9 | 9.4 | 15 | 13 | 10 | 4.9 | 2.9 | 2.4 |
| 10 | 3.9 | 2.4 | 2.5 | e2.0 | e1.9 | 8.3 | 15 | 13 | 9.3 | 4.7 | 3.4 | 2.4 |
| 11 | 3.5 | 2.8 | e2.3 | e2.1 | 2.1 | 7.8 | 14 | 13 | 8.9 | 4.6 | 3.2 | 2.4 |
| 12 | 3.0 | 2.9 | e2.3 | e2.1 | 2.0 | 7.1 | 15 | 12 | 8.5 | 4.5 | 2.9 | 2.4 |
| 13 | 2.9 | 2.6 | e2.3 | e2.1 | 2.5 | 6.7 | 15 | 12 | 8.2 | 4.5 | 2.9 | 2.3 |
| 14 | 2.7 | e2.2 | e2.3 | e2.1 | 2.5 | 6.8 | 14 | 13 | 8.0 | 4.4 | 3.3 | 2.3 |
| 15 | 2.7 | 2.7 | e2.4 | e2.1 | 4.1 | 6.3 | 14 | 14 | 7.7 | 4.5 | 2.9 | 2.3 |
| 16 | 2.7 | 2.9 | e2.5 | e2.1 | 3.6 | 6.9 | 14 | 14 | 7.7 | 4.4 | 2.8 | 2.2 |
| 17 | 2.6 | 3.1 | e2.5 | 2.2 | 3.8 | 6.5 | 14 | 13 | 7.6 | 4.3 | 2.7 | 2.3 |
| 18 | 2.6 | 2.9 | e2.6 | 2.2 | 4.5 | 5.9 | 13 | 14 | 7.4 | 4.0 | 2.7 | 2.2 |
| 19 | 2.5 | e2.7 | e2.6 | 2.2 | 7.0 | 5.9 | 12 | 14 | 7.2 | 3.9 | 2.7 | 2.1 |
| 20 | 2.5 | 2.8 | e2.7 | 2.3 | 6.7 | 7.6 | 12 | 15 | 7.0 | 4.0 | 2.6 | 2.3 |
| 21 | 2.5 | 2.6 | e2.7 | 2.1 | 5.0 | 11 | 15 | 17 | 6.9 | 4.2 | 2.6 | 2.2 |
| 22 | 2.7 | 2.5 | e2.6 | 2.1 | 4.2 | 13 | 20 | 16 | 6.7 | 6.5 | 4.2 | 2.3 |
| 23 | 2.5 | 2.5 | e2.5 | 2.1 | 3.9 | 14 | 24 | 15 | 6.7 | 5.0 | 3.3 | 4.2 |
| 24 | 2.6 | 2.6 | e2.5 | 2.0 | 3.9 | 14 | 23 | 14 | 6.6 | 4.3 | 3.1 | 3.9 |
| 25 | 2.5 | 2.7 | e2.5 | 2.0 | 4.9 | 14 | 19 | 14 | 6.5 | 4.1 | 3.1 | 5.2 |
| 26 | 2.5 | 2.6 | e2.5 | 2.0 | 6.2 | 14 | 18 | 15 | 6.2 | 4.0 | 3.2 | 4.4 |
| 27 | 2.5 | 2.5 | e2.5 | 2.0 | 7.0 | 16 | 16 | 15 | 6.2 | 3.8 | 3.0 | 4.2 |
| 28 | 2.5 | 2.5 | e2.6 | 2.0 | 7.2 | 19 | 17 | 15 | 6.1 | 3.6 | 2.9 | 4.0 |
| 29 | 2.4 | 3.2 | e2.7 | 2.0 | --- | 22 | 19 | 15 | 6.0 | 3.5 | 2.9 | 3.8 |
| 30 | 2.4 | 3.0 | e2.8 | 2.3 | --- | 23 | 21 | 14 | 5.9 | 3.5 | 2.7 | 3.6 |
| 31 | 2.5 | --- | e2.7 | 3.2 | --- | 23 | --- | 14 | --- | 3.4 | 2.8 | --- |
| TOTAL | 83.7 | 78.7 | 83.0 | 67.5 | 102.9 | 323.6 | 520 | 478 | 253.1 | 142.1 | 94.4 | 85.4 |
| MEAN | 2.70 | 2.62 | 2.68 | 2.18 | 3.67 | 10.4 | 17.3 | 15.4 | 8.44 | 4.58 | 3.05 | 2.85 |
| MAX | 4.1 | 3.2 | 3.3 | 3.2 | 7.2 | 23 | 25 | 23 | 13 | 6.5 | 4.2 | 5.2 |
| MIN | 2.2 | 2.2 | 2.3 | 1.8 | 1.9 | 5.9 | 12 | 12 | 5.9 | 3.4 | 2.6 | 2.1 |
| ACFT | 166 | 156 | 165 | 134 | 204 | 642 | 1030 | 948 | 502 | 282 | 187 | 169 |

| | | | | | | | | | | |
|-------------|-------|--------|------|------|-----|----|-----|-----|------|------|
| CAL YR 1985 | TOTAL | 2486.6 | MEAN | 6.81 | MAX | 43 | MIN | 1.6 | ACFT | 4930 |
| WTR YR 1986 | TOTAL | 2312.4 | MEAN | 6.34 | MAX | 25 | MIN | 1.8 | ACFT | 4590 |

e Estimated.

VIRGIN RIVER BASIN

191

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 except for estimated daily discharges, which are fair. 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.--26 years (1953-62, 1969-86), 3.71 ft³/s, 2,690 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 229 ft³/s May 24, 1983, gage height, 2.58 ft; no flow for part of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 63 ft³/s May 15, gage height, 1.94 ft; no flow for extended periods during year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|------|------|-------|-------|------|-------|-------|------|-----|-----|
| 1 | .00 | .00 | .66 | .00 | .13 | 2.6 | 28 | 14 | 3.6 | .00 | .00 | .00 |
| 2 | .00 | .00 | .61 | .00 | .08 | 3.5 | 30 | 14 | 3.2 | .00 | .00 | .00 |
| 3 | .00 | .00 | .53 | .00 | .06 | 3.5 | 26 | 14 | 3.1 | .00 | .00 | .00 |
| 4 | .00 | .00 | .28 | .00 | .00 | e3.2 | 25 | 14 | 2.7 | .00 | .00 | .00 |
| 5 | .00 | .00 | .28 | .00 | .00 | e3.2 | 24 | 13 | 1.9 | .00 | .00 | .00 |
| 6 | .00 | .00 | .28 | .00 | .00 | e2.8 | 24 | 13 | 1.5 | .00 | .00 | .00 |
| 7 | .00 | .00 | e.17 | .00 | .00 | 5.3 | 25 | 13 | 2.3 | .00 | .00 | .00 |
| 8 | .00 | .00 | e.07 | .00 | .00 | e6.7 | 22 | 13 | 1.9 | .00 | .00 | .00 |
| 9 | .00 | .00 | e.00 | .00 | .00 | 9.2 | 19 | 12 | 2.5 | .00 | .00 | .00 |
| 10 | .00 | .00 | e.00 | .00 | .00 | 8.5 | 16 | 8.6 | 1.8 | .00 | .00 | .00 |
| 11 | .00 | .00 | e.00 | e.00 | .00 | 8.9 | 15 | 7.4 | 1.4 | .00 | .00 | .00 |
| 12 | .00 | .00 | e.00 | e.06 | .00 | 8.2 | 15 | 4.5 | .89 | .00 | .00 | .00 |
| 13 | .00 | .00 | e.00 | e.10 | .00 | 7.9 | 15 | 2.3 | .64 | .00 | .00 | .00 |
| 14 | .00 | .00 | e.00 | e.14 | .00 | 6.4 | 14 | 2.3 | .27 | .00 | .00 | .00 |
| 15 | .00 | .00 | e.00 | e.17 | e3.7 | 6.1 | 14 | 6.0 | .00 | .00 | .00 | .00 |
| 16 | .00 | .00 | e.00 | e.20 | e2.8 | 6.7 | 14 | 5.2 | .00 | .00 | .00 | .00 |
| 17 | .00 | .00 | e.00 | .28 | e2.6 | 7.0 | 14 | 4.8 | .00 | .00 | .00 | .00 |
| 18 | .00 | .00 | e.00 | .24 | 1.7 | 5.6 | 14 | 4.5 | .00 | .00 | .00 | .00 |
| 19 | .00 | .00 | e.00 | .24 | 1.7 | 7.3 | 14 | 4.2 | .00 | .00 | .00 | .00 |
| 20 | .00 | .00 | e.00 | .24 | 1.3 | 9.2 | 12 | 4.3 | .00 | .00 | .00 | .00 |
| 21 | .00 | .00 | e.00 | .28 | 1.2 | 14 | 13 | 5.0 | .00 | .00 | .00 | .00 |
| 22 | .00 | .00 | e.00 | .28 | 1.1 | 17 | 14 | 6.1 | .00 | .00 | .00 | .00 |
| 23 | .00 | .00 | e.00 | .24 | .74 | 20 | 16 | 5.4 | .00 | .00 | .00 | .00 |
| 24 | .00 | .00 | e.00 | .20 | .66 | 21 | 15 | 5.2 | .00 | .00 | .00 | .00 |
| 25 | .00 | .24 | e.00 | .20 | .74 | 20 | 14 | 4.6 | .00 | .00 | .00 | .00 |
| 26 | .00 | .41 | e.00 | .20 | .82 | 20 | 14 | 4.6 | .00 | .00 | .00 | .00 |
| 27 | .00 | .16 | e.00 | .20 | 1.2 | 21 | 14 | 4.7 | .00 | .00 | .00 | .00 |
| 28 | .00 | .34 | e.00 | .20 | 1.8 | 23 | 13 | 5.5 | .00 | .00 | .00 | .00 |
| 29 | .00 | .60 | e.00 | .20 | --- | 26 | 12 | 5.5 | .00 | .00 | .00 | .00 |
| 30 | .00 | .45 | .00 | .20 | --- | 36 | 13 | 4.8 | .00 | .00 | .00 | .00 |
| 31 | .00 | --- | .00 | .16 | --- | 31 | --- | 4.1 | --- | .00 | .00 | --- |
| TOTAL | .00 | 2.20 | 2.88 | 4.03 | 22.33 | 370.8 | 518 | 229.6 | 27.70 | .00 | .00 | .00 |
| MEAN | .00 | .07 | .09 | .13 | .80 | 12.0 | 17.3 | 7.41 | .92 | .00 | .00 | .00 |
| MAX | .00 | .60 | .66 | .28 | 3.7 | 36 | 30 | 14 | 3.6 | .00 | .00 | .00 |
| MIN | .00 | .00 | .00 | .00 | .00 | 2.6 | 12 | 2.3 | .00 | .00 | .00 | .00 |
| ACFT | .00 | 4.4 | 5.7 | 8.0 | 44 | 735 | 1030 | 455 | 55 | .00 | .00 | .00 |
| CAL YR 1985 | TOTAL | 1051.84 | MEAN | 2.88 | MAX | 45 | MIN | .00 | ACFT | 2090 | | |
| WTR YR 1986 | TOTAL | 1177.54 | MEAN | 3.23 | MAX | 36 | MIN | .00 | ACFT | 2340 | | |

e Estimated.

VIRGIN RIVER BASIN

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 mi².

PERIOD OF RECORD.--August 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,628 ft from topographic map.

REMARKS.--Records poor. Many diversions for irrigation above station. Flow regulated by several reservoirs and powerplant above station.

AVERAGE DISCHARGE.--17 years, 26.5 ft³/s, 19,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,810 ft³/s Feb. 14, 1980, gage height, 5.74 ft from rating curve extended above 1,580 ft³/s; no flow several days during 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 25 ft³/s July 23; minimum daily discharge, 2.9 ft³/s Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|-------|-------|------|------|-------|-------|-------|-------|-------|
| 1 | 2.9 | 7.7 | 15 | e10 | 9.1 | 14 | 12 | e11 | e11 | 9.1 | 9.2 | 7.5 |
| 2 | 3.8 | 7.4 | 15 | e10 | 8.8 | 13 | 12 | 11 | e13 | 11 | 8.9 | 7.9 |
| 3 | 5.0 | 7.2 | 13 | e9.5 | 8.3 | 13 | 13 | e12 | e14 | 9.9 | 9.2 | 5.9 |
| 4 | 4.5 | 7.9 | e13 | e9.3 | 8.3 | 13 | 13 | 9.6 | 17 | 8.5 | 6.3 | 5.0 |
| 5 | 4.6 | 7.4 | e13 | e9.0 | 8.5 | 14 | 12 | e12 | 16 | 6.6 | 5.9 | 4.2 |
| 6 | 5.3 | 7.4 | e14 | e8.9 | 8.6 | 14 | 12 | 9.9 | 14 | 8.0 | 6.5 | 4.2 |
| 7 | 5.2 | 7.7 | e14 | e8.8 | 8.1 | 13 | 12 | e12 | 13 | 9.0 | 6.8 | 5.6 |
| 8 | 8.4 | 8.1 | e14 | e8.6 | 8.1 | 13 | 13 | 11 | 13 | 7.9 | 5.5 | 4.5 |
| 9 | 9.8 | 7.7 | e14 | e8.6 | 7.7 | 13 | 13 | 12 | 16 | 6.2 | 6.0 | 4.2 |
| 10 | 9.3 | 8.6 | e14 | e8.6 | 7.5 | 14 | 12 | e12 | 14 | 7.3 | 6.4 | 6.4 |
| 11 | 8.5 | 8.7 | e14 | e8.6 | 7.8 | 14 | 13 | 11 | 16 | 5.7 | 5.3 | 5.0 |
| 12 | 9.2 | 9.8 | e14 | e8.5 | 8.0 | 16 | 14 | 12 | 14 | 5.0 | 6.4 | 4.3 |
| 13 | 8.6 | 7.8 | e14 | e8.4 | 8.3 | 15 | 12 | e12 | 11 | 5.6 | 5.8 | 4.4 |
| 14 | 8.0 | 10 | e14 | e8.3 | 8.1 | 13 | 13 | 12 | 10 | 8.5 | 6.6 | 4.0 |
| 15 | 6.7 | 11 | e13 | e8.2 | 11 | 15 | 14 | 10 | 12 | 9.3 | 5.0 | 4.4 |
| 16 | 6.7 | 12 | 13 | 8.1 | 10 | 13 | 11 | e10 | 11 | 9.0 | 5.1 | 7.5 |
| 17 | 6.5 | 11 | 13 | 8.1 | 10 | 14 | 13 | 11 | 10 | 8.9 | 4.7 | 7.5 |
| 18 | 6.0 | 13 | 13 | 8.0 | 11 | 14 | 13 | e11 | 9.6 | 7.6 | 4.5 | 6.6 |
| 19 | 6.5 | 15 | 13 | 8.1 | 11 | 11 | 13 | 12 | 9.2 | 7.9 | 5.4 | 6.5 |
| 20 | 7.0 | 15 | 13 | 8.3 | 13 | 13 | 12 | e10 | 8.8 | 10 | 6.5 | e6.4 |
| 21 | 6.5 | 12 | 13 | 8.4 | 15 | 14 | 13 | 10 | 7.2 | 14 | 6.4 | e6.2 |
| 22 | 7.6 | 14 | e12 | 8.3 | 16 | 14 | 13 | e11 | 9.7 | 18 | 7.1 | e6.0 |
| 23 | 7.4 | 13 | e12 | 8.1 | 15 | 14 | 12 | 11 | 10 | 25 | 6.3 | e6.0 |
| 24 | 7.2 | 12 | e12 | 8.1 | 14 | 13 | 11 | e11 | 11 | 20 | 5.4 | e6.0 |
| 25 | 7.2 | 11 | e12 | 8.1 | 14 | 14 | 10 | 12 | 10 | 15 | 6.0 | e6.0 |
| 26 | 7.2 | 12 | e11 | 8.1 | 14 | 12 | 11 | e12 | 8.2 | 12 | 6.5 | e6.0 |
| 27 | 6.5 | 13 | e11 | 8.0 | 12 | 13 | 13 | 13 | 7.2 | 13 | 7.6 | e6.0 |
| 28 | 6.6 | 13 | e11 | 8.0 | 13 | 13 | 13 | e11 | 7.6 | 15 | 6.5 | e6.0 |
| 29 | 6.7 | 13 | e11 | 8.1 | --- | 12 | e12 | e11 | 7.9 | 16 | 5.3 | e6.0 |
| 30 | 7.3 | 14 | e10 | 8.7 | --- | 12 | 11 | e12 | 8.5 | 16 | 5.3 | e6.1 |
| 31 | 6.9 | --- | e10 | 8.8 | --- | 12 | --- | e10 | --- | 13 | 7.1 | --- |
| TOTAL | 209.6 | 317.4 | 398 | 264.6 | 294.2 | 415 | 371 | 347.5 | 339.9 | 338.0 | 195.5 | 172.3 |
| MEAN | 6.76 | 10.6 | 12.8 | 8.54 | 10.5 | 13.4 | 12.4 | 11.2 | 11.3 | 10.9 | 6.31 | 5.74 |
| MAX | 9.8 | 15 | 15 | 10 | 16 | 16 | 14 | 13 | 17 | 25 | 9.2 | 7.9 |
| MIN | 2.9 | 7.2 | 10 | 8.0 | 7.5 | 11 | 10 | 9.6 | 7.2 | 5.0 | 4.5 | 4.0 |
| ACFT | 416 | 630 | 789 | 525 | 584 | 823 | 736 | 689 | 674 | 670 | 388 | 342 |
| CAL YR 1985 | TOTAL | 3906.1 | MEAN | 10.7 | MAX | 21 | MIN | 1.3 | ACFT | 7750 | | |
| WTR YR 1986 | TOTAL | 3663.0 | MEAN | 10.0 | MAX | 25 | MIN | 2.9 | ACFT | 7270 | | |

e Estimated.

VIRGIN RIVER BASIN

193

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 mi².

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 poor.

AVERAGE DISCHARGE.--14 years, 28.5 ft³/s, 20,650 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,770 ft³/s Mar. 3, 1983, gage height, 6.07 ft from rating curve extended above 980 ft³/s on basis of slope-area measurement; no flow several days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 50 ft³/s June 8, gage height, 1.83 ft; minimum, no flow several days in August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|------|-------|--------|--------|-------|-------|-------|-------|--------|--------|
| 1 | 6.2 | e.20 | e.20 | e.20 | e6.8 | e.20 | 8.0 | 15 | 5.1 | 17 | 14 | 9.6 |
| 2 | 6.2 | e.20 | e.20 | e.20 | e19 | e1.2 | 20 | 22 | 5.0 | 17 | 14 | 3.4 |
| 3 | 5.4 | e.20 | e.20 | e.20 | e19 | e1.2 | 20 | 21 | 5.1 | 16 | 14 | 3.4 |
| 4 | e.20 | e.20 | e.20 | e.20 | e8.3 | e5.7 | 22 | 24 | 5.3 | 16 | 13 | 3.4 |
| 5 | e.20 | e.20 | e.20 | e.20 | e12 | 11 | 22 | 27 | 6.7 | 16 | 13 | 6.0 |
| 6 | e.20 | e.20 | e.20 | e.20 | e.10 | 13 | 22 | 27 | 9.4 | 16 | 14 | 13 |
| 7 | e.20 | e.20 | e.20 | e.20 | e.10 | 22 | 22 | 27 | 9.6 | 16 | 13 | 10 |
| 8 | e14 | e.20 | e.20 | e.20 | e.10 | 20 | 22 | 23 | 13 | 16 | 12 | 11 |
| 9 | e14 | e.20 | e.20 | e.20 | e.10 | 9.9 | 21 | 20 | 11 | 15 | 12 | 12 |
| 10 | e14 | e.20 | e.20 | e.20 | e.10 | 9.9 | 19 | 15 | 10 | 15 | e4.0 | 10 |
| 11 | e.20 | e1.0 | e.20 | e.20 | e.10 | 10 | 18 | 14 | 7.4 | 15 | e.00 | 12 |
| 12 | e.20 | e9.4 | e.20 | e.20 | e.10 | 9.8 | 17 | 14 | 9.1 | 15 | e.00 | 11 |
| 13 | e.20 | e9.4 | e.20 | e.20 | e.10 | 9.3 | 19 | 19 | 9.3 | 15 | e5.0 | 11 |
| 14 | e.20 | e9.4 | e.20 | e.20 | e.10 | 8.6 | 20 | 24 | 8.7 | 14 | e9.0 | 7.4 |
| 15 | e.20 | e9.4 | e.20 | e.20 | e.10 | 7.8 | 20 | 25 | 14 | 15 | 13 | e.00 |
| 16 | e.20 | e1.1 | e.20 | e.20 | e.10 | 8.2 | 20 | 24 | 18 | 15 | 11 | e.00 |
| 17 | e.20 | e.20 | e.20 | e.20 | e.10 | 7.5 | 20 | 25 | 18 | 14 | 12 | e.00 |
| 18 | e.20 | e.20 | e.20 | e.20 | e.10 | 5.6 | 18 | 25 | 18 | 14 | 13 | e.00 |
| 19 | e.20 | e.20 | e.20 | e.20 | e.10 | 2.8 | 18 | 25 | 17 | 14 | 13 | e.00 |
| 20 | e.20 | e.20 | e.20 | e.20 | e.10 | 1.4 | 17 | 25 | 18 | 14 | 13 | e6.2 |
| 21 | e.20 | e.20 | e.20 | e.20 | e.10 | 11 | 17 | 25 | 18 | 15 | 13 | e11 |
| 22 | e.20 | e.20 | e.20 | e.20 | e.10 | 15 | 22 | 25 | 18 | 14 | 16 | e11 |
| 23 | e.20 | e.20 | e.20 | e.20 | e.10 | 15 | 22 | 14 | 18 | 8.3 | 15 | e.90 |
| 24 | e.20 | e.20 | e.20 | e.80 | e.10 | 12 | 21 | 1.1 | 18 | 7.7 | 15 | e.00 |
| 25 | e.20 | e.20 | e.20 | e4.0 | e12 | 11 | 18 | 5.7 | 17 | 9.0 | 15 | e.00 |
| 26 | e.20 | e.20 | e.20 | e4.0 | e14 | 12 | 18 | 5.6 | 17 | 16 | 17 | e.00 |
| 27 | e.20 | e.20 | e.20 | e4.0 | e9.9 | 13 | 18 | 5.0 | 17 | 15 | 16 | e.00 |
| 28 | e.20 | e.20 | e.20 | e4.0 | e.40 | 8.0 | 19 | 5.1 | 17 | 15 | 15 | e.00 |
| 29 | e.20 | e.20 | e.20 | e2.0 | --- | 2.1 | 18 | 5.2 | 17 | 15 | 15 | e.00 |
| 30 | e.20 | e.20 | e.20 | e2.0 | --- | 2.1 | 16 | 4.9 | 17 | 14 | 15 | e.00 |
| 31 | e.20 | --- | e.20 | e3.5 | --- | 2.0 | --- | 5.1 | --- | 14 | 14 | --- |
| TOTAL | 64.80 | 44.50 | 6.20 | 28.90 | 103.30 | 268.30 | 574.0 | 542.7 | 391.7 | 448.0 | 378.00 | 152.30 |
| MEAN | 2.09 | 1.48 | .20 | .93 | 3.69 | 8.65 | 19.1 | 17.5 | 13.1 | 14.5 | 12.2 | 5.08 |
| MAX | 14 | 9.4 | .20 | 4.0 | 19 | 22 | 22 | 27 | 18 | 17 | 17 | 13 |
| MIN | .20 | .20 | .20 | .20 | .10 | .20 | 8.0 | 1.1 | 5.0 | 7.7 | .00 | .00 |
| ACFT | 129 | 88 | 12 | 57 | 205 | 532 | 1140 | 1080 | 777 | 889 | 750 | 302 |
| CAL YR 1985 | TOTAL | 3535.76 | MEAN | 9.69 | MAX | 26 | MIN | .20 | ACFT | 7010 | | |
| WTR YR 1986 | TOTAL | 3002.70 | MEAN | 8.23 | MAX | 27 | MIN | .00 | ACFT | 5960 | | |

e Estimated.

VIRGIN RIVER BASIN

09413000 SANTA CLARA RIVER AT ST. GEORGE, UT

LOCATION.--Lat 37°04'26", long 113°34'56", in NE1/4NW1/4SW1/4 sec.6, T.43 S., R.15 W., on right bank 0.25 mi upstream from mouth and 2 mi south of St. George.

DRAINAGE AREA.--540 mi², approximately.

PERIOD OF RECORD.--October 1950 to September 1956. November 1984 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,560 ft from topographic map. October 1950 to September 1956, gage located 0.25 mi upstream from present site at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by reservoirs and many diversions for irrigation above station.

AVERAGE DISCHARGE.--7 years (1950-56, 1986), 8.36 ft³/s, 6,060 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,200 ft³/s Aug. 24, 1955, gage height, 10.02 ft from rating curve extended above 400 ft³/s on basis of indirect measurements at gage heights 7.31 and 9.48 ft, site and datum then in use; no flow at times in 1951, 1953, 1955-56.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 55 ft³/s Nov. 22, gage height, 2.25 ft; minimum daily discharge, 0.64 ft³/s July 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| 1 | 7.0 | 4.7 | 6.2 | 5.2 | 3.8 | 4.2 | 8.6 | 3.9 | 4.0 | e3.7 | e3.0 | e6.1 |
| 2 | 7.3 | 4.4 | 8.7 | 5.2 | 4.6 | 3.7 | 9.5 | 6.5 | 3.0 | e3.6 | e3.1 | e6.3 |
| 3 | 10 | 4.2 | 8.9 | 5.3 | 4.3 | 4.1 | 11 | 6.0 | 1.0 | 3.6 | e3.5 | e6.5 |
| 4 | 8.0 | 3.5 | 7.7 | 5.4 | 4.2 | 4.3 | 11 | 5.9 | 3.7 | 3.3 | e3.2 | e5.4 |
| 5 | 5.8 | 5.2 | 7.4 | 5.2 | 4.1 | 4.5 | 13 | 8.8 | 3.3 | e2.5 | e3.0 | e6.0 |
| 6 | 6.0 | 5.2 | 7.5 | 5.0 | 4.0 | 5.3 | 16 | 6.3 | e3.2 | e2.2 | e3.2 | e6.5 |
| 7 | 6.0 | 5.5 | 7.2 | 4.7 | 3.7 | 5.4 | 13 | 5.3 | e3.0 | 1.9 | e3.7 | e7.0 |
| 8 | 9.0 | e5.6 | 6.9 | 4.1 | 3.5 | 6.5 | 18 | 7.7 | e2.5 | 3.0 | e3.4 | e6.3 |
| 9 | 7.0 | e7.0 | 7.2 | 4.2 | 3.6 | 6.2 | 15 | 6.4 | e2.0 | 4.0 | e3.3 | e5.9 |
| 10 | 6.7 | e8.6 | 7.1 | 4.0 | 3.6 | 10 | 9.3 | 5.8 | 1.7 | e4.0 | e3.4 | e6.4 |
| 11 | 6.4 | e9.6 | 6.9 | 4.0 | 3.5 | 9.0 | 8.9 | 5.4 | 3.2 | 3.5 | e3.5 | e6.7 |
| 12 | 6.4 | 8.9 | 6.5 | 4.0 | 3.4 | 7.3 | 8.6 | 6.0 | 3.1 | 2.7 | e3.9 | e7.0 |
| 13 | 6.1 | 6.8 | 6.4 | 4.2 | 4.6 | 7.0 | 8.0 | 5.7 | e3.1 | 1.0 | e4.3 | e7.2 |
| 14 | 5.8 | 7.8 | 6.5 | 4.4 | 3.6 | 6.7 | 11 | 6.0 | e3.0 | .64 | e3.7 | e7.4 |
| 15 | 5.5 | 7.3 | 6.4 | 4.6 | 8.0 | 7.0 | 9.4 | 7.0 | e3.0 | 2.1 | e4.8 | e6.4 |
| 16 | 5.2 | 8.5 | 6.5 | 4.4 | 6.9 | 9.4 | 9.6 | 7.1 | e3.0 | e2.3 | e5.1 | e6.6 |
| 17 | 5.2 | 9.6 | 6.0 | 4.5 | 5.0 | 12 | 11 | 7.3 | e2.9 | e2.4 | e4.7 | e6.8 |
| 18 | 5.2 | 14 | 6.2 | 4.6 | 4.4 | 7.8 | 13 | 7.2 | e3.0 | e2.5 | e4.9 | e6.8 |
| 19 | 5.2 | 11 | 6.3 | 4.4 | 4.3 | 7.6 | 10 | 7.1 | e3.2 | e2.5 | e5.0 | e6.9 |
| 20 | 4.9 | 8.6 | 6.1 | 4.6 | 4.5 | 7.3 | 11 | 6.6 | 3.2 | e2.6 | e5.4 | e7.0 |
| 21 | 4.9 | 9.7 | 6.3 | 4.4 | 4.5 | 7.3 | 8.5 | 7.1 | 4.9 | e3.1 | e5.3 | e6.3 |
| 22 | 2.4 | 7.6 | 6.1 | 4.4 | 4.8 | 8.0 | 6.1 | 6.2 | e4.2 | e3.5 | e5.2 | e6.5 |
| 23 | 4.7 | 8.9 | 6.0 | 4.3 | 4.5 | 8.0 | 6.3 | 6.0 | e3.7 | e3.2 | e5.1 | e6.6 |
| 24 | 4.4 | 9.2 | 6.1 | 4.0 | 3.0 | 7.6 | 8.0 | 3.9 | e3.6 | e3.0 | e4.7 | e6.7 |
| 25 | 4.7 | 8.7 | 5.6 | 3.7 | 1.3 | 5.5 | 6.5 | 5.2 | e3.7 | e2.9 | e5.0 | e6.8 |
| 26 | 4.7 | 7.5 | 5.6 | 3.1 | 1.9 | 5.8 | 6.2 | 2.6 | e3.8 | e3.0 | e5.4 | e6.8 |
| 27 | 5.2 | 7.4 | 5.8 | 3.0 | 4.7 | 7.6 | 5.4 | 3.4 | e3.7 | e3.4 | e5.8 | e6.8 |
| 28 | 4.9 | 7.3 | 5.7 | 3.3 | 4.2 | 8.8 | 3.5 | 5.7 | e3.7 | e3.3 | e6.3 | e6.8 |
| 29 | 4.7 | 10 | 5.3 | 2.6 | --- | 8.7 | 3.8 | 5.7 | e3.7 | e3.1 | e5.4 | e6.8 |
| 30 | 4.9 | 7.7 | 5.4 | 3.1 | --- | 7.4 | 4.7 | 4.2 | e3.7 | e2.8 | e6.1 | e6.8 |
| 31 | 4.7 | --- | 5.2 | 3.3 | --- | 6.4 | --- | 3.8 | --- | e2.9 | e6.4 | --- |
| TOTAL | 178.9 | 230.0 | 201.7 | 131.2 | 116.5 | 216.4 | 283.9 | 181.8 | 96.8 | 88.24 | 138.6 | 198.1 |
| MEAN | 5.77 | 7.67 | 6.51 | 4.23 | 4.16 | 6.98 | 9.46 | 5.86 | 3.23 | 2.85 | 4.47 | 6.60 |
| MAX | 10 | 14 | 8.9 | 5.4 | 8.0 | 12 | 18 | 8.8 | 4.9 | 4.0 | 6.4 | 7.4 |
| MIN | 2.4 | 3.5 | 5.2 | 2.6 | 1.3 | 3.7 | 3.5 | 2.6 | 1.0 | .64 | 3.0 | 5.4 |
| ACFT | 355 | 456 | 400 | 260 | 231 | 429 | 563 | 361 | 192 | 175 | 275 | 393 |
| CAL YR 1985 | TOTAL | 2708.67 | MEAN | 7.42 | MAX | 31 | MIN | .37 | ACFT | 5370 | | |
| WTR YR 1986 | TOTAL | 2062.14 | MEAN | 5.65 | MAX | 18 | MIN | .64 | ACFT | 4090 | | |

e Estimated.

VIRGIN RIVER BASIN

195

09413200 VIRGIN RIVER NEAR BLOOMINGTON, UT

LOCATION.--Lat 37°04'14", long 113°34'55", in SE1/4NW1/4 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 mi².

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 except for estimated daily discharges, which are poor. Diversions for irrigation of about 19,600 acres above station.

AVERAGE DISCHARGE.--9 years, 309 ft³/s, 223,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 10,000 ft³/s Feb. 15, 1980; minimum, 5.8 ft³/s Sept. 21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,030 ft³/s Feb. 20, gage height, 5.76 ft; minimum daily discharge, 26 ft³/s June 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------------|-------|----------|-------|----------|-------|--------|------|-------------|------|------|------|
| 1 | 58 | 68 | 319 | 197 | 215 | e108 | 277 | e58 | e133 | e27 | 33 | 45 |
| 2 | 58 | 81 | 284 | 182 | 105 | e116 | 754 | e60 | e101 | e29 | 33 | 45 |
| 3 | 56 | 71 | 319 | 180 | 97 | e125 | 514 | e61 | e52 | e31 | 35 | 49 |
| 4 | 46 | 86 | 298 | 181 | 96 | e136 | 356 | e62 | e70 | e35 | 34 | 158 |
| 5 | 47 | 167 | 239 | 182 | 88 | e140 | 286 | e58 | e66 | 42 | 35 | 80 |
| 6 | 52 | 165 | 239 | 185 | 79 | e139 | 272 | e52 | e76 | 35 | 34 | 73 |
| 7 | 55 | 162 | 253 | 184 | 86 | e154 | 292 | e47 | e86 | 39 | 33 | 71 |
| 8 | 70 | 159 | 228 | 175 | 78 | e180 | 283 | e48 | e80 | 30 | 32 | 73 |
| 9 | 151 | 178 | 219 | 170 | 62 | e238 | 427 | e53 | e67 | 33 | 36 | 67 |
| 10 | 119 | 174 | 192 | 168 | 60 | e305 | 362 | e66 | e50 | 27 | 65 | 45 |
| 11 | 109 | 177 | 191 | 204 | 60 | 365 | 334 | e64 | e51 | 27 | 43 | 50 |
| 12 | 107 | 243 | 187 | 203 | 63 | 252 | e310 | e62 | e55 | 28 | 38 | 52 |
| 13 | 107 | 184 | 171 | 204 | 65 | 373 | e288 | e58 | e61 | 29 | 33 | 48 |
| 14 | 101 | 133 | 173 | 200 | 95 | 273 | e260 | e57 | e68 | 33 | 59 | 53 |
| 15 | 98 | 95 | 176 | 202 | 251 | 224 | e246 | e56 | e72 | 36 | 46 | 48 |
| 16 | 74 | 89 | 177 | 206 | 1080 | 203 | e218 | e59 | e74 | 36 | 37 | 51 |
| 17 | 68 | 94 | 176 | 200 | 548 | 315 | e183 | e63 | e77 | 38 | 33 | 49 |
| 18 | 69 | 111 | 170 | 202 | 292 | 243 | e162 | e64 | e79 | 36 | 32 | 48 |
| 19 | 66 | 116 | 166 | 204 | 331 | 194 | e146 | e64 | e72 | 38 | 37 | 49 |
| 20 | 65 | 92 | 173 | 191 | 1110 | 176 | e125 | e61 | e65 | 35 | 36 | 39 |
| 21 | 60 | 74 | 124 | 186 | 218 | 193 | e108 | e71 | e58 | 30 | 70 | 49 |
| 22 | 69 | 99 | 172 | 190 | 124 | 197 | e84 | e81 | e52 | 31 | 42 | 46 |
| 23 | 61 | 168 | 188 | 188 | 100 | 215 | e73 | e83 | e52 | 165 | 38 | e92 |
| 24 | 74 | 177 | 180 | 178 | 103 | 216 | e67 | e84 | e54 | 80 | 35 | e105 |
| 25 | 62 | 193 | 184 | 177 | 103 | 200 | e73 | e92 | e46 | 82 | 36 | e138 |
| 26 | 66 | 387 | 185 | 180 | e103 | 218 | e59 | e101 | e48 | 52 | 72 | e110 |
| 27 | 66 | 221 | 180 | 186 | e103 | 217 | e53 | e120 | e41 | 35 | 38 | e96 |
| 28 | 83 | 184 | 177 | 185 | e100 | 228 | e50 | e133 | e34 | 35 | 52 | e72 |
| 29 | 87 | 281 | 179 | 184 | --- | 233 | e53 | e127 | e31 | 36 | 50 | e94 |
| 30 | 76 | 828 | 186 | 188 | --- | 295 | e55 | e137 | e26 | 37 | 54 | e110 |
| 31 | 73 | --- | 191 | 211 | --- | 322 | --- | e139 | --- | 37 | 41 | --- |
| TOTAL | 2353 | 5257 | 6296 | 5873 | 5815 | 6793 | 6770 | 2341 | 1897 | 1284 | 1292 | 2105 |
| MEAN | 75.9 | 175 | 203 | 189 | 208 | 219 | 226 | 75.5 | 63.2 | 41.4 | 41.7 | 70.2 |
| MAX | 151 | 828 | 319 | 211 | 1110 | 373 | 754 | 139 | 133 | 165 | 72 | 158 |
| MIN | 46 | 68 | 124 | 168 | 60 | 108 | 50 | 47 | 26 | 27 | 32 | 39 |
| ACFT | 4670 | 10430 | 12490 | 11650 | 11530 | 13470 | 13430 | 4640 | 3760 | 2550 | 2560 | 4180 |
| CAL YR 1985 | TOTAL 68777 | | MEAN 188 | | MAX 1050 | | MIN 25 | | ACFT 136400 | | | |
| WTR YR 1986 | TOTAL 48076 | | MEAN 132 | | MAX 1110 | | MIN 26 | | ACFT 95360 | | | |

e Estimated.

GREAT SALT LAKE BASIN

10010000 GREAT SALT LAKE AT STATE PARK SALT AIR 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 May 30, 1985, because of problems associated with highwater, then relocated 0.1 mi to the northeast from May 30, 1985 to present because of highway construction.)

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. Samples for specific gravity were collected from water surface near the gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 4,211.85 ft June 3, 1986; 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, 4211.85 ft June 3; minimum, 4208.35 ft Oct. 17-20, Nov. 1, 2.

GAGE HEIGHT AND ELEVATION, IN FEET, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| Day | Gage height | Elevation | Temperature, water (Deg. C) | Specific Gravity (20.0°C) |
|---------|-------------|-----------|-----------------------------------|---------------------------------|
| Oct. 1 | 21.65 | 4,208.45 | 15.5 | 1.041 |
| 15 | 21.60 | 4,208.40 | 11.0 | 1.040 |
| Nov. 1 | 21.55 | 4,208.35 | -- | -- |
| 15 | 21.65 | 4,208.45 | 5.5 | 1.039 |
| Dec. 1 | 21.80 | 4,208.60 | 3.5 | 1.042 |
| 15 | 21.95 | 4,208.75 | 2.0 | 1.040 |
| Jan. 1 | 22.10 | 4,208.90 | -- | -- |
| 15 | 22.20 | 4,209.00 | -1.0 | -- |
| Feb. 1 | 22.35 | 4,209.15 | 1.5 | 1.040 |
| 15 | 22.55 | 4,209.35 | 5.5 | 1.037 |
| Mar. 1 | 23.10 | 4,209.90 | -- | -- |
| 15 | 23.40 | 4,210.20 | 8.0 | 1.038 |
| Apr. 1 | 23.70 | 4,210.50 | 11.5 | 1.033 |
| 15 | 24.10 | 4,210.90 | 12.0 | 1.037 |
| May 1 | 24.50 | 4,211.30 | 12.0 | 1.038 |
| 15 | 24.85 | 4,211.65 | 13.0 | 1.033 |
| June 1 | 25.00 | 4,211.80 | 23.0 | 1.035 |
| 15 | 24.70 | 4,211.50 | 21.5 | 1.040 |
| July 1 | 24.60 | 4,211.40 | 24.0 | 1.041 |
| 15 | 24.50 | 4,211.30 | 23.0 | 1.040 |
| Aug. 1 | 24.35 | 4,211.15 | -- | -- |
| 15 | 24.20 | 4,211.00 | 24.5 | 1.041 |
| Sept. 1 | 24.05 | 4,210.85 | 22.0 | 1.041 |
| 15 | 23.90 | 4,210.70 | 19.0 | 1.042 |

GREAT SALT LAKE BASIN

197

10010100 GREAT SALT LAKE NEAR SALINE, UT

LOCATION.--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. Samples for specific gravity were collected from water surface near the gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 4,210.85 ft June 4, 1986; minimum, 4,192.65 ft Oct. 15, Nov. 1, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4,210.85 ft June 4; minimum, 4,207.50 ft Oct. 9-18.

GAGE HEIGHT AND ELEVATION, IN FEET, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| Day | Gage height | Elevation | Temperature, Water (Deg. C) | Specific Gravity (20.0°C) |
|-------------------|-------------|-----------|-----------------------------------|---------------------------------|
| Oct. 1 | 17.75 | 4,207.55 | -- | -- |
| 15 | 17.70 | 4,207.50 | 11.0 | -- |
| Nov. 1 | -- | e4,207.55 | -- | -- |
| 15 | 17.90 | 4,207.70 | -- | 1.138 |
| Dec. 1 | -- | e4,207.80 | -- | -- |
| 15 | 18.15 | 4,207.95 | -2.0 | 1.085 |
| Jan. 1 | 18.35 | 4,208.15 | -- | -- |
| 15 | 18.45 | 4,208.25 | -5.5 | -- |
| Feb. 1 | 18.65 | 4,208.45 | -- | -- |
| 15 | 18.75 | 4,208.55 | 3.0 | 1.129 |
| Mar. 1 | 19.15 | 4,208.95 | -- | -- |
| 15 | 19.45 | 4,209.25 | 7.0 | -- |
| Apr. 1 | 19.75 | 4,209.55 | -- | -- |
| 15 | 20.00 | 4,209.80 | 12.0 | 1.124 |
| May 1 | 20.45 | 4,210.25 | -- | -- |
| 15 | 20.70 | 4,210.50 | 14.5 | -- |
| June 1 | 21.00 | 4,210.80 | -- | -- |
| 15 | 20.90 | 4,210.70 | 24.0 | -- |
| July 1 | -- | e4,210.55 | -- | -- |
| 15 | 20.65 | 4,210.45 | 24.5 | -- |
| Aug. 1 | 20.60 | 4,210.40 | -- | -- |
| 15 | 20.45 | 4,210.25 | 25.0 | -- |
| Sept. 1 | 20.25 | 4,210.05 | -- | -- |
| 15 | 20.10 | 4,209.90 | 20.0 | 1.119 |

e Estimated.

BEAR RIVER BASIN

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 mi².

PERIOD OF RECORD.--October 1973 to September 1986 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 8,760 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--13 years, 58.5 ft³/s, 42,380 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 857 ft³/s June 18, 1983, gage height, 4.33 ft; minimum, 4.5 ft³/s Apr. 17, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 675 ft³/s June 5, gage height, 4.28 ft; minimum daily, 9.3 ft³/s Jan. 13-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|------|-------|-------|------|------|------|-------|-------|------|------|
| 1 | 16 | 23 | 15 | e9.7 | e11 | e13 | 43 | 54 | 498 | 263 | 58 | 26 |
| 2 | 15 | 18 | 15 | e9.5 | e10 | e13 | 32 | 77 | 523 | 241 | 55 | 26 |
| 3 | 15 | 16 | 15 | e9.5 | e10 | e13 | 31 | 111 | 538 | 231 | 52 | 25 |
| 4 | 14 | 16 | e14 | e9.5 | e11 | e13 | 40 | 132 | 560 | 240 | 50 | 23 |
| 5 | 14 | 16 | e14 | e10 | e10 | e13 | 35 | 108 | 576 | 236 | 49 | 21 |
| 6 | 15 | e15 | e13 | e11 | e10 | e13 | 32 | 92 | 575 | 190 | 47 | 22 |
| 7 | 34 | e15 | e13 | e11 | e9.6 | e13 | 29 | 80 | 531 | 171 | 47 | 25 |
| 8 | 22 | e16 | 13 | e11 | e9.6 | 13 | 32 | 71 | 497 | 155 | 47 | 25 |
| 9 | 21 | e17 | 13 | e11 | e9.8 | e13 | 32 | 64 | 415 | 154 | 43 | 24 |
| 10 | 21 | e18 | e12 | e12 | e9.9 | e14 | 27 | 71 | 334 | 145 | 39 | 25 |
| 11 | 22 | e19 | e13 | e11 | e10 | 15 | 28 | 57 | 326 | 135 | 37 | 21 |
| 12 | 21 | e19 | e12 | e10 | e10 | e14 | 30 | 58 | 374 | 133 | 36 | 20 |
| 13 | 19 | e19 | e12 | e9.3 | e11 | e14 | 28 | 63 | 426 | 132 | 32 | 18 |
| 14 | 19 | e18 | e12 | e9.3 | e12 | e13 | 32 | 62 | 448 | 129 | 31 | 17 |
| 15 | 24 | e18 | e11 | e9.3 | e12 | e13 | 32 | 65 | 465 | 139 | 29 | 17 |
| 16 | 19 | e17 | e12 | e9.7 | e12 | e14 | 29 | 64 | 470 | 159 | 27 | 16 |
| 17 | 17 | e17 | e13 | e10 | e13 | e15 | 29 | 61 | 464 | 136 | 26 | 16 |
| 18 | 17 | 17 | e13 | e11 | e13 | 15 | 29 | 65 | 493 | 120 | 25 | 17 |
| 19 | 16 | 17 | e13 | e11 | e12 | 15 | 35 | 88 | 470 | 110 | 26 | 19 |
| 20 | 16 | e16 | e14 | e10 | e12 | e14 | 27 | 134 | 434 | 99 | 45 | 17 |
| 21 | 16 | e16 | e14 | e9.8 | e11 | e13 | 34 | 182 | 409 | 93 | 64 | 16 |
| 22 | 23 | 17 | e14 | e9.6 | e11 | e13 | 45 | 188 | 376 | 95 | 37 | 17 |
| 23 | 20 | 17 | e13 | e10 | e12 | e14 | 59 | 159 | 360 | 98 | 34 | 17 |
| 24 | 19 | e17 | e13 | e10 | e13 | e15 | 58 | 157 | 345 | 98 | 33 | 27 |
| 25 | 19 | e16 | e13 | e10 | e13 | 17 | 53 | 198 | 307 | 114 | 31 | 25 |
| 26 | 19 | e15 | e14 | e10 | e14 | 23 | 46 | 273 | 295 | 103 | 29 | 23 |
| 27 | 18 | e15 | e13 | e11 | e13 | 24 | 42 | 336 | 314 | 90 | 28 | 24 |
| 28 | 18 | 15 | e12 | e11 | e13 | 23 | 39 | 359 | 325 | 78 | 27 | 25 |
| 29 | 17 | 15 | e11 | e11 | --- | 27 | 42 | 387 | 315 | 70 | 28 | 23 |
| 30 | 17 | 15 | e11 | e12 | --- | 34 | 49 | 426 | 290 | 66 | 29 | 21 |
| 31 | 18 | --- | e10 | e13 | --- | 32 | --- | 466 | --- | 62 | 32 | --- |
| TOTAL | 581 | 505 | 401 | 322.2 | 317.9 | 508 | 1099 | 4708 | 12753 | 4285 | 1173 | 638 |
| MEAN | 18.7 | 16.8 | 12.9 | 10.4 | 11.4 | 16.4 | 36.6 | 152 | 425 | 138 | 37.8 | 21.3 |
| MAX | 34 | 23 | 15 | 13 | 14 | 34 | 59 | 466 | 576 | 263 | 64 | 27 |
| MIN | 14 | 15 | 10 | 9.3 | 9.6 | 13 | 27 | 54 | 290 | 62 | 25 | 16 |
| ACFT | 1150 | 1000 | 795 | 639 | 631 | 1010 | 2180 | 9340 | 25300 | 8500 | 2330 | 1270 |
| CAL YR 1985 | TOTAL | 20475 | MEAN | 56.1 | MAX | 446 | MIN | 10 | ACFT | 40610 | | |
| WTR YR 1986 | TOTAL | 27291.1 | MEAN | 74.8 | MAX | 576 | MIN | 9.3 | ACFT | 54130 | | |

e Estimated.

BEAR RIVER BASIN

199

10011200 WEST FORK BEAR RIVER AT WHITNEY DAM, NEAR OAKLEY, UT

LOCATION.--Lat 40°50'30", long 110°55'35", in SW1/4NE1/4NE1/4 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 mi².

PERIOD OF RECORD.--October 1963 to September 30, 1986 (discontinued). 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 good except for estimated daily discharges, which are poor. Flow regulated by Whitney Reservoir, total capacity, 4,700 acre-ft since July 1966.

AVERAGE DISCHARGE.--20 years (water years 1967-86), 8.52 ft³/s, 6,170 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 191 ft³/s June 7, 1986, gage height, 3.27 ft; no flow July 24 to Sept. 30, Nov. 16-29, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 191 ft³/s June 7, gage height, 3.21 ft; minimum daily, 0.38 ft³/s Oct. 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|------|------|------|-------|-------|------|--------|-------|-------|--------|
| 1 | 1.4 | .87 | 2.3 | 2.0 | 2.2 | 1.1 | .89 | 2.0 | 4.8 | 32 | 4.4 | 80 |
| 2 | 1.4 | .87 | e2.2 | 2.0 | 2.2 | 1.1 | e.97 | 2.2 | 4.8 | 32 | 4.0 | 79 |
| 3 | 1.4 | .85 | 2.2 | 2.0 | 2.3 | 1.1 | e1.1 | 2.3 | 4.7 | 30 | 3.7 | 79 |
| 4 | 1.4 | .80 | 2.2 | 2.1 | 2.3 | 1.1 | e1.1 | 2.5 | 4.7 | 28 | 3.5 | 78 |
| 5 | .91 | .80 | 2.2 | 2.1 | 2.2 | 1.1 | e1.1 | 2.6 | 20 | 27 | 3.4 | 77 |
| 6 | .66 | .80 | 2.2 | 2.2 | 2.2 | 1.1 | e1.2 | 2.4 | 96 | 24 | 3.2 | 87 |
| 7 | 1.2 | .80 | 2.3 | 2.3 | 2.2 | 1.1 | e1.3 | 2.4 | 122 | 22 | 3.0 | 99 |
| 8 | .58 | .79 | 2.3 | 2.2 | 2.2 | 1.1 | e1.4 | 2.3 | 107 | 20 | 2.9 | 97 |
| 9 | .45 | e.74 | 2.4 | 2.2 | 2.2 | 1.1 | e1.4 | 2.2 | 91 | 18 | 2.9 | 93 |
| 10 | .41 | e.71 | 2.4 | 2.2 | 2.1 | 1.1 | e1.4 | 2.2 | 83 | 16 | 2.8 | 90 |
| 11 | .39 | e.78 | 2.4 | 2.2 | 2.1 | 1.1 | 1.3 | 2.3 | 83 | 15 | 2.6 | 62 |
| 12 | .38 | e.82 | 2.3 | 2.2 | 2.1 | 1.1 | 1.3 | 2.6 | 88 | 14 | 2.5 | 44 |
| 13 | .39 | e.82 | 2.3 | 2.2 | e2.0 | 1.1 | 1.2 | 2.6 | 92 | 12 | 2.5 | 35 |
| 14 | .40 | e.80 | 2.3 | 2.2 | e1.9 | 1.1 | 1.2 | 2.7 | 96 | 11 | 2.3 | 23 |
| 15 | .53 | e.80 | 2.3 | 2.2 | e1.8 | 1.1 | 1.1 | 2.6 | 94 | 11 | 4.7 | 23 |
| 16 | .60 | e.80 | 2.4 | 2.2 | e1.7 | 1.1 | 1.1 | 2.7 | 91 | 14 | 7.0 | 23 |
| 17 | .63 | e.80 | 2.2 | 2.2 | e1.7 | 1.0 | 1.1 | 2.7 | 92 | 15 | 6.6 | 23 |
| 18 | .67 | e.82 | 2.1 | 2.2 | e1.7 | .93 | 1.1 | 2.7 | 90 | 11 | 6.6 | 23 |
| 19 | .70 | e.85 | 2.1 | 2.2 | e1.6 | .93 | 1.2 | 2.8 | 85 | 9.3 | 6.9 | 23 |
| 20 | .74 | e.86 | 2.1 | 2.2 | 1.6 | .93 | 1.2 | 2.9 | 78 | 8.4 | 6.9 | 23 |
| 21 | .80 | e.86 | 2.1 | 2.2 | 1.3 | .93 | 1.3 | 3.1 | 74 | 7.9 | 6.9 | 23 |
| 22 | .86 | e.88 | 2.1 | 2.2 | 1.2 | .84 | 1.6 | 3.3 | 67 | 7.4 | 7.1 | 23 |
| 23 | .80 | .92 | 2.1 | 2.2 | 1.0 | .87 | 1.7 | 3.2 | 59 | 8.4 | 7.1 | 23 |
| 24 | .80 | 1.4 | 2.1 | 2.2 | 1.1 | .87 | 1.8 | 3.4 | 50 | 11 | 6.9 | 23 |
| 25 | .80 | 1.4 | 2.1 | 2.2 | 1.1 | .87 | 1.6 | 3.6 | 49 | 13 | 7.1 | 23 |
| 26 | .80 | 1.2 | 2.1 | 2.2 | 1.1 | .87 | 1.6 | 3.8 | 47 | 14 | 7.1 | 24 |
| 27 | .80 | 1.8 | 2.1 | 2.2 | 1.1 | .87 | 1.6 | 3.5 | 45 | 11 | 7.2 | 24 |
| 28 | .80 | 2.3 | 2.1 | 2.1 | 1.1 | .87 | 1.6 | 3.2 | 43 | 7.7 | 7.3 | 15 |
| 29 | .80 | 2.5 | 2.1 | 2.1 | --- | .87 | 1.8 | 3.5 | 22 | 6.0 | 7.5 | 1.1 |
| 30 | .81 | 2.3 | 2.1 | 2.1 | --- | .87 | 1.9 | 4.1 | 21 | 5.2 | 7.4 | 1.1 |
| 31 | .87 | --- | 2.1 | 2.2 | --- | .87 | --- | 4.6 | --- | 4.8 | 54 | --- |
| TOTAL | 24.18 | 31.54 | 68.3 | 67.2 | 49.3 | 30.99 | 40.16 | 89.0 | 1904.0 | 466.1 | 207.8 | 1341.2 |
| MEAN | .78 | 1.05 | 2.20 | 2.17 | 1.76 | 1.00 | 1.34 | 2.87 | 63.5 | 15.0 | 6.70 | 44.7 |
| MAX | 1.4 | 2.3 | 2.4 | 2.3 | 2.3 | 1.1 | 1.9 | 4.6 | 122 | 32 | 54 | 99 |
| MIN | .38 | .71 | 2.1 | 2.0 | 1.0 | .84 | .89 | 2.0 | 4.7 | 4.8 | 2.3 | 1.1 |
| ACFT | 48 | 63 | 135 | 133 | 98 | 61 | 80 | 177 | 3780 | 925 | 412 | 2660 |
| CAL YR 1985 | TOTAL | 3282.92 | MEAN | 8.99 | MAX | 96 | MIN | .30 | ACFT | 6510 | | |
| WTR YR 1986 | TOTAL | 4319.77 | MEAN | 11.8 | MAX | 122 | MIN | .38 | ACFT | 8570 | | |

e Estimated.

BEAR RIVER BASIN

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 mi².

PERIOD OF RECORD.--October 1973 to September 1986 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 8,190 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Whitney Reservoir, total capacity, 4,700 acre-ft since July 1966.

AVERAGE DISCHARGE.--13 years, 50.9 ft³/s, 36,880 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,020 ft³/s May 15, 1984, gage height, 4.20 ft; minimum, 2.0 ft³/s Aug. 11, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 930 ft³/s May 30, gage height, 4.16 ft; minimum daily discharge, 11 ft³/s, Feb. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|-------|-------|-------|------|------|
| 1 | 18 | 21 | 22 | e16 | e14 | e14 | 41 | 117 | 601 | 131 | 34 | 120 |
| 2 | 18 | 20 | 20 | e16 | e14 | e15 | 39 | 176 | 600 | 126 | 33 | 119 |
| 3 | 18 | 19 | 22 | e17 | e15 | e15 | 34 | 268 | 545 | 120 | 32 | 118 |
| 4 | 18 | 18 | 20 | e17 | e15 | e15 | 35 | 273 | 521 | 118 | 30 | 115 |
| 5 | 18 | 20 | e19 | e17 | e15 | e16 | 32 | 189 | 530 | 117 | 29 | 112 |
| 6 | 16 | 19 | e18 | e17 | e14 | e16 | 35 | 150 | 584 | 103 | 28 | 120 |
| 7 | 37 | 20 | e18 | e17 | e13 | 17 | 39 | 125 | 553 | 95 | 28 | 136 |
| 8 | 24 | e19 | e18 | e17 | e13 | 17 | 36 | 110 | 509 | 88 | 29 | 132 |
| 9 | 22 | e18 | e17 | e17 | e12 | 18 | 33 | 101 | 427 | 83 | 28 | 135 |
| 10 | 22 | e17 | e16 | e17 | e11 | 21 | 33 | 93 | 382 | 77 | 26 | 133 |
| 11 | 23 | e18 | e15 | e16 | e12 | 19 | 34 | 105 | 367 | 73 | 25 | 102 |
| 12 | 23 | e20 | e14 | e16 | e14 | 18 | 36 | 127 | 392 | 68 | 26 | 66 |
| 13 | 21 | e19 | e14 | e16 | e14 | 20 | 38 | 142 | 461 | 65 | 24 | 61 |
| 14 | 20 | e19 | e15 | e17 | e14 | 19 | 37 | 144 | 424 | 61 | 24 | 41 |
| 15 | 19 | e19 | e15 | 18 | e13 | 20 | 36 | 140 | 410 | 66 | 24 | 40 |
| 16 | 19 | e19 | e16 | 18 | e14 | 20 | 40 | 123 | 388 | 81 | 28 | 39 |
| 17 | 19 | e19 | e17 | 15 | 14 | 24 | 37 | 120 | 372 | 72 | 27 | 39 |
| 18 | 19 | e19 | e18 | 15 | 14 | 18 | 34 | 165 | 375 | 59 | 27 | 40 |
| 19 | 19 | e17 | e19 | 15 | 13 | 19 | 34 | 256 | 349 | 53 | 28 | 43 |
| 20 | 18 | e17 | e20 | 15 | e12 | 22 | 37 | 359 | 314 | 51 | 35 | 41 |
| 21 | 19 | e18 | e20 | e14 | e12 | 23 | 52 | 479 | 287 | 48 | 50 | 40 |
| 22 | 27 | e19 | e20 | e14 | e13 | 20 | 71 | 365 | 261 | 48 | 34 | 39 |
| 23 | 24 | e19 | e20 | e15 | e14 | 20 | 89 | 277 | 238 | 52 | 32 | 39 |
| 24 | 23 | e20 | e19 | e14 | e14 | 22 | 88 | 338 | 211 | 58 | 31 | 42 |
| 25 | 23 | e20 | e18 | e13 | e14 | 22 | 74 | 439 | 202 | 61 | 30 | 45 |
| 26 | 22 | e19 | e18 | e14 | e14 | 24 | 65 | 565 | 189 | 64 | 29 | 44 |
| 27 | 21 | e19 | e18 | e15 | e14 | 24 | 60 | 608 | 182 | 52 | 29 | 44 |
| 28 | 20 | e19 | e18 | e14 | e14 | 28 | 64 | 573 | 178 | 44 | 30 | 42 |
| 29 | 19 | e20 | e17 | 14 | --- | 34 | 84 | 564 | 156 | 39 | 31 | 25 |
| 30 | 19 | e20 | e16 | 14 | --- | 40 | 94 | 614 | 132 | 37 | 32 | 24 |
| 31 | 21 | --- | e16 | 14 | --- | 44 | --- | 601 | --- | 35 | 73 | --- |
| TOTAL | 649 | 570 | 553 | 484 | 379 | 664 | 1461 | 8706 | 11140 | 2245 | 966 | 2136 |
| MEAN | 20.9 | 19.0 | 17.8 | 15.6 | 13.5 | 21.4 | 48.7 | 281 | 371 | 72.4 | 31.2 | 71.2 |
| MAX | 37 | 21 | 22 | 18 | 15 | 44 | 94 | 614 | 601 | 131 | 73 | 136 |
| MIN | 16 | 17 | 14 | 13 | 11 | 14 | 32 | 93 | 132 | 35 | 24 | 24 |
| ACFT | 1290 | 1130 | 1100 | 960 | 752 | 1320 | 2900 | 17270 | 22100 | 4450 | 1920 | 4240 |
| CAL YR 1985 | TOTAL | 19455 | MEAN | 53.3 | MAX | 361 | MIN | 13 | ACFT | 38590 | | |
| WTR YR 1986 | TOTAL | 29953 | MEAN | 82.1 | MAX | 614 | MIN | 11 | ACFT | 59410 | | |

e Estimated.

BEAR RIVER BASIN

201

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 mi².

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.--44 years, 198 ft³/s, 143,450 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,230 ft³/s June 6, 1986, gage height, 4.05 ft; maximum gage
height, 4.28 ft June 19, 1983; minimum, 6.8 ft³/s Apr. 12, 1984, result of upstream ice jam.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|--|------|-----------------------------------|---------------------|
| June 6 | 0200 | *3,230 | *4.05 | No other peak greater than base discharge. | | | |

Minimum daily discharge, 30 ft³/s, Feb. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|------|------|------|------|-------|--------|--------|------|------|
| 1 | 65 | 64 | 71 | e47 | 42 | 61 | 157 | 307 | 2480 | 1000 | 192 | 181 |
| 2 | 67 | 80 | 67 | e52 | 40 | 59 | 149 | 462 | 2560 | 917 | 180 | 174 |
| 3 | 63 | 76 | 67 | e54 | e38 | 59 | 129 | 690 | 2610 | 852 | 167 | 171 |
| 4 | 58 | 74 | 65 | e55 | e36 | 59 | 116 | 786 | 2680 | 861 | 160 | 168 |
| 5 | 56 | 78 | 67 | e58 | e33 | 59 | 109 | 588 | 2600 | 841 | 153 | 163 |
| 6 | 58 | 59 | 69 | e62 | e32 | 58 | 113 | 441 | 2650 | 670 | 146 | 169 |
| 7 | 138 | 73 | 64 | e57 | e32 | 62 | 131 | 362 | 2420 | 591 | 147 | 190 |
| 8 | 93 | 77 | 60 | e58 | e33 | 64 | 118 | 327 | 2260 | 515 | 145 | 194 |
| 9 | 84 | 46 | 60 | e58 | e30 | 60 | 108 | 277 | 2070 | 495 | 141 | 193 |
| 10 | 83 | 49 | e52 | e56 | e33 | 68 | 106 | 250 | 1800 | 463 | 126 | 204 |
| 11 | 88 | 71 | e47 | e58 | e36 | 65 | 115 | 270 | 1760 | 423 | 117 | 160 |
| 12 | 87 | 66 | e48 | e51 | e41 | 60 | 114 | 304 | 1930 | 406 | 125 | 109 |
| 13 | 82 | 73 | e52 | e46 | e43 | 54 | 123 | 319 | 2100 | 393 | 117 | 103 |
| 14 | 65 | 79 | e54 | e46 | e41 | 60 | 110 | 334 | 2050 | 386 | 113 | 92 |
| 15 | 72 | 69 | e56 | e44 | 42 | 58 | 12 | 333 | 418 | 106 | 90 | 90 |
| 16 | 74 | 78 | e56 | 42 | 41 | 55 | 134 | 320 | 2060 | 534 | 106 | 90 |
| 17 | 74 | 74 | e56 | 41 | 40 | 53 | 116 | 272 | 2120 | 455 | 100 | 88 |
| 18 | 71 | 64 | e56 | 41 | 40 | 56 | 107 | 325 | 2260 | 368 | 96 | 89 |
| 19 | 71 | e58 | e56 | 42 | 41 | 54 | 100 | 459 | 2300 | 331 | 100 | 95 |
| 20 | 72 | e60 | e60 | 41 | 41 | 51 | 110 | 720 | 2140 | 303 | 155 | 91 |
| 21 | 74 | e56 | e60 | e39 | 47 | 52 | 155 | 982 | 2010 | 274 | 257 | 91 |
| 22 | 94 | e60 | e57 | e41 | 44 | 61 | 230 | 1060 | 1830 | 281 | 149 | 90 |
| 23 | 87 | e64 | e56 | e39 | 46 | 67 | 294 | 813 | 1690 | 311 | 132 | 89 |
| 24 | 84 | e65 | e55 | e40 | 50 | 74 | 298 | 898 | 1570 | 317 | 123 | 118 |
| 25 | 86 | 70 | e53 | e40 | 58 | 75 | 249 | 1120 | 1380 | 382 | 120 | 121 |
| 26 | 83 | 71 | e55 | e39 | 68 | 66 | 215 | 1410 | 1280 | 348 | 112 | 118 |
| 27 | 81 | 71 | e52 | e40 | 67 | 72 | 194 | 1680 | 1330 | 314 | 104 | 115 |
| 28 | 80 | 69 | e50 | 42 | 60 | 88 | 197 | 1920 | 1330 | 263 | 103 | 117 |
| 29 | 76 | 68 | e51 | 41 | --- | 110 | 237 | 1950 | 1260 | 230 | 106 | 99 |
| 30 | 79 | 70 | e52 | 41 | --- | 135 | 261 | 2080 | 1140 | 215 | 104 | 97 |
| 31 | 81 | --- | e49 | 41 | --- | 165 | --- | 2290 | --- | 205 | 133 | --- |
| TOTAL | 2426 | 2032 | 1773 | 1452 | 1195 | 2140 | 4707 | 24349 | 59710 | 14362 | 4135 | 3869 |
| MEAN | 78.3 | 67.7 | 57.2 | 46.8 | 42.7 | 69.0 | 157 | 785 | 1990 | 463 | 133 | 129 |
| MAX | 138 | 80 | 71 | 62 | 68 | 165 | 298 | 2290 | 2680 | 1000 | 257 | 204 |
| MIN | 56 | 46 | 47 | 39 | 30 | 51 | 100 | 250 | 1140 | 205 | 96 | 88 |
| ACFT | 4810 | 4030 | 3520 | 2880 | 2370 | 4240 | 9340 | 48300 | 118400 | 28490 | 8200 | 7670 |
| CAL YR 1985 | TOTAL | 79218 | MEAN | 217 | MAX | 1400 | MIN | 34 | ACFT | 157100 | | |
| WTR YR 1986 | TOTAL | 122150 | MEAN | 335 | MAX | 2680 | MIN | 30 | ACFT | 242300 | | |

e Estimated.

BEAR RIVER BASIN

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 La Chapelle Creek, 2 mi upstream from Sulphur Creek Dam, and 11.5 mi southeast of Evanston.

DRAINAGE AREA.--64.2 mi².

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 fair except for estimated daily discharges, which are poor. Several diversions for irrigation above station.

AVERAGE DISCHARGE.--29 years, 19.0 ft³/s, 13,770 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,400 ft³/s June 1, 1983, gage height, 9.10 ft, from rating curve extended above 1,200 ft³/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, 716 ft³/s May 22, gage height, 5.23 ft; minimum daily, 1.0 ft³/s, Oct. 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|---------------|-------|-----------|------|---------|------|---------|-------|------------|-------|-------|-------|
| 1 | 1.4 | 5.2 | e7.5 | e3.2 | e3.9 | e100 | 46 | 92 | 161 | 25 | e12 | 11 |
| 2 | 1.2 | 5.5 | e7.6 | e3.1 | e3.8 | e95 | 49 | 126 | 160 | 21 | e11 | 15 |
| 3 | 1.0 | 5.2 | e7.4 | e3.0 | e3.7 | e94 | 46 | 178 | 136 | 22 | e10 | 8.6 |
| 4 | 1.0 | 5.8 | e7.1 | e3.0 | e3.5 | e92 | 51 | 224 | 129 | 17 | e9.3 | 6.4 |
| 5 | 1.2 | 6.4 | e6.6 | e2.9 | e3.4 | 82 | 68 | 134 | 116 | 20 | e8.9 | 6.1 |
| 6 | 1.2 | 6.4 | e6.1 | e2.9 | e3.2 | 41 | 76 | 121 | 106 | 24 | e8.5 | 5.2 |
| 7 | 5.2 | 6.4 | e5.7 | e2.8 | e3.1 | 41 | 62 | 112 | 89 | 24 | e8.2 | 5.8 |
| 8 | 6.1 | e7.0 | e5.3 | e2.9 | e3.1 | 41 | 47 | 105 | 82 | 23 | e7.8 | 6.8 |
| 9 | 4.9 | 7.8 | e4.7 | e3.0 | e3.2 | 57 | 57 | 122 | 111 | 15 | 7.1 | 6.1 |
| 10 | 5.5 | e8.2 | e4.3 | e3.1 | e3.5 | 44 | 55 | 151 | 131 | 14 | 6.8 | 11 |
| 11 | 5.8 | 8.6 | e4.1 | e3.1 | e4.3 | 39 | 51 | 200 | 97 | 12 | 6.1 | 12 |
| 12 | 4.9 | e9.0 | e4.0 | e3.0 | e5.2 | 32 | 50 | 136 | 78 | 10 | 5.2 | 10 |
| 13 | 4.0 | e9.4 | e4.0 | e3.0 | e7.3 | 29 | 47 | 115 | 84 | 7.8 | 4.9 | 7.1 |
| 14 | 2.8 | e12 | e4.0 | e2.9 | e9.3 | 28 | 47 | 116 | 75 | 7.1 | 4.0 | 5.5 |
| 15 | 2.2 | e13 | e4.0 | e2.8 | e11 | 25 | 55 | 105 | 65 | 14 | 3.5 | 4.9 |
| 16 | 2.0 | e11 | e4.0 | e2.7 | e12 | 22 | 56 | 104 | 55 | 65 | 3.0 | 4.3 |
| 17 | 2.6 | e10 | e4.1 | e2.7 | e11 | 19 | 65 | 93 | 48 | 51 | 2.6 | 3.7 |
| 18 | 3.2 | e8.2 | e4.2 | e2.7 | e13 | 18 | 69 | 99 | 50 | 34 | 2.2 | 4.0 |
| 19 | 2.4 | e7.1 | e4.2 | e2.6 | e21 | 18 | 76 | 137 | 52 | 28 | 2.1 | 5.5 |
| 20 | 2.4 | e9.3 | e4.2 | e2.6 | e31 | 20 | 83 | 205 | 52 | e23 | 4.9 | 5.8 |
| 21 | 2.6 | e8.2 | e4.2 | e2.6 | e39 | 25 | 87 | 324 | 42 | e20 | 23 | 5.5 |
| 22 | 4.9 | e8.5 | e4.2 | e2.7 | e53 | 49 | 88 | 355 | 34 | e18 | 12 | 4.9 |
| 23 | 4.6 | e9.0 | e4.1 | e2.8 | e64 | 83 | 108 | 129 | 31 | e16 | 7.1 | 4.9 |
| 24 | 5.8 | e9.7 | e4.0 | e3.0 | e96 | 74 | 113 | 144 | 34 | e15 | 5.5 | 7.1 |
| 25 | 5.5 | e10 | e3.9 | e3.2 | e92 | 55 | 84 | 191 | 37 | e13 | 6.4 | 10 |
| 26 | 4.9 | e8.0 | e4.0 | e3.3 | e80 | 36 | 72 | 283 | 45 | e13 | 7.8 | 15 |
| 27 | 4.6 | e8.2 | e3.8 | e3.5 | e84 | 32 | 75 | 319 | 35 | e12 | 5.8 | 15 |
| 28 | 4.6 | e8.2 | e3.8 | e3.5 | e89 | 37 | 79 | 254 | 28 | e12 | 5.5 | 19 |
| 29 | 4.3 | e7.6 | e3.7 | e3.6 | --- | 43 | 120 | 230 | 28 | e11 | 7.8 | 16 |
| 30 | 4.3 | e7.3 | e3.6 | e3.8 | --- | 45 | 92 | 204 | 28 | e11 | 9.7 | 12 |
| 31 | 4.9 | --- | e3.4 | e3.9 | --- | 57 | --- | 182 | --- | e11 | 8.9 | --- |
| TOTAL | 112.0 | 246.2 | 145.8 | 93.9 | 756.5 | 1473 | 2074 | 5290 | 2219 | 608.9 | 227.6 | 254.2 |
| MEAN | 3.61 | 8.21 | 4.70 | 3.03 | 27.0 | 47.5 | 69.1 | 171 | 74.0 | 19.6 | 7.34 | 8.47 |
| MAX | 6.1 | 13 | 7.6 | 3.9 | 96 | 100 | 120 | 355 | 161 | 65 | 23 | 19 |
| MIN | 1.0 | 5.2 | 3.4 | 2.6 | 3.1 | 18 | 46 | 92 | 28 | 7.1 | 2.1 | 3.7 |
| ACFT | 222 | 488 | 289 | 186 | 1500 | 2920 | 4110 | 10490 | 4400 | 1210 | 451 | 504 |
| CAL YR 1985 | TOTAL 7474.88 | | MEAN 20.5 | | MAX 207 | | MIN .38 | | ACFT 14830 | | | |
| WTR YR 1986 | TOTAL 13501.1 | | MEAN 37.0 | | MAX 355 | | MIN 1.0 | | ACFT 26780 | | | |

e Estimated.

BEAR RIVER BASIN

203

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 mi².

PERIOD OF RECORD.--April 1958 to current year.

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

GAGE.--Water-stage recorder and concrete V-notch control. Altitude of gage is 7,120 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Sulphur Creek Reservoir, capacity, 7,100 acre-ft. Records prior to 1965 do not include flow over spillway of the dam.

AVERAGE DISCHARGE.--22 years (water years 1965-86), 27.7 ft³/s, 20,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD (SINCE 1966).--Maximum daily discharge, 740 ft³/s May 15, 1984; no flow at times each year, except 1972.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 245 ft³/s May. 29; no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|----------|-------|-------|--------|------|------|---------|------|-------|--------|
| 1 | 2.6 | 8.0 | 8.3 | e6.8 | e7.0 | e71 | 63 | 102 | 199 | 15 | 30 | 43 |
| 2 | 8.7 | 8.0 | 8.3 | e6.8 | e7.0 | e68 | 64 | 102 | 194 | 17 | 30 | 43 |
| 3 | 8.5 | 8.0 | e7.9 | e6.8 | e7.0 | e72 | 63 | 102 | 193 | 17 | 30 | 43 |
| 4 | 8.0 | 8.0 | e7.8 | e6.8 | e7.0 | e76 | 63 | 103 | 193 | 17 | 15 | 42 |
| 5 | 8.0 | 8.0 | e7.8 | e6.8 | e7.0 | e84 | 63 | 104 | 193 | 13 | 6.8 | 42 |
| 6 | 8.0 | 8.0 | e7.6 | e6.8 | e7.0 | e157 | 64 | 105 | 193 | 16 | 6.7 | 42 |
| 7 | 8.0 | 8.0 | e7.4 | e6.8 | e7.0 | e211 | 65 | 105 | 191 | 19 | 6.7 | 42 |
| 8 | 7.7 | 8.0 | e7.3 | e6.8 | e7.0 | e210 | 65 | 107 | 189 | 22 | 6.9 | 42 |
| 9 | 7.7 | 8.0 | e7.2 | e6.8 | e7.0 | e210 | 65 | 114 | 186 | 20 | 9.1 | 42 |
| 10 | 7.9 | 8.0 | e7.2 | e6.8 | e7.0 | e208 | 65 | 159 | 158 | 17 | 13 | 42 |
| 11 | 8.0 | 7.9 | e7.1 | e6.8 | e7.0 | e200 | 65 | 232 | 83 | 15 | 13 | 42 |
| 12 | 8.0 | 7.9 | e7.1 | e6.8 | e7.2 | e197 | 65 | 214 | 39 | 13 | 19 | 42 |
| 13 | 8.0 | 7.7 | e7.1 | e6.8 | e8.1 | e203 | 66 | 175 | 3.7 | 13 | 27 | 36 |
| 14 | 8.0 | 7.7 | e7.1 | e6.8 | e9.0 | e194 | 65 | 157 | 3.8 | 12 | 27 | .00 |
| 15 | 8.0 | 7.7 | e7.1 | e6.8 | e10 | e163 | 65 | 152 | 3.8 | 12 | 27 | .00 |
| 16 | 8.0 | 7.8 | e7.0 | e6.8 | e11 | e137 | 65 | 150 | 3.8 | 42 | 27 | .00 |
| 17 | 8.0 | 8.0 | e7.0 | e7.0 | e11 | e118 | 66 | 150 | 3.9 | 73 | 27 | .00 |
| 18 | 8.0 | 8.0 | e7.0 | e7.2 | e11 | e123 | 66 | 149 | 3.9 | 80 | 27 | .00 |
| 19 | 8.0 | 8.0 | e7.0 | e7.2 | e12 | 117 | 66 | 148 | .00 | 62 | 36 | .00 |
| 20 | 8.0 | 8.0 | e7.0 | e7.2 | e12 | 115 | 66 | 148 | .00 | 45 | 45 | .00 |
| 21 | 8.0 | 8.0 | e7.0 | e7.2 | e11 | 53 | 66 | 149 | .00 | 30 | 45 | .00 |
| 22 | 8.2 | 8.0 | e7.0 | e7.2 | e11 | 6.9 | 67 | 157 | .00 | 34 | 44 | .00 |
| 23 | 8.3 | 8.0 | e7.0 | e7.2 | e12 | 6.9 | 58 | 158 | .00 | 45 | 44 | .00 |
| 24 | 8.0 | 8.0 | e7.0 | e7.2 | e13 | 7.2 | 54 | 150 | .00 | 59 | 44 | .00 |
| 25 | 8.1 | 8.3 | e7.0 | e7.2 | e73 | 7.4 | 55 | 151 | .00 | 81 | 44 | .00 |
| 26 | 8.0 | 8.3 | e7.0 | e7.2 | e79 | 7.5 | 55 | 170 | .00 | 87 | 44 | .00 |
| 27 | 8.0 | 8.3 | e7.0 | e7.2 | e76 | 7.5 | 55 | 212 | .00 | 82 | 44 | .00 |
| 28 | 8.1 | 8.3 | e6.9 | e7.2 | e74 | 31 | 55 | 235 | .32 | 66 | 44 | .00 |
| 29 | 8.0 | 8.3 | e6.8 | e7.1 | --- | 63 | 76 | 245 | 7.4 | 50 | 44 | .00 |
| 30 | 8.0 | 8.3 | e6.8 | e7.0 | --- | 63 | 102 | 226 | 12 | 38 | 43 | .00 |
| 31 | 8.0 | --- | e6.8 | e7.0 | --- | 63 | --- | 210 | --- | 32 | 43 | --- |
| TOTAL | 243.8 | 240.5 | 223.6 | 216.1 | 517.3 | 3250.4 | 1938 | 4841 | 2053.62 | 1144 | 912.2 | 543.00 |
| MEAN | 7.86 | 8.02 | 7.21 | 6.97 | 18.5 | 105 | 64.6 | 156 | 68.5 | 36.9 | 29.4 | 18.1 |
| MAX | 8.7 | 8.3 | 8.3 | 7.2 | 79 | 211 | 102 | 245 | 199 | 87 | 45 | 43 |
| MIN | 2.6 | 7.7 | 6.8 | 6.8 | 7.0 | 6.9 | 54 | 102 | .00 | 12 | 6.7 | .00 |
| ACFT | 484 | 477 | 444 | 429 | 1030 | 6450 | 3840 | 9600 | 4070 | 2270 | 1810 | 1080 |
| CAL YR 1985 | TOTAL | | 9451.13 | MEAN | 25.9 | MAX | 232 | MIN | .00 | ACFT | 18750 | |
| WTR YR 1986 | TOTAL | | 16123.52 | MEAN | 44.2 | MAX | 245 | MIN | .00 | ACFT | 31980 | |

e Estimated.

BEAR RIVER BASIN

10016900 BEAR RIVER AT EVANSTON, WY

LOCATION.--Lat $41^{\circ}16'13''$, long $110^{\circ}57'47''$, in NE1/4 NW1/4 NW1/4 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.

DRAINAGE AREA.--433 mi².

PERIOD OF RECORD.--May 1984 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 6,730 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Apr. 7-9, 14-20, Apr. 23 to May 1, May 4-6, 27, 28, and Aug. 16-19. Records fair except those for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation, and return flow from irrigated areas. Results of discharge measurements, in cubic feet per second, made during the period when station was not in operation, are given below:

Oct. 9 . . . 116
Mar. 26 . . . 242

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,680 ft³/s, May 16, 1984, gage height, 7.35 ft; minimum daily during periods of operation, 42 ft³/s, Aug. 20, 24, 26, 27, Sept. 11, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,140 ft³/s, June 6, gage height, 6.78 ft; minimum daily during period of operation, 52 ft³/s, Aug. 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|------|------|
| 1 | | | | | | | 416 | 700 | 2730 | 831 | 142 | 104 |
| 2 | | | | | | | 481 | 760 | 2840 | 736 | 134 | 102 |
| 3 | | | | | | | 416 | 944 | 2790 | 654 | 131 | 96 |
| 4 | | | | | | | 424 | 1200 | 2700 | 648 | 119 | 85 |
| 5 | | | | | | | 481 | 1300 | 2670 | 706 | 86 | 82 |
| 6 | | | | | | | 532 | 1020 | 2820 | 604 | 82 | 79 |
| 7 | | | | | | | 450 | 986 | 2640 | 519 | 84 | 83 |
| 8 | | | | | | | 460 | 952 | 2580 | 474 | 85 | 85 |
| 9 | | | | | | | 430 | 974 | 2380 | 407 | 86 | 89 |
| 10 | | | | | | | 391 | 965 | 2040 | 349 | 74 | 105 |
| 11 | | | | | | | 374 | 1170 | 1680 | 312 | 57 | 111 |
| 12 | | | | | | | 356 | 1010 | 1710 | 291 | 60 | 108 |
| 13 | | | | | | | 380 | 917 | 1910 | 268 | 77 | 104 |
| 14 | | | | | | | 420 | 908 | 1930 | 260 | 68 | 71 |
| 15 | | | | | | | 430 | 883 | 1940 | 230 | 63 | 63 |
| 16 | | | | | | | 415 | 870 | 1930 | 433 | 63 | 59 |
| 17 | | | | | | | 390 | 808 | 1850 | 450 | 57 | 56 |
| 18 | | | | | | | 470 | 833 | 1850 | 360 | 52 | 61 |
| 19 | | | | | | | 430 | 974 | 1920 | 285 | 52 | 73 |
| 20 | | | | | | | 390 | 1160 | 1770 | 240 | 103 | 80 |
| 21 | | | | | | | 467 | 1390 | 1660 | 187 | 312 | 79 |
| 22 | | | | | | | 560 | 1670 | 1500 | 170 | 243 | 74 |
| 23 | | | | | | | 600 | 1290 | 1360 | 227 | 166 | 75 |
| 24 | | | | | | | 660 | 1250 | 1270 | 288 | 141 | 87 |
| 25 | | | | | | | 600 | 1440 | 1140 | 323 | 141 | 131 |
| 26 | | | | | | | 510 | 1790 | 1050 | 378 | 131 | 155 |
| 27 | | | | | | | 520 | 1700 | 1030 | 366 | 120 | 146 |
| 28 | | | | | | | 560 | 2100 | 1050 | 295 | 109 | 190 |
| 29 | | | | | | | 600 | 2640 | 1010 | 231 | 107 | 179 |
| 30 | | | | | | | 640 | 2680 | 943 | 185 | 109 | 146 |
| 31 | | | | | | | --- | 2740 | --- | 162 | 104 | --- |
| TOTAL | | | | | | | 14253 | 40024 | 56693 | 11869 | 3358 | 2958 |
| MEAN | | | | | | | 475 | 1291 | 1890 | 383 | 108 | 98.6 |
| MAX | | | | | | | 660 | 2740 | 2840 | 831 | 312 | 190 |
| MIN | | | | | | | 356 | 700 | 943 | 162 | 52 | 56 |

BEAR RIVER BASIN

205

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 September 1986 (discontinued) (prior to October 1944, irrigation seasons only). Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder and flashboard control. Altitude of gage is 6,570 ft from river-profile map. Prior to Oct. 11, 1946, nonrecording gage, and Oct. 11, 1946 to Aug. 2, 1961, water-stage recorder at site 20 ft downstream at same datum.

REMARKS.--Records poor. Canal diverts water from Bear River in NW1/4 sec.36, T.16 N., R.121 W. Many diversions above station for irrigation in Wyoming. Flow at station is for storage in Neponset Reservoir, Utah, and irrigation in Saleratus basin, Utah.

AVERAGE DISCHARGE.--42 years (water years 1945-86), 19.4 ft³/s, 14,060 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 143 ft³/s June 24, 1970; no flow at times each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|------|------|--------|-------|--------|--------|------|-------|-------|--------|
| 1 | .00 | .00 | .00 | .00 | .00 | 1.6 | 9.5 | 75 | e42 | e45 | 15 | e34 |
| 2 | .00 | .00 | .00 | .00 | .00 | 1.1 | 11 | 61 | 42 | e45 | 14 | e34 |
| 3 | .00 | .00 | .00 | .00 | .00 | 1.8 | 10 | 66 | 45 | e45 | 14 | e31 |
| 4 | .00 | .00 | .00 | .00 | .00 | 1.6 | 10 | 75 | 48 | e45 | 14 | e21 |
| 5 | .00 | .00 | .00 | .00 | .00 | 1.6 | 10 | 87 | 47 | e43 | 12 | e22 |
| 6 | .00 | .00 | .00 | .00 | .00 | 16 | 9.9 | 86 | 53 | e41 | 12 | e20 |
| 7 | .00 | .00 | .00 | .00 | .00 | 12 | 8.8 | 87 | 72 | e40 | 9.9 | e19 |
| 8 | .00 | .00 | .00 | .00 | .00 | 13 | 8.1 | 87 | 73 | e39 | 10 | e19 |
| 9 | .00 | .00 | .00 | .00 | .00 | 14 | 7.1 | 89 | e67 | 38 | 11 | e20 |
| 10 | .00 | .00 | .00 | .00 | .00 | 13 | 14 | 89 | e48 | 34 | 12 | e21 |
| 11 | .00 | .00 | .00 | .00 | .00 | 15 | 32 | 97 | e46 | 31 | 12 | e21 |
| 12 | .00 | .00 | .00 | .00 | .00 | 15 | 33 | 62 | e44 | 36 | 12 | e21 |
| 13 | .00 | .00 | .00 | .00 | .00 | 14 | 26 | 5.1 | e46 | 39 | 11 | e21 |
| 14 | .00 | .00 | .00 | .00 | e3.1 | 14 | 7.7 | 4.8 | e48 | 38 | 11 | e13 |
| 15 | .00 | .00 | .00 | .00 | e9.9 | 12 | 7.1 | 5.1 | e47 | 36 | 11 | .00 |
| 16 | .00 | .00 | .00 | .00 | e21 | 11 | 9.9 | 8.1 | e44 | 40 | 10 | .00 |
| 17 | .00 | .00 | .00 | .00 | e39 | 9.9 | 47 | 6.4 | e42 | 48 | 9.5 | .00 |
| 18 | .00 | .00 | .00 | .00 | e57 | 9.5 | 46 | 23 | e47 | 47 | 9.5 | .00 |
| 19 | .00 | .00 | .00 | .00 | 71 | 9.1 | 46 | 24 | e60 | 44 | 9.5 | .00 |
| 20 | .00 | .00 | .00 | .00 | 22 | 8.8 | 45 | 26 | e60 | 39 | 10 | .00 |
| 21 | .00 | .00 | .00 | .00 | 1.8 | 8.1 | 47 | 32 | e57 | 36 | 39 | e.00 |
| 22 | .00 | .00 | .00 | .00 | 1.3 | 8.1 | 60 | 51 | e53 | 33 | 19 | e.00 |
| 23 | .00 | .00 | .00 | .00 | 6.7 | 8.1 | 63 | 47 | e50 | 34 | 15 | e.00 |
| 24 | .00 | .00 | .00 | .00 | 21 | 8.1 | 66 | 25 | e49 | 32 | 13 | e.00 |
| 25 | .00 | .00 | .00 | .00 | 18 | 8.4 | 71 | 28 | e48 | 40 | 14 | e.00 |
| 26 | .00 | .00 | .00 | .00 | 9.9 | 8.1 | 74 | 36 | e48 | 34 | 14 | e.00 |
| 27 | .00 | .00 | .00 | .00 | 5.1 | 8.1 | 76 | 46 | e47 | 20 | 12 | e.00 |
| 28 | .00 | .00 | .00 | .00 | 2.8 | 8.8 | 75 | 48 | e47 | 20 | e38 | e.00 |
| 29 | .00 | .00 | .00 | .00 | --- | 8.8 | 81 | 47 | e46 | 18 | e39 | e.00 |
| 30 | .00 | .00 | .00 | .00 | --- | 9.1 | 90 | 44 | e46 | 17 | e37 | e.00 |
| 31 | .00 | --- | .00 | .00 | --- | 9.9 | --- | 40 | --- | 16 | e35 | --- |
| TOTAL | .00 | .00 | .00 | .00 | 289.60 | 287.6 | 1101.1 | 1507.5 | 1512 | 1113 | 504.4 | 317.00 |
| MEAN | .00 | .00 | .00 | .00 | 10.3 | 9.28 | 36.7 | 48.6 | 50.4 | 35.9 | 16.3 | 10.6 |
| MAX | .00 | .00 | .00 | .00 | 71 | 16 | 90 | 97 | 73 | 48 | 39 | 34 |
| MIN | .00 | .00 | .00 | .00 | .00 | 1.1 | 7.1 | 4.8 | 42 | 16 | 9.5 | .00 |
| ACFT | .00 | .00 | .00 | .00 | 574 | 570 | 2180 | 2990 | 3000 | 2210 | 1000 | 629 |
| CAL YR 1985 | TOTAL | 5026.01 | MEAN | 13.8 | MAX | 92 | MIN | .00 | ACFT | 9970 | | |
| WTR YR 1986 | TOTAL | 6632.20 | MEAN | 18.2 | MAX | 97 | MIN | .00 | ACFT | 13150 | | |

e Estimated.

BEAR RIVER BASIN

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°26'04", long 111°01'01", in NE1/4NW1/4NW1/4 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 mi².

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 fair except for estimated daily discharges, which are poor. Diversion for irrigation of about 43,500 acres above station.

AVERAGE DISCHARGE.--25 years, 268 ft³/s, 194,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,150 ft³/s June 2, 1983, gage height, 6.17 ft; minimum, 0.1 ft³/s Aug. 24, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,890 ft³/s June 4, gage height, 5.69 ft; minimum daily, 49 ft³/s Aug. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|------|-------|-------|-------|--------|--------|--------|------|------|
| 1 | 50 | 118 | e120 | e128 | e110 | 834 | 607 | 819 | 3630 | 897 | 165 | 66 |
| 2 | 52 | 107 | e130 | e139 | e105 | 675 | 637 | 849 | 3700 | 760 | 146 | 67 |
| 3 | 57 | 113 | e123 | e139 | e100 | 662 | 695 | 1090 | 3760 | 684 | 139 | 69 |
| 4 | 56 | 109 | e118 | e130 | e98 | 650 | 694 | 1440 | 3760 | 635 | 131 | 72 |
| 5 | 55 | 106 | e105 | e118 | e94 | 636 | 693 | 1600 | 3720 | 661 | 107 | 68 |
| 6 | 56 | 104 | e110 | e128 | e92 | 624 | 727 | 1510 | 3680 | 673 | 86 | 64 |
| 7 | 66 | 93 | e110 | e130 | e88 | 662 | 724 | 1410 | 3730 | 575 | 79 | 61 |
| 8 | 151 | 96 | e110 | e115 | e88 | 652 | 690 | 1320 | 3580 | 518 | 79 | 61 |
| 9 | 126 | 114 | e110 | e111 | e86 | 764 | 645 | 1400 | 3600 | 456 | 86 | 67 |
| 10 | 109 | 85 | e97 | e110 | e88 | 683 | 633 | 1370 | 3290 | 402 | 93 | 79 |
| 11 | 109 | 90 | e92 | e102 | e94 | 651 | 612 | 1750 | 2860 | 355 | 94 | 87 |
| 12 | 109 | e100 | e87 | e95 | e110 | 617 | 602 | 1740 | 2510 | 323 | 80 | 90 |
| 13 | 107 | e95 | e92 | e86 | e140 | 591 | 602 | 1540 | 2500 | 289 | 79 | 83 |
| 14 | 100 | e94 | e100 | e80 | e170 | 619 | 602 | 1380 | 2750 | 266 | 76 | 74 |
| 15 | 91 | e98 | e118 | e72 | e210 | 618 | 596 | 1310 | 2730 | 249 | 63 | 69 |
| 16 | 93 | e100 | e105 | e84 | e260 | 616 | 485 | 1270 | 2730 | 277 | 62 | 65 |
| 17 | 94 | e95 | e102 | e98 | e260 | 619 | 492 | 1210 | 2680 | 430 | 59 | 61 |
| 18 | 91 | e95 | e108 | e100 | e280 | 619 | 536 | 1180 | 2550 | 397 | 53 | 61 |
| 19 | 92 | e100 | e110 | e92 | e390 | 621 | 481 | 1320 | 2550 | 317 | 49 | 71 |
| 20 | 91 | e98 | e107 | e86 | e370 | 619 | 504 | 1650 | 2510 | 247 | 57 | 86 |
| 21 | 93 | e94 | e102 | e84 | e320 | 618 | 359 | 2090 | 2190 | 207 | 251 | 74 |
| 22 | 114 | e93 | e100 | e82 | e410 | 614 | 543 | 2540 | 1930 | 167 | 327 | 76 |
| 23 | 155 | e98 | e100 | e82 | e520 | 585 | 558 | 2690 | 1660 | 186 | 206 | 75 |
| 24 | 148 | e110 | e100 | e82 | 684 | 589 | 700 | 2200 | 1470 | 261 | 162 | 86 |
| 25 | 134 | e120 | e100 | e78 | 749 | 592 | 697 | 2260 | 1330 | 293 | 149 | 109 |
| 26 | 122 | e118 | e100 | e76 | 822 | 588 | 665 | 2550 | 1200 | 351 | 145 | 149 |
| 27 | 118 | e112 | e100 | e80 | 898 | 576 | 631 | 2930 | 1100 | 393 | 118 | 174 |
| 28 | 113 | e110 | e108 | e88 | 1090 | 565 | 631 | 3250 | 1110 | 343 | 87 | 191 |
| 29 | 108 | e110 | e112 | e98 | --- | 557 | 776 | 3380 | 1090 | 276 | 77 | 199 |
| 30 | 106 | e115 | e120 | e120 | --- | 560 | 951 | 3430 | 1010 | 218 | 76 | 176 |
| 31 | 110 | --- | e120 | e115 | --- | 567 | --- | 3540 | --- | 183 | 72 | --- |
| TOTAL | 3076 | 3090 | 3316 | 3128 | 8726 | 19443 | 18768 | 58018 | 76910 | 12289 | 3453 | 2730 |
| MEAN | 99.2 | 103 | 107 | 101 | 312 | 627 | 626 | 1872 | 2564 | 396 | 111 | 91.0 |
| MAX | 155 | 120 | 130 | 139 | 1090 | 834 | 951 | 3540 | 3760 | 897 | 327 | 199 |
| MIN | 50 | 85 | 87 | 72 | 86 | 557 | 359 | 819 | 1010 | 167 | 49 | 61 |
| ACFT | 6100 | 6130 | 6580 | 6200 | 17310 | 38570 | 37230 | 115100 | 152600 | 24380 | 6850 | 5410 |
| CAL YR 1985 | TOTAL | 78455 | MEAN | 215 | MAX | 1780 | MIN | 10 | ACFT | 155600 | | |
| WTR YR 1986 | TOTAL | 212947 | MEAN | 583 | MAX | 3760 | MIN | 49 | ACFT | 422400 | | |

e Estimated.

BEAR RIVER BASIN

207

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 mi².

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 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 observed, 62,730 acre-ft June 11, gage height, 52.8 ft; minimum observed, 18,230 acre-ft Oct. 2, gage height, 28.3 ft.

MONTHEND ELEVATION, IN FEET, AND INSTANTANEOUS CONTENTS, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| Date | Elevation (feet) | Contents (acre-feet) | Change in contents (acre-feet) |
|-----------------------|---------------------|-------------------------|-----------------------------------|
| Sept. 30 | - | 18,230 | - |
| Oct. 31 | - | 25,340 | +7,110 |
| Nov. 30 | - | 28,300 | +2,960 |
| Dec. 31 | - | 30,530 | +2,230 |
| CAL YR 1985 | - | - | -27,220 |
| Jan. 31 | - | 35,650 | +5,120 |
| Feb. 28 | - | 54,130 | +18,480 |
| Mar. 31 | - | 59,790 | +5,660 |
| Apr. 30 | - | 60,240 | +450 |
| May 31 | - | 62,500 | +2,260 |
| June 30 | - | 57,750 | -4,750 |
| July 31 | - | 56,400 | -1,350 |
| Aug. 31 | - | 49,120 | -7,280 |
| Sept. 30 | - | 48,480 | -640 |
| WTR YR 1986 | - | - | +30,250 |

BEAR RIVER BASIN

10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat $41^{\circ}30'20''$, long $111^{\circ}00'50''$, 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 mi².

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.--No estimated daily discharges. 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.--25 years, 261 ft³/s, 189,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,820 ft³/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, 3,120 ft³/s June 3, gage height, 7.72 ft; minimum daily, 33 ft³/s Oct. 1-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|------|------|-------|-------|-------|--------|--------|-------|------|
| 1 | 33 | 37 | 39 | 42 | 45 | 50 | 599 | 866 | 2890 | 802 | 168 | 166 |
| 2 | 33 | 37 | 39 | 42 | 45 | 50 | 663 | 842 | 2980 | 718 | 168 | 166 |
| 3 | 33 | 37 | 39 | 42 | 45 | 50 | 713 | 915 | 3040 | 870 | 168 | 166 |
| 4 | 33 | 37 | 39 | 42 | 45 | 59 | 708 | 1140 | 3010 | 905 | 168 | 166 |
| 5 | 33 | 37 | 39 | 42 | 45 | 210 | 698 | 1370 | 2980 | 749 | 168 | 166 |
| 6 | 33 | 37 | 39 | 42 | 45 | 399 | 729 | 1370 | 2910 | 701 | 168 | 166 |
| 7 | 33 | 37 | 39 | 42 | 45 | 539 | 738 | 1310 | 2960 | 673 | 169 | 166 |
| 8 | 33 | 37 | 40 | 43 | 45 | 640 | 691 | 1270 | 2850 | 657 | 170 | 166 |
| 9 | 33 | 37 | 40 | 43 | 45 | 760 | 633 | 1240 | 2820 | 653 | 170 | 166 |
| 10 | 34 | 38 | 40 | 43 | 45 | 781 | 603 | 1230 | 2650 | 648 | 170 | 165 |
| 11 | 34 | 38 | 40 | 43 | 45 | 725 | 579 | 1290 | 2280 | 643 | 170 | 164 |
| 12 | 34 | 38 | 40 | 43 | 45 | 686 | 575 | 1410 | 1890 | 642 | 170 | 164 |
| 13 | 34 | 38 | 40 | 43 | 45 | 636 | 547 | 1380 | 1730 | 483 | 169 | 164 |
| 14 | 34 | 38 | 40 | 43 | 45 | 590 | 549 | 1230 | 1800 | 278 | 168 | 164 |
| 15 | 34 | 38 | 41 | 43 | 45 | 553 | 546 | 1130 | 1870 | 234 | 168 | 164 |
| 16 | 34 | 38 | 41 | 44 | 45 | 508 | 545 | 1060 | 1880 | 165 | 168 | 164 |
| 17 | 35 | 38 | 41 | 44 | 45 | 451 | 552 | 1020 | 1880 | 164 | 168 | 164 |
| 18 | 35 | 38 | 41 | 44 | 46 | 409 | 578 | 952 | 1840 | 165 | 168 | 164 |
| 19 | 35 | 38 | 41 | 44 | 45 | 384 | 579 | 951 | 1790 | 166 | 168 | 164 |
| 20 | 35 | 38 | 41 | 45 | 45 | 364 | 563 | 1070 | 1810 | 166 | 168 | 164 |
| 21 | 35 | 39 | 41 | 45 | 45 | 356 | 562 | 1300 | 1680 | 166 | 168 | 146 |
| 22 | 35 | 39 | 41 | 45 | 45 | 340 | 568 | 1620 | 1540 | 168 | 168 | 66 |
| 23 | 35 | 39 | 41 | 45 | 47 | 346 | 610 | 1900 | 1370 | 168 | 168 | 65 |
| 24 | 35 | 39 | 41 | 45 | 47 | 397 | 674 | 1780 | 1210 | 168 | 168 | 64 |
| 25 | 35 | 39 | 41 | 46 | 47 | 441 | 711 | 1630 | 1100 | 166 | 168 | 63 |
| 26 | 36 | 39 | 41 | 46 | 48 | 456 | 702 | 1700 | 1010 | 167 | 168 | 63 |
| 27 | 36 | 39 | 41 | 46 | 48 | 426 | 684 | 1900 | 922 | 166 | 167 | 63 |
| 28 | 36 | 39 | 41 | 45 | 49 | 404 | 667 | 2250 | 893 | 166 | 166 | 63 |
| 29 | 36 | 39 | 41 | 44 | --- | 429 | 734 | 2580 | 879 | 168 | 166 | 63 |
| 30 | 37 | 39 | 41 | 44 | --- | 490 | 849 | 2720 | 850 | 168 | 166 | 63 |
| 31 | 37 | --- | 42 | 44 | --- | 546 | --- | 2800 | --- | 168 | 166 | --- |
| TOTAL | 1068 | 1141 | 1251 | 1354 | 1277 | 13475 | 19149 | 45226 | 59314 | 12321 | 5211 | 4018 |
| MEAN | 34.5 | 38.0 | 40.4 | 43.7 | 45.6 | 435 | 638 | 1459 | 1977 | 397 | 168 | 134 |
| MAX | 37 | 39 | 42 | 46 | 49 | 781 | 849 | 2800 | 3040 | 905 | 170 | 166 |
| MIN | 33 | 37 | 39 | 42 | 45 | 50 | 545 | 842 | 850 | 164 | 166 | 63 |
| ACFT | 2120 | 2260 | 2480 | 2690 | 2530 | 26730 | 37980 | 89710 | 117600 | 24440 | 10340 | 7970 |
| CAL YR 1985 | TOTAL | 117978 | MEAN | 323 | MAX | 1560 | MIN | 31 | ACFT | 234000 | | |
| WTR YR 1986 | TOTAL | 164805 | MEAN | 452 | MAX | 3040 | MIN | 33 | ACFT | 326900 | | |

BEAR RIVER BASIN

209

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 mi².

PERIOD OF RECORD.--October 1970 to September 1986 (discontinued).

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 poor. Flow regulated by Woodruff Creek reservoir, total capacity, 4,100 acre-ft since Nov. 2, 1970.

AVERAGE DISCHARGE.--16 years, 31.7 ft³/s, 22,970 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 783 ft³/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, 568 ft³/s May 29, gage height, 3.12 ft; minimum discharge, no flow, Nov. 19 - Feb. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|----------|------|------|-------|------|------|-------|-------|-------|--------|-------|
| 1 | 14 | 19 | .00 | .00 | .00 | 35 | 95 | 110 | 389 | 72 | 38 | .85 |
| 2 | 14 | 19 | .00 | .00 | .00 | 40 | 85 | 130 | 393 | 69 | 36 | .76 |
| 3 | 15 | 19 | .00 | .00 | .00 | 39 | 69 | 185 | 359 | 76 | 36 | .76 |
| 4 | 15 | 19 | .00 | .00 | .00 | 41 | 61 | 256 | 346 | 70 | 35 | .76 |
| 5 | 15 | 18 | .00 | .00 | .00 | 42 | 57 | 200 | 315 | 67 | 35 | .79 |
| 6 | 15 | 17 | .00 | .00 | .00 | 43 | 58 | 170 | 315 | 65 | 35 | .86 |
| 7 | 15 | 17 | .00 | .00 | .00 | 43 | 65 | 149 | 270 | 64 | 33 | .77 |
| 8 | 19 | 17 | .00 | .00 | .00 | 51 | 65 | 134 | 248 | 76 | 33 | .74 |
| 9 | 21 | 17 | .00 | .00 | .00 | 61 | 66 | 119 | 220 | 87 | 33 | .74 |
| 10 | 21 | 17 | .00 | .00 | .00 | 49 | 65 | 112 | 187 | 86 | 32 | .76 |
| 11 | 21 | 17 | .00 | .00 | .00 | 43 | 73 | 111 | 181 | 84 | 32 | .76 |
| 12 | 20 | 17 | .00 | .00 | .00 | 38 | 77 | 109 | 175 | 82 | 32 | .76 |
| 13 | 20 | 17 | .00 | .00 | .00 | 35 | 86 | 113 | 166 | 81 | 31 | .76 |
| 14 | 21 | 17 | .00 | .00 | .00 | 33 | 79 | 121 | 158 | 80 | 31 | .73 |
| 15 | 21 | 16 | .00 | .00 | 1.4 | 30 | 75 | 132 | 150 | 79 | 31 | .76 |
| 16 | 21 | 8.4 | .00 | .00 | .86 | 29 | 80 | 146 | 142 | 78 | 30 | .76 |
| 17 | 21 | .37 | .00 | .00 | 1.5 | 28 | 76 | 155 | 132 | 77 | 15 | .70 |
| 18 | 21 | .13 | .00 | .00 | 4.0 | 26 | 72 | 177 | 125 | 74 | 2.3 | .65 |
| 19 | 21 | .00 | .00 | .00 | 2.9 | 25 | 69 | 234 | 119 | 70 | 1.3 | .73 |
| 20 | 21 | .00 | .00 | .00 | 1.3 | 24 | 69 | 357 | 112 | 69 | 1.1 | .74 |
| 21 | 21 | .00 | .00 | .00 | 1.0 | 24 | 82 | 486 | 105 | 68 | 1.4 | .79 |
| 22 | 21 | .00 | .00 | .00 | .99 | 26 | 115 | 450 | 101 | 66 | 1.0 | .77 |
| 23 | 21 | .00 | .00 | .00 | 1.5 | 31 | 176 | 315 | 97 | 65 | .86 | .75 |
| 24 | 20 | .00 | .00 | .00 | 1.5 | 39 | 189 | 258 | 94 | 64 | .86 | .87 |
| 25 | 20 | .00 | .00 | .00 | 1.4 | 43 | 173 | 292 | 91 | 63 | .86 | 1.1 |
| 26 | 20 | .00 | .00 | .00 | 1.3 | 41 | 143 | 392 | 88 | 62 | .86 | .91 |
| 27 | 19 | .00 | .00 | .00 | 1.2 | 44 | 119 | 502 | 84 | 61 | .83 | .81 |
| 28 | 20 | .00 | .00 | .00 | 2.3 | 53 | 112 | 502 | 82 | 59 | .76 | .72 |
| 29 | 19 | .00 | .00 | .00 | --- | 67 | 114 | 521 | 79 | 58 | .76 | .68 |
| 30 | 19 | .00 | .00 | .00 | --- | 79 | 109 | 446 | 76 | 57 | .78 | .67 |
| 31 | 19 | --- | .00 | .00 | --- | 98 | --- | 393 | --- | 46 | .83 | --- |
| TOTAL | 591 | 271.90 | .00 | .00 | 23.15 | 1300 | 2774 | 7777 | 5399 | 2175 | 562.50 | 23.21 |
| MEAN | 19.1 | 9.06 | .00 | .00 | .83 | 41.9 | 92.5 | 251 | 180 | 70.2 | 18.1 | .77 |
| MAX | 21 | 19 | .00 | .00 | 4.0 | 98 | 189 | 521 | 393 | 87 | 38 | 1.1 |
| MIN | 14 | .00 | .00 | .00 | .00 | 24 | 57 | 109 | 76 | 46 | .76 | .65 |
| ACFT | 1170 | 539 | .00 | .00 | 46 | 2580 | 5500 | 15430 | 10710 | 4310 | 1120 | 46 |
| CAL YR 1985 | TOTAL | 13164.73 | MEAN | 36.1 | MAX | 280 | MIN | .00 | ACFT | 26110 | | |
| WTR YR 1986 | TOTAL | 20896.76 | MEAN | 57.3 | MAX | 521 | MIN | .00 | ACFT | 41450 | | |

BEAR RIVER BASIN

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 mi².

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 poor. Diversion for irrigation of about 94,500 acres above station. Flow regulated by upstream reservoirs.

AVERAGE DISCHARGE.--43 years, 225 ft³/s, 163,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,630 ft³/s June 4, 1983, gage height, 8.58 ft; minimum, 1.6 ft³/s Nov. 12, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,010 ft³/s June 3; minimum daily, 49 ft³/s Jan. 13, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|------|-------|-------|-------|--------|--------|--------|-------|-------|
| 1 | 92 | 108 | e74 | e59 | e59 | e1100 | 680 | 1080 | e2910 | e810 | e280 | e220 |
| 2 | 87 | 110 | e74 | e58 | e61 | e980 | 743 | 1140 | e3000 | e830 | e270 | e220 |
| 3 | 87 | 108 | e70 | e58 | e61 | e820 | 789 | 1180 | e3010 | e860 | e260 | e225 |
| 4 | 86 | 108 | e66 | e57 | e60 | e720 | 844 | 1180 | e3000 | e820 | e255 | e220 |
| 5 | 86 | 109 | e64 | e58 | e60 | e680 | 897 | 1200 | e2980 | e740 | e250 | e215 |
| 6 | 86 | 104 | e64 | e57 | e60 | e670 | 894 | 1260 | e2910 | e720 | e240 | e210 |
| 7 | 88 | 105 | e62 | e56 | e61 | e720 | 885 | 1400 | e2890 | e680 | e235 | e210 |
| 8 | 90 | 107 | e57 | e55 | e63 | e760 | 889 | 1570 | e2900 | e670 | e230 | e210 |
| 9 | 91 | 108 | e54 | e54 | e67 | e800 | 904 | 1720 | e2780 | e640 | e225 | e215 |
| 10 | 91 | e113 | e55 | e53 | e72 | e860 | 888 | 1700 | e2700 | e610 | e225 | e210 |
| 11 | 91 | e116 | e52 | e52 | e75 | e910 | 842 | e1830 | e2680 | e590 | e225 | e200 |
| 12 | 90 | e120 | e57 | e50 | e78 | e910 | 808 | e1770 | e2590 | e550 | e225 | e200 |
| 13 | 91 | e122 | e57 | e49 | e79 | 871 | 788 | e1730 | e2500 | e510 | e225 | e200 |
| 14 | 92 | e122 | e55 | e49 | e81 | 851 | 763 | e1710 | e2480 | e490 | e225 | e195 |
| 15 | 92 | e118 | e56 | e50 | e89 | 806 | 742 | e1690 | e2100 | e470 | e230 | e195 |
| 16 | 91 | e113 | e56 | e52 | e101 | 760 | 741 | e1680 | e1980 | e450 | e240 | e195 |
| 17 | 92 | e110 | e55 | e52 | e109 | 724 | 742 | e1660 | e1840 | 440 | e240 | e192 |
| 18 | 92 | e108 | e53 | e52 | e143 | 673 | 726 | e1680 | e1780 | 385 | e240 | e187 |
| 19 | 92 | e106 | e52 | e52 | e185 | 621 | 736 | e1700 | e1710 | 341 | e240 | 181 |
| 20 | 92 | e99 | e52 | e52 | e295 | 584 | 753 | e1800 | e1700 | 323 | e235 | 182 |
| 21 | 93 | e96 | e52 | e52 | e390 | 561 | 765 | e1900 | e1630 | 312 | e230 | 184 |
| 22 | 100 | e94 | e52 | e51 | e470 | 558 | 771 | e2100 | e1470 | 315 | e230 | 186 |
| 23 | 103 | e90 | e51 | e51 | e600 | 566 | 795 | e2200 | e1320 | 301 | e230 | 180 |
| 24 | 104 | e87 | e50 | e52 | e680 | 560 | 828 | e2300 | e1210 | 349 | e230 | 157 |
| 25 | 104 | e84 | e51 | e54 | e740 | 579 | 864 | e2180 | e1100 | 333 | e230 | 158 |
| 26 | 104 | e82 | e52 | e54 | e800 | 585 | 943 | e2300 | e1000 | 346 | e230 | 169 |
| 27 | 104 | e82 | e53 | e54 | e960 | 618 | 985 | e2480 | e910 | 340 | e230 | 180 |
| 28 | 103 | e81 | e54 | e53 | e1140 | 636 | 998 | e2570 | e880 | 327 | e230 | 185 |
| 29 | 103 | e80 | e55 | e53 | --- | 626 | 1060 | e2650 | e850 | 322 | e230 | 176 |
| 30 | 107 | e77 | e57 | e55 | --- | 618 | 1050 | e2770 | e820 | e300 | e225 | 170 |
| 31 | 109 | --- | e59 | e57 | --- | 660 | --- | e2870 | --- | e290 | e220 | --- |
| TOTAL | 2933 | 3067 | 1771 | 1661 | 7639 | 22387 | 25113 | 57000 | 61630 | 15464 | 7310 | 5827 |
| MEAN | 94.6 | 102 | 57.1 | 53.6 | 273 | 722 | 837 | 1839 | 2054 | 499 | 236 | 194 |
| MAX | 109 | 122 | 74 | 59 | 1140 | 1100 | 1060 | 2870 | 3010 | 860 | 280 | 225 |
| MIN | 86 | 77 | 50 | 49 | 59 | 558 | 680 | 1080 | 820 | 290 | 220 | 157 |
| ACFT | 5820 | 6080 | 3510 | 3290 | 15150 | 44400 | 49810 | 113100 | 122200 | 30670 | 14500 | 11560 |
| CAL YR 1985 | TOTAL | 109934 | MEAN | 301 | MAX | 1470 | MIN | 37 | ACFT | 218100 | | |
| WTR YR 1986 | TOTAL | 211802 | MEAN | 580 | MAX | 3010 | MIN | 49 | ACFT | 420100 | | |

e Estimated.

BEAR RIVER BASIN

211

10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY

LOCATION.--Lat $41^{\circ}56'20''$, long $110^{\circ}59'05''$, 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, including estimated daily discharges. 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, 1,530 ft^3/s May 12, June 5; minimum recorded, 156 ft^3/s Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|
| 1 | | | | | | | | 1260 | 1380 | 608 | 255 | 215 |
| 2 | | | | | | | | 1240 | 1420 | 615 | 249 | 213 |
| 3 | | | | | | | | 1250 | 1460 | 605 | 246 | 210 |
| 4 | | | | | | | | 1270 | 1470 | 559 | 240 | 210 |
| 5 | | | | | | | | 1290 | 1530 | 564 | 237 | 208 |
| 6 | | | | | | | | 1300 | 1520 | 608 | 234 | 205 |
| 7 | | | | | | | | 1320 | 1480 | 577 | 225 | 200 |
| 8 | | | | | | | | 1350 | 1390 | 542 | 232 | 174 |
| 9 | | | | | | | | 1380 | 1310 | 527 | 234 | 180 |
| 10 | | | | | | | | 1420 | 1360 | 540 | 227 | 188 |
| 11 | | | | | | | | 1500 | 1380 | 567 | 217 | 184 |
| 12 | | | | | | | | 1530 | 1400 | 580 | 242 | 186 |
| 13 | | | | | | | | 1520 | 1400 | 590 | 237 | 184 |
| 14 | | | | | | | | 1500 | 1380 | 597 | 227 | 194 |
| 15 | | | | | | | | 1490 | 1340 | 584 | 222 | 202 |
| 16 | | | | | | | | 1470 | 1290 | 496 | 222 | 197 |
| 17 | | | | | | | | 1460 | 1220 | 445 | 222 | 194 |
| 18 | | | | | | | | 1460 | 1160 | 382 | 215 | 197 |
| 19 | | | | | | | | 1420 | 1120 | 328 | 205 | 204 |
| 20 | | | | | | | | 1360 | 1100 | 297 | 208 | 208 |
| 21 | | | | | | | | 1300 | 1080 | 282 | 213 | 208 |
| 22 | | | | | | | | 1260 | 1070 | 280 | 222 | 210 |
| 23 | | | | | | | | 1220 | 1060 | 267 | 227 | 210 |
| 24 | | | | | | | | 1230 | 1060 | 314 | 225 | 194 |
| 25 | | | | | | | | 1250 | 1050 | 305 | 220 | 186 |
| 26 | | | | | | | | 1310 | 1030 | 311 | 217 | 204 |
| 27 | | | | | | | | 1340 | 992 | 301 | 217 | e215 |
| 28 | | | | | | | | 1370 | 911 | 291 | 208 | e220 |
| 29 | | | | | | | | 1380 | 806 | 276 | 205 | e225 |
| 30 | | | | | | | | 1370 | 687 | 267 | 208 | e230 |
| 31 | | | | | | | | 1370 | --- | 260 | 213 | --- |
| TOTAL | | | | | | | | 42190 | 36856 | 13765 | 6971 | 6055 |
| MEAN | | | | | | | | 1361 | 1229 | 444 | 225 | 202 |
| MAX | | | | | | | | 1530 | 1530 | 615 | 255 | 230 |
| MIN | | | | | | | | 1220 | 687 | 260 | 205 | 174 |
| ACFT | | | | | | | | 83680 | 73100 | 27300 | 13830 | 12010 |

e Estimated.

BEAR RIVER BASIN

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 Hobbie Creek, and 12 mi northeast of Border.

DRAINAGE AREA.--165 mi².

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.--44 years, 202 ft³/s, 146,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,100 ft³/s June 4, 1986, gage height, 5.66 ft; minimum, 21 ft³/s Mar. 29, 1975, Jan. 24, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,100 ft³/s June 4, gage height, 5.66 ft; minimum daily, 52 ft³/s Jan. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|------|------|------|-------|-------|-------|--------|-------|------|
| 1 | 94 | 106 | e109 | e84 | e56 | e58 | 228 | 360 | 1860 | 751 | 312 | 150 |
| 2 | 94 | 110 | e109 | e84 | e57 | e58 | 211 | 424 | 1960 | 719 | 293 | 152 |
| 3 | 92 | 109 | e107 | e80 | e58 | e60 | 211 | 592 | 1980 | 693 | 278 | 150 |
| 4 | 88 | 105 | e103 | e77 | e60 | e60 | 214 | 794 | 2000 | 681 | 267 | 143 |
| 5 | 88 | 112 | e100 | e75 | e60 | e62 | 215 | 694 | 1950 | 669 | 256 | 137 |
| 6 | 88 | 112 | e98 | e77 | e58 | e64 | 219 | 626 | 1940 | 632 | 245 | 133 |
| 7 | 98 | 112 | e96 | e75 | e58 | e66 | 224 | 582 | 1880 | 608 | 238 | 135 |
| 8 | 107 | 121 | e95 | e73 | e56 | e68 | 221 | 545 | 1800 | 588 | 231 | 140 |
| 9 | 99 | 123 | e91 | e69 | e55 | e72 | 231 | 504 | 1680 | 566 | 225 | 152 |
| 10 | 94 | 121 | e87 | e66 | e55 | e76 | 225 | 484 | 1560 | 549 | 216 | 185 |
| 11 | 92 | 120 | e84 | e66 | e53 | e79 | 238 | 465 | 1490 | 539 | 208 | 182 |
| 12 | 94 | 120 | e81 | e64 | e53 | e78 | 250 | 444 | 1460 | 521 | 202 | 172 |
| 13 | 93 | e122 | e79 | e62 | e55 | e78 | 258 | 450 | 1460 | 494 | 195 | 161 |
| 14 | 90 | e120 | e82 | e60 | e57 | e78 | 230 | 472 | 1410 | 474 | 192 | 153 |
| 15 | 92 | e120 | e85 | e57 | e59 | e80 | 242 | 477 | 1370 | 465 | 185 | 151 |
| 16 | 92 | e118 | e86 | e56 | e61 | e83 | 271 | 487 | 1370 | 471 | 178 | 153 |
| 17 | 91 | e116 | e84 | e56 | e61 | e87 | 257 | 503 | 1330 | 477 | 171 | 151 |
| 18 | 90 | e115 | e82 | e56 | e61 | e93 | 226 | 554 | 1290 | 444 | 164 | 160 |
| 19 | 89 | e111 | e82 | e56 | e60 | e97 | 227 | 649 | 1230 | 424 | 163 | 169 |
| 20 | 89 | e109 | e80 | e55 | e59 | e101 | 255 | 821 | 1160 | 408 | 170 | 165 |
| 21 | 90 | e111 | e80 | e54 | e58 | e106 | 347 | 1080 | 1100 | 395 | 189 | 165 |
| 22 | 95 | e111 | e78 | e52 | e57 | e109 | 446 | 1180 | 1040 | 391 | 189 | 166 |
| 23 | 109 | e109 | e78 | e54 | e59 | e112 | 691 | 930 | 982 | 414 | 181 | 165 |
| 24 | 128 | e109 | e75 | e53 | e59 | e118 | 708 | 840 | 939 | 445 | 178 | 166 |
| 25 | 130 | e107 | e74 | e53 | e57 | e121 | 623 | 877 | 911 | 432 | 174 | 187 |
| 26 | 127 | e110 | e76 | e54 | e57 | e128 | 538 | 1040 | 879 | 421 | 165 | 188 |
| 27 | 121 | e110 | e78 | e54 | e56 | e140 | 470 | 1290 | 850 | 446 | 158 | 205 |
| 28 | 117 | e112 | e80 | e55 | e56 | e157 | 420 | 1460 | 836 | 412 | 148 | 219 |
| 29 | 111 | e114 | e78 | e56 | --- | e174 | 389 | 1560 | 815 | 371 | 149 | 218 |
| 30 | 111 | e109 | e81 | e58 | --- | 197 | 358 | 1670 | 787 | 349 | 151 | 205 |
| 31 | 111 | --- | e83 | e56 | --- | 222 | --- | 1750 | --- | 331 | 152 | --- |
| TOTAL | 3104 | 3404 | 2681 | 1947 | 1611 | 3082 | 9643 | 24604 | 41319 | 15580 | 6223 | 4978 |
| MEAN | 100 | 113 | 86.5 | 62.8 | 57.5 | 99.4 | 321 | 794 | 1377 | 503 | 201 | 166 |
| MAX | 130 | 123 | 109 | 84 | 61 | 222 | 708 | 1750 | 2000 | 751 | 312 | 219 |
| MIN | 88 | 105 | 74 | 52 | 53 | 58 | 211 | 360 | 787 | 331 | 148 | 133 |
| ACFT | 6160 | 6750 | 5320 | 3860 | 3200 | 6110 | 19130 | 48800 | 81960 | 30900 | 12340 | 9870 |
| CAL YR 1985 | TOTAL | 63531 | MEAN | 174 | MAX | 607 | MIN | 40 | ACFT | 126000 | | |
| WTR YR 1986 | TOTAL | 118176 | MEAN | 324 | MAX | 2000 | MIN | 52 | ACFT | 234400 | | |

e Estimated.

BEAR RIVER BASIN

213

10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY

LOCATION.--Lat 42°07'36", long 110°58'21", in NW1/4SE1/4NE1/4 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 mi².

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 fair except for estimated daily discharges, which are poor. Natural flow of stream affected by diversion for irrigation, return flow from irrigated areas, and regulation by upstream reservoirs.

AVERAGE DISCHARGE.--32 years, 492 ft³/s, 356,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,620 ft³/s June 7, 1983, gage height, 8.75 ft; minimum, 31 ft³/s Oct. 4, 5, 6, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4,190 ft³/s June 10; minimum daily, 140 ft³/s Jan. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|-------|-------|--------|--------|--------|-------|-------|
| 1 | 218 | 232 | e210 | e175 | 186 | 2500 | 1300 | 1970 | 3260 | 2060 | 744 | 629 |
| 2 | 218 | 233 | 229 | e180 | 192 | 2370 | 1310 | 2010 | 3350 | 1930 | 714 | 632 |
| 3 | 215 | 232 | 227 | e175 | 195 | 1520 | 1300 | 2160 | 3410 | 1840 | 701 | 637 |
| 4 | 204 | 230 | e220 | e170 | 188 | 1190 | 1350 | 2420 | 3460 | 1760 | 692 | 630 |
| 5 | 205 | 233 | e210 | e165 | 193 | 1020 | 1420 | 2540 | 3570 | 1700 | 686 | 621 |
| 6 | 205 | 235 | e200 | e170 | e180 | 906 | 1480 | 2440 | 3650 | 1690 | 677 | 612 |
| 7 | 217 | 233 | 203 | e165 | e170 | 863 | 1540 | 2370 | 3820 | 1630 | 674 | 606 |
| 8 | 231 | 241 | 205 | e155 | e160 | 971 | 1550 | 2350 | 3930 | 1520 | 667 | 590 |
| 9 | 223 | 236 | 211 | e150 | e150 | 1140 | 1560 | 2330 | 4080 | 1430 | 684 | 572 |
| 10 | 218 | 212 | e190 | e160 | e160 | 1210 | 1560 | 2320 | 4190 | 1370 | 673 | 612 |
| 11 | 218 | 221 | 178 | e170 | e180 | 1230 | 1540 | 2340 | 4140 | 1370 | 656 | 592 |
| 12 | 222 | 263 | e160 | e160 | e180 | 1260 | 1520 | 2380 | 4090 | 1410 | 621 | 570 |
| 13 | 221 | 267 | e150 | e150 | 176 | 1260 | 1500 | 2430 | 4100 | 1340 | 648 | 566 |
| 14 | 218 | 266 | 168 | e150 | 173 | 1250 | 1430 | 2480 | 4120 | 1330 | 637 | 557 |
| 15 | 225 | 226 | e165 | e140 | 187 | 1210 | 1380 | 2480 | 4040 | 1310 | 621 | 586 |
| 16 | 226 | 215 | e160 | e160 | 210 | 1160 | 1390 | 2460 | 3960 | 1180 | 615 | 575 |
| 17 | 221 | 261 | 161 | e180 | 212 | 1110 | 1400 | 2450 | 3840 | 1080 | 617 | 568 |
| 18 | 220 | 247 | 163 | e200 | 241 | 1030 | 1360 | 2460 | 3690 | 988 | 617 | 572 |
| 19 | 219 | 209 | e170 | e180 | 337 | 972 | 1330 | 2500 | 3540 | 903 | 613 | 582 |
| 20 | 217 | 210 | e165 | 161 | 549 | 915 | 1320 | 2590 | 3400 | 846 | 608 | 580 |
| 21 | 208 | 244 | e160 | 168 | 634 | 875 | 1450 | 2720 | 3260 | 817 | 627 | 580 |
| 22 | 220 | 238 | e155 | e160 | 659 | 862 | 1610 | 2880 | 3130 | 795 | 634 | 580 |
| 23 | 239 | 225 | e160 | 165 | 706 | 888 | 1870 | 2820 | 3010 | 801 | 644 | 581 |
| 24 | 252 | 202 | e155 | 158 | 853 | 938 | 2270 | 2570 | 2910 | 831 | 642 | 607 |
| 25 | 243 | 227 | e150 | 160 | 1020 | 976 | 2250 | 2480 | 2850 | 868 | 648 | 611 |
| 26 | 240 | e210 | e155 | e150 | 1090 | 979 | 2170 | 2510 | 2820 | 844 | 655 | 612 |
| 27 | 237 | e210 | e160 | e150 | 1180 | 951 | 2040 | 2660 | 2730 | 850 | 644 | 628 |
| 28 | 236 | 219 | e170 | e150 | 1650 | 986 | 1990 | 2860 | 2650 | 829 | 630 | 640 |
| 29 | 250 | 223 | e165 | e155 | --- | 1050 | 1980 | 3010 | 2520 | 795 | 621 | 627 |
| 30 | 233 | e220 | e160 | 163 | --- | 1120 | 1960 | 3120 | 2290 | 776 | 621 | 603 |
| 31 | 233 | --- | e170 | 176 | --- | 1230 | --- | 3210 | --- | 757 | 633 | --- |
| TOTAL | 6952 | 6920 | 5505 | 5071 | 12011 | 35942 | 48130 | 78320 | 103810 | 37650 | 20164 | 17958 |
| MEAN | 224 | 231 | 178 | 164 | 429 | 1159 | 1604 | 2526 | 3460 | 1215 | 650 | 599 |
| MAX | 252 | 267 | 229 | 200 | 1650 | 2500 | 2270 | 3210 | 4190 | 2060 | 744 | 640 |
| MIN | 204 | 202 | 150 | 140 | 150 | 862 | 1300 | 1970 | 2290 | 757 | 608 | 557 |
| ACFT | 13790 | 13730 | 10920 | 10060 | 23820 | 71290 | 95470 | 155300 | 205900 | 74680 | 40000 | 35620 |
| CAL YR 1985 | TOTAL | 214950 | MEAN | 589 | MAX | 2300 | MIN | 143 | ACFT | 426400 | | |
| WTR YR 1986 | TOTAL | 378433 | MEAN | 1037 | MAX | 4190 | MIN | 140 | ACFT | 750600 | | |

e Estimated.

BEAR RIVER BASIN

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 mi².

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 except for estimated daily discharges, which are poor. Natural flow of stream affected by regulation of upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--49 years, 465 ft³/s, 336,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,880 ft³/s June 7, 1983, gage height, 9.69 ft; minimum, 24 ft³/s Apr. 29, 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4,180 ft³/s June 14; minimum daily discharge, 150 ft³/s Feb. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|
| 1 | 240 | 263 | e240 | e240 | e220 | e2700 | 1340 | 1890 | 3150 | 1940 | 644 | 456 |
| 2 | 251 | 263 | e260 | e270 | e230 | e2600 | 1390 | 1860 | 3260 | 1750 | 615 | 461 |
| 3 | 248 | 263 | e270 | e270 | e230 | e2000 | 1370 | 1920 | 3390 | 1640 | 593 | 468 |
| 4 | 239 | 260 | e250 | e260 | e230 | e1500 | 1380 | 2130 | 3470 | 1550 | 581 | 461 |
| 5 | 239 | 263 | e230 | e230 | e230 | e1200 | 1420 | 2430 | 3590 | 1490 | 567 | 453 |
| 6 | 240 | 265 | e230 | e250 | e210 | e1160 | 1460 | 2460 | 3660 | 1460 | 557 | 446 |
| 7 | 250 | 265 | e240 | e240 | e200 | e1120 | 1510 | 2430 | 3760 | 1430 | 548 | 442 |
| 8 | 267 | 274 | e250 | e220 | e180 | e1230 | 1550 | 2400 | 3870 | 1350 | 539 | 440 |
| 9 | 261 | 272 | e250 | e200 | e150 | e1300 | 1560 | 2370 | 4000 | 1280 | 548 | 427 |
| 10 | 258 | e250 | e220 | e200 | e160 | e1400 | 1600 | 2320 | 4160 | 1220 | 541 | 466 |
| 11 | 255 | 286 | e210 | e220 | e170 | e1400 | 1630 | 2280 | 4140 | 1210 | 532 | 464 |
| 12 | 260 | 284 | e210 | e200 | e190 | e1440 | 1630 | 2270 | 4110 | 1240 | 500 | 447 |
| 13 | 259 | 296 | e220 | e180 | e210 | e1440 | 1640 | 2270 | 4120 | 1180 | 514 | 453 |
| 14 | 256 | 289 | e210 | e170 | e220 | e1390 | 1600 | 2280 | 4180 | 1180 | 509 | 443 |
| 15 | 260 | 270 | e220 | e170 | e230 | e1340 | 1560 | 2290 | 4160 | 1170 | 495 | 456 |
| 16 | 262 | e260 | e210 | e190 | e250 | e1270 | 1540 | 2280 | 4070 | 1110 | 489 | 454 |
| 17 | 258 | e295 | e220 | e210 | e250 | e1220 | 1550 | 2270 | 3960 | 1030 | 484 | 449 |
| 18 | 254 | e300 | e240 | e210 | e290 | e1150 | 1530 | 2270 | 3860 | 943 | 480 | 448 |
| 19 | 256 | e300 | e250 | e200 | e390 | e1080 | 1500 | 2290 | 3750 | 867 | 475 | 459 |
| 20 | 253 | e260 | e240 | e200 | e620 | e1000 | 1470 | 2360 | 3630 | 819 | 466 | 458 |
| 21 | 250 | e250 | e220 | e200 | e700 | e920 | 1520 | 2500 | 3510 | 776 | 482 | 456 |
| 22 | 253 | e290 | e210 | e190 | e730 | 907 | 1610 | 2640 | 3380 | 749 | 482 | 455 |
| 23 | 269 | e280 | e210 | e200 | e790 | 921 | 1820 | 2720 | 3260 | 743 | 482 | 455 |
| 24 | 282 | e250 | e210 | e190 | e950 | 965 | 2280 | 2620 | 3110 | 755 | 467 | 476 |
| 25 | 278 | e250 | e200 | e200 | e1120 | 1000 | 2500 | 2500 | 2980 | 790 | 468 | 496 |
| 26 | 282 | e230 | e200 | e210 | e1180 | 1010 | 2510 | 2450 | 2900 | 754 | 481 | 500 |
| 27 | 272 | e230 | e210 | e200 | e1280 | 980 | 2340 | 2510 | 2800 | 757 | 462 | 521 |
| 28 | 267 | e270 | e220 | e190 | e1800 | 1010 | 2170 | 2660 | 2670 | 739 | 443 | 531 |
| 29 | 280 | e270 | e210 | e190 | --- | 1070 | 2060 | 2820 | 2500 | 709 | 439 | 522 |
| 30 | 264 | e280 | e220 | e200 | --- | 1140 | 1970 | 2930 | 2240 | 684 | 438 | 506 |
| 31 | 264 | --- | e230 | e210 | --- | 1250 | --- | 3050 | --- | 662 | 451 | --- |
| TOTAL | 8027 | 8078 | 7010 | 6510 | 13410 | 40113 | 51010 | 74470 | 105640 | 33977 | 15772 | 13969 |
| MEAN | 259 | 269 | 226 | 210 | 479 | 1294 | 1700 | 2402 | 3521 | 1096 | 509 | 466 |
| MAX | 282 | 300 | 270 | 270 | 1800 | 2700 | 2510 | 3050 | 4180 | 1940 | 644 | 531 |
| MIN | 239 | 230 | 200 | 170 | 150 | 907 | 1340 | 1860 | 2240 | 662 | 438 | 427 |
| ACFT | 15920 | 16020 | 13900 | 12910 | 26600 | 79560 | 101200 | 147700 | 209500 | 67390 | 31280 | 27710 |
| CAL YR 1985 | TOTAL | 219151 | MEAN | 600 | MAX | 2350 | MIN | 127 | ACFT | 434700 | | |
| WTR YR 1986 | TOTAL | 377986 | MEAN | 1036 | MAX | 4180 | MIN | 150 | ACFT | 749700 | | |

e Estimated.

BEAR RIVER BASIN

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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 microsiemens Dec. 27, 1975; minimum daily, 312 microsiemens 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 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | PH (STAND- ARD UNITS) | TEMPER- ATURE, AIR (DEG C) | TEMPER- ATURE (DEG C) | TUR- BID- ITY (NTU) | OXYGEN, DIS- SOLVED (MG/L) | BARO- METRIC PRES- SURE (MM OF HG) | COLI- FORM, FECAL, 0.7 UM-MF (COL S./ 100 ML) | STREP- TOCOCCI FECAL, KF AGAR (COL S. PER 100 ML) |
|----------|------|---|---|--------------------------------|-------------------------------------|-----------------------------|------------------------------|-------------------------------------|--|---|---|
| NOV 1985 | | | | | | | | | | | |
| 27... | 1145 | 300 | 650 | -- | -2.0 | 0.0 | 7.0 | 11.2 | 605 | 3 | 37 |
| JAN 1986 | | | | | | | | | | | |
| 22... | 1400 | 412 | 630 | 8.20 | -2.5 | 0.0 | 5.0 | 9.6 | 610 | 7 | <1 |
| MAR | | | | | | | | | | | |
| 21... | 1400 | 911 | 720 | 8.40 | 5.5 | 6.5 | 45 | 9.4 | 615 | <1 | 58 |
| APR | | | | | | | | | | | |
| 30... | 1500 | 1970 | 620 | 8.40 | 13.0 | 8.5 | 95 | 8.3 | 600 | 40 | 56 |
| JUL | | | | | | | | | | | |
| 17... | 0915 | 1020 | 485 | 8.30 | 13.0 | 15.5 | 60 | 6.9 | 613 | 160 | 840 |
| SEP | | | | | | | | | | | |
| 03... | 1315 | 469 | 510 | 8.40 | 20.0 | 16.5 | 26 | 8.2 | 615 | 180 | 200 |

| DATE | HARD- NESS (MG/L AS CAC03) | HARD- NESS NONCAR- BONATE (MG/L AS CAC03) | CALCIUM DIS- SOLVED (MG/L AS CA) | MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) | SODIUM, DIS- SOLVED (MG/L AS NA) | PERCENT SODIUM | SODIUM AD- SORP- TION RATIO | POTAS- SIUM, DIS- SOLVED (MG/L AS K) | BICAR- BONATE IT-FLD (MG/L AS HC03) | CAR- BONATE IT-FLD (MG/L AS C03) | ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CAC03) |
|----------|--|---|--|--|--|-------------------|---|---|--|---|---|
| NOV 1985 | | | | | | | | | | | |
| 27... | 290 | 293 | 71 | 28 | 28 | 17 | 0.7 | 1.8 | -- | -- | -- |
| JAN 1986 | | | | | | | | | | | |
| 22... | 270 | 273 | 68 | 25 | 22 | 15 | 0.6 | 1.5 | 293 | -- | 241 |
| MAR | | | | | | | | | | | |
| 21... | 320 | 316 | 67 | 36 | 41 | 22 | 1 | 3.7 | 270 | 6.0 | 232 |
| APR | | | | | | | | | | | |
| 30... | 260 | 264 | 63 | 26 | 27 | 18 | 0.7 | 2.6 | 254 | 8.0 | 218 |
| JUL | | | | | | | | | | | |
| 17... | 230 | 226 | 54 | 22 | 18 | 15 | 0.5 | 1.7 | 244 | -- | 200 |
| SEP | | | | | | | | | | | |
| 03... | 230 | 234 | 59 | 21 | 20 | 16 | 0.6 | 1.8 | 222 | 8.0 | 195 |

| DATE | SULFATE DIS- SOLVED (MG/L AS S04) | 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 CONSTITUENTS, DIS- SOLVED (MG/L) | SOLIDS, DIS- SOLVED (TONS PER AC-FT) | SOLIDS, DIS- SOLVED (TONS PER DAY) | NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) | NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) |
|----------|---|---|--|---|--|--|---|---|---|---|
| NOV 1985 | | | | | | | | | | |
| 27... | 75 | 33 | 0.2 | 7.6 | 359 | 390 | 0.49 | 291 | <0.01 | 0.15 |
| JAN 1986 | | | | | | | | | | |
| 22... | 69 | 24 | 0.2 | 8.4 | 343 | 1200 | 0.47 | 382 | <0.0 | <0.22 |
| MAR | | | | | | | | | | |
| 21... | 92 | 43 | 0.3 | 10 | 452 | 440 | 0.61 | 1110 | <0.01 | 0.16 |
| APR | | | | | | | | | | |
| 30... | 71 | 32 | 0.1 | 7.9 | 359 | 370 | 0.49 | 1910 | <0.01 | 0.14 |
| JUL | | | | | | | | | | |
| 17... | 38 | 15 | 0.1 | 6.9 | 279 | 280 | 0.38 | 768 | <0.01 | <0.10 |
| SEP | | | | | | | | | | |
| 03... | 57 | 21 | 0.3 | 6.0 | 273 | 310 | 0.37 | 346 | <0.01 | <0.10 |

BEAR RIVER BASIN

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | NITRO- GEN, AMMONIA TOTAL (MG/L AS N) | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) | NITRO- GEN, ORGANIC TOTAL (MG/L AS N) | NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) | PHOS- PHORUS, TOTAL (MG/L AS P) | PHOS- PHORUS TOTAL (MG/L AS PO4) | PHOS- PHORUS, 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 1985 27... | 0.05 | 0.05 | 0.06 | 0.35 | 0.4 | 0.03 | 0.09 | 0.01 | <0.01 | -- |
| JAN 1986 22... | 0.06 | 0.05 | 0.06 | 0.54 | 0.6 | 0.03 | -- | <0.01 | <0.01 | -- |
| MAR 21... | <0.01 | <0.01 | -- | -- | 0.8 | 0.12 | -- | 0.03 | 0.02 | 0.06 |
| APR 30... | 0.08 | 0.05 | 0.06 | 0.62 | 0.7 | 0.26 | -- | 0.02 | 0.02 | 0.06 |
| JUL 17... | 0.04 | 0.03 | 0.04 | 0.56 | 0.6 | 0.04 | -- | 0.02 | 0.02 | 0.06 |
| SEP 03... | <0.01 | <0.01 | -- | -- | 0.5 | 0.06 | -- | <0.01 | 0.01 | 0.03 |

| DATE | TIME | ALUM- INUM, DIS- SOLVED (UG/L AS AL) | ARSENIC DIS- SOLVED (UG/L AS AS) | BARIUM, DIS- SOLVED (UG/L AS BA) | 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 1985 27... | 1145 | <10 | 1 | 120 | <0.5 | <1 | <1 | <3 | 1 | 7 | <1 |
| MAR 1986 21... | 1400 | 20 | 2 | 130 | <0.5 | <1 | <1 | <3 | 2 | 13 | 1 |
| JUL 17... | 0915 | 10 | 1 | 120 | <0.5 | <1 | <1 | <3 | 1 | 10 | <5 |

| 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 1985 27... | 20 | 12 | <0.1 | <10 | 1 | 1 | <1 | 520 | <6 | 18 |
| MAR 1986 21... | 28 | 11 | <0.1 | <10 | 1 | <1 | <1 | 490 | <6 | 14 |
| JUL 17... | 17 | 6 | <0.1 | <10 | 1 | <1 | <1 | 370 | <6 | <3 |

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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) |
|-------------------|------|---|-----------------------------|--|--|--|
| JAN 1986 22... | 1400 | 412 | 0.0 | 44 | 34 | 38 |
| MAR 21... | 1400 | 911 | 6.5 | 87 | 170 | 418 |
| APR 30... | 1500 | 1970 | 8.5 | 83 | 445 | 2370 |
| JUL 17... | 0915 | 1020 | 15.5 | 80 | 156 | 430 |

BEAR RIVER BASIN

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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 1.5 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 mi².

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 fair except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--37 years, 59.4 ft³/s, 43,040 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,860 ft³/s May 15, 1984, gage height, 5.00 ft; minimum, 2.6 ft³/s Mar. 2, 1956, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| Mar. 31 | 0400 | 213 | 2.14 | May 3 | 2400 | *1,320 | *4.37 |
| Apr. 23 | 2000 | 1,120 | 4.10 | May 21 | 2300 | 1,140 | 4.10 |

Minimum daily, 7.7 ft³/s Dec. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|-------|-------|------|------|-------|-------|-------|------|------|------|
| 1 | 23 | 21 | e12 | e9.6 | e14 | 35 | 173 | 484 | 529 | 112 | 55 | 38 |
| 2 | 23 | 21 | e11 | e9.9 | e14 | 36 | 156 | 610 | 491 | 109 | 54 | 38 |
| 3 | 23 | 20 | e11 | e9.5 | e15 | 33 | 141 | 868 | 454 | 106 | 54 | 37 |
| 4 | 23 | 20 | e11 | e9.2 | e16 | 35 | 139 | 1020 | 427 | 105 | 52 | 36 |
| 5 | 23 | 22 | e10 | e9.2 | e15 | 34 | 143 | 802 | 397 | 103 | 50 | 36 |
| 6 | 23 | 21 | e9.3 | e9.4 | e15 | 35 | 171 | 698 | 361 | 99 | 49 | 35 |
| 7 | 27 | 22 | e8.8 | e8.9 | e14 | 37 | 199 | 630 | 333 | 98 | 48 | 36 |
| 8 | 27 | 23 | e8.5 | e8.7 | e13 | 43 | 200 | 603 | 323 | 96 | 48 | 38 |
| 9 | 26 | 22 | e8.3 | e8.9 | e12 | 57 | 229 | 556 | 305 | 93 | 47 | 42 |
| 10 | 25 | e21 | e8.1 | e9.9 | e12 | 47 | 248 | 502 | 287 | 92 | 46 | 41 |
| 11 | 24 | e20 | e7.9 | e11 | e12 | 43 | 276 | 482 | 260 | 91 | 45 | 38 |
| 12 | 25 | e19 | e7.7 | e12 | e13 | 40 | 302 | 447 | 243 | 88 | 44 | 37 |
| 13 | 25 | e20 | e7.9 | e12 | e14 | 40 | 314 | 446 | 236 | 84 | 43 | 36 |
| 14 | 24 | e20 | e8.1 | e13 | e14 | 39 | 272 | 460 | 226 | 83 | 43 | 35 |
| 15 | 23 | e19 | e8.4 | e14 | e15 | 38 | 288 | 462 | 209 | 82 | 42 | 35 |
| 16 | 23 | e19 | e8.6 | e14 | e16 | 38 | 328 | 472 | 197 | 86 | 42 | 35 |
| 17 | 23 | e19 | e8.9 | e15 | e16 | 40 | 302 | 483 | 186 | 84 | 41 | 35 |
| 18 | 22 | e19 | e9.1 | e16 | e17 | 37 | 281 | 536 | 180 | 76 | 40 | 36 |
| 19 | 22 | e18 | e9.3 | e16 | e17 | 37 | 286 | 643 | 172 | 72 | 40 | 37 |
| 20 | 22 | e18 | e9.4 | e15 | e17 | 38 | 358 | 794 | 165 | 70 | 41 | 36 |
| 21 | 22 | e17 | e9.5 | e15 | e17 | 39 | 496 | 912 | 158 | 69 | 49 | 35 |
| 22 | 24 | e17 | e9.5 | e14 | e18 | 41 | 593 | 863 | 152 | 69 | 42 | 35 |
| 23 | 29 | e16 | e9.4 | e14 | e18 | 47 | 1000 | 674 | 147 | 73 | 41 | 35 |
| 24 | 28 | e16 | e9.4 | e13 | e19 | 55 | 949 | 615 | 142 | 74 | 42 | 44 |
| 25 | 24 | e15 | e9.2 | e12 | 26 | 61 | 809 | 629 | 138 | 69 | 40 | 47 |
| 26 | 23 | e14 | e9.1 | e12 | 27 | 61 | 661 | 665 | 133 | 67 | 39 | 45 |
| 27 | 22 | e13 | e8.9 | e13 | 28 | 68 | 570 | 689 | 128 | 71 | 39 | 43 |
| 28 | 22 | e13 | e8.8 | e13 | 29 | 82 | 528 | 674 | 125 | 66 | 38 | 41 |
| 29 | 21 | e12 | e9.1 | e13 | --- | 107 | 502 | 643 | 120 | 61 | 39 | 39 |
| 30 | 21 | e12 | e9.0 | e13 | --- | 137 | 460 | 607 | 116 | 59 | 39 | 41 |
| 31 | 21 | --- | e9.2 | e14 | --- | 196 | --- | 569 | --- | 57 | 38 | --- |
| TOTAL | 733 | 549 | 284.4 | 377.2 | 473 | 1676 | 11374 | 19538 | 7340 | 2564 | 1370 | 1142 |
| MEAN | 23.6 | 18.3 | 9.17 | 12.2 | 16.9 | 54.1 | 379 | 630 | 245 | 82.7 | 44.2 | 38.1 |
| MAX | 29 | 23 | 12 | 16 | 29 | 196 | 1000 | 1020 | 529 | 112 | 55 | 47 |
| MIN | 21 | 12 | 7.7 | 8.7 | 12 | 33 | 139 | 446 | 116 | 57 | 38 | 35 |
| ACFT | 1450 | 1090 | 564 | 748 | 938 | 3320 | 22560 | 38750 | 14560 | 5090 | 2720 | 2270 |

| | | | | | | | | | | |
|-------------|-------|---------|------|------|-----|------|-----|-----|------|-------|
| CAL YR 1985 | TOTAL | 19353.4 | MEAN | 53.0 | MAX | 346 | MIN | 7.7 | ACFT | 38390 |
| WTR YR 1986 | TOTAL | 47420.6 | MEAN | 130 | MAX | 1020 | MIN | 7.7 | ACFT | 94060 |

e Estimated.

BEAR RIVER BASIN

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 mi².

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 for estimated daily discharges, 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.--73 years, 551 ft³/s, 399,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,140 ft³/s June 9, 1983; minimum daily, 26 ft³/s Aug. 21-27, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,800 ft³/s June 13, gage height, 11.73 ft; minimum daily discharge, 211 ft³/s Feb. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|
| 1 | 240 | 285 | e271 | 262 | 265 | 1820 | 1620 | 2970 | 3750 | 2520 | 721 | 507 |
| 2 | 247 | 272 | e273 | 269 | 267 | 2110 | 1710 | 2820 | 3780 | 2220 | 687 | 513 |
| 3 | 250 | 270 | e274 | 273 | 262 | 2360 | 1700 | 2710 | 3800 | 1990 | 654 | 517 |
| 4 | 247 | 270 | e273 | 270 | 261 | 1960 | 1700 | 2730 | 3820 | 1780 | 630 | 521 |
| 5 | 241 | 266 | e269 | 261 | 250 | 1460 | 1710 | 3000 | 4020 | 1670 | 627 | 525 |
| 6 | 240 | 265 | e261 | 264 | 245 | 1220 | 1750 | 3440 | e4180 | 1600 | 636 | 527 |
| 7 | 242 | 267 | e256 | 270 | 244 | 1100 | 1820 | 3590 | e4240 | 1580 | 621 | 534 |
| 8 | 254 | 268 | 270 | 269 | 236 | 1060 | 1890 | 3600 | e4340 | 1520 | 602 | 526 |
| 9 | 262 | 271 | 266 | 263 | 224 | 1220 | 1900 | 3580 | e4470 | 1470 | 590 | 508 |
| 10 | 266 | e274 | 263 | 263 | 211 | 1380 | 1930 | 3510 | e4580 | 1450 | 598 | 499 |
| 11 | 263 | e282 | 262 | 268 | 229 | 1450 | 1980 | 3420 | e4700 | 1410 | 580 | 500 |
| 12 | 263 | e285 | 255 | 268 | 242 | 1460 | 2000 | 3340 | e4780 | 1420 | 552 | 518 |
| 13 | 266 | e278 | 243 | 264 | 261 | 1450 | 2030 | 3270 | e4780 | 1410 | 519 | 516 |
| 14 | 269 | e277 | 260 | 255 | 273 | 1450 | 2020 | 3230 | e4790 | 1350 | 535 | 560 |
| 15 | 264 | e278 | 290 | 254 | 281 | 1440 | 1970 | 3200 | e4770 | 1340 | 522 | 574 |
| 16 | 263 | e278 | 286 | 263 | 304 | 1410 | 1920 | 3210 | e4770 | 1330 | 509 | 552 |
| 17 | 268 | e275 | 277 | 277 | 339 | 1370 | 1920 | 3200 | 4690 | 1240 | 505 | 554 |
| 18 | 269 | e271 | 278 | 285 | 371 | 1340 | 1900 | 3170 | 4020 | 1140 | 502 | 537 |
| 19 | 264 | e269 | 285 | 286 | 407 | 1240 | 1870 | 3160 | 3880 | 1070 | 503 | 542 |
| 20 | 262 | e276 | 280 | 283 | 442 | 1110 | 1810 | 3160 | 3830 | 975 | 501 | 545 |
| 21 | 265 | e274 | 266 | 280 | 599 | 1070 | 1810 | 3230 | 3760 | 884 | 516 | 539 |
| 22 | 264 | e271 | 256 | 271 | 778 | 1060 | 1920 | 3400 | 3680 | 832 | 506 | 540 |
| 23 | 262 | e272 | 251 | 259 | 857 | 1090 | 2140 | 3600 | 3580 | 815 | 511 | 554 |
| 24 | 260 | e275 | 248 | 252 | 932 | 1150 | 2370 | 3700 | 3490 | 832 | 502 | 569 |
| 25 | 275 | e270 | 247 | 253 | 1080 | 1190 | 2700 | 3650 | 3380 | 887 | 499 | 616 |
| 26 | 282 | e269 | 246 | 243 | 1160 | 1200 | 3250 | 3520 | 3280 | 876 | 498 | 639 |
| 27 | 281 | e266 | 242 | 225 | 1320 | 1160 | 3440 | 3420 | 3170 | 876 | 514 | 655 |
| 28 | 303 | e268 | 243 | 226 | 1550 | 1210 | 3400 | 3430 | 3060 | 855 | 509 | 666 |
| 29 | 295 | e267 | 242 | 237 | --- | 1270 | 3280 | 3520 | 2940 | 814 | 488 | 663 |
| 30 | 279 | e275 | 247 | 246 | --- | 1380 | 3120 | 3640 | 2790 | 777 | 488 | 650 |
| 31 | 277 | --- | 253 | 256 | --- | 1490 | --- | 3710 | --- | 750 | 488 | --- |
| TOTAL | 8183 | 8184 | 8133 | 8115 | 13890 | 42680 | 64580 | 103130 | 119120 | 39683 | 17113 | 16666 |
| MEAN | 264 | 273 | 262 | 262 | 496 | 1377 | 2153 | 3327 | 3971 | 1280 | 552 | 556 |
| MAX | 303 | 285 | 290 | 286 | 1550 | 2360 | 3440 | 3710 | 4790 | 2520 | 721 | 666 |
| MIN | 240 | 265 | 242 | 225 | 211 | 1060 | 1620 | 2710 | 2790 | 750 | 488 | 499 |
| ACFT | 16230 | 16230 | 16130 | 16100 | 27550 | 84660 | 128100 | 204600 | 236300 | 78710 | 33940 | 33060 |
| CAL YR 1985 | TOTAL | 243874 | MEAN | 668 | MAX | 2700 | MIN | 146 | ACFT | 483700 | | |
| WTR YR 1986 | TOTAL | 449477 | MEAN | 1231 | MAX | 4790 | MIN | 211 | ACFT | 891500 | | |

e Estimated.

BEAR RIVER BASIN

219

10044300 DINGLE INLET CANAL NEAR DINGLE, ID

LOCATION.--Lat 42°12'20", long 111°16'08", in SE1/4SE1/4NE1/4 sec.14, T.14 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on left bank 1 mi south of Dingle.

PERIOD OF RECORD.--June 1911 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,950 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair.

COOPERATION.--Records collected by Utah Power & Light Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 650 ft³/s Apr. 29, 1916; no flow at times.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|-------|------|------|------|------|------|---------|-------|--------|--------|-------|
| 1 | 2.8 | 3.0 | e14 | e14 | e12 | e30 | e32 | 46 | 3.8 | 1.3 | 13 | 16 |
| 2 | 2.8 | 3.2 | e14 | e14 | e13 | e30 | e32 | 44 | 4.0 | 1.0 | 5.6 | 16 |
| 3 | 2.5 | 3.7 | e15 | e13 | e13 | e31 | e33 | 43 | 4.6 | .81 | .00 | 14 |
| 4 | 2.3 | e4.0 | e15 | e13 | e14 | e31 | e34 | 42 | 5.7 | .33 | .00 | 13 |
| 5 | 2.1 | e3.8 | e16 | e13 | e15 | e32 | e35 | 41 | 3.9 | .22 | .01 | 14 |
| 6 | 2.0 | e3.7 | e16 | e12 | e14 | e33 | e35 | 41 | 2.9 | .25 | 2.2 | 16 |
| 7 | 2.1 | e3.7 | e17 | e12 | e14 | e32 | e36 | 43 | 2.8 | .21 | 20 | 16 |
| 8 | 3.1 | e4.0 | e17 | e12 | e13 | e31 | e37 | 43 | 3.2 | .99 | 21 | 16 |
| 9 | 2.6 | e4.5 | e18 | e12 | e13 | e31 | e37 | 43 | 3.8 | 2.4 | 32 | 17 |
| 10 | 2.7 | e5.2 | e18 | e12 | e13 | e30 | e38 | 43 | 2.8 | 3.1 | 32 | 16 |
| 11 | 2.4 | e5.2 | e19 | e12 | e12 | e30 | e38 | 44 | 2.3 | 1.6 | 35 | 16 |
| 12 | 2.3 | e5.2 | e19 | e13 | e13 | e29 | 39 | 44 | 3.3 | .72 | 33 | 16 |
| 13 | 2.5 | e5.2 | e19 | e13 | e13 | e29 | 42 | 44 | 3.9 | .25 | 21 | 16 |
| 14 | 2.3 | e4.9 | e19 | e13 | e14 | e30 | 44 | 43 | 4.5 | .00 | 17 | 15 |
| 15 | 2.4 | e5.4 | e19 | e14 | e14 | e30 | 45 | 43 | 4.4 | 4.3 | 10 | 15 |
| 16 | 3.1 | e5.9 | e20 | e14 | e14 | e31 | 48 | 61 | 4.0 | 23 | 10 | 15 |
| 17 | 2.6 | e6.5 | e20 | e14 | e15 | e32 | 45 | 65 | 4.5 | 22 | 10 | 15 |
| 18 | 2.6 | e7.0 | e20 | e14 | e15 | e33 | 43 | 65 | 4.8 | 15 | 10 | 7.3 |
| 19 | 2.6 | e7.5 | e19 | e15 | e17 | e34 | 42 | 65 | 4.2 | 4.6 | 13 | 4.0 |
| 20 | 2.6 | e8.0 | e19 | e15 | e18 | e33 | 40 | 57 | 3.8 | 9.5 | 17 | 9.5 |
| 21 | 2.5 | e8.5 | e18 | e15 | e20 | e32 | 38 | 26 | 3.3 | 5.6 | 17 | 14 |
| 22 | 2.6 | e9.1 | e18 | e15 | e21 | e31 | 37 | .72 | 3.0 | 5.5 | 15 | 14 |
| 23 | 2.4 | e9.6 | e18 | e15 | e23 | e30 | 39 | 2.1 | 3.5 | 20 | 10 | 14 |
| 24 | 2.4 | e10 | e17 | e14 | e24 | e29 | 41 | 3.3 | 3.5 | 21 | 18 | 14 |
| 25 | 2.4 | e11 | e17 | e13 | e26 | e28 | 43 | 4.1 | 3.3 | 24 | 18 | 11 |
| 26 | 2.4 | e11 | e16 | e13 | e27 | e27 | 45 | 7.4 | 3.6 | 26 | 18 | 10 |
| 27 | 2.3 | e12 | e16 | e12 | e29 | e28 | 47 | 5.7 | 2.9 | 32 | 18 | 13 |
| 28 | 2.2 | e12 | e16 | e11 | e29 | e28 | 47 | 4.3 | 2.0 | 44 | 14 | 12 |
| 29 | 2.2 | e13 | e15 | e11 | --- | e29 | 48 | 3.7 | 1.6 | 21 | 13 | 12 |
| 30 | 2.6 | e13 | e15 | e11 | --- | e30 | 48 | 4.6 | 1.5 | 17 | 16 | 13 |
| 31 | 2.8 | --- | e14 | e12 | --- | e31 | --- | 6.0 | --- | 18 | 16 | --- |
| TOTAL | 77.2 | 208.8 | 533 | 406 | 478 | 945 | 1208 | 1027.92 | 105.4 | 325.68 | 474.81 | 409.8 |
| MEAN | 2.49 | 6.96 | 17.2 | 13.1 | 17.1 | 30.5 | 40.3 | 33.2 | 3.51 | 10.5 | 15.3 | 13.7 |
| MAX | 3.1 | 13 | 20 | 15 | 29 | 34 | 48 | 65 | 5.7 | 44 | 35 | 17 |
| MIN | 2.0 | 3.0 | 14 | 11 | 12 | 27 | 32 | .72 | 1.5 | .00 | .00 | 4.0 |
| ACFT | 153 | 414 | 1060 | 805 | 948 | 1870 | 2400 | 2040 | 209 | 646 | 942 | 813 |

WTR YR 1986 TOTAL 6199.61 MEAN 17.0 MAX 65 MIN .00 ACFT 12300

e Estimated.

BEAR RIVER BASIN

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.--No estimated daily discharges. 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.--64 years, 382 ft³/s, 276,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,950 ft³/s May 27 1984; no flow Apr. 28, 1977 and Oct. 1, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4,300 ft³/s June 12; minimum daily, 124 ft³/s Jan. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|------|-------|-------|--------|--------|--------|--------|-------|-------|
| 1 | 216 | 234 | 245 | 157 | 194 | 1550 | 1350 | 2980 | 3480 | 2410 | 733 | 440 |
| 2 | 224 | 242 | 252 | 149 | 210 | 2000 | 1490 | 2900 | 3550 | 2160 | 702 | 451 |
| 3 | 230 | 243 | 258 | 147 | 219 | 2270 | 1590 | 2790 | 3590 | 1910 | 665 | 461 |
| 4 | 217 | 245 | 245 | 156 | 229 | 2310 | 1620 | 2730 | 3660 | 1780 | 636 | 467 |
| 5 | 210 | 247 | 240 | 152 | 239 | 1690 | 1610 | 2730 | 3710 | 1680 | 595 | 462 |
| 6 | 211 | 247 | 219 | 124 | 229 | 1380 | 1630 | 2890 | 3740 | 1570 | 545 | 437 |
| 7 | 217 | 258 | 199 | 128 | 236 | 1200 | 1700 | 3200 | 3800 | 1510 | 545 | 425 |
| 8 | 228 | 262 | 204 | 143 | 299 | 1100 | 1770 | 3380 | 3880 | 1450 | 536 | 419 |
| 9 | 230 | 268 | 208 | 140 | 259 | 1100 | 1830 | 3390 | 4050 | 1360 | 504 | 414 |
| 10 | 228 | 251 | 197 | 125 | 215 | 1240 | 1840 | 3320 | 4210 | 1300 | 517 | 425 |
| 11 | 232 | 247 | 200 | 138 | 180 | 1360 | 1880 | 3230 | 4260 | 1250 | 521 | 434 |
| 12 | 230 | 248 | 209 | 157 | 202 | 1400 | 1920 | 3100 | 4300 | 1250 | 511 | 466 |
| 13 | 229 | 249 | 201 | 162 | 190 | 1390 | 1950 | 2980 | 4280 | 1220 | 498 | 461 |
| 14 | 228 | 253 | 145 | 156 | 191 | 1370 | 1970 | 2960 | 4250 | 1160 | 467 | 439 |
| 15 | 188 | 241 | 163 | 139 | 203 | 1360 | 1960 | 2950 | 4200 | 1190 | 474 | 435 |
| 16 | 208 | 242 | 183 | 137 | 219 | 1330 | 1940 | 2930 | 4100 | 1220 | 454 | 418 |
| 17 | 222 | 241 | 167 | 137 | 255 | 1300 | 1920 | 2930 | 3880 | 1170 | 450 | 431 |
| 18 | 222 | 235 | 162 | 147 | 285 | 1270 | 1930 | 2940 | 3720 | 1010 | 449 | 447 |
| 19 | 223 | 230 | 158 | 158 | 368 | 1210 | 1930 | 2930 | 3600 | 930 | 443 | 457 |
| 20 | 222 | 230 | 163 | 172 | 410 | 1150 | 1910 | 2900 | 3420 | 844 | 445 | 464 |
| 21 | 221 | 228 | 146 | 177 | 470 | 1090 | 1880 | 2940 | 3250 | 783 | 452 | 484 |
| 22 | 216 | 229 | 132 | 183 | 584 | 1040 | 1920 | 3030 | 3090 | 742 | 445 | 486 |
| 23 | 217 | 227 | 134 | 171 | 712 | 984 | 2040 | 3250 | 3180 | 738 | 434 | 486 |
| 24 | 218 | 231 | 132 | 162 | 849 | 967 | 2260 | 3510 | 3190 | 765 | 454 | 468 |
| 25 | 219 | 230 | 138 | 173 | 963 | 976 | 2420 | 3550 | 3070 | 820 | 433 | 456 |
| 26 | 227 | 233 | 140 | 182 | 1110 | 1050 | 2640 | 3380 | 2930 | 837 | 419 | 489 |
| 27 | 250 | 227 | 135 | 181 | 1270 | 1090 | 2980 | 3220 | 2820 | 833 | 440 | 514 |
| 28 | 237 | 234 | 134 | 157 | 1380 | 1100 | 3200 | 3110 | 2740 | 822 | 429 | 531 |
| 29 | 233 | 244 | 144 | 158 | --- | 1100 | 3200 | 3140 | 2650 | 804 | 420 | 544 |
| 30 | 236 | 242 | 140 | 174 | --- | 1150 | 3080 | 3270 | 2550 | 779 | 427 | 518 |
| 31 | 229 | --- | 152 | 183 | --- | 1260 | --- | 3380 | --- | 762 | 430 | --- |
| TOTAL | 6918 | 7238 | 5545 | 4825 | 12170 | 40787 | 61360 | 95940 | 107150 | 37059 | 15473 | 13829 |
| MEAN | 223 | 241 | 179 | 156 | 435 | 1316 | 2045 | 3095 | 3572 | 1195 | 499 | 461 |
| MAX | 250 | 268 | 258 | 183 | 1380 | 2310 | 3200 | 3550 | 4300 | 2410 | 733 | 544 |
| MIN | 188 | 227 | 132 | 124 | 180 | 967 | 1350 | 2730 | 2550 | 738 | 419 | 414 |
| ACFT | 13720 | 14360 | 11000 | 9570 | 24140 | 80900 | 121700 | 190300 | 212500 | 73510 | 30690 | 27430 |
| CAL YR 1985 | TOTAL | 202147 | MEAN | 554 | MAX | 2520 | MIN | 50 | ACFT | 401000 | | |
| WTR YR 1986 | TOTAL | 408294 | MEAN | 1119 | MAX | 4300 | MIN | 124 | ACFT | 809900 | | |

BEAR RIVER BASIN

221

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 mi².

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.--No estimated daily discharges. 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.--64 years, 44.1 ft³/s, 31,950 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,050 ft³/s June 3, 1923; no flow July 15, 1956, July 13, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 516 ft³/s June 23; minimum daily, 1.7 ft³/s Mar. 20, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|--------|-------|-------|-------|-------|-------|------|------|-------|-------|
| 1 | 9.1 | 7.1 | 3.1 | 3.2 | 4.0 | 18 | 4.6 | 8.6 | 33 | 18 | 13 | 5.3 |
| 2 | 9.5 | 7.4 | 3.1 | 2.9 | 3.8 | 55 | 5.7 | 6.8 | 35 | 15 | 13 | 5.5 |
| 3 | 9.7 | 7.4 | 2.9 | 2.6 | 4.0 | 37 | 6.5 | 6.1 | 36 | 14 | 11 | 6.5 |
| 4 | 7.6 | 7.9 | 3.0 | 2.5 | 3.7 | 20 | 7.8 | 7.7 | 39 | 14 | 11 | 6.5 |
| 5 | 7.0 | 7.9 | 3.0 | 2.4 | 3.4 | 21 | 8.0 | 12 | 41 | 13 | 10 | 6.5 |
| 6 | 6.8 | 7.7 | 3.0 | 2.4 | 3.3 | 23 | 8.1 | 21 | 40 | 13 | 5.7 | 6.9 |
| 7 | 6.8 | 6.7 | 3.2 | 2.2 | 3.5 | 25 | 8.6 | 27 | 42 | 12 | 3.8 | 6.7 |
| 8 | 6.8 | 4.5 | 3.4 | 2.3 | 3.6 | 29 | 9.7 | 28 | 44 | 13 | 4.2 | 6.9 |
| 9 | 7.1 | 4.5 | 3.6 | 2.2 | 3.7 | 35 | 11 | 26 | 50 | 12 | 9.4 | 7.2 |
| 10 | 6.5 | 4.2 | 3.6 | 2.1 | 3.7 | 41 | 11 | 23 | 60 | 12 | 9.6 | 7.5 |
| 11 | 6.4 | 3.7 | 3.8 | 2.1 | 3.6 | 48 | 12 | 20 | 51 | 13 | 9.7 | 7.1 |
| 12 | 7.3 | 3.9 | 4.1 | 2.3 | 3.4 | 56 | 13 | 16 | 40 | 14 | 9.2 | 7.3 |
| 13 | 7.1 | 4.3 | 3.8 | 2.5 | 3.4 | 42 | 13 | 14 | 32 | 14 | 8.4 | 7.6 |
| 14 | 6.8 | 4.1 | 3.8 | 2.6 | 3.2 | 30 | 13 | 13 | 23 | 15 | 8.4 | 7.6 |
| 15 | 5.5 | 4.0 | 3.8 | 2.8 | 3.4 | 23 | 12 | 12 | 17 | 16 | 8.0 | 7.5 |
| 16 | 6.4 | 3.7 | 3.6 | 2.8 | 3.9 | 17 | 12 | 10 | 126 | 16 | 7.1 | 7.0 |
| 17 | 7.1 | 3.7 | 3.4 | 3.0 | 4.2 | 11 | 12 | 8.7 | 267 | 17 | 7.5 | 7.0 |
| 18 | 7.0 | 4.2 | 3.4 | 3.2 | 4.5 | 5.0 | 11 | 7.3 | 338 | 17 | 7.6 | 6.8 |
| 19 | 6.9 | 3.7 | 3.2 | 3.3 | 6.4 | 1.8 | 11 | 6.0 | 429 | 16 | 7.9 | 6.4 |
| 20 | 6.7 | 3.5 | 3.2 | 3.6 | 10 | 1.7 | 9.2 | 6.1 | 481 | 16 | 7.9 | 6.2 |
| 21 | 6.6 | 3.5 | 3.2 | 4.2 | 14 | 1.8 | 9.6 | 4.7 | 488 | 16 | 7.6 | 6.0 |
| 22 | 6.5 | 3.9 | 3.2 | 4.5 | 22 | 1.8 | 13 | 6.4 | 495 | 16 | 7.3 | 5.9 |
| 23 | 6.5 | 3.7 | 3.1 | 4.6 | 19 | 1.7 | 18 | 13 | 175 | 17 | 6.8 | 6.3 |
| 24 | 6.7 | 3.8 | 2.9 | 4.7 | 11 | 2.2 | 13 | 22 | 30 | 17 | 6.5 | 7.0 |
| 25 | 6.5 | 3.8 | 3.0 | 4.6 | 6.0 | 3.0 | 18 | 26 | 33 | 17 | 5.8 | 7.3 |
| 26 | 7.1 | 3.8 | 3.0 | 4.6 | 8.2 | 3.1 | 23 | 25 | 28 | 17 | 5.6 | 7.2 |
| 27 | 8.2 | 3.9 | 3.1 | 4.6 | 12 | 3.1 | 16 | 23 | 25 | 16 | 5.3 | 7.5 |
| 28 | 7.2 | 3.9 | 3.1 | 4.3 | 13 | 2.9 | 14 | 22 | 24 | 15 | 5.2 | 7.8 |
| 29 | 7.0 | 3.7 | 2.9 | 4.1 | --- | 3.0 | 12 | 25 | 22 | 15 | 5.3 | 7.4 |
| 30 | 7.2 | 3.2 | 2.9 | 4.0 | --- | 3.5 | 10 | 24 | 20 | 14 | 5.5 | 7.2 |
| 31 | 7.0 | --- | 3.1 | 4.2 | --- | 3.9 | --- | 30 | --- | 14 | 5.3 | --- |
| TOTAL | 220.4 | 141.3 | 101.5 | 101.4 | 187.9 | 569.5 | 345.8 | 498.4 | 3564 | 464 | 238.6 | 205.6 |
| MEAN | 7.11 | 4.71 | 3.27 | 3.27 | 6.71 | 18.4 | 11.5 | 16.1 | 119 | 15.0 | 7.70 | 6.85 |
| MAX | 9.7 | 7.9 | 4.1 | 4.7 | 22 | 56 | 23 | 30 | 495 | 18 | 13 | 7.8 |
| MIN | 5.3 | 3.2 | 2.9 | 2.1 | 3.2 | 1.7 | 4.6 | 4.7 | 17 | 12 | 3.8 | 5.3 |
| ACFT | 437 | 280 | 201 | 201 | 373 | 1130 | 686 | 989 | 7070 | 920 | 473 | 408 |
| CAL YR 1985 | TOTAL | | 3030.4 | MEAN | 8.30 | MAX | 27 | MIN | 1.5 | ACFT | 6010 | |
| WTR YR 1986 | TOTAL | | 6638.4 | MEAN | 18.2 | MAX | 495 | MIN | 1.7 | ACFT | 13170 | |

BEAR RIVER BASIN

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 mi², 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 provided 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, 1,418,000 acre-ft July 24-29, elevation, 5,923.61 ft; minimum, 1,053,000 acre-ft Feb. 14-17, elevation, 5,918.39 ft.

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 1985 TO SEPTEMBER 1986
INSTANTANEOUS VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | 1125000 | 1101000 | 1088000 | 1073000 | 1057000 | 1093000 | 1124000 | 1221000 | 1352000 | 1416000 | 1394000 | 1317000 |
| 2 | 1124000 | 1101000 | 1088000 | 1072000 | 1057000 | 1097000 | 1125000 | 1227000 | 1357000 | 1416000 | 1393000 | 1314000 |
| 3 | 1123000 | 1100000 | 1087000 | 1072000 | 1057000 | 1099000 | 1129000 | 1229000 | 1364000 | 1416000 | 1392000 | 1311000 |
| 4 | 1122000 | 1099000 | 1087000 | 1071000 | 1057000 | 1104000 | 1133000 | 1238000 | 1368000 | 1416000 | 1390000 | 1309000 |
| 5 | 1120000 | 1099000 | 1086000 | 1070000 | 1056000 | 1107000 | 1135000 | 1244000 | 1373000 | 1415000 | 1388000 | 1305000 |
| 6 | 1120000 | 1098000 | 1086000 | 1070000 | 1056000 | 1109000 | 1136000 | 1249000 | 1378000 | 1414000 | 1387000 | 1302000 |
| 7 | 1119000 | 1097000 | 1086000 | 1069000 | 1056000 | 1111000 | 1138000 | 1252000 | 1381000 | 1413000 | 1385000 | 1298000 |
| 8 | 1118000 | 1097000 | 1086000 | 1068000 | 1056000 | 1113000 | 1140000 | 1255000 | 1384000 | 1413000 | 1382000 | 1295000 |
| 9 | 1117000 | 1097000 | 1086000 | 1067000 | 1055000 | 1115000 | 1141000 | 1262000 | 1389000 | 1413000 | 1381000 | 1291000 |
| 10 | 1115000 | 1097000 | 1086000 | 1067000 | 1055000 | 1118000 | 1143000 | 1266000 | 1394000 | 1412000 | 1379000 | 1289000 |
| 11 | 1113000 | 1096000 | 1085000 | 1066000 | 1055000 | 1122000 | 1147000 | 1271000 | 1398000 | 1411000 | 1377000 | 1287000 |
| 12 | 1113000 | 1096000 | 1085000 | 1065000 | 1054000 | 1123000 | 1151000 | 1277000 | 1401000 | 1410000 | 1375000 | 1285000 |
| 13 | 1113000 | 1095000 | 1084000 | 1065000 | 1054000 | 1123000 | 1155000 | 1282000 | 1404000 | 1409000 | 1372000 | 1283000 |
| 14 | 1112000 | 1095000 | 1083000 | 1064000 | 1053000 | 1124000 | 1157000 | 1287000 | 1406000 | 1407000 | 1368000 | 1280000 |
| 15 | 1112000 | 1094000 | 1083000 | 1063000 | 1053000 | 1124000 | 1158000 | 1290000 | 1408000 | 1406000 | 1365000 | 1277000 |
| 16 | 1111000 | 1093000 | 1083000 | 1063000 | 1053000 | 1125000 | 1159000 | 1292000 | 1410000 | 1405000 | 1361000 | 1274000 |
| 17 | 1110000 | 1093000 | 1082000 | 1063000 | 1053000 | 1125000 | 1160000 | 1296000 | 1412000 | 1404000 | 1358000 | 1271000 |
| 18 | 1109000 | 1093000 | 1081000 | 1062000 | 1054000 | 1126000 | 1162000 | 1301000 | 1413000 | 1403000 | 1354000 | 1269000 |
| 19 | 1108000 | 1092000 | 1081000 | 1062000 | 1055000 | 1126000 | 1165000 | 1305000 | 1415000 | 1402000 | 1353000 | 1267000 |
| 20 | 1107000 | 1092000 | 1081000 | 1061000 | 1057000 | 1127000 | 1168000 | 1308000 | 1416000 | 1401000 | 1351000 | 1265000 |
| 21 | 1107000 | 1092000 | 1080000 | 1061000 | 1059000 | 1127000 | 1172000 | 1310000 | 1416000 | 1401000 | 1349000 | 1265000 |
| 22 | 1107000 | 1092000 | 1079000 | 1061000 | 1061000 | 1128000 | 1176000 | 1312000 | 1416000 | 1400000 | 1347000 | 1264000 |
| 23 | 1106000 | 1092000 | 1079000 | 1061000 | 1065000 | 1128000 | 1181000 | 1316000 | 1417000 | 1399000 | 1343000 | 1264000 |
| 24 | 1106000 | 1091000 | 1078000 | 1061000 | 1070000 | 1130000 | 1185000 | 1319000 | 1418000 | 1399000 | 1340000 | 1263000 |
| 25 | 1106000 | 1090000 | 1077000 | 1060000 | 1074000 | 1130000 | 1189000 | 1323000 | 1418000 | 1397000 | 1337000 | 1263000 |
| 26 | 1104000 | 1090000 | 1076000 | 1060000 | 1080000 | 1129000 | 1194000 | 1326000 | 1418000 | 1397000 | 1335000 | 1263000 |
| 27 | 1104000 | 1090000 | 1076000 | 1059000 | 1085000 | 1129000 | 1200000 | 1331000 | 1418000 | 1397000 | 1332000 | 1263000 |
| 28 | 1103000 | 1089000 | 1075000 | 1058000 | 1089000 | 1127000 | 1206000 | 1337000 | 1418000 | 1396000 | 1330000 | 1263000 |
| 29 | 1102000 | 1089000 | 1074000 | 1058000 | --- | 1126000 | 1210000 | 1342000 | 1418000 | 1396000 | 1326000 | 1263000 |
| 30 | 1102000 | 1088000 | 1074000 | 1058000 | --- | 1125000 | 1216000 | 1345000 | 1417000 | 1396000 | 1323000 | 1262000 |
| 31 | 1102000 | --- | 1074000 | 1058000 | --- | 1124000 | --- | 1348000 | --- | 1394000 | 1321000 | --- |
| MAX | 1125000 | 1101000 | 1088000 | 1073000 | 1089000 | 1130000 | 1216000 | 1348000 | 1418000 | 1416000 | 1394000 | 1317000 |
| MIN | 1102000 | 1088000 | 1074000 | 1058000 | 1053000 | 1093000 | 1124000 | 1221000 | 1352000 | 1394000 | 1321000 | 1262000 |
| (#) | 5919.09 | 5918.90 | 5918.69 | 5918.46 | 5918.91 | 5919.41 | 5920.73 | 5922.61 | 5923.59 | 5923.27 | 5922.22 | 5921.39 |
| (*) | -25000 | -14000 | -14000 | -16000 | +31000 | +35000 | +92000 | +132000 | +69000 | -23000 | -73000 | -59000 |

CAL YR 1985 (*) -21000
WTR YR 1986 (*) +135000

(#) Elevation, in feet, at end of month.
(*) Change in contents, in acre-feet.

BEAR RIVER BASIN

223

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 mi².

PERIOD OF RECORD.--October 1960 to September 1986 (discontinued).

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 except for estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--26 years, 31.3 ft³/s, 22,680 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 249 ft³/s June 5, 1986, gage height, 4.47 ft; minimum, 9.4 ft³/s Jan. 27, 1961, Feb. 26, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 249 ft³/s June 5, gage height, 4.47 ft; minimum daily, 17 ft³/s Feb. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|------|------|-------|------|------|
| 1 | 22 | 20 | 19 | 18 | 18 | 31 | 59 | 61 | 208 | 106 | 54 | 36 |
| 2 | 22 | 20 | 19 | 18 | 18 | 31 | 59 | 64 | 221 | 103 | 53 | 36 |
| 3 | 22 | 20 | 19 | 18 | 18 | 32 | 51 | 71 | 223 | 100 | 53 | 36 |
| 4 | 22 | 20 | 19 | 18 | 18 | 31 | 48 | 81 | 227 | 99 | 52 | 36 |
| 5 | 22 | 22 | 19 | 18 | 18 | 30 | 48 | 76 | 225 | 96 | 51 | 35 |
| 6 | 22 | 21 | 19 | 18 | 18 | 30 | 49 | 74 | 226 | 92 | 50 | 35 |
| 7 | 24 | 22 | 19 | 18 | 18 | 32 | 50 | 71 | 216 | 89 | 49 | 35 |
| 8 | 22 | 22 | 19 | 18 | 18 | 56 | 49 | 70 | 205 | 87 | 48 | 35 |
| 9 | 22 | 21 | 18 | 18 | e17 | 53 | 50 | 66 | 185 | 85 | 47 | 36 |
| 10 | 22 | 19 | 18 | 18 | e18 | 43 | 53 | 64 | 176 | 84 | 47 | 35 |
| 11 | 22 | 21 | 18 | 18 | 18 | 38 | 56 | 64 | 172 | 83 | 47 | 34 |
| 12 | 22 | 21 | 18 | 18 | 18 | 34 | 56 | 61 | 170 | 80 | 46 | 34 |
| 13 | 22 | 20 | 18 | 18 | 18 | 32 | 57 | 60 | 172 | 77 | 45 | 34 |
| 14 | 22 | 20 | 18 | 18 | 18 | 30 | 53 | 61 | 170 | 76 | 45 | 34 |
| 15 | 22 | 19 | 18 | 18 | 20 | 29 | 51 | 61 | 169 | 74 | 44 | 33 |
| 16 | 21 | 19 | 18 | 18 | 20 | 28 | 55 | 62 | 165 | 75 | 44 | 33 |
| 17 | 21 | 20 | 18 | 18 | 21 | 27 | 51 | 63 | 160 | 72 | 43 | 32 |
| 18 | 21 | 20 | 18 | 18 | 28 | 26 | 49 | 67 | 156 | 69 | 42 | 33 |
| 19 | 21 | 19 | 18 | 18 | 32 | 25 | 47 | 76 | 151 | 67 | 42 | 33 |
| 20 | 21 | 19 | 18 | 18 | 25 | 26 | 47 | 89 | 145 | 65 | 42 | 32 |
| 21 | 21 | 20 | 18 | 18 | 22 | 27 | 53 | 108 | 141 | 64 | 43 | 32 |
| 22 | 22 | 19 | 18 | 18 | 21 | 29 | 63 | 119 | 136 | 64 | 41 | 32 |
| 23 | 28 | 19 | 18 | 18 | 35 | 31 | 80 | 101 | 131 | 62 | 41 | 32 |
| 24 | 23 | 20 | 18 | 18 | 41 | 36 | 88 | 98 | 128 | 64 | 41 | 33 |
| 25 | 22 | 19 | 18 | 18 | 36 | 35 | 80 | 110 | 126 | 62 | 40 | 34 |
| 26 | 22 | 20 | 18 | 18 | 39 | 34 | 73 | 128 | 123 | 62 | 40 | 34 |
| 27 | 21 | 19 | 18 | 18 | 35 | 36 | 67 | 149 | 120 | 62 | 38 | 33 |
| 28 | 21 | 19 | 18 | 18 | 31 | 41 | 66 | 165 | 117 | 59 | 38 | 32 |
| 29 | 21 | 20 | 18 | 18 | --- | 49 | 64 | 178 | 114 | 57 | 37 | 31 |
| 30 | 21 | 19 | 18 | 18 | --- | 59 | 61 | 189 | 110 | 56 | 37 | 31 |
| 31 | 21 | --- | 18 | 18 | --- | 65 | --- | 196 | --- | 55 | 37 | --- |
| TOTAL | 680 | 599 | 566 | 558 | 657 | 1106 | 1733 | 2903 | 4988 | 2346 | 1377 | 1011 |
| MEAN | 21.9 | 20.0 | 18.3 | 18.0 | 23.5 | 35.7 | 57.8 | 93.6 | 166 | 75.7 | 44.4 | 33.7 |
| MAX | 28 | 22 | 19 | 18 | 41 | 65 | 88 | 196 | 227 | 106 | 54 | 36 |
| MIN | 21 | 19 | 18 | 18 | 17 | 25 | 47 | 60 | 110 | 55 | 37 | 31 |
| ACFT | 1350 | 1190 | 1120 | 1110 | 1300 | 2190 | 3440 | 5760 | 9890 | 4650 | 2730 | 2010 |
| CAL YR 1985 | TOTAL | 11222 | MEAN | 30.7 | MAX | 98 | MIN | 18 | ACFT | 22260 | | |
| WTR YR 1986 | TOTAL | 18524 | MEAN | 50.8 | MAX | 227 | MIN | 17 | ACFT | 36740 | | |

e Estimated.

BEAR RIVER BASIN

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 except for estimated daily discharges, which are fair. Flow regulated by Bear Lake (station 10055500).

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--64 years, 423 ft³/s, 306,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,080 ft³/s June 19-21, 1986; minimum daily, 1.0 ft³/s for many days in 1937, 1954, 1959, 1961, 1964, 1977-78.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,080 ft³/s June 19-21; minimum daily, 368 ft³/s Feb. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|
| 1 | 497 | 510 | 747 | e598 | 632 | 933 | 1150 | 999 | 1620 | 2780 | 1600 | 1600 |
| 2 | 501 | 504 | 756 | e608 | 618 | 904 | 1230 | 1030 | 1670 | 2750 | 1620 | 1610 |
| 3 | 488 | 506 | 759 | e608 | 623 | 925 | 1200 | 1120 | 1720 | 2690 | 1590 | 1610 |
| 4 | 493 | 502 | 700 | e599 | 643 | 902 | 1150 | 1180 | 1780 | 2560 | 1620 | 1600 |
| 5 | 498 | 508 | 683 | e596 | 609 | 884 | 1100 | 1260 | 2010 | 2420 | 1610 | 1590 |
| 6 | 488 | 517 | 663 | e599 | 586 | 893 | 1070 | 1320 | 2220 | 2260 | 1620 | 1580 |
| 7 | 497 | 514 | 648 | e599 | 571 | 914 | 1080 | 1280 | 2340 | 2220 | 1660 | 1580 |
| 8 | 506 | 522 | 644 | e625 | 644 | 921 | 1120 | 1370 | 2380 | 2030 | 1660 | 1570 |
| 9 | 501 | 515 | 620 | e625 | 752 | 972 | 1130 | 1580 | 2460 | 1860 | 1670 | 1580 |
| 10 | 503 | 504 | 603 | e625 | 727 | 923 | 1070 | 1670 | 2260 | 1820 | 1660 | 1570 |
| 11 | 508 | 514 | 583 | e625 | 681 | 850 | 1020 | 1670 | 2180 | 1790 | 1660 | 1580 |
| 12 | 498 | 541 | e651 | e625 | 660 | 925 | 1010 | 1650 | 2370 | 1770 | 1680 | 1590 |
| 13 | 498 | 523 | e651 | e625 | 628 | 953 | 1030 | 1610 | 2550 | 1740 | 1670 | 1590 |
| 14 | 500 | 525 | e648 | e625 | 580 | 926 | 1020 | 1600 | 2660 | 1720 | 1670 | 1590 |
| 15 | 488 | 516 | e648 | e625 | 576 | 936 | 1010 | 1590 | 2660 | 1710 | 1660 | 1600 |
| 16 | 485 | 503 | e648 | e629 | 599 | 957 | 1030 | 1590 | 2660 | 1690 | 1640 | 1590 |
| 17 | 491 | 513 | e641 | e637 | 627 | 961 | 1050 | 1600 | 2670 | 1580 | 1610 | 1620 |
| 18 | 483 | 537 | e668 | e644 | 659 | 922 | 1050 | 1610 | 2870 | 1550 | 1600 | 1640 |
| 19 | 480 | 513 | e670 | e649 | 583 | 906 | 1030 | 1610 | 3080 | 1530 | 1590 | 1620 |
| 20 | 490 | 505 | e666 | e649 | 394 | 931 | 1020 | 1610 | 3080 | 1510 | 1560 | 1590 |
| 21 | 481 | 514 | e658 | e602 | 376 | 1010 | 1010 | 1630 | 3080 | 1490 | 1590 | 1560 |
| 22 | 477 | 646 | e648 | e599 | 368 | 1030 | 1040 | 1600 | 3070 | 1490 | 1590 | 1530 |
| 23 | 487 | 634 | e648 | e599 | 382 | 1070 | 1060 | 1620 | 3040 | 1570 | 1590 | 1440 |
| 24 | 490 | 581 | e599 | e602 | 497 | 1100 | 1040 | 1630 | 3020 | 1670 | 1580 | 1330 |
| 25 | 489 | 511 | e609 | e602 | 700 | 1130 | 1020 | 1640 | 3000 | 1720 | 1570 | e1220 |
| 26 | 496 | 515 | e622 | e602 | 831 | 1110 | 1050 | 1610 | 2990 | 1710 | 1550 | e1130 |
| 27 | 492 | 703 | e637 | e599 | 905 | 1080 | 1030 | 1580 | 2950 | 1690 | 1540 | e1050 |
| 28 | 489 | 733 | e639 | e599 | 947 | 1090 | 1010 | 1520 | 2910 | 1660 | 1550 | 933 |
| 29 | 501 | 756 | e641 | e597 | --- | 1090 | 983 | 1510 | 2870 | 1620 | 1560 | 403 |
| 30 | 490 | 741 | e643 | e604 | --- | 1090 | 960 | 1530 | 2830 | 1590 | 1580 | 855 |
| 31 | 497 | --- | e595 | e604 | --- | 1140 | --- | 1580 | --- | 1580 | 1590 | --- |
| TOTAL | 15282 | 16626 | 20236 | 19024 | 17398 | 30378 | 31773 | 46399 | 77000 | 57770 | 49940 | 43351 |
| MEAN | 493 | 554 | 653 | 614 | 621 | 980 | 1059 | 1497 | 2567 | 1864 | 1611 | 1445 |
| MAX | 508 | 756 | 759 | 649 | 947 | 1140 | 1230 | 1670 | 3080 | 2780 | 1680 | 1640 |
| MIN | 477 | 502 | 583 | 596 | 368 | 850 | 960 | 999 | 1620 | 1490 | 1540 | 403 |
| ACFT | 30310 | 32980 | 40140 | 37730 | 34510 | 60250 | 63020 | 92030 | 152700 | 114600 | 99060 | 85990 |
| CAL YR 1985 | TOTAL | 252077 | MEAN | 691 | MAX | 1220 | MIN | 14 | ACFT | 500000 | | |
| WTR YR 1986 | TOTAL | 425177 | MEAN | 1165 | MAX | 3080 | MIN | 368 | ACFT | 843300 | | |

e Estimated.

BEAR RIVER BASIN

225

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 mi².

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. Flow regulated by Bear Lake (station 10055500) and diversions above station for irrigation.

AVERAGE DISCHARGE.--50 years, 666 ft³/s, 482,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,280 ft³/s June 21, 1986; minimum daily, 23 ft³/s Mar. 14-17, 1936.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4,280 ft³/s June 21; minimum daily, 375 ft³/s Sept. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|--------|-------|--------|--------|---------|--------|-------|
| 1 | 630 | 664 | 1100 | e720 | e750 | 1720 | 1750 | 1700 | 2180 | 3350 | 1830 | 1830 |
| 2 | 622 | 668 | 1050 | e730 | e760 | 1680 | 1830 | 1720 | 2220 | 3300 | 1820 | 1830 |
| 3 | 617 | 645 | 1030 | e730 | e770 | 1650 | 1890 | 1740 | 2280 | 3250 | 1810 | 1830 |
| 4 | 623 | 646 | 989 | e740 | e780 | 1620 | 1890 | 1810 | 2330 | 3200 | 1790 | 1820 |
| 5 | 607 | 651 | 1020 | e740 | e790 | 1570 | 1810 | 1860 | 2410 | 3100 | 1790 | 1810 |
| 6 | 614 | 636 | 1040 | e730 | e810 | 1560 | 1740 | 1960 | 2570 | 3000 | 1790 | 1800 |
| 7 | 610 | 648 | 938 | e720 | e820 | 1540 | 1690 | 1980 | 2780 | 2850 | 1790 | 1800 |
| 8 | 617 | 667 | 936 | e710 | e840 | 1660 | 1700 | 2000 | 2970 | 2700 | 1800 | 1800 |
| 9 | 627 | 663 | 1040 | e700 | e860 | 1760 | 1720 | 2060 | 3100 | 2630 | 1830 | 1810 |
| 10 | 623 | 658 | 989 | e700 | e920 | 1810 | 1690 | 2170 | 3210 | 2440 | 1830 | 1830 |
| 11 | 630 | 653 | 854 | e700 | e1000 | 1790 | 1640 | 2250 | 3320 | 2350 | 1830 | 1820 |
| 12 | 633 | 647 | 835 | e690 | 1160 | 1740 | 1600 | 2280 | 3440 | 2270 | 1830 | 1810 |
| 13 | 626 | 668 | e840 | e680 | 1210 | 1730 | 1610 | 2270 | 3640 | 2190 | 1830 | 1810 |
| 14 | 632 | 677 | e840 | e660 | 1260 | 1670 | 1620 | 2220 | 3850 | 2130 | 1830 | 1800 |
| 15 | 634 | 675 | e830 | e650 | 1290 | 1610 | 1620 | 2190 | 3990 | 2070 | 1830 | 1810 |
| 16 | 620 | 717 | e820 | e650 | 1370 | 1590 | 1620 | 2160 | 3950 | 2040 | 1820 | 1830 |
| 17 | 627 | 682 | e810 | e650 | 1430 | 1570 | 1610 | 2150 | 4180 | 2010 | 1810 | 1820 |
| 18 | 631 | 673 | e800 | e640 | 1470 | 1500 | 1590 | 2150 | 4190 | 1990 | 1790 | 1800 |
| 19 | 624 | 689 | e800 | e640 | 1430 | 1460 | 1580 | 2160 | 4230 | 1850 | 1780 | 1790 |
| 20 | 633 | 728 | e790 | e640 | 920 | 1440 | 1560 | 2170 | 4260 | 1770 | 1780 | 1750 |
| 21 | 638 | 711 | e790 | e640 | 747 | 1440 | 1540 | 2150 | 4280 | 1720 | 1830 | 1660 |
| 22 | 628 | 724 | e790 | e650 | 708 | 1500 | 1540 | 2180 | 4150 | 1700 | 1840 | 1550 |
| 23 | 634 | 585 | e790 | e660 | 745 | 1540 | 1590 | 2200 | 3900 | 1730 | 1840 | 1440 |
| 24 | 642 | 817 | e790 | e670 | 876 | 1620 | 1630 | 2220 | 3800 | 1810 | 1870 | 1340 |
| 25 | 637 | 843 | e770 | e690 | 1200 | 1660 | 1660 | 2250 | 3750 | 1860 | 1870 | 1250 |
| 26 | 656 | 944 | e760 | e720 | 1500 | 1670 | 1710 | 2290 | 3600 | 1900 | 1850 | 619 |
| 27 | 640 | 896 | e750 | e730 | 1650 | 1670 | 1730 | 2290 | 3530 | 1930 | 1840 | 404 |
| 28 | 627 | 953 | e740 | e740 | 1720 | 1660 | 1730 | 2250 | 3480 | 1930 | 1830 | 375 |
| 29 | 648 | 1050 | e720 | e740 | --- | 1670 | 1730 | 2180 | 3400 | 1910 | 1830 | 384 |
| 30 | 639 | 1110 | e720 | e740 | --- | 1670 | 1710 | 2140 | 3400 | 1870 | 1830 | 1020 |
| 31 | 635 | --- | e720 | e740 | --- | 1710 | --- | 2140 | --- | 1830 | 1840 | --- |
| TOTAL | 19504 | 21988 | 26691 | 21540 | 29784 | 50480 | 50330 | 65290 | 102390 | 70680 | 56480 | 46242 |
| MEAN | 629 | 733 | 861 | 695 | 1064 | 1628 | 1678 | 2106 | 3413 | 2280 | 1822 | 1541 |
| MAX | 656 | 1110 | 1100 | 740 | 1720 | 1810 | 1890 | 2290 | 4280 | 3350 | 1870 | 1830 |
| MIN | 607 | 585 | 720 | 640 | 708 | 1440 | 1540 | 1700 | 2180 | 1700 | 1780 | 375 |
| ACFT | 38690 | 43610 | 52940 | 42720 | 59080 | 100100 | 99830 | 129500 | 203100 | 140200 | 112000 | 91720 |
| CAL YR 1985 | TOTAL | 368873 | MEAN | 1011 | MAX | 2420 | MIN | 262 | ACFT | 731700 | | |
| WTR YR 1986 | TOTAL | 561399 | MEAN | 1538 | MAX | 4280 | MIN | 375 | ACFT | 1114000 | | |

e Estimated.

BEAR RIVER BASIN

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 mi².

PERIOD OF RECORD.--October 1960 to September 1986 (discontinued).

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 except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--26 years, 18.5 ft³/s, 13,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 310 ft³/s June 6, 1986, gage height, 2.80 ft; minimum, 0.73 ft³/s Nov. 17, 18, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 310 ft³/s June 6, gage height, 2.80 ft; minimum daily, 3.5 ft³/s Dec. 11, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|-------|------|------|------|-------|-------|------|-------|
| 1 | e6.4 | e5.8 | e5.0 | e4.6 | e5.6 | e17 | 54 | 76 | 246 | 57 | 23 | 13 |
| 2 | e6.4 | e5.8 | e5.5 | e5.2 | e5.1 | e17 | 55 | 90 | 274 | 54 | 23 | 13 |
| 3 | e6.4 | e6.0 | e5.0 | e4.6 | e5.4 | e16 | 51 | 117 | 274 | 50 | 22 | 13 |
| 4 | e6.4 | e6.1 | e4.4 | e4.3 | e5.6 | e16 | 46 | 144 | 284 | 48 | 22 | 12 |
| 5 | e6.4 | e7.0 | e4.3 | e4.6 | e4.5 | e16 | 45 | 142 | 289 | 47 | 21 | 12 |
| 6 | e7.4 | e6.6 | e4.4 | e4.8 | e4.3 | e16 | 44 | 132 | 299 | 43 | 21 | 12 |
| 7 | e9.0 | e7.0 | e4.7 | e4.6 | e4.1 | e17 | 42 | 118 | 284 | 41 | 20 | 12 |
| 8 | e6.6 | e7.6 | e4.2 | e4.5 | e4.0 | e29 | 43 | 110 | 260 | 39 | 20 | 12 |
| 9 | e6.0 | e6.6 | e3.9 | e4.4 | e3.8 | e42 | 57 | 98 | 238 | 38 | 19 | 13 |
| 10 | e6.0 | e6.4 | e3.7 | e4.5 | e3.9 | e41 | 67 | 91 | 221 | 36 | 18 | 12 |
| 11 | e6.0 | e7.0 | e3.5 | e4.6 | e4.5 | e39 | 71 | 84 | 209 | 34 | 18 | 11 |
| 12 | e6.0 | e6.4 | e3.6 | e4.4 | e5.0 | e33 | 72 | 76 | 205 | 31 | 18 | 11 |
| 13 | e6.0 | e5.8 | e3.9 | e4.3 | e5.4 | e30 | 71 | 74 | 201 | 30 | 18 | 11 |
| 14 | e6.0 | e5.6 | e3.7 | e4.5 | e6.2 | e27 | 68 | 73 | 199 | 29 | 17 | 9.9 |
| 15 | e6.0 | e5.7 | e3.5 | e4.2 | e7.2 | e24 | 64 | 71 | 190 | 33 | 17 | 9.7 |
| 16 | e6.0 | e5.9 | e3.8 | e4.4 | e10 | e22 | 69 | 70 | 186 | 41 | 16 | 9.5 |
| 17 | e6.0 | e6.0 | e4.1 | e4.8 | e13 | e21 | 62 | 70 | 186 | 39 | 16 | 9.3 |
| 18 | e6.0 | e5.3 | e4.5 | e5.3 | e17 | e19 | 59 | 76 | 176 | 36 | 16 | 9.7 |
| 19 | e6.0 | e4.6 | e4.3 | e4.9 | e21 | e18 | 56 | 95 | 169 | 34 | 16 | 9.4 |
| 20 | e6.0 | e4.8 | e4.0 | e4.4 | e20 | e19 | 59 | 120 | 155 | 33 | 16 | 9.3 |
| 21 | e6.4 | e4.5 | e4.0 | e4.3 | e18 | e20 | 68 | 154 | 143 | 32 | 17 | 8.8 |
| 22 | e7.2 | e4.1 | e4.0 | e4.2 | e16 | e23 | 84 | 171 | 128 | 31 | 15 | 8.5 |
| 23 | e10 | e4.0 | e4.0 | e4.4 | e18 | e25 | 114 | 159 | 117 | 30 | 16 | 8.4 |
| 24 | e8.0 | e4.4 | e4.0 | e4.5 | e20 | e32 | 132 | 146 | 107 | 30 | 16 | 9.2 |
| 25 | e6.4 | e4.5 | e4.0 | e4.1 | e22 | e30 | 128 | 147 | 98 | 32 | 15 | 9.7 |
| 26 | e6.0 | e4.5 | e4.2 | e3.8 | e18 | e26 | 116 | 165 | 84 | 31 | 14 | 9.2 |
| 27 | e5.9 | e4.7 | e4.2 | e3.8 | e17 | e28 | 100 | 176 | 76 | 29 | 14 | 9.2 |
| 28 | e5.9 | e5.0 | e4.0 | e4.3 | e17 | 37 | 86 | 201 | 70 | 28 | 13 | 8.7 |
| 29 | e5.9 | e5.4 | e3.8 | e4.6 | --- | 45 | 78 | 222 | 65 | 26 | 14 | 8.0 |
| 30 | e5.9 | e4.7 | e3.8 | e5.4 | --- | 53 | 72 | 235 | 60 | 25 | 14 | 8.8 |
| 31 | e5.8 | --- | e4.0 | e6.0 | --- | 53 | --- | 243 | --- | 24 | 13 | --- |
| TOTAL | 200.4 | 167.8 | 128.0 | 141.3 | 301.6 | 851 | 2133 | 3946 | 5493 | 1111 | 538 | 312.3 |
| MEAN | 6.46 | 5.59 | 4.13 | 4.56 | 10.8 | 27.5 | 71.1 | 127 | 183 | 35.8 | 17.4 | 10.4 |
| MAX | 10 | 7.6 | 5.5 | 6.0 | 22 | 53 | 132 | 243 | 299 | 57 | 23 | 13 |
| MIN | 5.8 | 4.0 | 3.5 | 3.8 | 3.8 | 16 | 42 | 70 | 60 | 24 | 13 | 8.0 |
| ACFT | 397 | 333 | 254 | 280 | 598 | 1690 | 4230 | 7830 | 10900 | 2200 | 1070 | 619 |
| CAL YR 1985 | TOTAL | 6455.6 | MEAN | 17.7 | MAX | 116 | MIN | 3.5 | ACFT | 12800 | | |
| WTR YR 1986 | TOTAL | 15323.4 | MEAN | 42.0 | MAX | 299 | MIN | 3.5 | ACFT | 30390 | | |

e Estimated.

BEAR RIVER BASIN

227

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 mi².

PERIOD OF RECORD.--May to September 1896, May, June 1898, and October 1953 to current year in reports of Geological Survey. Irrigation season only during 1944-49, 1951-53 in reports of Bear River Hydrometric Data (Geological Survey open-file report).

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

GAGE.--Water-stage recorder. Altitude of gage is 5,760 ft from topographic map. May 25 to Oct. 2, 1896, May 22 to July 1, 1898, staff gage at different datum. During irrigation season 1944-49, 1950-53, water-stage recorder at site 800 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Natural flow of stream affected by upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--33 years, 769 ft³/s, 557,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,380 ft³/s June 9, 15, 1896, gage height, 8.40 ft, datum then in use; minimum, 41 ft³/s Nov. 16, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4,460 ft³/s June 20, 21; minimum daily, 491 ft³/s Nov. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 677 | 645 | e1010 | e871 | e1040 | e2100 | e2290 | 2700 | e2930 | 3610 | 1900 | 1960 |
| 2 | 676 | 673 | e998 | e869 | 1260 | e2080 | e2380 | 2700 | e2960 | 3590 | 1880 | 1950 |
| 3 | 670 | 658 | e1040 | e863 | 1210 | e1980 | e2430 | 2750 | e2920 | 3540 | 1890 | 1930 |
| 4 | 650 | 647 | e1030 | e872 | 1190 | e1970 | e2450 | 2900 | e2950 | 3440 | 1890 | 1900 |
| 5 | 648 | 659 | e987 | e854 | 1260 | e2020 | e2380 | 2960 | e2980 | 3400 | 1890 | 1910 |
| 6 | 649 | 646 | e945 | e871 | 1250 | e1970 | e2250 | 2590 | e3080 | 3300 | 1910 | 1900 |
| 7 | 677 | 651 | e952 | e849 | 1270 | e1980 | e2140 | 2430 | e3620 | 3120 | 1930 | 1880 |
| 8 | 692 | 687 | e1080 | e829 | 1330 | e2210 | 2140 | 2480 | e3750 | 2960 | 1930 | 1890 |
| 9 | 699 | 679 | e916 | e831 | 1200 | e2490 | 2170 | 2620 | e3780 | 2810 | 1940 | 1900 |
| 10 | 690 | 665 | e822 | e850 | 1280 | e2380 | 2680 | 2690 | e3860 | 2600 | 1940 | 1900 |
| 11 | 682 | 659 | e753 | e870 | 1240 | e2300 | 2620 | 2790 | e3970 | 2430 | 1940 | 1900 |
| 12 | 696 | 648 | e631 | e820 | 1300 | e2220 | 2530 | 2780 | e4070 | 2320 | 1940 | 1960 |
| 13 | 683 | 654 | e622 | e843 | 1320 | e2150 | 2540 | 2730 | e4200 | 2250 | 1940 | 1950 |
| 14 | 673 | 646 | e832 | e862 | 1350 | e2130 | 2600 | 2660 | e4250 | 2170 | 1940 | 1930 |
| 15 | 674 | 651 | e969 | e932 | 1510 | e2170 | 2640 | 2620 | e4290 | 2130 | 1930 | e1920 |
| 16 | 666 | 658 | e874 | e951 | 1580 | e2010 | 2750 | 2580 | e4290 | 2090 | 1940 | e1900 |
| 17 | 657 | e664 | e880 | e1010 | 1640 | e1990 | 2700 | 2570 | e4330 | 2060 | 1930 | e1890 |
| 18 | 662 | e649 | e912 | e1000 | 1850 | e1960 | 2580 | 2540 | e4390 | 2090 | 1910 | e1900 |
| 19 | 658 | e633 | e967 | e988 | 1900 | e1850 | 2490 | 2640 | e4370 | 2060 | 1910 | e1910 |
| 20 | 660 | e637 | e935 | e1010 | 1760 | e1870 | 2440 | e2770 | e4460 | 1970 | 1910 | e1930 |
| 21 | 675 | e714 | e920 | e966 | 1440 | e1890 | 2430 | e2840 | e4460 | 1910 | e1970 | e1930 |
| 22 | 684 | e720 | e897 | e967 | 1110 | e1900 | 2450 | e2880 | e4340 | 1860 | e1990 | e1950 |
| 23 | 688 | e680 | e846 | e983 | 1220 | e2000 | 2610 | e2860 | e4170 | 1830 | e1960 | e1950 |
| 24 | 693 | e491 | e821 | e1000 | 1440 | e2060 | 2870 | e2840 | e4020 | e1810 | e1930 | e1940 |
| 25 | 674 | e778 | e901 | e959 | 1790 | e2120 | 2980 | e2860 | e3940 | e1790 | e1940 | e1850 |
| 26 | 668 | e827 | e836 | e970 | e1900 | e2140 | 3010 | e2910 | 3880 | e1820 | e1940 | e1590 |
| 27 | 666 | e788 | e865 | e962 | e2200 | e2020 | 2950 | e2960 | 3850 | e1940 | e1950 | e1570 |
| 28 | 645 | e938 | e866 | e1000 | e2170 | e2140 | 2890 | e2980 | 3920 | e1910 | 1960 | e1250 |
| 29 | 648 | e977 | e852 | e988 | --- | e2190 | 2870 | e2980 | 3820 | e1900 | 1950 | e905 |
| 30 | 650 | e1060 | e897 | e975 | --- | e2210 | 2810 | e2960 | 3670 | e1910 | 1950 | e1070 |
| 31 | 641 | --- | e913 | e1010 | --- | e2260 | --- | e2930 | --- | 1910 | 1960 | --- |
| TOTAL | 20771 | 21082 | 27769 | 28625 | 41010 | 64760 | 77070 | 85500 | 115520 | 74530 | 59890 | 54315 |
| MEAN | 670 | 703 | 896 | 923 | 1465 | 2089 | 2569 | 2758 | 3851 | 2404 | 1932 | 1811 |
| MAX | 699 | 1060 | 1080 | 1010 | 2200 | 2490 | 3010 | 2980 | 4460 | 3610 | 1990 | 1960 |
| MIN | 641 | 491 | 622 | 820 | 1040 | 1850 | 2140 | 2430 | 2920 | 1790 | 1880 | 905 |
| ACFT | 41200 | 41820 | 55080 | 56780 | 81340 | 128500 | 152900 | 169600 | 229100 | 147800 | 118800 | 107700 |

| | | | | | | | | | | |
|-------------|-------|--------|------|------|-----|------|-----|-----|------|---------|
| CAL YR 1985 | TOTAL | 391799 | MEAN | 1073 | MAX | 3230 | MIN | 397 | ACFT | 777100 |
| WTR YR 1986 | TOTAL | 670842 | MEAN | 1838 | MAX | 4460 | MIN | 491 | ACFT | 1331000 |

e Estimated.

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 mi².

PERIOD OF RECORD.--October 1964 to September 1986 (discontinued). April 1923 to October 1926 published as "at Lau Ranch." Records since October 1964 equivalent if Schmidt ditch diversion is subtracted 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 except for estimated daily discharges, which are poor. Records herein include flow in Schmidt ditch.

AVERAGE DISCHARGE.--22 years, 18.2 ft³/s, 13,190 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 130 ft³/s Apr. 10, 1985, gage height, 2.43 ft; maximum gage height, 4.01 ft Apr. 2, 1965, site and datum then in use; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 65 ft³/s Mar. 8, 9, gage height, 1.80 ft; minimum daily discharge, 9.0 ft³/s Jan. 13-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|-------|------|------|------|------|------|------|------|------|
| 1 | 24 | 17 | 12 | 11 | e14 | 21 | 31 | 37 | 33 | 32 | 32 | 33 |
| 2 | 24 | 17 | 12 | 12 | e13 | 23 | 33 | 37 | 34 | 32 | 32 | 33 |
| 3 | 23 | 16 | 13 | 11 | e13 | 26 | 34 | 36 | 34 | 32 | 32 | 33 |
| 4 | 23 | 16 | 12 | e10 | e13 | 30 | 34 | 37 | 34 | 31 | 32 | 32 |
| 5 | 23 | 17 | 12 | e10 | e12 | 32 | 33 | 37 | 35 | 32 | 32 | 32 |
| 6 | 23 | 16 | 12 | 11 | e12 | 32 | 32 | 38 | 35 | 32 | 32 | 32 |
| 7 | 24 | 17 | 12 | 11 | e12 | 34 | 32 | 39 | 35 | 32 | 32 | 32 |
| 8 | 24 | 18 | 12 | 10 | e12 | 53 | 32 | 41 | 35 | 32 | 32 | 33 |
| 9 | 23 | 17 | 12 | e9.1 | 11 | 63 | 32 | 41 | 35 | 32 | 32 | 34 |
| 10 | 22 | e15 | 11 | e9.2 | 11 | 56 | 32 | 41 | 35 | 33 | 31 | 35 |
| 11 | 22 | e16 | e10 | e9.4 | 11 | 46 | 32 | 41 | 35 | 33 | 31 | 34 |
| 12 | 22 | 17 | e10 | e9.2 | e14 | 40 | 33 | 40 | 34 | 32 | 31 | 34 |
| 13 | 22 | 17 | e10 | e9.0 | e17 | 35 | 34 | 40 | 34 | 32 | 32 | 33 |
| 14 | 21 | 16 | 11 | e9.0 | e18 | 32 | 34 | 40 | 34 | 32 | 31 | 34 |
| 15 | 20 | 15 | e10 | e9.0 | e19 | 29 | 35 | 39 | 34 | 32 | 31 | 33 |
| 16 | 20 | 15 | e10 | 10 | e18 | 27 | 37 | 39 | 33 | 33 | 32 | 33 |
| 17 | 20 | 15 | e10 | 11 | e17 | 26 | 37 | 39 | 33 | 33 | 31 | 33 |
| 18 | 19 | 15 | e10 | e13 | e18 | 25 | 37 | 39 | 33 | 32 | 31 | 35 |
| 19 | 18 | 15 | e10 | e13 | e19 | 25 | 35 | 39 | 33 | 32 | 31 | 35 |
| 20 | 19 | 15 | e10 | e13 | e18 | 25 | 35 | 39 | 33 | 32 | 32 | 35 |
| 21 | 19 | 15 | e10 | e13 | e16 | 26 | 35 | 39 | 33 | 32 | 32 | 35 |
| 22 | 20 | 13 | e10 | e12 | e19 | 32 | 35 | 40 | 32 | 32 | 32 | 35 |
| 23 | 19 | e12 | e10 | e13 | e22 | 38 | 35 | 40 | 32 | 32 | 32 | 35 |
| 24 | 19 | 12 | e10 | e13 | e24 | 43 | 37 | 39 | 32 | 32 | 33 | 36 |
| 25 | 19 | 13 | e10 | e13 | e29 | 43 | 39 | 39 | 33 | 33 | 33 | 38 |
| 26 | 18 | 12 | e10 | e12 | e26 | 36 | 41 | 39 | 33 | 33 | 33 | 38 |
| 27 | 18 | 12 | e10 | e12 | 21 | 34 | 40 | 40 | 33 | 33 | 33 | 39 |
| 28 | 17 | 12 | e10 | e12 | 21 | 33 | 39 | 36 | 32 | 33 | 32 | 39 |
| 29 | 17 | 13 | e10 | e12 | --- | 32 | 38 | 30 | 32 | 32 | 33 | 39 |
| 30 | 17 | 13 | e10 | e13 | --- | 31 | 38 | 32 | 32 | 32 | 33 | 39 |
| 31 | 17 | --- | e10 | e14 | --- | 31 | --- | 31 | --- | 32 | 33 | --- |
| TOTAL | 636 | 449 | 331 | 348.9 | 470 | 1059 | 1051 | 1184 | 1005 | 999 | 991 | 1041 |
| MEAN | 20.5 | 15.0 | 10.7 | 11.3 | 16.8 | 34.2 | 35.0 | 38.2 | 33.5 | 32.2 | 32.0 | 34.7 |
| MAX | 24 | 18 | 13 | 14 | 29 | 63 | 41 | 41 | 35 | 33 | 33 | 39 |
| MIN | 17 | 12 | 10 | 9.0 | 11 | 21 | 31 | 30 | 32 | 31 | 31 | 32 |
| ACFT | 1260 | 891 | 657 | 692 | 932 | 2100 | 2080 | 2350 | 1990 | 1980 | 1970 | 2060 |

CAL YR 1985 TOTAL 10098 MEAN 27.7 MAX 125 MIN 10 ACFT 20030
WTR YR 1986 TOTAL 9564.9 MEAN 26.2 MAX 63 MIN 9.0 ACFT 18970

e Estimated.

BEAR RIVER BASIN

229

10079000 SODA POINT RESERVOIR AT ALEXANDER, ID

LOCATION.--Lat 42°38'41", long 111°42'44", in NW1/4SE1/4NW1/4 sec.17, T.9 S., R.41 E., Caribou County, Hydrologic Unit 16010202, 0.5 mi Southeast of Alexander, 5 mi downstream from Soda Creek.

PERIOD OF RECORD.--October 1924 to current year. Prior to 1986, published in reports of the Bear River Commission.

COOPERATION.--Records provided by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 13,690 acre-ft July 26, 28, elevation, 5,719.07 ft; minimum, 4,680 acre-ft Sept. 28, elevation, 5,705.06 ft.

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
INSTANTANEOUS VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | 12720 | 13190 | 13530 | 11600 | 13180 | 11060 | 12450 | 11890 | 12240 | 12500 | 13350 | 12600 |
| 2 | 12860 | 13170 | 13500 | 11480 | 13300 | 11160 | 12620 | 11700 | 12370 | 12810 | 13360 | 12470 |
| 3 | 13020 | 13190 | 13560 | 11390 | 13480 | 10750 | 12660 | 11590 | 12490 | 12930 | 13360 | 13520 |
| 4 | 13170 | 13160 | 13590 | 11410 | 13440 | 10450 | 12640 | 11600 | 12740 | 13150 | 13350 | 13470 |
| 5 | 13210 | 13140 | 13540 | 11360 | 13350 | 11550 | 12500 | 11840 | 12930 | 13190 | 13300 | 13290 |
| 6 | 13260 | 13130 | 13410 | 11340 | 13320 | 11520 | 12110 | 12130 | 13210 | 13090 | 13250 | 13240 |
| 7 | 13370 | 13110 | 13350 | 11280 | 13280 | 11500 | 11670 | 12300 | 12740 | 13060 | 13190 | 13170 |
| 8 | 13360 | 13190 | 13490 | 11210 | 13210 | 11840 | 11600 | 12360 | 12590 | 13040 | 13190 | 13140 |
| 9 | 13290 | 13240 | 13300 | 11220 | 13120 | 12240 | 11550 | 12560 | 13040 | 12810 | 13140 | 13280 |
| 10 | 13220 | 13340 | 12940 | 11300 | 12890 | 12170 | 11550 | 12120 | 13310 | 12730 | 13140 | 13460 |
| 11 | 13120 | 13330 | 12510 | 11410 | 12780 | 11960 | 11530 | 11910 | 13400 | 12640 | 13140 | 13560 |
| 12 | 13060 | 13370 | 12280 | 11480 | 12650 | 11610 | 11380 | 11710 | 11970 | 12390 | 13130 | 13640 |
| 13 | 13040 | 13380 | 12070 | 11530 | 12560 | 11280 | 11310 | 11490 | 11390 | 12330 | 13100 | 13650 |
| 14 | 12930 | 13370 | 12300 | 11580 | 12500 | 12630 | 11240 | 11320 | 10990 | 12370 | 13100 | 13570 |
| 15 | 12920 | 13280 | 12690 | 11610 | 12690 | 12760 | 11190 | 11280 | 10900 | 12350 | 13090 | 13440 |
| 16 | 12980 | 13130 | 12770 | 11690 | 12930 | 12340 | 11150 | 11170 | 10960 | 12350 | 13090 | 13390 |
| 17 | 12910 | 13360 | 12870 | 11860 | 13000 | 12040 | 11220 | 10940 | 11080 | 12590 | 13060 | 13060 |
| 18 | 12910 | 13460 | 13020 | 12020 | 13250 | 11810 | 11130 | 10920 | 11180 | 12740 | 13040 | 12370 |
| 19 | 12970 | 13170 | 13250 | 12150 | 13470 | 11380 | 10880 | 10920 | 11890 | 12950 | 13020 | 11630 |
| 20 | 13010 | 12930 | 13350 | 12320 | 13570 | 11500 | 10690 | 11420 | 12140 | 13130 | 13080 | 10960 |
| 21 | 13060 | 12890 | 13270 | 12390 | 12850 | 11650 | 11750 | 11730 | 12420 | 13250 | 13340 | 10040 |
| 22 | 13220 | 12810 | 13150 | 12470 | 11940 | 11650 | 11860 | 11910 | 12610 | 13310 | 13540 | 9160 |
| 23 | 13330 | 12680 | 13020 | 12570 | 11190 | 11800 | 11090 | 12080 | 12790 | 13340 | 13530 | 8930 |
| 24 | 13460 | 12280 | 12740 | 12720 | 10850 | 11930 | 11560 | 11990 | 12940 | 13440 | 13620 | 8740 |
| 25 | 13550 | 12450 | 12640 | 12760 | 11190 | 11950 | 11810 | 11890 | 12800 | 13620 | 13650 | 7980 |
| 26 | 13520 | 12710 | 12420 | 12830 | 11060 | 12000 | 11930 | 11880 | 13410 | 13690 | 13670 | 7030 |
| 27 | 13510 | 12880 | 12240 | 12880 | 11490 | 12050 | 11990 | 11940 | 12950 | 13680 | 13510 | 5810 |
| 28 | 13430 | 13230 | 12050 | 13010 | 11630 | 12090 | 12040 | 12070 | 12810 | 13690 | 13220 | 4680 |
| 29 | 13330 | 13360 | 11840 | 13070 | --- | 12180 | 12070 | 12180 | 12640 | 13680 | 13010 | 4720 |
| 30 | 13300 | 13540 | 11750 | 13040 | --- | 12260 | 12070 | 12200 | 12400 | 13630 | 12810 | 6760 |
| 31 | 13250 | --- | 11710 | 13080 | --- | 12380 | --- | 12200 | --- | 13490 | 12740 | --- |
| MAX | 13550 | 13540 | 13590 | 13080 | 13570 | 12760 | 12660 | 12560 | 13410 | 13690 | 13670 | 13650 |
| MIN | 12720 | 12280 | 11710 | 11210 | 10850 | 10450 | 10690 | 10920 | 10900 | 12330 | 12740 | 4680 |
| (#) | 5718.63 | 5718.92 | 5717.00 | 5718.46 | 5716.91 | 5717.73 | 5717.39 | 5717.53 | 5717.75 | 5718.87 | 5718.10 | 5709.95 |
| (*) | +510 | +290 | -1830 | +1370 | -1450 | +750 | -310 | +130 | +200 | +1090 | -750 | -5980 |

WTR YR 1986 (*) -5980

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

BEAR RIVER BASIN

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 mi².

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 except for estimated daily discharges, which are fair. 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.--75 years, 823 ft³/s, 596,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,340 ft³/s Mar. 31, 1911; maximum gage height, 15.95 ft Dec. 11, 1919 (backwater from ice); minimum, 15 ft³/s Aug. 24, 1979, when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4,170 ft³/s June 25; minimum daily, 216 ft³/s Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|--------|--------|--------|--------|---------|--------|--------|
| 1 | 797 | 884 | 1080 | 1000 | 933 | 2240 | 2270 | 2430 | 2920 | 3550 | 2120 | 2200 |
| 2 | 754 | 882 | 1080 | 1000 | 933 | 2230 | 2360 | 2440 | 2930 | 3580 | 2070 | 2190 |
| 3 | 747 | 876 | 1090 | 953 | 955 | 2210 | 2460 | 2440 | 2950 | 3550 | 2070 | 1530 |
| 4 | 752 | 873 | 1090 | 939 | 989 | 1880 | 2490 | 2450 | 2930 | 3500 | 2080 | 2180 |
| 5 | 801 | 869 | 1090 | 942 | 986 | 1600 | 2490 | 2450 | 3050 | 3510 | 2070 | 2160 |
| 6 | 812 | 866 | 1090 | 943 | e1080 | 1940 | 2490 | 2470 | 3150 | 3490 | 2070 | 2120 |
| 7 | 823 | 865 | 1080 | 944 | e1080 | 1960 | 2360 | 2630 | 3450 | 3240 | 2060 | 2110 |
| 8 | 894 | 865 | 1080 | 915 | e1050 | 2180 | 2310 | 2660 | 3440 | 3190 | 2060 | 2060 |
| 9 | 899 | 862 | 1080 | 897 | e1050 | 2390 | 2330 | 2800 | 3260 | 3060 | 2050 | 2030 |
| 10 | 899 | 859 | 1070 | 884 | e1080 | 2410 | 2330 | 2960 | 3540 | 2750 | 2050 | 2040 |
| 11 | 896 | 858 | 996 | 892 | e1080 | 2410 | 2340 | 2960 | 3790 | 2720 | 2050 | 2030 |
| 12 | 894 | 860 | 825 | 893 | e1060 | 2410 | 2340 | 2960 | 4160 | 2580 | 2050 | 2040 |
| 13 | 892 | 857 | 803 | 894 | e1060 | 1890 | 2340 | 2950 | 3850 | 2420 | 2060 | 2050 |
| 14 | 890 | 871 | 800 | 903 | e1060 | 1630 | 2340 | 2860 | 4020 | 2370 | 2060 | 2120 |
| 15 | 889 | 857 | 854 | 903 | e1070 | 2200 | 2330 | 2810 | 4000 | 2360 | 2070 | 2130 |
| 16 | 820 | 874 | 905 | 897 | e1200 | 2210 | 2330 | 2800 | 4000 | 2260 | 2080 | 2200 |
| 17 | 818 | 874 | 904 | 898 | e1320 | 2140 | 2320 | 2770 | 4030 | 2210 | 2080 | 2350 |
| 18 | 821 | 899 | 902 | 900 | e1420 | 2110 | 2310 | 2720 | 4040 | 2100 | 2080 | 2440 |
| 19 | 824 | 955 | 934 | 903 | e1590 | 1930 | 2320 | 2370 | 3820 | 2040 | 2050 | 2430 |
| 20 | 827 | 866 | 1010 | 904 | e1630 | 1830 | 2310 | 2780 | 4040 | 1980 | 2010 | 2410 |
| 21 | 833 | 851 | 1020 | 900 | e1690 | 1880 | 2300 | 2660 | 4070 | 1990 | 2020 | 2470 |
| 22 | 834 | 849 | 1020 | 898 | e1660 | 1920 | 2140 | 2750 | 4090 | 2000 | 2110 | 2090 |
| 23 | 833 | 816 | 1020 | 898 | e1630 | 1950 | 2130 | 2840 | 4110 | 2000 | 2140 | 1850 |
| 24 | 832 | 793 | 1020 | 899 | e1560 | 2090 | 2130 | 2880 | 4160 | 2010 | 2140 | 2070 |
| 25 | 832 | 797 | 1020 | 899 | 1940 | 2140 | 2150 | 2880 | 4170 | 2090 | 2130 | 2100 |
| 26 | 862 | 799 | 1020 | 899 | 2030 | 2150 | 2310 | 2880 | 3870 | 2200 | 2130 | 1890 |
| 27 | 885 | 797 | 1030 | 897 | 2120 | 2140 | 2440 | 2900 | 4070 | 2220 | 2230 | 1390 |
| 28 | 885 | 889 | 1030 | 890 | 2220 | 2150 | 2450 | 2900 | 3980 | 2220 | 2210 | 1180 |
| 29 | 880 | 996 | 1030 | 921 | --- | 2180 | 2450 | 2920 | 3940 | 2220 | 2210 | 496 |
| 30 | 878 | 1060 | 1000 | 932 | --- | 2190 | 2400 | 2920 | 3900 | 2210 | 2220 | 216 |
| 31 | 881 | --- | 1000 | 933 | --- | 2250 | --- | 2920 | --- | 2200 | 2210 | --- |
| TOTAL | 26184 | 26119 | 30973 | 28370 | 37476 | 64840 | 70070 | 85160 | 111730 | 79820 | 65040 | 58572 |
| MEAN | 845 | 871 | 999 | 915 | 1338 | 2092 | 2336 | 2747 | 3724 | 2575 | 2098 | 1952 |
| MAX | 899 | 1060 | 1090 | 1000 | 2220 | 2410 | 2490 | 2960 | 4170 | 3580 | 2230 | 2470 |
| MIN | 747 | 793 | 800 | 884 | 933 | 1600 | 2130 | 2370 | 2920 | 1980 | 2010 | 216 |
| ACFT | 51940 | 51810 | 61430 | 56270 | 74330 | 128600 | 139000 | 168900 | 221600 | 158300 | 129000 | 116200 |
| CAL YR 1985 | TOTAL | 433566 | MEAN | 1188 | MAX | 3860 | MIN | 598 | ACFT | 860000 | | |
| WTR YR 1986 | TOTAL | 684354 | MEAN | 1875 | MAX | 4170 | MIN | 216 | ACFT | 1357000 | | |

e Estimated.

BEAR RIVER BASIN

231

10080000 BEAR RIVER BELOW GRACE DAM, NEAR GRACE, ID

LOCATION.--Lat 42°35'11", long 111°43'51", in NE1/4SE1/4NW1/4 sec.1, T.10 S., R.40 E., Caribou County, Hydrologic Unit 16010202, on left bank 1,000 ft downstream from dam, and 1 mi north of Grace.

PERIOD OF RECORD.--April 1922 to November 1923 (fragmentary); March 1924 to current year. 1945 to 1950 published in reports on Bear River Hydrometric Data, water year 1946 published in WSP 1060.

GAGE.--Water-stage recorder. Altitude of gage is 5,550 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair.

COOPERATION.--Records collected by Utah Power & Light Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,390 ft³/s June 10, 1986, gage height 6.77 ft; minimum, 0.74 ft³/s Feb. 2, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,390 ft³/s June 10, gage height 6.77 ft; minimum, 0.74 ft³/s Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-----------|--------|-------|---------|-------|-------|--------|--------|-------|--------|-------|
| 1 | 15 | 11 | e93 | e7.4 | .89 | 1380 | 1330 | 1390 | 1960 | 2520 | 671 | 1080 |
| 2 | 15 | 11 | e90 | e6.6 | .82 | 1380 | 1520 | 1380 | 1930 | 2460 | 609 | 1070 |
| 3 | 15 | 11 | e87 | e6.2 | 27 | 1360 | 1660 | 1280 | 1810 | 2310 | 618 | 677 |
| 4 | 15 | 10 | e80 | e4.1 | 53 | 1180 | 1720 | 1380 | 1970 | 2310 | 635 | 1180 |
| 5 | 16 | 7.9 | e76 | e6.0 | 12 | 628 | 1710 | 1380 | 2140 | 2250 | 648 | 1050 |
| 6 | 16 | 7.4 | e70 | e6.9 | 7.3 | 989 | 1700 | 1380 | 2740 | 1800 | 638 | 1000 |
| 7 | 16 | 6.9 | e65 | e6.8 | 5.2 | 983 | 1430 | 1390 | 2680 | 1800 | 628 | 983 |
| 8 | 16 | 6.4 | e65 | e6.5 | 3.4 | 1180 | 1290 | 1390 | 2260 | 1600 | 643 | 923 |
| 9 | 15 | 6.0 | e64 | e5.9 | 4.5 | 1600 | 1300 | 1390 | 2700 | 1120 | 644 | 943 |
| 10 | 15 | 5.7 | e65 | e5.4 | 6.1 | 1740 | 1270 | 1380 | 3000 | 1030 | 657 | 972 |
| 11 | 15 | 5.5 | e46 | e5.2 | 33 | 1740 | 1210 | 1510 | 3700 | 879 | 666 | 984 |
| 12 | 14 | 5.3 | e2.5 | e4.7 | 3.1 | 1730 | 1300 | 1760 | 3200 | 701 | 694 | 996 |
| 13 | 14 | 5.1 | e1.7 | e4.7 | 2.2 | 1440 | 1270 | 1780 | 3300 | 646 | 711 | 1080 |
| 14 | 14 | 4.9 | e1.6 | e3.7 | 1.9 | 1220 | 1250 | 1990 | 3220 | 650 | 710 | 1090 |
| 15 | 14 | 4.7 | e2.4 | e16 | 5.2 | 1310 | 1310 | 1970 | 3220 | 588 | 702 | 1100 |
| 16 | 13 | 4.5 | e2.0 | e19 | 18 | 1350 | 1260 | 1940 | 3260 | 548 | 708 | 1250 |
| 17 | 13 | 4.3 | e2.7 | e22 | 19 | 1240 | 1250 | 1860 | 3280 | 497 | 708 | 1530 |
| 18 | 13 | 4.1 | e2.8 | 43 | 62 | 1160 | 1240 | 1770 | 2690 | 437 | 720 | 1690 |
| 19 | 13 | 4.0 | e2.7 | 8.3 | 74 | 947 | 1200 | 1440 | 3200 | 653 | 674 | 1690 |
| 20 | 13 | 3.8 | e23 | 8.7 | 81 | 749 | 1210 | 1850 | 3280 | 692 | 681 | 1650 |
| 21 | 13 | e3.6 | e75 | 4.2 | 83 | 779 | 1210 | 1710 | 3330 | 704 | 699 | 1770 |
| 22 | 13 | e3.4 | e77 | 92 | 72 | 844 | 1200 | 1830 | 3370 | 704 | 869 | 1040 |
| 23 | 12 | e3.2 | e68 | 14 | 65 | 872 | 1010 | 2020 | 3490 | 743 | 926 | 825 |
| 24 | 12 | e3.0 | e57 | 5.3 | 35 | 1040 | 936 | 2130 | 3490 | 876 | 937 | 1100 |
| 25 | 12 | e2.8 | e39 | 5.2 | 68 | 1130 | 912 | 2140 | 3060 | 1010 | 1460 | 1120 |
| 26 | 12 | e2.7 | e42 | 5.6 | 998 | 1130 | 912 | 2130 | 3360 | 1100 | e1820 | 795 |
| 27 | 11 | e3.3 | e17 | 50 | 1080 | 1130 | 919 | 2080 | 3120 | 1120 | 1080 | 341 |
| 28 | 11 | e46 | e8.9 | 3.9 | 1250 | 1130 | 1190 | 2100 | 3140 | 1140 | 1070 | 176 |
| 29 | 11 | e65 | e7.2 | 4.6 | --- | 1170 | 1250 | 2060 | 3030 | 1140 | 1070 | 69 |
| 30 | 11 | e97 | e8.0 | 2.6 | --- | 1210 | 1390 | 1970 | 2480 | 1130 | 1090 | 23 |
| 31 | 11 | --- | e7.3 | 1.2 | --- | 1290 | --- | 1970 | --- | 1060 | 1120 | --- |
| TOTAL | 419 | 359.5 | 1248.8 | 385.7 | 4070.61 | 37031 | 38359 | 53750 | 87410 | 36218 | 25506 | 30197 |
| MEAN | 13.5 | 12.0 | 40.3 | 12.4 | 145 | 1195 | 1279 | 1734 | 2914 | 1168 | 823 | 1007 |
| MAX | 16 | 97 | 93 | 92 | 1250 | 1740 | 1720 | 2140 | 3700 | 2520 | 1820 | 1770 |
| MIN | 11 | 2.7 | 1.6 | 1.2 | .82 | 628 | 912 | 1280 | 1810 | 437 | 609 | 23 |
| ACFT | 831 | 713 | 2480 | 765 | 8070 | 73450 | 76090 | 106600 | 173400 | 71840 | 50590 | 59900 |
| WTR YR 1986 | TOTAL | 314954.61 | | MEAN | 863 | MAX | 3700 | MIN | .82 | ACFT | 624700 | |

e Estimated.

BEAR RIVER BASIN

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 mi².

PERIOD OF RECORD.--November 1938 to September 1986 (discontinued).

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 except for estimated daily discharges, which are poor. 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.--47 years, 34.2 ft³/s, 24,780 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,090 ft³/s May 15, 1984, gage height, 4.34 ft; minimum, no flow Feb. 19-21, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| Mar. 8 | 2100 | 443 | 3.36 | May 3 | 2400 | 308 | 3.00 |
| Mar. 30 | 2200 | *485 | *3.43 | May 21 | 0100 | 277 | 2.91 |
| Apr. 24 | 0700 | 290 | 2.95 | | | | |

Minimum daily discharge, 7.0 ft³/s Dec. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|------|-------|-------|-------|------|-------|------|------|
| 1 | 11 | 13 | e14 | 17 | 20 | 135 | 237 | 179 | 178 | 32 | 20 | 12 |
| 2 | 11 | 13 | e14 | 17 | 22 | 134 | 229 | 208 | 167 | 31 | 19 | 12 |
| 3 | 11 | 12 | e15 | 17 | 22 | 136 | 196 | 248 | 155 | 31 | 19 | 12 |
| 4 | 11 | 12 | e16 | 17 | 20 | 144 | 180 | 279 | 147 | 30 | 19 | 12 |
| 5 | 11 | 15 | e17 | e16 | 18 | 155 | 172 | 225 | 136 | 30 | 16 | 12 |
| 6 | 11 | 14 | e16 | e14 | 20 | 167 | 178 | 212 | 120 | 29 | 15 | 11 |
| 7 | 13 | 15 | e15 | e11 | 17 | 177 | 200 | 186 | 110 | 30 | 15 | 12 |
| 8 | 15 | 17 | e15 | e9.0 | 12 | 295 | 195 | 179 | 108 | 32 | 16 | 13 |
| 9 | 16 | 16 | e14 | e8.6 | 12 | 283 | 198 | 166 | 103 | 27 | 16 | 18 |
| 10 | 14 | 13 | e13 | e9.0 | 10 | 190 | 195 | 161 | 95 | 27 | 16 | 22 |
| 11 | 14 | 16 | e9.0 | e8.6 | 12 | 152 | 208 | 154 | 88 | 27 | 15 | 16 |
| 12 | 13 | 16 | e7.1 | e8.5 | 14 | 132 | 205 | 142 | 82 | 26 | 14 | 15 |
| 13 | 13 | 16 | e7.0 | e9.0 | 16 | 121 | 205 | 142 | 69 | 25 | 14 | 14 |
| 14 | 13 | 15 | e8.8 | e12 | 18 | 110 | 195 | 154 | 69 | 24 | 14 | 13 |
| 15 | 12 | 14 | e8.2 | e14 | 27 | 98 | 180 | 147 | 64 | 24 | 14 | 13 |
| 16 | 12 | 14 | e7.6 | 16 | 48 | 91 | 196 | 151 | 60 | 30 | 14 | 13 |
| 17 | 12 | 15 | e8.6 | 17 | 48 | 89 | 176 | 151 | 57 | 38 | 13 | 13 |
| 18 | 12 | 15 | e11 | 17 | 82 | 81 | 165 | 164 | 54 | 30 | 12 | 16 |
| 19 | 12 | 11 | e12 | 17 | 154 | 77 | 154 | 192 | 51 | 27 | 13 | 17 |
| 20 | 12 | 11 | e14 | 17 | 126 | 80 | 163 | 223 | 49 | 26 | 13 | 27 |
| 21 | 12 | 10 | e15 | 16 | 85 | 93 | 195 | 240 | 47 | 25 | 26 | 20 |
| 22 | 14 | 9.6 | 16 | 16 | 69 | 119 | 227 | 221 | 46 | 25 | 18 | 17 |
| 23 | 16 | 8.5 | 17 | 17 | 103 | 152 | 247 | 183 | 44 | 26 | 15 | 15 |
| 24 | 20 | 7.9 | 16 | 16 | 146 | 184 | 270 | 172 | 41 | 29 | 18 | 20 |
| 25 | 19 | 8.0 | 16 | 15 | 145 | 167 | 250 | 182 | 40 | 30 | 14 | 30 |
| 26 | 16 | e10 | 16 | 14 | 147 | 167 | 219 | 201 | 39 | 31 | 13 | 26 |
| 27 | 14 | e14 | 16 | 14 | 152 | 216 | 200 | 212 | 36 | 24 | 12 | 29 |
| 28 | 14 | e16 | 16 | 15 | 141 | 277 | 188 | 209 | 35 | 25 | 12 | 30 |
| 29 | 14 | e17 | 15 | 15 | --- | 338 | 189 | 205 | 34 | 22 | 14 | 25 |
| 30 | 13 | e16 | 16 | 15 | --- | 369 | 179 | 196 | 33 | 22 | 17 | 27 |
| 31 | 13 | --- | 16 | 18 | --- | 267 | --- | 186 | --- | 21 | 13 | --- |
| TOTAL | 414 | 400.0 | 417.3 | 442.7 | 1706 | 5196 | 5991 | 5870 | 2357 | 856 | 479 | 532 |
| MEAN | 13.4 | 13.3 | 13.5 | 14.3 | 60.9 | 168 | 200 | 189 | 78.6 | 27.6 | 15.5 | 17.7 |
| MAX | 20 | 17 | 17 | 18 | 154 | 369 | 270 | 279 | 178 | 38 | 26 | 30 |
| MIN | 11 | 7.9 | 7.0 | 8.5 | 10 | 77 | 154 | 142 | 33 | 21 | 12 | 11 |
| ACFT | 821 | 793 | 828 | 878 | 3380 | 10310 | 11880 | 11640 | 4680 | 1700 | 950 | 1060 |
| CAL YR 1985 | TOTAL | 13023.3 | MEAN | 35.7 | MAX | 393 | MIN | 5.0 | ACFT | 25830 | | |
| WTR YR 1986 | TOTAL | 24661.0 | MEAN | 67.6 | MAX | 369 | MIN | 7.0 | ACFT | 48920 | | |

e Estimated.

BEAR RIVER BASIN

233

10086000 ONEIDA NARROWS RESERVOIR AT ONEIDA, ID

LOCATION.--Lat 42°16'34", long 111°44'56", in SW1/4NW1/4SE1/4 sec.23, T.13 S, R.40 E., Franklin County, Hydrologic Unit 16010202, 6 mi south of Cleveland.

PERIOD OF RECORD.--October 1914 to current year. Prior to 1986, published in reports of Bear River Commission.

COOPERATION.--Records provided by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 10,990 acre-ft June 26, elevation, 4,883.22 ft; minimum, 2,340 acre-ft Sept. 30, elevation, 4,852.68 ft.

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
INSTANTANEOUS VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | 10280 | 10240 | 7580 | 10230 | 10200 | 10630 | 10220 | 9810 | 10610 | 10980 | 9900 | 10590 |
| 2 | 10210 | 9660 | 7250 | 10250 | 10250 | 10630 | 10220 | 9910 | 10630 | 10820 | 10600 | 10600 |
| 3 | 9930 | 9420 | 7600 | 10260 | 10490 | 10560 | 10060 | 10100 | 10630 | 10740 | 10500 | 10040 |
| 4 | 9940 | 8830 | 7990 | 10190 | 10240 | 10480 | 9940 | 10200 | 10530 | 10820 | 10460 | 8520 |
| 5 | 10020 | 8910 | 8820 | 9990 | 10150 | 10470 | 9950 | 10150 | 10280 | 10920 | 10180 | 8420 |
| 6 | 10150 | 8250 | 9340 | 10270 | 10280 | 10400 | 9910 | 10080 | 10230 | 10950 | 10040 | 8220 |
| 7 | 10290 | 8500 | 9970 | 10210 | 10280 | 10580 | 9910 | 10050 | 10230 | 10920 | 10150 | 8530 |
| 8 | 10490 | 7860 | 10560 | 10050 | 10140 | 10570 | 9800 | 10250 | 10260 | 10690 | 10120 | 7880 |
| 9 | 10590 | 7930 | 9820 | 10530 | 10030 | 10710 | 9640 | 10430 | 10260 | 10890 | 9880 | 7800 |
| 10 | 10570 | 7010 | 9350 | 10350 | 10320 | 10410 | 9500 | 10460 | 9780 | 10800 | 10480 | 7360 |
| 11 | 10520 | 6410 | 9330 | 10230 | 10080 | 10560 | 9780 | 10710 | 10060 | 10340 | 10370 | 6760 |
| 12 | 10380 | 5740 | 9430 | 10230 | 10460 | 10160 | 9940 | 10580 | 10160 | 10410 | 10330 | 6180 |
| 13 | 10240 | 6110 | 9740 | 10170 | 10330 | 10230 | 10210 | 10410 | 10150 | 10360 | 10260 | 5610 |
| 14 | 10090 | 6300 | 10040 | 10210 | 10440 | 10110 | 10180 | 10470 | 9960 | 10130 | 10330 | 5340 |
| 15 | 9950 | 7080 | 9880 | 10280 | 10900 | 9890 | 10190 | 10580 | 9900 | 10060 | 10640 | 5000 |
| 16 | 10100 | 6760 | 10430 | 10380 | 10370 | 10160 | 10340 | 10540 | 9930 | 10410 | 10480 | 4680 |
| 17 | 10290 | 7720 | 9610 | 10460 | 10020 | 10030 | 10370 | 10480 | 10110 | 10210 | 10500 | 4360 |
| 18 | 10420 | 7800 | 10010 | 10310 | 10210 | 9920 | 10200 | 10380 | 10230 | 10300 | 10410 | 4610 |
| 19 | 10400 | 7410 | 10220 | 10280 | 10420 | 10010 | 10040 | 10230 | 10290 | 10540 | 10410 | 5150 |
| 20 | 10370 | 7260 | 10150 | 10280 | 10080 | 9920 | 9990 | 9800 | 10110 | 10640 | 10310 | 5420 |
| 21 | 10360 | 7110 | 9620 | 10240 | 10190 | 10120 | 10160 | 9890 | 10420 | 10530 | 10310 | 5540 |
| 22 | 10430 | 7470 | 10130 | 10250 | 10160 | 10070 | 10080 | 9910 | 10690 | 10360 | 10280 | 5680 |
| 23 | 10390 | 7330 | 9930 | 10160 | 10150 | 10140 | 10230 | 9980 | 10750 | 10450 | 10520 | 4910 |
| 24 | 10440 | 7990 | 10160 | 10050 | 10510 | 9900 | 10410 | 10090 | 10780 | 10610 | 10600 | 3800 |
| 25 | 10440 | 7060 | 9840 | 9970 | 10120 | 10150 | 10440 | 10270 | 10760 | 10200 | 10460 | 3310 |
| 26 | 10450 | 7110 | 10310 | 9880 | 10640 | 9960 | 10420 | 10460 | 10990 | 10460 | 10460 | 3320 |
| 27 | 10430 | 7410 | 10070 | 9840 | 10570 | 10190 | 10280 | 10670 | 10940 | 10390 | 10270 | 4280 |
| 28 | 10450 | 7850 | 9870 | 9880 | 10420 | 10130 | 10080 | 10790 | 10970 | 10390 | 10490 | 4360 |
| 29 | 10560 | 7630 | 9920 | 10160 | --- | 10230 | 9870 | 10770 | 10860 | 10430 | 10610 | 4070 |
| 30 | 10380 | 7170 | 10030 | 10530 | --- | 10320 | 9870 | 10720 | 10930 | 10390 | 10660 | 2340 |
| 31 | 10280 | --- | 10460 | 10320 | --- | 10510 | --- | 10610 | --- | 10740 | 10850 | --- |
| MAX | 10590 | 10240 | 10560 | 10530 | 10900 | 10710 | 10440 | 10790 | 10990 | 10980 | 10850 | 10600 |
| MIN | 9930 | 5740 | 7250 | 9840 | 10020 | 9890 | 9500 | 9800 | 9780 | 10060 | 9880 | 2340 |
| (#) | 4881.20 | 4871.64 | 4881.72 | 4881.31 | 4881.61 | 4881.85 | 4880.03 | 4882.15 | 4883.05 | 4882.52 | 4882.81 | 4852.68 |
| (*) | +160 | -3110 | +3290 | -140 | +100 | +90 | -640 | +740 | +320 | -190 | +110 | -8510 |

WTR YR 1986 (*) -7780

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

10086500 BEAR RIVER BELOW UTAH POWER & LIGHT CO.'S TAILRACE, AT ONEIDA, ID

LOCATION.--Lat $42^{\circ}16'00''$, long $111^{\circ}45'04''$, 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 mi².

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 except for estimated daily discharges, which are fair. 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.--65 years, 908 ft³/s, 657,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,480 ft³/s May 8, 1922; minimum, 3.0 ft³/s June 13, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,370 ft³/s June 13, gage height, 9.00 ft; minimum daily, 531 ft³/s Nov. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|--------|--------|--------|--------|--------|---------|--------|--------|
| 1 | 804 | 1300 | 1160 | 1360 | 1680 | 2660 | 3760 | 2930 | 3120 | e3690 | 1440 | 1390 |
| 2 | 1130 | 1350 | 1910 | 1290 | 1170 | 3020 | 3660 | 2790 | 3080 | e3480 | 1800 | 2680 |
| 3 | 969 | 1230 | 1170 | 1300 | e1270 | 2740 | 3750 | 2940 | 3070 | e3320 | 1670 | 2540 |
| 4 | 920 | 1360 | 1300 | 1290 | e1550 | 2970 | 3690 | 3020 | 3060 | e3050 | 1730 | 2840 |
| 5 | 935 | 1190 | 538 | 1200 | e1440 | 2810 | 3520 | 3040 | 3160 | e3240 | 1640 | 2310 |
| 6 | 952 | 1190 | 1240 | 1160 | e1300 | 2190 | 3360 | 3000 | 3070 | e3380 | 1930 | 2790 |
| 7 | 981 | 930 | 653 | 1230 | e1440 | 2580 | 3250 | 3000 | 3050 | e3410 | 1410 | 1380 |
| 8 | 1010 | 1310 | 1670 | 1030 | e1440 | 2920 | 3180 | 3030 | 3230 | 3100 | 2830 | 2770 |
| 9 | 1110 | 1620 | 1230 | 1100 | e1370 | 3190 | 3110 | 3120 | 3460 | 3140 | 1390 | 2500 |
| 10 | 1180 | 1720 | 1860 | 1310 | e1250 | 3570 | 3000 | 3180 | 3500 | 2970 | 2010 | 2730 |
| 11 | 1150 | 1020 | 1050 | 1220 | e1600 | 3210 | 2880 | 3390 | 3210 | 2560 | 1520 | 2710 |
| 12 | 1200 | 1420 | 959 | 1210 | e1120 | 3610 | 2800 | 3460 | 3250 | 2360 | 1540 | 2690 |
| 13 | 1200 | 1450 | 928 | 1240 | e1550 | 3250 | 3030 | 3380 | 3620 | 2630 | 1690 | 2670 |
| 14 | 1190 | 776 | 987 | 1230 | e1620 | 3310 | 3030 | 3210 | 4070 | 2080 | 2340 | 2650 |
| 15 | 1130 | 1030 | 1210 | 1230 | e1400 | 2710 | 2970 | 3150 | 4020 | 1230 | 2220 | 2630 |
| 16 | 978 | 616 | 796 | 1230 | e2450 | 2920 | 2920 | 3130 | 3830 | 2060 | 1560 | 2610 |
| 17 | 836 | 902 | 1400 | 1380 | e2330 | 2940 | 3010 | 3120 | 3790 | 2160 | 1560 | 2590 |
| 18 | 987 | 1670 | 1270 | 1440 | e2410 | 2350 | 2990 | 3110 | 3670 | 1730 | 1420 | 2580 |
| 19 | 1060 | 754 | 978 | 1380 | e2670 | 2750 | 2920 | 3100 | 3660 | 1420 | 1870 | 2640 |
| 20 | 1050 | 1930 | 1510 | 1380 | e3190 | 3100 | 2800 | 2980 | e3920 | 1780 | 1830 | 2730 |
| 21 | 1000 | 673 | 1170 | 1330 | 2320 | 2960 | 2590 | 3020 | e3710 | 2090 | 2120 | 2780 |
| 22 | 1080 | 951 | 1250 | 1230 | 2030 | 2820 | 2720 | 3030 | e3670 | 1370 | 1640 | 2820 |
| 23 | 1080 | 1330 | 1120 | 1400 | 2170 | 2490 | 2630 | 3040 | e3940 | 1830 | 1480 | 2880 |
| 24 | 1050 | 531 | 1210 | 1460 | 2190 | 2520 | 2750 | 3050 | e3820 | 1940 | 1560 | 2740 |
| 25 | 1050 | 1530 | 1280 | 1310 | 2320 | 2530 | 3010 | 3060 | e4060 | 2650 | 2810 | 2710 |
| 26 | 1110 | 909 | 1310 | 1300 | 1910 | 2820 | 3170 | 3070 | e3920 | 1930 | 2160 | 2150 |
| 27 | 1140 | 1140 | 1220 | 1300 | 2560 | 2810 | 3200 | 3080 | e3760 | 1400 | 2300 | 1730 |
| 28 | 1130 | 888 | 1380 | 1130 | 2780 | 2960 | 3170 | 3140 | e4040 | 1600 | 1540 | 1690 |
| 29 | 1200 | 1310 | 1160 | 1090 | --- | 3090 | 3040 | 3230 | e3840 | 1990 | 2580 | 1670 |
| 30 | 1100 | 1110 | 1210 | 1080 | --- | 3090 | 2970 | 3210 | e3710 | 1960 | 2600 | 1740 |
| 31 | 1390 | --- | 1240 | 1810 | --- | 3260 | --- | 3190 | --- | 1540 | 2520 | --- |
| TOTAL | 33102 | 35140 | 37369 | 39650 | 52530 | 90150 | 92880 | 96200 | 107310 | 73090 | 58710 | 73340 |
| MEAN | 1068 | 1171 | 1205 | 1279 | 1876 | 2908 | 3096 | 3103 | 3577 | 2358 | 1894 | 2445 |
| MAX | 1390 | 1930 | 1910 | 1810 | 3190 | 3610 | 3760 | 3460 | 4070 | 3690 | 2830 | 2880 |
| MIN | 804 | 531 | 538 | 1030 | 1120 | 2190 | 2590 | 2790 | 3050 | 1230 | 1390 | 1380 |
| ACFT | 65660 | 69700 | 74120 | 78650 | 104200 | 178800 | 184200 | 190800 | 212800 | 145000 | 116500 | 145500 |
| CAL YR 1985 | TOTAL | 489760 | MEAN | 1342 | MAX | 4260 | MIN | 297 | ACFT | 971400 | | |
| WTR YR 1986 | TOTAL | 789471 | MEAN | 2163 | MAX | 4070 | MIN | 531 | ACFT | 1566000 | | |

e Estimated.

BEAR RIVER BASIN

235

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 mi².

PERIOD OF RECORD.--October 1889 to December 1916, January to September 1917 (gage heights only), October 1943 to September 1986 (discontinued). 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.--43 years (water years 1944-86), 985 ft³/s, 713,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD (since 1943).--Maximum discharge, 4,900 ft³/s June 12, 1986, gage height, 5.61 ft; no flow Sept. 10-11, 1980.

1889-1917: Maximum flood occurred June 9, 10, 1907 about 8,500 ft³/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, 4,900 ft³/s June 12, gage height, 5.61 ft; minimum daily discharge, 394 ft³/s Nov. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|--------|-------|--------|--------|--------|--------|--------|---------|--------|--------|
| 1 | 884 | 999 | 1100 | e1200 | 1450 | 2870 | 3430 | 3360 | 3920 | 3850 | 2310 | 2490 |
| 2 | 1240 | 1530 | 1520 | e1350 | 1100 | 2950 | 3340 | 3210 | 3860 | 3570 | 1620 | 2260 |
| 3 | 1150 | 1240 | 1340 | e1300 | 1380 | 3050 | 3410 | 3400 | 3880 | 3450 | 2040 | 2600 |
| 4 | 1000 | 1390 | 1040 | e1270 | 1280 | 2960 | 3360 | 3550 | 3930 | 3280 | 2040 | 2540 |
| 5 | 983 | 1240 | 836 | e1250 | 1490 | 2850 | 3300 | 3570 | 3900 | 3300 | 2220 | 2340 |
| 6 | 993 | 1310 | 1170 | e1210 | 1300 | 2260 | 3300 | 3520 | 3820 | 3320 | 1980 | 2140 |
| 7 | 1020 | 967 | 649 | e1200 | 1170 | 2630 | 3270 | 3500 | 3940 | 3320 | 1970 | 2210 |
| 8 | 1040 | 1340 | 1270 | e1200 | 1470 | 3010 | 3200 | 3570 | 4180 | 3150 | 1940 | 2510 |
| 9 | 1120 | 1500 | 1380 | e930 | 1480 | 3550 | 3130 | 3660 | 4260 | 2860 | 1770 | 2270 |
| 10 | 1200 | 1440 | 1850 | e1100 | 1250 | 3500 | 3040 | 3730 | 4010 | 2860 | 1730 | 2490 |
| 11 | 1180 | 1320 | 940 | e1240 | 1390 | 3290 | 2920 | 3920 | 3970 | 2650 | 2280 | 2470 |
| 12 | 1240 | 1430 | 1100 | e1190 | 1200 | 3470 | 2890 | 3990 | 4390 | 2290 | 1990 | 2450 |
| 13 | 1230 | 1110 | 1110 | e1150 | 1420 | 3050 | 3090 | 3910 | 4750 | 2000 | 1970 | 2370 |
| 14 | 1230 | 879 | 956 | e1140 | 1340 | 2630 | 3170 | 3750 | 4660 | 2060 | 2040 | 2410 |
| 15 | 1180 | 811 | 1040 | e1170 | 1600 | 2270 | 3180 | 3670 | 4520 | 2030 | 1860 | 2400 |
| 16 | 1020 | 1100 | 1740 | e1200 | 2540 | 2680 | 3170 | 3660 | 4480 | 2100 | 1890 | 2390 |
| 17 | 895 | 769 | 1870 | 1200 | 2480 | 2860 | 3250 | 3640 | 4260 | 2010 | 2050 | 2380 |
| 18 | 1020 | 1280 | 1640 | 1280 | 3340 | 2750 | 3220 | 3630 | 4420 | 1840 | 2270 | 2400 |
| 19 | 1090 | 1030 | 952 | 1220 | 3670 | 2640 | 3140 | 3600 | 4400 | 1380 | 2030 | 2480 |
| 20 | 1090 | 1620 | 1560 | 1240 | 3480 | 2330 | 3030 | 3480 | 4200 | 2020 | 1810 | 2550 |
| 21 | 1060 | 976 | e1420 | 1200 | 2680 | 2410 | 2830 | 3560 | 4080 | 1780 | 2240 | 2590 |
| 22 | 1110 | 914 | e1200 | 1120 | 2210 | 2280 | 3000 | 3670 | 4190 | 1790 | 1690 | 2670 |
| 23 | 1130 | 1230 | e1100 | 1210 | 2710 | 2600 | 2970 | 3730 | 4290 | 1590 | 2090 | 2810 |
| 24 | 1100 | 394 | e1080 | 1330 | 2840 | 2580 | 3200 | 3730 | 4330 | 1470 | 2260 | 2680 |
| 25 | 1100 | 1690 | e1150 | 1160 | 2770 | 2700 | 3510 | 3720 | 4390 | 2240 | 2460 | 2700 |
| 26 | 1160 | 874 | e1090 | 1170 | 2610 | 2810 | 3650 | 3760 | 4210 | 1600 | 2190 | 2230 |
| 27 | 1180 | 951 | e1000 | 1130 | 3030 | 2680 | 3640 | 3830 | 4070 | 2290 | 2360 | 1800 |
| 28 | 1020 | 835 | e1010 | 1020 | 2970 | 2850 | 3660 | 3990 | 4200 | 2100 | 2130 | 1760 |
| 29 | 1240 | 1210 | e1050 | 973 | --- | 2850 | 3550 | 4050 | 4050 | 2320 | 2160 | 1720 |
| 30 | 1350 | 1380 | e1080 | 949 | --- | 2970 | 3410 | 4030 | 3850 | 2160 | 2300 | 1750 |
| 31 | 1450 | --- | e1110 | 1610 | --- | 2900 | --- | 4010 | --- | 1890 | 2090 | --- |
| TOTAL | 34705 | 34759 | 37353 | 36912 | 57650 | 87230 | 97260 | 114400 | 125410 | 74570 | 63780 | 70860 |
| MEAN | 1120 | 1159 | 1205 | 1191 | 2059 | 2814 | 3242 | 3690 | 4180 | 2405 | 2057 | 2362 |
| MAX | 1450 | 1690 | 1870 | 1610 | 3670 | 3550 | 3660 | 4050 | 4750 | 3850 | 2460 | 2810 |
| MIN | 884 | 394 | 649 | 930 | 1100 | 2260 | 2830 | 3210 | 3820 | 1380 | 1620 | 1720 |
| ACFT | 68840 | 68940 | 74090 | 73210 | 114300 | 173000 | 192900 | 226900 | 248800 | 147900 | 126500 | 140600 |
| CAL YR 1985 | TOTAL | | 498615 | MEAN | | 1366 | MAX | | 4540 | MIN | | 97 |
| WTR YR 1986 | TOTAL | | 834889 | MEAN | | 2287 | MAX | | 4750 | MIN | | 394 |
| | | | | | | | | ACFT | | 989000 | | |
| | | | | | | | | ACFT | | 1656000 | | |

e Estimated.

BEAR RIVER BASIN

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 mi².

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. Sept. 10, 1982 to Sept. 30, 1985 at datum 10.0 ft lower.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--16 years, 1,457 ft³/s, 1,056,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,870 ft³/s June 14, 1984, gage height, 9.20 ft, at datum then in use; minimum observed, 73 ft³/s June 29, 1978. Maximum gage height, 19.19 ft, Feb. 19, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,840 ft³/s Feb. 19, gage height, 19.19 ft; minimum daily, 637 ft³/s Nov. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|--------|--------|--------|--------|--------|---------|--------|--------|
| 1 | 1190 | 1280 | 1240 | e1330 | 1760 | 3390 | 3550 | 3780 | 4110 | 3990 | 2520 | 2480 |
| 2 | 1040 | 1490 | 1830 | e1480 | 1550 | 3550 | 3750 | 3690 | 4040 | 3890 | 1640 | 2390 |
| 3 | 1250 | 1420 | 1430 | e1450 | 1380 | 3430 | 3790 | 3660 | 4020 | 3690 | 1990 | 2680 |
| 4 | 1090 | 1280 | 1640 | e1400 | 1630 | 3470 | 3770 | 3820 | 4020 | 3460 | 1920 | 2690 |
| 5 | 1040 | 1200 | 1160 | e1350 | 1680 | 3320 | 3680 | 3930 | 4080 | 3470 | 2030 | 2480 |
| 6 | 1040 | 1430 | 1120 | e1300 | 1570 | 2820 | 3670 | 3900 | 4040 | 3480 | 1980 | 2510 |
| 7 | 1080 | 1070 | 1190 | e1280 | 1490 | 3070 | 3660 | 3880 | 4030 | 3470 | 1820 | 2190 |
| 8 | 1090 | 1400 | 1290 | e1280 | 1470 | 3360 | 3590 | 3930 | 4210 | 3410 | 1850 | 2640 |
| 9 | 1150 | 1090 | 2010 | e1230 | 1460 | 3790 | 3530 | 3950 | 4390 | 3050 | 1920 | 2460 |
| 10 | 1240 | 1640 | 1820 | e1220 | 1330 | 3970 | 3510 | 4040 | 4350 | 3070 | 1570 | 2690 |
| 11 | 1310 | 1480 | 1540 | e1290 | 1620 | 3750 | 3370 | 4050 | 4060 | 2920 | 1940 | 2680 |
| 12 | 1270 | 1390 | e1200 | e1280 | 1280 | 3940 | 3310 | 4250 | 4210 | 2510 | 1880 | 2660 |
| 13 | 1310 | 1030 | e1220 | e1250 | 1630 | 3630 | 3360 | 4250 | 4620 | 2470 | 1940 | 2640 |
| 14 | 1310 | 1100 | e1150 | e1230 | 1560 | 3430 | 3480 | 4150 | 4680 | 2300 | 1840 | 2620 |
| 15 | 1310 | 865 | e1400 | e1260 | 1970 | 2710 | 3500 | 4020 | 4550 | 2190 | 1780 | 2600 |
| 16 | 1210 | 1220 | e1800 | e1280 | 3320 | 3050 | 3500 | 3980 | 4490 | 2030 | 1960 | 2580 |
| 17 | 1070 | 637 | e1930 | e1350 | 3500 | 3300 | 3550 | 3970 | 4430 | 2240 | 1850 | 2560 |
| 18 | 995 | 968 | e1900 | e1380 | 4110 | 3220 | 3560 | 3950 | 4290 | 2010 | 1960 | 2580 |
| 19 | 1090 | 1670 | e1700 | e1330 | 4600 | 3050 | 3500 | 3940 | 4390 | 1980 | 1920 | 2630 |
| 20 | 1180 | 1350 | e1700 | e1310 | 4710 | 3000 | 3400 | 3880 | 4350 | 1830 | 1940 | 2720 |
| 21 | 1160 | 1650 | e1700 | e1270 | 3720 | 2720 | 3180 | 3810 | 4140 | 1740 | 1960 | 2770 |
| 22 | 1150 | 916 | e1510 | e1270 | 3480 | 2840 | 3290 | 3940 | 4170 | 1850 | 2070 | 2800 |
| 23 | 1220 | 1320 | e1300 | e1320 | 3380 | 2860 | 3270 | 4000 | 4310 | 1650 | 1980 | 2990 |
| 24 | 1180 | 1230 | e1250 | e1410 | 3490 | 3100 | 3470 | 3960 | 4350 | 1670 | 2210 | 2890 |
| 25 | 1170 | 1550 | e1300 | e1350 | 3580 | 2970 | 3710 | 3920 | 4410 | 1930 | 2310 | 2890 |
| 26 | 1190 | 1330 | e1300 | e1250 | 3170 | 3230 | 4010 | 3920 | 4380 | 1870 | 2230 | 2730 |
| 27 | 1230 | e1020 | e1130 | e1190 | 3580 | 3080 | 4020 | 3960 | 4230 | 2230 | 2380 | 2010 |
| 28 | 1240 | e1100 | e1120 | e1150 | 3550 | 3220 | 4000 | 4050 | 4200 | 2200 | 2170 | 1990 |
| 29 | 1080 | 1330 | e1130 | e1110 | --- | 3210 | 3990 | 4140 | 4250 | 2150 | 2230 | 1850 |
| 30 | 1310 | 1860 | e1200 | e1140 | --- | 3270 | 3850 | 4140 | 4090 | 2190 | 2400 | 1940 |
| 31 | 1210 | --- | e1280 | 1580 | --- | 3430 | --- | 4150 | --- | 1980 | 2310 | --- |
| TOTAL | 36405 | 38316 | 44490 | 40320 | 71570 | 101180 | 107820 | 123010 | 127890 | 78920 | 62500 | 76340 |
| MEAN | 1174 | 1277 | 1435 | 1301 | 2556 | 3264 | 3594 | 3968 | 4263 | 2546 | 2016 | 2545 |
| MAX | 1310 | 1860 | 2010 | 1580 | 4710 | 3970 | 4020 | 4250 | 4680 | 3990 | 2520 | 2990 |
| MIN | 995 | 637 | 1120 | 1110 | 1280 | 2710 | 3180 | 3660 | 4020 | 1650 | 1570 | 1850 |
| ACFT | 72210 | 76000 | 88250 | 79970 | 142000 | 200700 | 213900 | 244000 | 253700 | 156500 | 124000 | 151400 |
| CAL YR 1985 | TOTAL | 548126 | MEAN | 1502 | MAX | 4720 | MIN | 110 | ACFT | 1087000 | | |
| WTR YR 1986 | TOTAL | 908761 | MEAN | 2490 | MAX | 4710 | MIN | 637 | ACFT | 1803000 | | |

e Estimated.

BEAR RIVER BASIN

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 mi².

PERIOD OF RECORD.--March 1940 to September 1952, October 1955 to September 1986 (discontinued).

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 except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--43 years, 87.6 ft³/s, 63,470 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,070 ft³/s June 4, 1986, gage height, 3.95 ft; no flow for part of Jan. 29, 1965, result of snowslide.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,070 ft³/s June 4, gage height, 3.95 ft; minimum daily discharge, 16 ft³/s Jan. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|-------|-------|-------|------|------|
| 1 | 28 | 25 | 22 | 18 | 22 | 59 | 163 | 154 | 793 | 320 | 87 | 50 |
| 2 | 28 | 25 | 22 | 18 | 22 | 60 | 156 | 173 | 900 | 298 | 85 | 50 |
| 3 | 31 | 24 | 23 | 18 | 22 | 59 | 140 | 217 | 1000 | 281 | 83 | 49 |
| 4 | 30 | 24 | 22 | 18 | 21 | 62 | 130 | 271 | 1020 | 271 | 81 | 48 |
| 5 | 29 | 25 | 22 | 18 | 21 | 66 | 120 | 268 | 1010 | 256 | 78 | 48 |
| 6 | 27 | 25 | 22 | e17 | 20 | 67 | 114 | 242 | 973 | 237 | 77 | 47 |
| 7 | 29 | 25 | 22 | e16 | 20 | 67 | 117 | 213 | 915 | 221 | 75 | 47 |
| 8 | 28 | 25 | 22 | e16 | e18 | 87 | 116 | 199 | 880 | 207 | 73 | 46 |
| 9 | 29 | 25 | 21 | e17 | e18 | 105 | 117 | 184 | 793 | 199 | 73 | 47 |
| 10 | 27 | 24 | e19 | 17 | 19 | 85 | 114 | 177 | 731 | 188 | 71 | 45 |
| 11 | 27 | 25 | e17 | 17 | 19 | 73 | 114 | 179 | 685 | 177 | 70 | 45 |
| 12 | 28 | 24 | e17 | 17 | 19 | 64 | 117 | 168 | 699 | 168 | 69 | 44 |
| 13 | 27 | 24 | e18 | 17 | 20 | 59 | 115 | 164 | 722 | 157 | 67 | 43 |
| 14 | 27 | 24 | 20 | 17 | 19 | 54 | 112 | 165 | 737 | 152 | 67 | 43 |
| 15 | 25 | 23 | 20 | 18 | 25 | 51 | 109 | 167 | 736 | 146 | 65 | 42 |
| 16 | 25 | 23 | 20 | 18 | 30 | 49 | 113 | 166 | 728 | 141 | 65 | 42 |
| 17 | 25 | 23 | 20 | 19 | 35 | 47 | 112 | 165 | 714 | 138 | 64 | 41 |
| 18 | 24 | 23 | 19 | 19 | 58 | 44 | 107 | 175 | 701 | 131 | 62 | 41 |
| 19 | 24 | 23 | 19 | 19 | 88 | 42 | 104 | 204 | 670 | 126 | 62 | 40 |
| 20 | 25 | 23 | 19 | 20 | 63 | 42 | 98 | 264 | 657 | 121 | 61 | 40 |
| 21 | 25 | 23 | 19 | 19 | 45 | 42 | 104 | 343 | 624 | 120 | 61 | 39 |
| 22 | 26 | 23 | 19 | 19 | 34 | 47 | 128 | 425 | 584 | 117 | 59 | 39 |
| 23 | 27 | e22 | e19 | 19 | 46 | 53 | 199 | 376 | 540 | 115 | 58 | 38 |
| 24 | 25 | 23 | 19 | 18 | 58 | 63 | 251 | 314 | 498 | 113 | 58 | 41 |
| 25 | 24 | 24 | 19 | 18 | 63 | 69 | 243 | 313 | 467 | 110 | 56 | 41 |
| 26 | 24 | 22 | e19 | 18 | 67 | 66 | 221 | 399 | 438 | 107 | 54 | 40 |
| 27 | 25 | 22 | 19 | 18 | 66 | 71 | 195 | 519 | 414 | 106 | 53 | 39 |
| 28 | 25 | 23 | 20 | 18 | 61 | 83 | 191 | 604 | 392 | 101 | 53 | 38 |
| 29 | 25 | 23 | 19 | 18 | --- | 105 | 178 | 649 | 372 | 96 | 52 | 38 |
| 30 | 25 | 22 | 19 | 18 | --- | 131 | 160 | 754 | 346 | 93 | 52 | 38 |
| 31 | 25 | --- | 18 | 20 | --- | 161 | --- | 765 | --- | 90 | 51 | --- |
| TOTAL | 819 | 709 | 615 | 557 | 1019 | 2133 | 4258 | 9376 | 20739 | 5103 | 2042 | 1289 |
| MEAN | 26.4 | 23.6 | 19.8 | 18.0 | 36.4 | 68.8 | 142 | 302 | 691 | 165 | 65.9 | 43.0 |
| MAX | 31 | 25 | 23 | 20 | 88 | 161 | 251 | 765 | 1020 | 320 | 87 | 50 |
| MIN | 24 | 22 | 17 | 16 | 18 | 42 | 98 | 154 | 346 | 90 | 51 | 38 |
| ACFT | 1620 | 1410 | 1220 | 1100 | 2020 | 4230 | 8450 | 18600 | 41140 | 10120 | 4050 | 2560 |
| CAL YR 1985 | TOTAL | 27581 | MEAN | 75.6 | MAX | 463 | MIN | 17 | ACFT | 54710 | | |
| WTR YR 1986 | TOTAL | 48659 | MEAN | 133 | MAX | 1020 | MIN | 16 | ACFT | 96520 | | |

e Estimated.

BEAR RIVER BASIN

239

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 mi².

PERIOD OF RECORD.--April to September 1944, April to September 1945 (monthly discharge only, published in WSP 1314), April 1946 to September 1952, February 1971 to September 1972, October 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,250 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--15 years (1946-52, 1972, 1979-86), 36.4 ft³/s, 26,370 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 702 ft³/s June 1, 1986, gage height, 3.58 ft; maximum gage height, 3.67 ft Feb. 1-15, 1972, backwater from ice; minimum observed, 2.6 ft/s Jan. 5, 1950, result of ice jam upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| Mar. 31 | 1900 | 113 | 2.09 | May 4 | 1200 | 146 | 2.29 |
| Apr. 24 | 0100 | 115 | 2.15 | June 1 | 2300 | *702 | *3.58 |

Minimum daily discharge, 8.5 ft³/s Jan. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|------|------|------|-------|------|------|-------|
| 1 | 12 | 11 | 11 | 9.5 | 14 | 43 | 98 | 80 | 377 | 100 | 28 | 9.9 |
| 2 | 10 | 9.8 | 11 | 9.5 | 14 | 43 | 82 | 92 | 474 | 104 | 27 | 10 |
| 3 | 10 | 9.7 | 11 | 9.4 | 14 | 42 | 72 | 113 | 357 | 104 | 27 | 10 |
| 4 | 10 | 11 | 11 | 9.1 | 13 | 43 | 68 | 127 | 386 | 103 | 26 | 10 |
| 5 | 10 | 12 | 11 | 9.1 | 13 | 44 | 68 | 109 | 359 | 95 | 25 | 11 |
| 6 | 10 | 12 | 11 | e8.9 | 13 | 44 | 72 | 99 | 311 | 82 | 25 | 11 |
| 7 | 12 | 12 | 11 | e8.7 | 12 | 44 | 72 | 83 | 248 | 78 | 24 | 11 |
| 8 | 13 | 12 | e11 | e8.7 | e11 | 58 | 66 | 75 | 223 | 76 | 23 | 12 |
| 9 | 11 | 12 | e10 | 8.8 | e11 | 86 | 63 | 71 | 175 | 77 | 23 | 13 |
| 10 | 11 | 10 | e9.6 | 8.8 | e10 | 66 | 61 | 72 | 145 | 72 | 22 | 14 |
| 11 | 11 | 11 | e9.2 | 8.6 | 9.8 | 55 | 61 | 81 | 145 | 65 | 22 | 14 |
| 12 | 11 | 11 | e9.0 | 8.5 | 9.4 | 49 | 59 | 83 | 152 | 59 | 21 | 14 |
| 13 | 11 | 11 | e8.9 | 8.7 | 9.5 | 45 | 59 | 80 | 158 | 57 | 20 | 13 |
| 14 | 9.7 | 11 | 9.1 | 9.0 | 9.7 | 42 | 56 | 80 | 164 | 56 | 20 | 13 |
| 15 | 9.4 | 11 | 9.1 | 9.3 | 14 | 39 | 59 | 75 | 167 | 56 | 19 | 13 |
| 16 | 9.3 | 11 | 9.1 | 9.2 | 18 | 36 | 61 | 70 | 166 | 56 | 18 | 13 |
| 17 | 8.8 | 11 | 9.2 | 11 | 24 | 33 | 61 | 67 | 164 | 55 | 17 | 12 |
| 18 | 8.8 | 11 | 10 | 11 | 55 | 30 | 57 | 69 | 162 | 51 | 17 | 12 |
| 19 | 8.8 | 11 | 10 | 12 | 74 | 29 | 53 | 85 | 162 | 48 | 17 | 12 |
| 20 | 8.8 | 11 | 10 | 13 | 58 | 27 | 51 | 116 | 147 | 46 | 17 | 12 |
| 21 | 9.8 | 10 | 10 | 13 | 38 | 27 | 52 | 148 | 145 | 44 | 15 | 12 |
| 22 | 12 | 9.7 | 10 | 13 | 25 | 30 | 64 | 152 | 132 | 43 | 16 | 12 |
| 23 | 12 | e9.8 | 10 | 12 | 26 | 34 | 104 | 128 | 128 | 41 | 15 | 10 |
| 24 | 13 | 10 | 9.2 | 11 | 29 | 39 | 111 | 124 | 128 | 39 | 14 | 13 |
| 25 | 13 | 12 | 9.1 | 11 | 42 | 44 | 103 | 136 | 123 | 39 | 14 | 15 |
| 26 | 13 | 12 | 9.1 | 11 | 49 | 40 | 96 | 175 | 118 | 37 | 13 | 14 |
| 27 | 13 | 11 | 8.9 | 11 | 48 | 41 | 84 | 229 | 115 | 38 | 12 | 13 |
| 28 | 13 | 11 | 8.8 | 11 | 45 | 48 | 84 | 236 | 110 | 35 | 12 | 13 |
| 29 | 12 | 11 | 8.8 | 11 | --- | 57 | 87 | 275 | 109 | 33 | 12 | 12 |
| 30 | 12 | 11 | 8.9 | 11 | --- | 70 | 80 | 367 | 105 | 30 | 12 | 13 |
| 31 | 11 | --- | 9.7 | 12 | --- | 107 | --- | 359 | --- | 29 | 11 | --- |
| TOTAL | 339.4 | 329.0 | 303.7 | 317.8 | 708.4 | 1435 | 2164 | 4056 | 5855 | 1848 | 584 | 366.9 |
| MEAN | 10.9 | 11.0 | 9.80 | 10.3 | 25.3 | 46.3 | 72.1 | 131 | 195 | 59.6 | 18.8 | 12.2 |
| MAX | 13 | 12 | 11 | 13 | 74 | 107 | 111 | 367 | 474 | 104 | 28 | 15 |
| MIN | 8.8 | 9.7 | 8.8 | 8.5 | 9.4 | 27 | 51 | 67 | 105 | 29 | 11 | 9.9 |
| ACFT | 673 | 653 | 602 | 630 | 1410 | 2850 | 4290 | 8050 | 11610 | 3670 | 1160 | 728 |

| | | | | | | | | | | |
|-------------|-------|---------|------|------|-----|-----|-----|-----|------|-------|
| CAL YR 1985 | TOTAL | 10384.9 | MEAN | 28.5 | MAX | 130 | MIN | 8.2 | ACFT | 20600 |
| WTR YR 1986 | TOTAL | 18307.2 | MEAN | 50.2 | MAX | 474 | MIN | 8.5 | ACFT | 36310 |

e Estimated.

BEAR RIVER BASIN

10104700 LITTLE BEAR RIVER BELOW DAVENPORT CREEK, NEAR AVON, UT

LOCATION.--Lat 41°30'43", long 111°48'37", in SW1/4SW1/4SW1/4 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 mi².

WATER-DISCHARGE RECORDS

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. Prior to Oct. 1, 1985 at datum 1.0 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are fair. A few small diversions for irrigation above station.

AVERAGE DISCHARGE.--26 years, 62.7 ft³/s, 45,430 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,540 ft³/s Feb. 19, 1986, gage height, 5.58 ft; minimum, 6.3 ft³/s Feb. 3, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,540 ft³/s Feb. 19, gage height, 5.58 ft; minimum discharge, 25 ft³/s Feb. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|------|------|
| 1 | e37 | e37 | 44 | 37 | 105 | 153 | 248 | 198 | 412 | 108 | 67 | 52 |
| 2 | e37 | e37 | 45 | 37 | 82 | 152 | 268 | 207 | 414 | 103 | 66 | 51 |
| 3 | e37 | e37 | 59 | 37 | 71 | 144 | 242 | 239 | 378 | 102 | 65 | 51 |
| 4 | e37 | e37 | 51 | 36 | 56 | 144 | 243 | 323 | 368 | 103 | 64 | 50 |
| 5 | e37 | e39 | 47 | 36 | 49 | 142 | 216 | 310 | 363 | 99 | 63 | 48 |
| 6 | e37 | e37 | 45 | 36 | 46 | 143 | 199 | 281 | 350 | 96 | 63 | 48 |
| 7 | e50 | e37 | 44 | 35 | 39 | 152 | 196 | 252 | 301 | 93 | 63 | 48 |
| 8 | e39 | e38 | 47 | 37 | 36 | 374 | 189 | 317 | 275 | 93 | 62 | 47 |
| 9 | e37 | e38 | 44 | 36 | 33 | 348 | 205 | 259 | 241 | 92 | 62 | 51 |
| 10 | e37 | e38 | 40 | 35 | 36 | 229 | 192 | 221 | 243 | 90 | 62 | 50 |
| 11 | e37 | e38 | 39 | 35 | 37 | 211 | 231 | 241 | 261 | 88 | 61 | 48 |
| 12 | e38 | e38 | 41 | 34 | 36 | 177 | 203 | 203 | 254 | 85 | 59 | 47 |
| 13 | e37 | e37 | 43 | 34 | 42 | 162 | 224 | 196 | 249 | 85 | 59 | 47 |
| 14 | e37 | e37 | 44 | 35 | 45 | 146 | 245 | 196 | 239 | 83 | 59 | 47 |
| 15 | e37 | e37 | 43 | 35 | 350 | 134 | 200 | 193 | 227 | 83 | 58 | 46 |
| 16 | e37 | e38 | 42 | 35 | 236 | 129 | 245 | 191 | 217 | 82 | 56 | 46 |
| 17 | e37 | e37 | 40 | 44 | 684 | 132 | 193 | 185 | 206 | 81 | 55 | 45 |
| 18 | e37 | e37 | 41 | 49 | 924 | 118 | 177 | 188 | 202 | 80 | 55 | 47 |
| 19 | e37 | e38 | 39 | 48 | 868 | 107 | 163 | 207 | 198 | 77 | 55 | 47 |
| 20 | e37 | e39 | 38 | 60 | 263 | 105 | 162 | 243 | 189 | 76 | 58 | 46 |
| 21 | e37 | e38 | 37 | 48 | 158 | 109 | 171 | 298 | 176 | 75 | 61 | 45 |
| 22 | 41 | e40 | 37 | 44 | 133 | 115 | 195 | 310 | 164 | 76 | 56 | 44 |
| 23 | 49 | e39 | 37 | 43 | 181 | 123 | 264 | 253 | 154 | 79 | 55 | 44 |
| 24 | 43 | 44 | 37 | 41 | 196 | 133 | 268 | 226 | 147 | 79 | 54 | 50 |
| 25 | 39 | 97 | 37 | 38 | 197 | 130 | 330 | 236 | 139 | 75 | 53 | 65 |
| 26 | e37 | 57 | 37 | 38 | 191 | 126 | 257 | 284 | 128 | 76 | 53 | 59 |
| 27 | e37 | 47 | 37 | 38 | 175 | 136 | 242 | 321 | 122 | 74 | 52 | 55 |
| 28 | e37 | 45 | 36 | 38 | 158 | 162 | 321 | 331 | 119 | 72 | 52 | 54 |
| 29 | e37 | 46 | 37 | 38 | --- | 186 | 392 | 350 | 115 | 71 | 52 | 52 |
| 30 | e37 | 45 | 37 | 62 | --- | 212 | 212 | 380 | 111 | 70 | 52 | 51 |
| 31 | e37 | --- | 37 | 142 | --- | 269 | --- | 418 | --- | 68 | 52 | --- |
| TOTAL | 1187 | 1249 | 1282 | 1341 | 5427 | 5103 | 6893 | 8057 | 6962 | 2614 | 1804 | 1481 |
| MEAN | 38.3 | 41.6 | 41.4 | 43.3 | 194 | 165 | 230 | 260 | 232 | 84.3 | 58.2 | 49.4 |
| MAX | 50 | 97 | 59 | 142 | 924 | 374 | 392 | 418 | 414 | 108 | 67 | 65 |
| MIN | 37 | 37 | 36 | 34 | 33 | 105 | 162 | 185 | 111 | 68 | 52 | 44 |
| ACFT | 2350 | 2480 | 2540 | 2660 | 10760 | 10120 | 13670 | 15980 | 13810 | 5180 | 3580 | 2940 |
| CAL YR 1985 | TOTAL | 25873 | MEAN | 70.9 | MAX | 356 | MIN | 36 | ACFT | 51320 | | |
| WTR YR 1986 | TOTAL | 43400 | MEAN | 119 | MAX | 924 | MIN | 33 | ACFT | 86080 | | |

e Estimated.

BEAR RIVER BASIN

243

10104900 EAST FORK LITTLE BEAR RIVER ABOVE RESERVOIR, NEAR AVON, UT

LOCATION.--Lat 41°31'06", long 111°42'49", in SE1/4NW1/4 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 mi².

PERIOD OF RECORD.--October 1963 to September 1986 (discontinued).

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 except for estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--23 years, 40.1 ft³/s, 29,050 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,110 ft³/s May 12, 1984, gage height, 3.98 ft; minimum, 2.2 ft³/s Feb. 26, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 472 ft³/s Mar. 31, gage height, 2.53 ft; minimum, 4.4 ft³/s Dec. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|------|------|-------|-------|------|-------|------|------|
| 1 | 10 | 8.8 | 10 | e9.6 | 17 | 111 | 238 | 234 | 127 | 30 | 19 | 13 |
| 2 | 9.9 | 8.6 | 11 | e9.6 | 18 | 111 | 224 | 253 | 122 | 29 | 18 | 13 |
| 3 | 9.7 | 8.6 | 11 | e9.8 | 18 | 108 | 183 | 279 | 116 | 30 | 18 | 13 |
| 4 | 9.7 | 8.6 | 11 | e9.4 | 17 | 108 | 163 | 311 | 111 | 29 | 18 | 13 |
| 5 | 9.7 | 11 | 11 | e9.1 | 15 | 111 | 160 | 274 | 102 | 29 | 18 | 13 |
| 6 | 9.7 | 9.8 | 11 | e9.3 | 15 | 115 | 182 | 234 | 94 | 28 | 17 | 12 |
| 7 | 13 | 9.2 | 11 | e9.4 | 13 | 121 | 189 | 211 | 87 | 27 | 17 | 12 |
| 8 | 12 | 10 | 13 | e8.6 | 12 | 196 | 178 | 202 | 85 | 26 | 17 | 12 |
| 9 | 11 | 10 | 12 | e8.0 | 11 | 216 | 179 | 186 | 81 | 26 | 16 | 13 |
| 10 | 11 | 9.6 | 10 | e8.4 | 13 | 150 | 198 | 174 | 73 | 25 | 15 | 13 |
| 11 | 10 | 11 | 6.2 | e8.8 | 13 | 124 | 209 | 186 | 66 | 25 | 15 | 12 |
| 12 | 11 | 10 | 9.8 | e8.0 | 12 | 105 | 207 | 169 | 60 | 24 | 15 | 12 |
| 13 | 11 | 10 | 11 | e7.6 | 13 | 97 | 204 | 169 | 57 | 24 | 15 | 11 |
| 14 | 10 | 10 | e9.7 | e7.0 | 13 | 91 | 174 | 170 | 55 | 23 | 15 | 11 |
| 15 | 9.9 | 9.7 | e9.5 | e7.0 | 19 | 83 | 169 | 165 | 53 | 23 | 15 | 11 |
| 16 | 9.7 | 9.4 | e9.5 | e11 | 23 | 80 | 180 | 164 | 50 | 23 | 15 | 11 |
| 17 | 9.7 | 9.7 | e9.5 | e15 | 45 | 75 | 158 | 162 | 48 | 23 | 14 | 11 |
| 18 | 9.6 | 9.8 | e9.5 | e12 | 153 | 68 | 144 | 164 | 46 | 23 | 14 | 11 |
| 19 | 9.1 | 9.4 | e10 | e14 | 211 | 64 | 142 | 177 | 44 | 23 | 14 | 11 |
| 20 | 9.1 | 9.7 | e9.7 | e14 | 155 | 62 | 167 | 194 | 42 | 23 | 15 | 11 |
| 21 | 9.2 | 9.7 | e9.6 | e14 | 110 | 64 | 219 | 207 | 42 | 22 | 16 | 11 |
| 22 | 11 | 9.5 | e9.4 | e13 | 85 | 73 | 240 | 204 | 41 | 23 | 15 | 11 |
| 23 | 12 | 9.5 | e9.3 | e13 | 85 | 96 | 307 | 171 | 39 | 23 | 14 | 11 |
| 24 | 11 | 10 | e9.3 | e11 | 105 | 128 | 266 | 152 | 39 | 23 | 14 | 12 |
| 25 | 11 | 12 | e9.3 | e10 | 131 | 125 | 237 | 149 | 38 | 22 | 14 | 15 |
| 26 | 9.9 | 11 | e9.4 | e9.6 | 142 | 115 | 209 | 156 | 36 | 22 | 14 | 14 |
| 27 | 9.5 | 10 | e9.3 | e9.4 | 138 | 143 | 181 | 160 | 35 | 21 | 13 | 13 |
| 28 | 9.2 | 10 | e9.3 | e9.6 | 122 | 200 | 214 | 156 | 34 | 21 | 13 | 13 |
| 29 | 9.1 | 11 | e9.3 | e10 | --- | 242 | 301 | 147 | 33 | 20 | 13 | 12 |
| 30 | 8.9 | 10 | e9.4 | e11 | --- | 284 | 247 | 140 | 32 | 20 | 13 | 12 |
| 31 | 9.1 | --- | e9.5 | 14 | --- | 323 | --- | 132 | --- | 19 | 13 | --- |
| TOTAL | 314.7 | 295.6 | 308.5 | 320.2 | 1724 | 3989 | 6069 | 5852 | 1888 | 749 | 472 | 363 |
| MEAN | 10.2 | 9.85 | 9.95 | 10.3 | 61.6 | 129 | 202 | 189 | 62.9 | 24.2 | 15.2 | 12.1 |
| MAX | 13 | 12 | 13 | 15 | 211 | 323 | 307 | 311 | 127 | 30 | 19 | 15 |
| MIN | 8.9 | 8.6 | 6.2 | 7.0 | 11 | 62 | 142 | 132 | 32 | 19 | 13 | 11 |
| ACFT | 624 | 586 | 612 | 635 | 3420 | 7910 | 12040 | 11610 | 3740 | 1490 | 936 | 720 |
| CAL YR 1985 | TOTAL | 15058.5 | MEAN | 41.3 | MAX | 435 | MIN | 6.2 | ACFT | 29870 | | |
| WTR YR 1986 | TOTAL | 22345.0 | MEAN | 61.2 | MAX | 323 | MIN | 6.2 | ACFT | 44320 | | |

e Estimated.

BEAR RIVER BASIN

10106000 LITTLE BEAR RIVER NEAR PARADISE, UT

LOCATION--Lat 41°35'26", long 111°51'16", in SW1/4SE1/4NE1/4 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 mi².

PERIOD OF RECORD.--January 1937 to September 1986 (discontinued). 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 good except for estimated daily discharges, which are 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.--49 years, 98.8 ft³/s, 71,580 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,250 ft³/s Feb. 19, 1986, gage height, 8.06 ft; minimum, 4.0 ft³/s Aug. 14, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,250 ft³/s Feb. 19, gage height, 8.06 ft; minimum daily, 57 ft³/s Jan. 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|-------|-------|-------|-------|-------|--------|------|------|
| 1 | 74 | 70 | 79 | e64 | 167 | 257 | 612 | 413 | 526 | e112 | e70 | e67 |
| 2 | 73 | 70 | 79 | e64 | 131 | 288 | 667 | 425 | 517 | e110 | e69 | e68 |
| 3 | 72 | 69 | 97 | e64 | 121 | 280 | 532 | 468 | 456 | e110 | e69 | e70 |
| 4 | 72 | 68 | 91 | e63 | 102 | 277 | 532 | 599 | 436 | e110 | e68 | 65 |
| 5 | 71 | 75 | 83 | e63 | 91 | 275 | 457 | 556 | 401 | e105 | e67 | 71 |
| 6 | 71 | 71 | 80 | e65 | 87 | 272 | 443 | 435 | 393 | e102 | e67 | 74 |
| 7 | 96 | 70 | 79 | e63 | 80 | 281 | 462 | 382 | 354 | e100 | e66 | 73 |
| 8 | 89 | 74 | 81 | e60 | 77 | 536 | 435 | 489 | 339 | e99 | e66 | 64 |
| 9 | 86 | 75 | 78 | e59 | 79 | 812 | 451 | 424 | 301 | e98 | e66 | 70 |
| 10 | 84 | 72 | 71 | e58 | 79 | 586 | 439 | 365 | 268 | e96 | e65 | 69 |
| 11 | 81 | 76 | e69 | e58 | 76 | 554 | 537 | 382 | 263 | e95 | e65 | 73 |
| 12 | 78 | 75 | e67 | e57 | 74 | 446 | 465 | 312 | 255 | e92 | e65 | 70 |
| 13 | 76 | 74 | e68 | e57 | 101 | 418 | 522 | 300 | 252 | e89 | e65 | 68 |
| 14 | 74 | 74 | e69 | e58 | 100 | 380 | 507 | 309 | 244 | e87 | e65 | 69 |
| 15 | 73 | 73 | e72 | e59 | 542 | 349 | 439 | 306 | 232 | e85 | e65 | 69 |
| 16 | 71 | 73 | e70 | e61 | 448 | 332 | 537 | 302 | 217 | e83 | e65 | 66 |
| 17 | 72 | 74 | e68 | e65 | 1370 | 341 | 434 | 293 | 202 | e81 | e65 | 69 |
| 18 | 71 | 75 | e65 | 79 | 1290 | 322 | 387 | 304 | 189 | e78 | e65 | 75 |
| 19 | 71 | 74 | e64 | 79 | 1260 | 328 | 362 | 343 | 177 | e78 | e65 | 76 |
| 20 | 71 | 73 | e64 | 90 | 507 | 323 | 365 | 404 | 162 | e76 | e66 | 74 |
| 21 | 71 | 74 | e62 | 79 | 314 | 322 | 426 | 474 | 151 | e75 | e68 | 73 |
| 22 | 82 | 72 | e60 | 75 | 274 | 325 | 489 | 490 | 142 | e75 | e70 | 78 |
| 23 | 86 | 71 | e62 | 73 | 369 | 327 | 658 | 387 | 157 | e75 | e67 | 84 |
| 24 | 81 | 77 | e62 | 72 | 342 | 335 | 668 | 327 | e150 | e76 | e66 | 93 |
| 25 | 76 | 125 | e61 | 71 | 326 | 321 | 745 | 337 | e149 | e75 | e65 | 113 |
| 26 | 74 | 98 | e60 | 72 | 310 | 211 | 580 | 404 | e140 | e75 | e65 | 116 |
| 27 | 72 | 84 | e61 | 73 | 283 | 221 | 495 | 464 | e138 | e74 | e65 | 113 |
| 28 | 71 | 81 | e61 | 72 | 258 | 396 | 609 | 470 | e130 | e74 | e66 | 112 |
| 29 | 70 | 82 | e61 | 72 | --- | 505 | 734 | 501 | e120 | e73 | e67 | 108 |
| 30 | 70 | 82 | e62 | 86 | --- | 572 | 445 | 516 | e115 | e73 | e67 | 108 |
| 31 | 70 | --- | e63 | 189 | --- | 726 | --- | 504 | --- | e71 | e67 | --- |
| TOTAL | 2349 | 2301 | 2169 | 2220 | 9258 | 11918 | 15434 | 12685 | 7576 | 2702 | 2057 | 2398 |
| MEAN | 75.8 | 76.7 | 70.0 | 71.6 | 331 | 384 | 514 | 409 | 253 | 87.2 | 66.4 | 79.9 |
| MAX | 96 | 125 | 97 | 189 | 1370 | 812 | 745 | 599 | 526 | 112 | 70 | 116 |
| MIN | 70 | 68 | 60 | 57 | 74 | 211 | 362 | 293 | 115 | 71 | 65 | 64 |
| ACFT | 4660 | 4560 | 4300 | 4400 | 18360 | 23640 | 30610 | 25160 | 15030 | 5360 | 4080 | 4760 |
| CAL YR 1985 | TOTAL | 47250 | MEAN | 129 | MAX | 697 | MIN | 47 | ACFT | 93720 | | |
| WTR YR 1986 | TOTAL | 73067 | MEAN | 200 | MAX | 1370 | MIN | 57 | ACFT | 144900 | | |

e Estimated.

BEAR RIVER BASIN

245

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 except for estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--23 years, 23.9 ft³/s, 17,320 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 111 ft³/s May 23, 1963, May 28, 1966; no flow at times most years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|------|------|------|-----|--------|------|-------|--------|---------|
| 1 | 5.9 | 3.7 | 4.4 | .02 | .13 | .00 | .07 | .00 | 41 | 66 | e51 | 53 |
| 2 | e8.4 | 1.9 | 4.3 | .02 | .13 | .00 | .07 | .00 | 49 | 65 | e50 | 53 |
| 3 | e5.9 | .30 | 4.1 | .02 | .13 | .02 | .07 | .00 | 71 | 65 | e53 | 54 |
| 4 | e5.8 | .23 | 3.9 | .05 | .13 | .06 | .07 | .02 | 72 | 66 | e64 | 54 |
| 5 | e5.8 | .20 | 1.7 | .07 | .13 | .14 | .07 | .02 | 61 | 64 | e59 | 54 |
| 6 | e5.8 | .14 | .00 | .07 | .17 | .20 | .07 | .02 | 61 | 59 | e57 | 54 |
| 7 | e5.8 | .13 | .00 | .07 | .16 | .20 | .07 | .02 | 58 | 59 | e71 | 54 |
| 8 | e5.8 | .13 | .00 | e.06 | e.14 | .39 | .07 | .02 | 56 | 58 | e60 | 53 |
| 9 | e5.8 | .13 | .01 | e.06 | e.14 | .04 | .04 | .04 | 58 | 63 | e67 | 51 |
| 10 | e5.8 | .13 | .00 | e.05 | e.15 | .02 | .02 | .07 | 52 | 64 | e68 | 46 |
| 11 | e5.8 | .09 | .00 | e.06 | e.17 | .02 | .02 | .07 | 51 | 63 | e70 | 37 |
| 12 | e5.8 | .07 | .00 | e.05 | .20 | .06 | .02 | .07 | 61 | 62 | e69 | 36 |
| 13 | e5.8 | .07 | .00 | e.05 | .20 | .07 | .02 | .07 | 66 | 62 | e69 | 35 |
| 14 | e5.8 | .07 | .00 | e.05 | .20 | .08 | .02 | 2.8 | 66 | 62 | e70 | 35 |
| 15 | e5.8 | .07 | .00 | .05 | .20 | .07 | .02 | 11 | 65 | 61 | e70 | 35 |
| 16 | e5.8 | .07 | .00 | .07 | .20 | .07 | .02 | 11 | 65 | 59 | e70 | 35 |
| 17 | e5.8 | .07 | .00 | .07 | .19 | .07 | .02 | 14 | 65 | 57 | e70 | 35 |
| 18 | e5.8 | .09 | .00 | .09 | .13 | .07 | .02 | 26 | 65 | 54 | e71 | 35 |
| 19 | e5.8 | .04 | .00 | .13 | .08 | .07 | .00 | 23 | 63 | 52 | e71 | 35 |
| 20 | e5.8 | .02 | .00 | .13 | .07 | .07 | .00 | 9.9 | 60 | 52 | e73 | 34 |
| 21 | e5.8 | .02 | .00 | .13 | .07 | .12 | .00 | .07 | 69 | 53 | e4.8 | 31 |
| 22 | e5.8 | .02 | .00 | .13 | .07 | .45 | .00 | 6.9 | 64 | 57 | e63 | 29 |
| 23 | e5.7 | .02 | .00 | .13 | .07 | 1.3 | .00 | 18 | 63 | 59 | e57 | 26 |
| 24 | e5.6 | .05 | .00 | .13 | .07 | 1.2 | .00 | 20 | 63 | 49 | e53 | 19 |
| 25 | e5.6 | .02 | .00 | .13 | .07 | .97 | .00 | 30 | 66 | 45 | e53 | 10 |
| 26 | e5.6 | .02 | .00 | e.11 | .06 | .87 | .00 | 45 | 65 | 45 | e53 | 10 |
| 27 | e5.6 | 1.6 | .00 | e.10 | .02 | .80 | .00 | 51 | 65 | e45 | e53 | 10 |
| 28 | e5.6 | 4.4 | .01 | e.10 | .02 | .73 | .00 | e51 | 65 | e55 | e54 | 9.9 |
| 29 | e5.6 | 4.4 | .02 | e.10 | --- | .73 | .02 | e48 | 66 | e45 | e53 | 6.4 |
| 30 | 4.4 | 4.4 | .02 | .13 | --- | .48 | .00 | 44 | 66 | e44 | 53 | .87 |
| 31 | 4.3 | --- | .02 | .13 | --- | .10 | --- | 44 | --- | e46 | 54 | --- |
| TOTAL | 178.4 | 22.60 | 18.48 | 2.56 | 3.50 | 9.47 | .80 | 456.09 | 1858 | 1756 | 1853.8 | 1030.17 |
| MEAN | 5.75 | .75 | .60 | .08 | .12 | .31 | .03 | 14.7 | 61.9 | 56.6 | 59.8 | 34.3 |
| MAX | 8.4 | 4.4 | 4.4 | .13 | .20 | 1.3 | .07 | 51 | 72 | 66 | 73 | 54 |
| MIN | 4.3 | .02 | .00 | .02 | .02 | .00 | .00 | .00 | 41 | 44 | 4.8 | .87 |
| ACFT | 354 | 45 | 37 | 5.1 | 6.9 | 19 | 1.6 | 905 | 3690 | 3480 | 3680 | 2040 |
| CAL YR 1985 | TOTAL | 8740.61 | MEAN | 23.9 | MAX | 87 | MIN | .00 | ACFT | 17340 | | |
| WTR YR 1986 | TOTAL | 7189.87 | MEAN | 19.7 | MAX | 73 | MIN | .00 | ACFT | 14260 | | |

e Estimated.

BEAR RIVER BASIN

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 mi².

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 except for estimated daily discharges, which are fair. 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: 73 years (water years 1914-86), 143 ft³/s, 103,600 acre-ft/yr.
Combined river and canal: 90 years, 277 ft³/s, 200,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--River only: Maximum discharge, 2,000 ft³/s Mar. 21, 1916, gage height, 5.6 ft; minimum, 5.2 ft/s Feb. 26, 1986, result of hydro-electric plant testing.
Combined river and canal: Maximum discharge observed, 2,480 ft³/s May 24, 1907; minimum daily, 50 ft³/s Jan. 21, 1935.

EXTREMES FOR CURRENT YEAR.--River only: Maximum discharge, 1,970 ft³/s June 7, gage height, 5.44 ft; minimum, 5.2 ft/s Feb. 26, result of hydro-electric plant testing.
Combined river and canal: Maximum daily discharge, 1,930 ft³/s June 7; minimum daily, 104 ft³/s Feb. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1 | 171 | 159 | 144 | 118 | 124 | 322 | 718 | 682 | 1560 | 938 | 401 | 276 |
| 2 | 173 | 159 | 143 | 118 | 123 | 321 | 672 | 716 | 1670 | 902 | 401 | 274 |
| 3 | 161 | 158 | 147 | 124 | 124 | 315 | 561 | 822 | 1690 | 890 | 376 | 279 |
| 4 | 171 | 157 | 142 | 130 | 121 | 314 | 530 | 958 | 1770 | 871 | 376 | 264 |
| 5 | 160 | 167 | 141 | 125 | 118 | 320 | 510 | 904 | 1800 | 855 | 373 | 266 |
| 6 | 167 | 163 | 140 | 134 | 117 | 329 | 517 | 842 | 1870 | 812 | 350 | 266 |
| 7 | 193 | 159 | 138 | 130 | 113 | 334 | 528 | 800 | 1840 | 755 | 344 | 264 |
| 8 | 192 | 165 | 140 | 127 | 104 | 465 | 536 | 778 | 1790 | 736 | 347 | 260 |
| 9 | 156 | 164 | 139 | e118 | 108 | 567 | 550 | 730 | 1630 | 710 | 337 | 267 |
| 10 | 164 | 161 | 139 | e113 | 106 | 441 | 538 | 718 | 1550 | 700 | 328 | 282 |
| 11 | 153 | 158 | 135 | e120 | 110 | 398 | 598 | 698 | 1540 | 686 | 318 | 288 |
| 12 | 159 | 159 | 124 | e118 | 109 | 363 | 601 | 673 | 1490 | 663 | 316 | 283 |
| 13 | 158 | 159 | e118 | e115 | 111 | 339 | 604 | 671 | 1480 | 640 | 235 | 274 |
| 14 | 154 | 157 | e120 | e116 | 111 | 323 | 559 | 688 | 1460 | 619 | 309 | 271 |
| 15 | 152 | 153 | e124 | e120 | 128 | 305 | 537 | 685 | 1440 | 618 | 303 | 267 |
| 16 | 157 | 150 | e127 | 125 | 155 | 296 | 565 | 688 | 1430 | 606 | 298 | 264 |
| 17 | 157 | 148 | e130 | 132 | 206 | 288 | 560 | 695 | 1400 | 589 | 293 | 256 |
| 18 | 157 | 155 | e129 | 134 | 308 | 274 | 519 | 725 | 1380 | 565 | 286 | 256 |
| 19 | 156 | 155 | e120 | 131 | 417 | 265 | 504 | 796 | 1360 | 546 | 284 | 257 |
| 20 | 158 | 155 | e116 | 132 | 370 | 251 | 508 | 906 | 1300 | 528 | 278 | 252 |
| 21 | 160 | 151 | e113 | 130 | 284 | 256 | 564 | 1010 | 1260 | 517 | 335 | 252 |
| 22 | 168 | 155 | e111 | 122 | 242 | 278 | 665 | 1100 | 1210 | 505 | 326 | 248 |
| 23 | 181 | 144 | e108 | 121 | 280 | 309 | 898 | 994 | 1160 | 513 | 287 | 248 |
| 24 | 180 | 157 | e110 | 121 | 354 | 345 | 937 | 927 | 1130 | 515 | 294 | 260 |
| 25 | 169 | 173 | e113 | 120 | 372 | 353 | 885 | 975 | 1100 | 499 | 293 | 295 |
| 26 | 166 | 156 | e110 | 116 | 338 | 356 | 804 | 1080 | 1070 | 486 | 291 | 285 |
| 27 | 164 | 150 | e108 | 117 | 356 | 378 | 733 | 1190 | 1040 | 484 | 287 | 269 |
| 28 | 162 | 146 | e109 | 117 | 331 | 428 | 733 | 1250 | 1020 | 461 | 284 | 269 |
| 29 | 162 | 148 | e110 | 116 | --- | 500 | 732 | 1280 | 989 | 445 | 283 | 261 |
| 30 | 162 | 146 | e113 | 116 | --- | 583 | 696 | 1330 | 971 | 426 | 281 | 259 |
| 31 | 160 | --- | 119 | 124 | --- | 818 | --- | 1450 | --- | 416 | 281 | --- |
| TOTAL | 5103 | 4687 | 3880 | 3800 | 5740 | 11434 | 18862 | 27761 | 42400 | 19496 | 9795 | 8012 |
| MEAN | 165 | 156 | 125 | 123 | 205 | 369 | 629 | 896 | 1413 | 629 | 316 | 267 |
| MAX | 193 | 173 | 147 | 134 | 417 | 818 | 937 | 1450 | 1870 | 938 | 401 | 295 |
| MIN | 152 | 144 | 108 | 113 | 104 | 251 | 504 | 671 | 971 | 416 | 235 | 248 |
| ACFT | 10120 | 9300 | 7700 | 7540 | 11390 | 22680 | 37410 | 55060 | 84100 | 38670 | 19430 | 15890 |
| CAL YR 1985 | TOTAL | 94088 | MEAN | 258 | MAX | 865 | MIN | 108 | ACFT | 186600 | | |
| WTR YR 1986 | TOTAL | 160970 | MEAN | 441 | MAX | 1870 | MIN | 104 | ACFT | 319300 | | |

e Estimated.

BEAR RIVER BASIN

247

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 1985 TO SEPTEMBER 1986

MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1 | 177 | 163 | 148 | 118 | 124 | 322 | 718 | 682 | 1600 | 1000 | 452 | 329 |
| 2 | 181 | 161 | 147 | 118 | 123 | 321 | 672 | 716 | 1720 | 967 | 451 | 327 |
| 3 | 167 | 158 | 151 | 124 | 124 | 315 | 561 | 822 | 1760 | 955 | 429 | 333 |
| 4 | 177 | 157 | 146 | 130 | 121 | 314 | 530 | 958 | 1840 | 937 | 440 | 318 |
| 5 | 166 | 167 | 143 | 125 | 118 | 320 | 510 | 904 | 1860 | 919 | 432 | 320 |
| 6 | 173 | 163 | 140 | 134 | 117 | 329 | 517 | 842 | 1930 | 871 | 407 | 320 |
| 7 | 199 | 159 | 138 | 130 | 113 | 334 | 528 | 800 | 1900 | 814 | 415 | 318 |
| 8 | 198 | 165 | 140 | 127 | 104 | 465 | 536 | 778 | 1850 | 794 | 407 | 313 |
| 9 | 162 | 164 | 139 | 118 | 108 | 567 | 550 | 730 | 1680 | 773 | 406 | 318 |
| 10 | 170 | 161 | 139 | 113 | 106 | 441 | 538 | 718 | 1590 | 764 | 396 | 328 |
| 11 | 159 | 158 | 135 | 120 | 110 | 398 | 598 | 698 | 1580 | 749 | 388 | 325 |
| 12 | 165 | 159 | 124 | 118 | 109 | 363 | 601 | 673 | 1540 | 725 | 385 | 319 |
| 13 | 164 | 159 | 118 | 115 | 111 | 339 | 604 | 671 | 1550 | 702 | 304 | 309 |
| 14 | 160 | 157 | 120 | 116 | 111 | 323 | 559 | 691 | 1520 | 681 | 379 | 306 |
| 15 | 158 | 153 | 124 | 120 | 128 | 305 | 537 | 696 | 1490 | 679 | 373 | 302 |
| 16 | 163 | 150 | 127 | 125 | 155 | 296 | 565 | 699 | 1480 | 665 | 368 | 299 |
| 17 | 163 | 148 | 130 | 132 | 206 | 288 | 560 | 709 | 1460 | 646 | 363 | 291 |
| 18 | 163 | 155 | 129 | 134 | 308 | 274 | 519 | 751 | 1430 | 619 | 357 | 291 |
| 19 | 162 | 155 | 120 | 131 | 417 | 265 | 504 | 819 | 1400 | 598 | 355 | 292 |
| 20 | 164 | 155 | 116 | 132 | 370 | 251 | 508 | 916 | 1340 | 580 | 351 | 286 |
| 21 | 166 | 151 | 113 | 130 | 284 | 256 | 564 | 1010 | 1310 | 570 | 340 | 283 |
| 22 | 174 | 155 | 111 | 122 | 242 | 278 | 665 | 1110 | 1240 | 562 | 389 | 277 |
| 23 | 187 | 144 | 108 | 121 | 280 | 310 | 898 | 1010 | 1200 | 572 | 344 | 274 |
| 24 | 186 | 157 | 110 | 121 | 354 | 346 | 937 | 947 | 1160 | 564 | 347 | 279 |
| 25 | 175 | 173 | 113 | 120 | 372 | 354 | 885 | 1010 | 1130 | 544 | 346 | 305 |
| 26 | 172 | 156 | 110 | 116 | 338 | 357 | 804 | 1130 | 1100 | 531 | 344 | 295 |
| 27 | 170 | 152 | 108 | 117 | 356 | 379 | 733 | 1240 | 1100 | 529 | 340 | 279 |
| 28 | 168 | 150 | 109 | 117 | 331 | 429 | 733 | 1300 | 1090 | 516 | 338 | 279 |
| 29 | 168 | 152 | 110 | 116 | --- | 501 | 732 | 1330 | 1060 | 490 | 336 | 267 |
| 30 | 166 | 150 | 113 | 116 | --- | 583 | 696 | 1370 | 1040 | 470 | 334 | 260 |
| 31 | 164 | --- | 119 | 124 | --- | 818 | --- | 1490 | --- | 462 | 335 | --- |
| TOTAL | 5287 | 4707 | 3898 | 3800 | 5740 | 11441 | 18862 | 28220 | 43950 | 21248 | 11651 | 9042 |
| MEAN | 171 | 157 | 126 | 123 | 205 | 369 | 629 | 910 | 1465 | 685 | 376 | 301 |
| MAX | 199 | 173 | 151 | 134 | 417 | 818 | 937 | 1490 | 1930 | 1000 | 452 | 333 |
| MIN | 158 | 144 | 108 | 113 | 104 | 251 | 504 | 671 | 1040 | 462 | 304 | 260 |
| ACFT | 10490 | 9340 | 7730 | 7540 | 11390 | 22690 | 37410 | 55970 | 87170 | 42150 | 23110 | 17930 |
| CAL YR 1985 | TOTAL | 102861 | MEAN | 282 | MAX | 927 | MIN | 108 | ACFT | 204000 | | |
| WTR YR 1986 | TOTAL | 167846 | MEAN | 460 | MAX | 1930 | MIN | 104 | ACFT | 332900 | | |

BEAR RIVER BASIN

10111700 BLACKSMITH FORK BELOW MILL CREEK, NEAR HYRUM, UT

LOCATION.--Lat $41^{\circ}35'40''$, long $111^{\circ}30'00''$, in NW1/4NW1/4NE1/4 sec.23, T.10 N., R.3 E., Cache County, Hydrologic Unit 16010203, on right bank 1.3 mi downstream from Mill Creek, and 16 mi east of Hyrum.

DRAINAGE AREA.--83 mi².

PERIOD OF RECORD.--September 1965 to September 1969, October 1985 to September 1986.

GAGE.--Water-stage recorder. Datum of gage is 5,544.76 ft NGVD of 1929, unadjusted.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversions or regulation above gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 346 ft³/s Mar. 8, 1986, gage height, 7.11 ft; minimum, 42 ft³/s Feb. 20, 1967, Mar. 14, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 346 ft³/s, Mar. 8, gage height, 7.11 ft, but may have been higher during periods of recorder malfunction Jan. 26 to Mar. 5 or Mar. 11-25; minimum daily discharge, 62 ft³/s, Feb. 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | e76 | e73 | e70 | e65 | e65 | e121 | 134 | 119 | 119 | 122 | 126 | 111 |
| 2 | e76 | e73 | e71 | e65 | e63 | e120 | 142 | 119 | 125 | 123 | 126 | 111 |
| 3 | e75 | e73 | e72 | e65 | e62 | e121 | 116 | 125 | 131 | 123 | 126 | 109 |
| 4 | e75 | e72 | e71 | e65 | e62 | e121 | 105 | 152 | 141 | 125 | 125 | 109 |
| 5 | e77 | e72 | e70 | e65 | e63 | 118 | 100 | 145 | 150 | 125 | 124 | 108 |
| 6 | e86 | e72 | e69 | e65 | e64 | 110 | 104 | 127 | 155 | 124 | 123 | 109 |
| 7 | e91 | e73 | e68 | e64 | e64 | 115 | 109 | 119 | 155 | 125 | 121 | 109 |
| 8 | e89 | e72 | e67 | e64 | e63 | 189 | 105 | 121 | 156 | 124 | 123 | 107 |
| 9 | e82 | e72 | e68 | e66 | e63 | 163 | 109 | 113 | 151 | 125 | 122 | 108 |
| 10 | e78 | e72 | e70 | e65 | e64 | 123 | 107 | 113 | 143 | 126 | 120 | 107 |
| 11 | e76 | e72 | e71 | e65 | e63 | 114 | 123 | 124 | 138 | 127 | 119 | 106 |
| 12 | e76 | e71 | e69 | e65 | e63 | e108 | 112 | 111 | 136 | 126 | 119 | 106 |
| 13 | e76 | e72 | e68 | e65 | e63 | e104 | 118 | 108 | 134 | 126 | 118 | 105 |
| 14 | e77 | e72 | e68 | e65 | e64 | e100 | 105 | 107 | 133 | 125 | 118 | 105 |
| 15 | e77 | e71 | e67 | e65 | e68 | e102 | 99 | 105 | 131 | 127 | 117 | 104 |
| 16 | e76 | e71 | e67 | e65 | e73 | e96 | 102 | 105 | 130 | 128 | 116 | 104 |
| 17 | e75 | e71 | e68 | e66 | e88 | e93 | 97 | 103 | 128 | 126 | 117 | 103 |
| 18 | e74 | e72 | e67 | e67 | e140 | e87 | 93 | 103 | 126 | 125 | 117 | 105 |
| 19 | e73 | e72 | e67 | e66 | e240 | e87 | 90 | 105 | 126 | 126 | 116 | 104 |
| 20 | e73 | e73 | e67 | e67 | e220 | e87 | 91 | 106 | 125 | 126 | 121 | 103 |
| 21 | e73 | e72 | e67 | e66 | e180 | e90 | 100 | 108 | 124 | 126 | 120 | 102 |
| 22 | e73 | e70 | e66 | e65 | e130 | e91 | 108 | 110 | 124 | 129 | 117 | 101 |
| 23 | e74 | e69 | e66 | e65 | e138 | e92 | 133 | 106 | 123 | 132 | 115 | 101 |
| 24 | e74 | e72 | e65 | e65 | e140 | e92 | 120 | 103 | 124 | 130 | 114 | 103 |
| 25 | e75 | e71 | e65 | e64 | e140 | e93 | 126 | 102 | 124 | 128 | 113 | 108 |
| 26 | e74 | e71 | e66 | e65 | e140 | 93 | 114 | 104 | 123 | 129 | 112 | 108 |
| 27 | e74 | e69 | e66 | e66 | e130 | 100 | 105 | 106 | 120 | 128 | 113 | 105 |
| 28 | e74 | e69 | e65 | e64 | e125 | 117 | 120 | 108 | 121 | 127 | 113 | 105 |
| 29 | e73 | e69 | e65 | e63 | --- | 133 | 175 | 111 | 121 | 127 | 113 | 103 |
| 30 | e73 | e70 | e65 | e64 | --- | 145 | 127 | 114 | 121 | 128 | 112 | 103 |
| 31 | e72 | --- | e65 | e65 | --- | 171 | --- | 116 | --- | 127 | 113 | --- |
| TOTAL | 2367 | 2143 | 2096 | 2017 | 2838 | 3496 | 3389 | 3518 | 3958 | 3915 | 3669 | 3172 |
| MEAN | 76.4 | 71.4 | 67.6 | 65.1 | 101 | 113 | 113 | 113 | 132 | 126 | 118 | 106 |
| MAX | 91 | 73 | 72 | 67 | 240 | 189 | 175 | 152 | 156 | 132 | 126 | 111 |
| MIN | 72 | 69 | 65 | 63 | 62 | 87 | 90 | 102 | 119 | 122 | 112 | 101 |
| ACFT | 4690 | 4250 | 4160 | 4000 | 5630 | 6930 | 6720 | 6980 | 7850 | 7770 | 7280 | 6290 |

WTR YR 1986 TOTAL 36578 MEAN 100 MAX 240 MIN 62 ACFT 72550

e Estimated.

10113500 BLACKSMITH FORK ABOVE UTAH POWER & LIGHT CO.'S DAM, NEAR HYRUM, UT

LOCATION.--Lat 41°37'18", long 111°44'22", 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 mi².

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 except for estimated daily discharges, which are fair. A few small diversions for irrigation of about 200 acres above station. Flow is slightly regulated by powerplant above station.

AVERAGE DISCHARGE.--73 years, 134 ft³/s, 97,080 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,650 ft³/s May 14, 1984, gage height, 7.12 ft; minimum, 4.7 ft³/s Nov. 28, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 140 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Feb. 18 | 1200 | *848 | *6.06 | Mar. 31 | 0900 | 630 | 5.48 |
| Mar. 8 | 2400 | 584 | 5.37 | Apr. 23 | 2100 | 819 | 5.57 |

Minimum, 68 ft³/s Dec. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1 | e137 | 125 | 115 | 107 | 118 | 368 | 530 | 572 | 509 | 269 | 295 | e195 |
| 2 | 136 | 123 | 116 | 107 | 118 | 365 | 488 | 591 | 505 | 268 | 292 | e195 |
| 3 | 135 | 122 | 125 | 107 | 120 | 359 | 436 | 650 | 495 | 268 | 282 | e194 |
| 4 | 135 | 122 | 121 | 106 | 116 | 357 | 414 | 711 | 489 | 270 | 280 | 192 |
| 5 | 134 | 128 | 118 | 107 | 113 | 359 | 400 | 674 | 475 | 269 | 245 | 188 |
| 6 | 135 | 123 | 116 | 107 | 112 | 358 | 404 | 606 | 462 | 268 | 240 | 188 |
| 7 | 147 | 122 | 115 | 105 | 110 | 360 | 440 | 567 | 448 | 266 | 239 | 188 |
| 8 | 142 | 126 | 118 | 104 | 108 | 420 | 439 | 569 | 436 | 265 | 234 | 187 |
| 9 | 137 | 127 | 116 | 105 | 106 | 483 | 454 | 532 | 424 | 264 | 235 | 188 |
| 10 | 136 | 123 | 112 | 106 | 107 | 409 | 457 | 514 | 406 | 263 | 231 | 187 |
| 11 | 134 | 125 | 105 | 106 | 108 | 383 | 503 | 526 | 393 | 264 | 228 | 184 |
| 12 | 135 | 125 | 108 | 105 | 107 | 360 | 505 | 527 | 380 | 263 | 226 | 180 |
| 13 | 136 | 122 | 108 | 106 | 110 | 337 | 534 | 522 | 366 | 261 | 224 | 177 |
| 14 | 130 | 121 | 111 | 106 | 112 | 323 | 495 | 524 | 358 | 260 | 221 | 177 |
| 15 | 136 | 121 | 112 | 106 | 142 | 312 | 489 | 513 | 349 | 260 | 220 | 176 |
| 16 | 134 | 120 | 111 | 106 | 197 | 308 | 518 | 508 | 342 | 262 | 218 | 176 |
| 17 | 133 | 120 | 112 | 107 | 338 | 303 | 500 | 501 | 335 | 260 | 216 | 175 |
| 18 | 133 | 121 | 111 | 108 | 746 | 286 | 485 | 510 | 327 | 257 | 214 | 175 |
| 19 | 132 | 118 | 109 | 108 | 695 | 278 | 478 | 529 | 323 | 257 | 212 | 176 |
| 20 | 132 | 118 | 110 | 109 | 538 | 273 | 498 | 557 | 318 | 257 | 213 | 173 |
| 21 | 133 | 118 | 109 | 108 | 413 | 276 | 566 | 581 | 311 | 256 | 222 | 172 |
| 22 | 137 | 116 | 108 | 108 | 368 | 291 | 637 | 575 | 305 | 260 | 211 | 172 |
| 23 | 139 | 116 | 108 | 108 | 421 | 305 | 765 | 517 | 302 | 262 | 208 | 171 |
| 24 | 134 | 121 | 108 | 107 | 447 | 318 | 742 | 488 | 295 | 272 | 207 | 174 |
| 25 | 132 | 131 | 108 | 106 | 446 | 318 | 698 | 494 | 289 | 298 | 202 | 184 |
| 26 | 130 | 122 | 108 | 106 | 430 | 317 | 619 | 507 | 282 | 303 | 201 | 182 |
| 27 | 127 | 118 | 107 | 106 | 410 | 339 | 564 | 526 | 278 | 307 | 201 | 175 |
| 28 | 126 | 118 | 107 | 106 | 384 | 389 | 579 | 531 | 276 | 303 | 198 | 172 |
| 29 | 125 | 119 | 106 | 106 | --- | 431 | 642 | 538 | 273 | 298 | e197 | 170 |
| 30 | 125 | 117 | 107 | 107 | --- | 477 | 591 | 533 | 272 | 300 | e196 | 169 |
| 31 | 126 | --- | 107 | 112 | --- | 584 | --- | 520 | --- | 298 | e196 | --- |
| TOTAL | 4143 | 3648 | 3452 | 3308 | 7540 | 11046 | 15870 | 17013 | 11023 | 8428 | 7004 | 5412 |
| MEAN | 134 | 122 | 111 | 107 | 269 | 356 | 529 | 549 | 367 | 272 | 226 | 180 |
| MAX | 147 | 131 | 125 | 112 | 746 | 584 | 765 | 711 | 509 | 307 | 295 | 195 |
| MIN | 125 | 116 | 105 | 104 | 106 | 273 | 400 | 488 | 272 | 256 | 196 | 169 |
| ACFT | 8220 | 7240 | 6850 | 6560 | 14960 | 21910 | 31480 | 33750 | 21860 | 16720 | 13890 | 10730 |
| CAL YR 1985 | TOTAL | 66749 | MEAN | 183 | MAX | 601 | MIN | 105 | ACFT | 132400 | | |
| WTR YR 1986 | TOTAL | 97887 | MEAN | 268 | MAX | 765 | MIN | 104 | ACFT | 194200 | | |

e Estimated.

BEAR RIVER BASIN

10116500 CUTLER RESERVOIR NEAR COLLINSTON, ID

LOCATION.--Lat 41°50'13", long 112°02'51", In NW1/4NW1/4SW1/4 sec.26, T.13 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, 2 mi north of Beaver Dam, 6 mi north of Collinston.

PERIOD OF RECORD.--October 1927 to current year. Prior to 1986, published in reports of Bear River Commission.

COOPERATION.--Records provided by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 20,880 acre-ft Feb. 19, 20, elevation, 4,405.10 ft; minimum, 583 acre-ft Nov. 5, elevation, 4,399.60 ft.

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
INSTANTANEOUS VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | 16150 | 11000 | 15060 | 13990 | 15060 | 15780 | 15060 | 10380 | 11310 | 11640 | 17670 | 13300 |
| 2 | 15780 | 11640 | 13650 | 13990 | 15780 | 15780 | 15060 | 10380 | 11640 | 11310 | 11640 | 12620 |
| 3 | 15420 | 3550 | 15060 | 13990 | 17670 | 15420 | 15060 | 10380 | 11310 | 11310 | 13650 | 11310 |
| 4 | 15420 | 968 | 15780 | 14700 | 16520 | 15420 | 13650 | 10080 | 11000 | 11960 | 10680 | 9780 |
| 5 | 14840 | 583 | 15780 | 13300 | 15420 | 15780 | 12620 | 12290 | 11000 | 11640 | 12290 | 9500 |
| 6 | 14130 | 11000 | 16520 | 14700 | 15420 | 15780 | 12620 | 16150 | 11310 | 11000 | 11640 | 9500 |
| 7 | 13650 | 15060 | 15780 | 14700 | 14700 | 15420 | 12620 | 12620 | 11310 | 11310 | 12290 | 9500 |
| 8 | 13990 | 14340 | 16150 | 15420 | 14700 | 15420 | 12290 | 12290 | 10680 | 11310 | 9780 | 9500 |
| 9 | 14700 | 14340 | 15060 | 16150 | 14700 | 16520 | 13650 | 11640 | 10380 | 11310 | 11310 | 7640 |
| 10 | 14700 | 14700 | 15060 | 15420 | 14700 | 16520 | 13990 | 11640 | 10080 | 12290 | 11000 | 7890 |
| 11 | 14700 | 14340 | 16520 | 15420 | 15060 | 16520 | 13990 | 10380 | 9500 | 12960 | 11000 | 7640 |
| 12 | 15060 | 16150 | 14340 | 13990 | 16150 | 16150 | 13990 | 11000 | 8940 | 13300 | 11000 | 9500 |
| 13 | 15780 | 13300 | 14700 | 14700 | 15060 | 16150 | 13990 | 11000 | 9500 | 13300 | 11000 | 9780 |
| 14 | 15780 | 13990 | 14700 | 13990 | 16150 | 16050 | 14700 | 10680 | 10080 | 13300 | 12960 | 9780 |
| 15 | 15780 | 15780 | 13990 | 13990 | 18060 | 14340 | 13300 | 10080 | 11310 | 13300 | 12960 | 9780 |
| 16 | 15780 | 15060 | 13990 | 13990 | 17670 | 13300 | 12290 | 9500 | 11640 | 10680 | 11640 | 9780 |
| 17 | 15560 | 15780 | 13300 | 15420 | 18060 | 13990 | 11640 | 9210 | 11960 | 10380 | 12620 | 9780 |
| 18 | 15420 | 14340 | 15420 | 18450 | 18060 | 13990 | 12290 | 9210 | 11960 | 11000 | 11640 | 10080 |
| 19 | 14700 | 15060 | 15420 | 14700 | 20880 | 14340 | 10680 | 9210 | 11960 | 10080 | 10680 | 10680 |
| 20 | 15060 | 18060 | 15780 | 14700 | 20880 | 14340 | 10380 | 9210 | 11310 | 10080 | 11000 | 11310 |
| 21 | 15420 | 16520 | 15060 | 15420 | 18840 | 13990 | 10380 | 9780 | 11310 | 9780 | 12620 | 11310 |
| 22 | 15420 | 11960 | 15420 | 15420 | 17280 | 13990 | 10680 | 11000 | 11640 | 10680 | 12290 | 11640 |
| 23 | 15420 | 13990 | 14340 | 15420 | 17280 | 13300 | 10680 | 11000 | 11640 | 13300 | 12290 | 11640 |
| 24 | 15780 | 16150 | 15420 | 14700 | 16520 | 13300 | 12960 | 11000 | 11960 | 13990 | 13300 | 12290 |
| 25 | 16150 | 16150 | 14700 | 15780 | 16520 | 12960 | 14700 | 10080 | 11960 | 13990 | 12290 | 12620 |
| 26 | 16150 | 13300 | 14700 | 15780 | 17280 | 13650 | 14340 | 9500 | 11960 | 13990 | 12620 | 14700 |
| 27 | 15780 | 13300 | 14700 | 13990 | 16520 | 14340 | 14340 | 8940 | 11640 | 13650 | 12620 | 15420 |
| 28 | 15780 | 13990 | 13990 | 15420 | 15780 | 15060 | 13650 | 9780 | 11000 | 13990 | 12620 | 16900 |
| 29 | 15780 | 15420 | 13990 | 15420 | --- | 15060 | 12290 | 11310 | 11000 | 13990 | 11310 | 15420 |
| 30 | 14700 | 16150 | 13990 | 15420 | --- | 15060 | 11000 | 11310 | 11640 | 14340 | 13300 | 12620 |
| 31 | 14700 | --- | 13300 | 13990 | --- | 15060 | --- | 11000 | --- | 13990 | 11310 | --- |
| MAX | 16150 | 18060 | 16520 | 18450 | 20880 | 16520 | 15060 | 16150 | 11960 | 14340 | 17670 | 16900 |
| MIN | 13650 | 583 | 13300 | 13300 | 14700 | 12960 | 10380 | 8940 | 8940 | 9780 | 9780 | 7640 |
| (#) | 4404.30 | 4404.50 | 4404.10 | 4404.20 | 4404.45 | 4404.35 | 4403.75 | 4403.75 | 4403.85 | 4404.20 | 4403.80 | 4404.00 |
| (*) | -1450 | +1450 | -2850 | +690 | +1790 | -720 | -4060 | 0 | +640 | +2350 | -2680 | +1310 |

WTR YR 1986 (*) -3530

(#) Elevation, in feet, at end of month.
(*) Change in contents, in acre-feet.

BEAR RIVER BASIN

251

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 Collinston. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Prior to May 22, 1914, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. 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.--Records collected by Utah Power & Light Co.

AVERAGE DISCHARGE.--72 years (water years 1913-81, 1983-86), 50.8 ft³/s, 36,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 184 ft³/s June 29, 1963, May 2, 1977; no flow at times in each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|--------|-----|-----|-----|-----|-----|-----|---------|------|------|------|------|
| 1 | 73 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 152 | 160 | 122 | 126 |
| 2 | 46 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 153 | 160 | 123 | 124 |
| 3 | 3.1 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 151 | 161 | 125 | 125 |
| 4 | 2.2 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 153 | 162 | 129 | 122 |
| 5 | 1.8 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 154 | 162 | 136 | 118 |
| 6 | 1.2 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 151 | 155 | 141 | 117 |
| 7 | .26 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 143 | 154 | 146 | 111 |
| 8 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 148 | 151 | 150 | 106 |
| 9 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 152 | 149 | 142 | 101 |
| 10 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 154 | 152 | 142 | 98 |
| 11 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 154 | 150 | 138 | 94 |
| 12 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 154 | 147 | 136 | 94 |
| 13 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 154 | 148 | 136 | 94 |
| 14 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 153 | 150 | 133 | 94 |
| 15 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 153 | 147 | 123 | 94 |
| 16 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 153 | 142 | 123 | 91 |
| 17 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 153 | 141 | 122 | 88 |
| 18 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 153 | 136 | 123 | 87 |
| 19 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 153 | 129 | 126 | 82 |
| 20 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 152 | 128 | 130 | 77 |
| 21 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 151 | 128 | 131 | 77 |
| 22 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 151 | 128 | 128 | 77 |
| 23 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 151 | 127 | 128 | 76 |
| 24 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 91 | 157 | 117 | 130 | 73 |
| 25 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 108 | 162 | 108 | 130 | 66 |
| 26 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 129 | 162 | 107 | 130 | 65 |
| 27 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 144 | 161 | 101 | 132 | 65 |
| 28 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 143 | 162 | 102 | 136 | 65 |
| 29 | .00 | .00 | .00 | .00 | --- | .00 | .00 | 144 | 162 | 103 | 136 | 65 |
| 30 | .00 | .00 | .00 | .00 | --- | .00 | .00 | 154 | 162 | 105 | 133 | 64 |
| 31 | .00 | --- | .00 | .00 | --- | .00 | --- | 154 | --- | 116 | 127 | --- |
| TOTAL | 127.56 | .00 | .00 | .00 | .00 | .00 | .00 | 1067.00 | 4624 | 4226 | 4087 | 2736 |
| MEAN | 4.11 | .00 | .00 | .00 | .00 | .00 | .00 | 34.4 | 154 | 136 | 132 | 91.2 |
| MAX | 73 | .00 | .00 | .00 | .00 | .00 | .00 | 154 | 162 | 162 | 150 | 126 |
| MIN | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 143 | 101 | 122 | 64 |
| ACFT | 253 | .00 | .00 | .00 | .00 | .00 | .00 | 2120 | 9170 | 8380 | 8110 | 5430 |

| | | | | | | | | | | |
|-------------|-------|----------|------|------|-----|-----|-----|-----|------|-------|
| CAL YR 1985 | TOTAL | 20109.56 | MEAN | 55.1 | MAX | 171 | MIN | .00 | ACFT | 39890 |
| WTR YR 1986 | TOTAL | 16867.56 | MEAN | 46.2 | MAX | 162 | MIN | .00 | ACFT | 33460 |

BEAR RIVER BASIN

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.--No estimated daily discharges. 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.--Records collected by Utah Power & Light Co.

AVERAGE DISCHARGE.--72 years (water years 1913-81, 1983-86), 247 ft³/s, 179,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 787 ft³/s June 25, 1986; no flow for periods in every year except 1914.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|----------|------|-----|-----|-----|-----|---------|-------|--------|-------|-------|
| 1 | 230 | 106 | .00 | .00 | .00 | .00 | .00 | .00 | 740 | 781 | 608 | 628 |
| 2 | 228 | 107 | .00 | .00 | .00 | .00 | .00 | .00 | 739 | 780 | 605 | 604 |
| 3 | 225 | 104 | .00 | .00 | .00 | .00 | .00 | .00 | 746 | 782 | 610 | 601 |
| 4 | 223 | 94 | .00 | .00 | .00 | .00 | .00 | .00 | 763 | 781 | 629 | 600 |
| 5 | 219 | 75 | .00 | .00 | .00 | .00 | .00 | .00 | 762 | 775 | 668 | 600 |
| 6 | 216 | 102 | .00 | .00 | .00 | .00 | .00 | .00 | 765 | 778 | 668 | 599 |
| 7 | 161 | 105 | .00 | .00 | .00 | .00 | .00 | .00 | 766 | 765 | 668 | 602 |
| 8 | 129 | 105 | .00 | .00 | .00 | .00 | .00 | .00 | 765 | 752 | 672 | 575 |
| 9 | 130 | 105 | .00 | .00 | .00 | .00 | .00 | .00 | 766 | 756 | 667 | 543 |
| 10 | 129 | 105 | .00 | .00 | .00 | .00 | .00 | .00 | 765 | 753 | 658 | 540 |
| 11 | 129 | 64 | .00 | .00 | .00 | .00 | .00 | .00 | 761 | 733 | 656 | 533 |
| 12 | 129 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 769 | 696 | 668 | 512 |
| 13 | 129 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 776 | 672 | 690 | 499 |
| 14 | 129 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 771 | 673 | 692 | 486 |
| 15 | 128 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 774 | 671 | 677 | 485 |
| 16 | 128 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 772 | 672 | 656 | 485 |
| 17 | 128 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 778 | 676 | 656 | 485 |
| 18 | 128 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 772 | 677 | 685 | 482 |
| 19 | 128 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 774 | 684 | 716 | 458 |
| 20 | 129 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 773 | 685 | 709 | 442 |
| 21 | 128 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 772 | 685 | 649 | 442 |
| 22 | 128 | .00 | .00 | .00 | .00 | .00 | .00 | 212 | 777 | 681 | 611 | 441 |
| 23 | 119 | .00 | .00 | .00 | .00 | .00 | .00 | 298 | 776 | 664 | 609 | 438 |
| 24 | 107 | .00 | .00 | .00 | .00 | .00 | .00 | 486 | 784 | 591 | 610 | 408 |
| 25 | 108 | .00 | .00 | .00 | .00 | .00 | .00 | 558 | 787 | 525 | 607 | 350 |
| 26 | 108 | .00 | .00 | .00 | .00 | .00 | .00 | 590 | 778 | 561 | 632 | 329 |
| 27 | 108 | .00 | .00 | .00 | .00 | .00 | .00 | 664 | 780 | 561 | 647 | 331 |
| 28 | 107 | .00 | .00 | .00 | .00 | .00 | .00 | 715 | 778 | 560 | 654 | 332 |
| 29 | 106 | .00 | .00 | .00 | --- | .00 | .00 | 738 | 781 | 560 | 663 | 329 |
| 30 | 106 | .00 | .00 | .00 | --- | .00 | .00 | 741 | 785 | 582 | 661 | 326 |
| 31 | 108 | --- | .00 | .00 | --- | .00 | --- | 740 | --- | 611 | 660 | --- |
| TOTAL | 4408 | 1072.00 | .00 | .00 | .00 | .00 | .00 | 5742.00 | 23095 | 21123 | 20261 | 14485 |
| MEAN | 142 | 35.7 | .00 | .00 | .00 | .00 | .00 | 185 | 770 | 681 | 654 | 483 |
| MAX | 230 | 107 | .00 | .00 | .00 | .00 | .00 | 741 | 787 | 782 | 716 | 628 |
| MIN | 106 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 739 | 525 | 605 | 326 |
| ACFT | 8740 | 2130 | .00 | .00 | .00 | .00 | .00 | 11390 | 45810 | 41900 | 40190 | 28730 |
| CAL YR 1985 | TOTAL | 98524.00 | MEAN | 270 | MAX | 758 | MIN | .00 | ACFT | 195400 | | |
| WTR YR 1986 | TOTAL | 90186.00 | MEAN | 247 | MAX | 787 | MIN | .00 | ACFT | 178900 | | |

BEAR RIVER BASIN

253

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 mi².

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 except for estimated daily discharges, which are fair. Natural flow of stream affected by storage reservoir, power developments, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records provided by Utah Power & Light Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,700 ft³/s Feb. 20, 1986, gage height, 8.68 ft; minimum daily, 10 ft³/s Aug. 4-12, 18-23, 1905; practically no flow at 2400 Aug. 5, 1920.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,700 ft³/s Feb. 20, gage height, 8.68 ft; minimum daily, 84 ft³/s Nov. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| 1 | e1620 | 1910 | 2670 | 2370 | 2800 | 6150 | 6310 | 8220 | 7460 | 5140 | 2920 | 2130 |
| 2 | e1600 | 2840 | 2510 | 1990 | 2990 | 6140 | 6860 | 7830 | 7470 | 5070 | 2910 | 2450 |
| 3 | e1560 | 2740 | 2190 | 2190 | 3440 | 5900 | 7500 | 7480 | 7580 | 4790 | 2020 | 2710 |
| 4 | e1600 | 3420 | 2900 | 1930 | 3720 | 5740 | 7670 | 7360 | 7580 | 4590 | 2910 | 2700 |
| 5 | e1650 | 839 | 2920 | 2320 | 3430 | 5750 | 7340 | 7390 | 7600 | 4470 | 1700 | 2380 |
| 6 | e1650 | 84 | 2420 | 1820 | 3010 | 5760 | 6840 | 7740 | 7540 | 4430 | 2240 | 2680 |
| 7 | 1740 | 1690 | 2110 | 2160 | 2780 | 5680 | 6570 | 7930 | 7560 | 4210 | 1730 | 2480 |
| 8 | 1810 | 2380 | 1730 | 1910 | 3030 | 5520 | 6440 | 8120 | 7560 | 4190 | 2480 | 2690 |
| 9 | 1570 | 1940 | 2610 | 1970 | 2000 | 5660 | 6280 | 8140 | 7550 | 4100 | 1460 | 2690 |
| 10 | 1720 | 2140 | 2310 | 1610 | 2500 | 6500 | 6390 | 8120 | 7560 | 4000 | 1880 | 2620 |
| 11 | 1730 | 1930 | 1570 | 1660 | 2470 | 7150 | 6330 | 7950 | 7360 | 3570 | 1960 | 2610 |
| 12 | 1810 | 2580 | 2020 | 1850 | 2030 | 7470 | 6340 | 7760 | 7260 | 3470 | 1450 | 2730 |
| 13 | 1870 | 2800 | 1540 | 1980 | 2980 | 7250 | 6350 | 7750 | 6760 | 3410 | 1760 | 2840 |
| 14 | 1890 | 1980 | 1490 | 1810 | e2740 | 7200 | 6580 | 7580 | 6590 | 3180 | 1790 | 2850 |
| 15 | 1920 | 2120 | 2370 | 1720 | 3920 | 6720 | 6780 | 7600 | 6710 | 2980 | 1500 | 2830 |
| 16 | 1970 | 1740 | 1490 | 1740 | 4910 | 5990 | 6790 | 7450 | 6860 | 2980 | 1350 | 2770 |
| 17 | 1980 | 2070 | 1920 | 1430 | 6570 | 5180 | 6650 | 7290 | 6880 | 2610 | 1830 | 2770 |
| 18 | 1870 | 1890 | 2040 | 1990 | 9490 | 5250 | 6690 | 7150 | 6820 | 2520 | 1410 | 2750 |
| 19 | 1610 | 753 | 1850 | 3010 | 11400 | 5310 | 6890 | 7070 | 6580 | 2510 | 1410 | 2730 |
| 20 | 1520 | 2330 | 2250 | 2420 | 12000 | 5380 | 6550 | 7070 | 6420 | 2420 | 1890 | 2800 |
| 21 | 1730 | 3060 | 2120 | 2320 | 11500 | 5330 | 6200 | 7090 | 6150 | 2150 | 1840 | 2870 |
| 22 | 1880 | 1740 | 2070 | 2520 | 10200 | 5080 | 6070 | 7190 | 5990 | 1980 | 2570 | 2920 |
| 23 | 1720 | 2100 | 2020 | 2340 | 8590 | 4980 | 6170 | 7430 | 5900 | 1600 | 2020 | 2960 |
| 24 | 1860 | 1080 | 1830 | 2110 | 7330 | 4820 | 6450 | 7440 | 5620 | 2390 | 1940 | 3180 |
| 25 | 1890 | 2400 | 1530 | 2230 | 6720 | 4820 | 7160 | 7350 | 5630 | 2570 | 2400 | 3510 |
| 26 | 1940 | 2420 | 2010 | 2180 | e6640 | 4820 | 7890 | 7110 | 5700 | 2360 | 2080 | 3560 |
| 27 | 1950 | 2410 | 1770 | 2250 | 6690 | 4830 | 8310 | 6930 | 5680 | 2800 | 2270 | 3550 |
| 28 | 1910 | 2690 | 1840 | 1880 | 6360 | 4990 | 8500 | 6860 | 5670 | 2530 | 2210 | 3540 |
| 29 | 1930 | 1730 | 1830 | 2090 | --- | 5180 | 8470 | 7030 | 5470 | 2700 | 2410 | 3530 |
| 30 | 2200 | 2580 | 1910 | 1930 | --- | 5350 | 8340 | 7350 | 5190 | 2890 | 2080 | 3530 |
| 31 | 2150 | --- | 1680 | 2520 | --- | 5710 | --- | 7460 | --- | 2970 | 2520 | --- |
| TOTAL | 55850 | 62386 | 63520 | 64250 | 152240 | 177610 | 207710 | 232240 | 200700 | 101580 | 62940 | 86360 |
| MEAN | 1802 | 2080 | 2049 | 2073 | 5437 | 5729 | 6924 | 7492 | 6690 | 3277 | 2030 | 2879 |
| MAX | 2200 | 3420 | 2920 | 3010 | 12000 | 7470 | 8500 | 8220 | 7600 | 5140 | 2920 | 3560 |
| MIN | 1520 | 84 | 1490 | 1430 | 2000 | 4820 | 6070 | 6860 | 5190 | 1600 | 1350 | 2130 |
| ACFT | 110800 | 123700 | 126000 | 127400 | 302000 | 352300 | 412000 | 460600 | 398100 | 201500 | 124800 | 171300 |
| CAL YR 1985 | TOTAL | 783533 | MEAN | 2147 | MAX | 8550 | MIN | 29 | ACFT | 1554000 | | |
| WTR YR 1986 | TOTAL | 1467386 | MEAN | 4020 | MAX | 12000 | MIN | 84 | ACFT | 2911000 | | |

e Estimated.

BEAR RIVER BASIN

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 mi².

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 poor. Natural flow of stream affected by upstream reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--31 years, 2,026 ft³/s, 1,468,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,770 ft³/s May 19, 1984, gage height, 17.50 ft; minimum daily, 72 ft³/s Aug. 20, 21, 26, Sept. 8, 1964, July 5, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 12,000 ft³/s Feb. 20; minimum daily discharge, 674 ft³/s Nov. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| 1 | 1930 | 2360 | 2930 | e2100 | e2880 | 6670 | 5880 | 9900 | e7700 | 4890 | 3040 | e2520 |
| 2 | 1930 | 2420 | 2870 | e2500 | e3100 | 6440 | 6360 | 9740 | e7700 | 4850 | 3010 | e2700 |
| 3 | 1880 | 2590 | 2720 | e2300 | e3300 | 6330 | 6750 | 9170 | e7700 | 4720 | e2700 | e2960 |
| 4 | 1860 | 2910 | 2780 | e2400 | e3700 | 6100 | 7230 | 8510 | e7800 | 4540 | 2710 | e3000 |
| 5 | 1930 | 3090 | 3100 | e2220 | e3900 | 5930 | 7790 | 8140 | e7800 | 4350 | e2100 | e2800 |
| 6 | 1970 | 1590 | 3100 | e2480 | e3700 | 5890 | 7730 | 7830 | e7800 | 4300 | 2490 | e3160 |
| 7 | 2020 | 674 | 2660 | e2220 | e3500 | 5870 | 7240 | 8040 | e7800 | 4180 | e2080 | e2900 |
| 8 | 1990 | 1600 | 2590 | e2380 | e3300 | 5810 | 6870 | 8380 | e7800 | 4070 | 2520 | e3020 |
| 9 | 1960 | 2410 | 2440 | e2240 | e3260 | 5770 | 6680 | 8730 | e7800 | e3940 | e1800 | e2980 |
| 10 | 1870 | 2060 | 2720 | e2200 | e2340 | 5940 | 6510 | 8940 | e7600 | e3860 | 2080 | e2940 |
| 11 | 1930 | 2470 | e2600 | e1920 | e2700 | 6490 | 6500 | 9030 | 7390 | e3500 | 2180 | e2880 |
| 12 | 1960 | 2240 | e2300 | e1900 | e2780 | 7040 | 6500 | 8860 | 7280 | e3460 | 1700 | e2900 |
| 13 | 2000 | 2730 | e2440 | e2000 | e2400 | 7600 | 6510 | 8550 | 7120 | e3440 | 2000 | e3040 |
| 14 | 2020 | 2660 | e2200 | e2200 | e3400 | 7680 | 6500 | 8370 | 6760 | e3300 | 2080 | e3120 |
| 15 | 2040 | 2330 | e2120 | e2000 | e3900 | 7590 | 6610 | 8190 | 6500 | e3200 | 1800 | e3160 |
| 16 | 2090 | 2290 | e2560 | e1940 | e5100 | 7170 | 6780 | 7990 | 6460 | e3160 | 1640 | e3100 |
| 17 | 2120 | 2100 | e2100 | e1800 | e8400 | 6610 | 6830 | 7760 | 6500 | 2920 | 2060 | 3030 |
| 18 | 2110 | 2260 | e2300 | e1740 | e10300 | 6000 | 6750 | 7440 | 6510 | 2910 | 1700 | 3080 |
| 19 | 2030 | 2120 | e2400 | e2260 | e11400 | 5810 | 6760 | 7190 | 6420 | 2680 | 1640 | 3070 |
| 20 | 1840 | 1190 | e2320 | e3160 | e12000 | 5770 | 6850 | 7050 | 6210 | 2750 | 2160 | 3070 |
| 21 | 1860 | 2660 | e2480 | e2800 | e10800 | 5750 | 6700 | 6990 | 6020 | 2600 | 2160 | 3160 |
| 22 | 2080 | 3030 | e2400 | e2800 | e10400 | 5570 | 6400 | 6950 | 5810 | 2460 | 2660 | 3210 |
| 23 | 2100 | 3020 | e2300 | e2900 | e9800 | 5410 | 6280 | 6980 | 5670 | e2200 | 2500 | 3290 |
| 24 | 1970 | 2950 | e2200 | e2600 | e9200 | 5260 | 6320 | 7170 | 5520 | 2590 | 2200 | 3390 |
| 25 | 2040 | 2300 | e2000 | e2400 | e8800 | 5160 | 6560 | 7330 | 5320 | 2780 | 2480 | 3720 |
| 26 | 2070 | 2880 | e1780 | e2400 | e8100 | 5130 | 7020 | 7340 | 5340 | 2750 | e2400 | 3910 |
| 27 | 2090 | 2940 | e2180 | e2460 | e7600 | 5130 | 7830 | 7170 | 5340 | 2930 | e2420 | 3900 |
| 28 | 2090 | 2710 | e2000 | e2460 | e7000 | 5130 | 8830 | 6970 | 5320 | 2860 | e2410 | 3900 |
| 29 | 2050 | 2570 | e2000 | e2220 | --- | 5230 | 9630 | e7000 | 5310 | 2940 | e2530 | 3890 |
| 30 | 2080 | 2520 | e2000 | e2300 | --- | 5430 | 9910 | e7200 | 5040 | 3000 | e2340 | 3900 |
| 31 | 2220 | --- | e2060 | e2400 | --- | 5550 | --- | e7600 | --- | 3040 | e2700 | --- |
| TOTAL | 62130 | 71674 | 74650 | 71700 | 167060 | 187260 | 211110 | 246510 | 199340 | 105170 | 70290 | 95700 |
| MEAN | 2004 | 2389 | 2408 | 2313 | 5966 | 6041 | 7037 | 7952 | 6645 | 3393 | 2267 | 3190 |
| MAX | 2220 | 3090 | 3100 | 3160 | 12000 | 7680 | 9910 | 9900 | 7800 | 4890 | 3040 | 3910 |
| MIN | 1840 | 674 | 1780 | 1740 | 2340 | 5130 | 5880 | 6950 | 5040 | 2200 | 1640 | 2520 |
| ACFT | 123200 | 142200 | 148100 | 142200 | 331400 | 371400 | 418700 | 489000 | 395400 | 208600 | 139400 | 189800 |
| CAL YR 1985 | TOTAL | 958175 | MEAN | 2625 | MAX | 9400 | MIN | 196 | ACFT | 1901000 | | |
| WTR YR 1986 | TOTAL | 1562594 | MEAN | 4281 | MAX | 12000 | MIN | 674 | ACFT | 3099000 | | |

e Estimated.

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 microsiemens July 5, 1979; minimum daily, 440 microsiemens 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 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | PH (STAND- ARD UNITS) | TEMPER- ATURE, AIR (DEG C) | TEMPER- ATURE (DEG C) | TUR- BID- ITY (NTU) | OXYGEN, DIS- SOLVED (MG/L) | BARO- METRIC PRES- SURE (MM OF HG) | COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) | STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) |
|----------|------|---|---|--------------------------------|-------------------------------------|-----------------------------|------------------------------|-------------------------------------|--|--|--|
| DEC 1985 | | | | | | | | | | | |
| 04... | 1020 | 2680 | 1140 | 8.40 | 2.5 | 2.5 | 20 | 11.3 | 660 | 150 | 2500 |
| MAR 1986 | | | | | | | | | | | |
| 20... | 1335 | 5650 | 850 | 8.40 | 12.5 | 7.0 | 42 | 10.0 | 665 | -- | -- |
| MAY | | | | | | | | | | | |
| 02... | 1450 | 9980 | 700 | 8.40 | 21.0 | 15.0 | 24 | 9.2 | 655 | K130 | 250 |
| AUG | | | | | | | | | | | |
| 26... | 1500 | 2410 | 1120 | 8.50 | 31.0 | 23.0 | 64 | 7.4 | 660 | 280 | 450 |

| 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) | BICAR- BONATE IT-FLD (MG/L AS HCO3) | CAR- BONATE IT-FLD (MG/L AS CO3) | ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CACO3) |
|----------|--|---|--|--|--|-------------------|---|---|--|---|---|
| DEC 1985 | | | | | | | | | | | |
| 04... | 320 | 324 | 67 | 38 | 100 | 39 | 2 | 10 | 320 | 21 | 297 |
| MAR 1986 | | | | | | | | | | | |
| 20... | 280 | 276 | 61 | 30 | 74 | 36 | 2 | 8.4 | 285 | 6.0 | 244 |
| MAY | | | | | | | | | | | |
| 02... | 230 | 235 | 56 | 23 | 51 | 31 | 1 | 6.3 | 254 | 6.0 | 218 |
| AUG | | | | | | | | | | | |
| 26... | 290 | 286 | 57 | 35 | 110 | 44 | 3 | 12 | 308 | 10 | 269 |

| 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, NITRATE DIS- SOLVED (MG/L AS N) | NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) | NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) |
|----------|---|---|--|---|--|---|---|---|---|---|---|
| DEC 1985 | | | | | | | | | | | |
| 04... | 61 | 160 | 0.3 | 14 | 611 | 660 | 0.83 | 4420 | 1.18 | 0.02 | 1.20 |
| MAR 1986 | | | | | | | | | | | |
| 20... | 61 | 96 | 0.3 | 14 | 498 | 500 | 0.68 | 7600 | 1.08 | 0.02 | 1.10 |
| MAY | | | | | | | | | | | |
| 02... | 39 | 71 | 0.1 | 10 | 393 | 390 | 0.53 | 10600 | 0.53 | 0.02 | 0.55 |
| AUG | | | | | | | | | | | |
| 26... | 56 | 180 | 0.3 | 12 | 620 | 630 | 0.84 | 4030 | 0.41 | 0.02 | 0.43 |

| DATE | NITRO- GEN, AMMONIA TOTAL (MG/L AS N) | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) | NITRO- GEN, ORGANIC TOTAL (MG/L AS N) | NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) | PHOS- PHORUS, TOTAL (MG/L AS P) | PHOS- PHORUS TOTAL (MG/L AS PO4) | PHOS- PHORUS, 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 1985 | | | | | | | | | | |
| 04... | 0.25 | 0.25 | 0.32 | 0.55 | 0.8 | 0.18 | 0.55 | 0.10 | 0.10 | 0.31 |
| MAR 1986 | | | | | | | | | | |
| 20... | 0.05 | 0.05 | 0.06 | 0.75 | 0.8 | 0.11 | -- | 0.06 | 0.05 | 0.15 |
| MAY | | | | | | | | | | |
| 02... | 0.06 | 0.04 | 0.05 | 0.64 | 0.7 | 0.14 | -- | 0.04 | 0.04 | 0.12 |
| AUG | | | | | | | | | | |
| 26... | 0.04 | <0.01 | -- | 0.86 | 0.9 | 0.10 | -- | 0.02 | 0.02 | 0.06 |

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

BEAR RIVER BASIN

10126000 BEAR RIVER NEAR CORINNE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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) |
|-------------------|------|---|--|--|--|--|---|--|--|--|--|
| DEC 1985 04... | 1020 | <10 | 4 | 81 | <0.5 | 2 | <1 | <3 | 3 | 8 | 2 |
| MAR 1986 20... | 1335 | <10 | 4 | 74 | <0.5 | 1 | 2 | <3 | 2 | 4 | <1 |
| MAY 02... | 1450 | 10 | 3 | 62 | <0.5 | <1 | <1 | <3 | 2 | 5 | 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) |
|-------------------|--|--|--|---|--|---|--|--|--|--|
| DEC 1985 04... | 81 | 5 | <0.1 | <10 | 1 | 1 | <1 | 490 | <6 | 18 |
| MAR 1986 20... | 57 | 5 | <0.1 | <10 | <1 | 1 | <1 | 380 | <6 | 9 |
| MAY 02... | 43 | 3 | <0.1 | <10 | 3 | <1 | <1 | 3 | <6 | 14 |

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) |
|-------------------|------|---|-----------------------------|--|---|---|
| MAR 1986 20... | 1335 | 5650 | 7.0 | 69 | 51 | 778 |
| MAY 02... | 1450 | 9980 | 15.0 | 54 | 220 | 5930 |
| AUG 26... | 1500 | 2410 | 23.0 | 92 | 228 | 1480 |

BEAR RIVER BASIN

257

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 mi².

PERIOD OF RECORD.--September 1971 to September 1986 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,228.8 ft.

REMARKS.--Records good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--15 years, 62.6 ft³/s, 45,350 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 326 ft³/s Feb. 19, 1986, gage height, 3.39 ft; minimum observed, 3.7 ft³/s Feb. 13, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 326 ft³/s Feb. 19, gage height, 3.39 ft; minimum daily discharge, 14 ft³/s many days during March, April, and May.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 60 | 45 | 46 | e42 | 36 | e28 | e16 | e16 | e16 | 31 | 43 | 32 |
| 2 | 46 | 44 | 47 | e44 | 36 | e26 | e24 | e14 | e17 | 30 | 38 | 32 |
| 3 | 40 | 44 | 51 | e45 | 37 | e25 | e18 | e14 | e17 | 27 | 33 | 31 |
| 4 | 38 | 43 | 54 | e44 | 37 | e25 | e16 | e14 | e17 | 30 | 34 | 31 |
| 5 | 44 | 43 | 65 | e41 | 35 | e24 | e15 | e15 | e17 | 36 | 30 | 35 |
| 6 | 48 | 42 | 63 | e43 | 35 | e24 | e15 | e15 | e17 | 36 | 29 | 34 |
| 7 | 52 | 41 | 60 | e44 | 36 | e25 | e15 | e17 | e18 | 36 | 28 | 35 |
| 8 | 48 | 42 | 58 | e39 | 35 | e28 | e14 | e18 | e20 | 32 | 27 | 38 |
| 9 | 45 | 43 | 56 | e37 | e34 | e32 | e15 | e15 | e22 | 32 | 26 | 37 |
| 10 | 44 | 43 | 53 | e39 | e31 | e34 | e16 | e16 | e20 | 37 | 25 | 41 |
| 11 | 43 | 45 | e47 | e41 | e33 | e36 | e15 | e16 | e20 | 40 | 28 | 41 |
| 12 | 44 | 44 | e39 | e40 | e33 | e39 | e16 | e15 | e20 | 37 | 32 | 43 |
| 13 | 44 | 44 | e41 | e39 | 33 | e34 | e18 | e15 | e18 | 33 | 31 | 45 |
| 14 | 43 | 43 | 41 | e37 | 34 | e29 | e17 | e15 | e18 | 38 | 30 | 47 |
| 15 | 43 | 41 | 45 | e40 | 56 | e28 | e16 | e15 | e19 | 35 | 29 | 52 |
| 16 | 43 | 40 | 43 | e43 | 89 | e30 | e18 | e15 | e20 | 29 | 27 | 51 |
| 17 | 44 | 40 | 44 | 45 | 148 | e32 | e16 | e14 | e20 | 26 | 26 | 50 |
| 18 | 45 | 42 | 46 | 47 | 267 | e28 | e15 | e14 | e21 | 25 | 25 | 54 |
| 19 | 45 | 41 | 45 | 50 | 308 | e25 | e15 | e14 | 22 | 23 | 23 | 56 |
| 20 | 45 | 40 | 41 | 56 | 255 | e21 | e15 | e14 | 25 | 26 | 22 | 60 |
| 21 | 45 | 40 | e40 | 66 | 156 | e19 | e14 | e14 | 26 | 32 | 29 | 62 |
| 22 | 46 | 42 | e38 | 56 | 90 | e17 | e14 | e16 | 28 | 35 | 40 | 62 |
| 23 | 45 | 43 | e38 | 35 | 59 | e16 | e15 | e15 | 36 | 39 | 40 | 64 |
| 24 | 46 | 41 | e38 | 35 | 46 | e15 | e15 | e15 | 29 | 46 | 34 | 68 |
| 25 | 45 | 43 | e37 | 36 | 41 | e15 | e26 | e15 | 29 | 52 | 32 | 77 |
| 26 | 44 | 45 | e37 | 36 | 36 | e15 | e20 | e15 | 29 | 53 | 31 | 76 |
| 27 | 44 | 45 | e38 | 35 | e33 | e15 | e17 | e16 | 29 | 62 | 29 | 77 |
| 28 | 43 | 45 | e39 | 33 | e30 | e14 | e23 | e16 | 25 | 68 | 27 | 75 |
| 29 | 44 | 46 | e39 | 34 | --- | e14 | e22 | e16 | 24 | 62 | 25 | 68 |
| 30 | 45 | 46 | e40 | 35 | --- | e14 | e18 | e16 | 29 | 54 | 24 | 66 |
| 31 | 46 | --- | e41 | 44 | --- | e16 | --- | e16 | --- | 51 | 24 | --- |
| TOTAL | 1397 | 1286 | 1410 | 1301 | 2099 | 743 | 509 | 471 | 668 | 1193 | 921 | 1540 |
| MEAN | 45.1 | 42.9 | 45.5 | 42.0 | 75.0 | 24.0 | 17.0 | 15.2 | 22.3 | 38.5 | 29.7 | 51.3 |
| MAX | 60 | 46 | 65 | 66 | 308 | 39 | 26 | 18 | 36 | 68 | 43 | 77 |
| MIN | 38 | 40 | 37 | 33 | 30 | 14 | 14 | 14 | 16 | 23 | 22 | 31 |
| ACFT | 2770 | 2550 | 2800 | 2580 | 4160 | 1470 | 1010 | 934 | 1320 | 2370 | 1830 | 3050 |

| | | | | | | | | | | |
|-------------|-------|---------|------|------|-----|-----|-----|-----|------|-------|
| CAL YR 1985 | TOTAL | 15363.3 | MEAN | 42.1 | MAX | 111 | MIN | 3.7 | ACFT | 30470 |
| WTR YR 1986 | TOTAL | 13538 | MEAN | 37.1 | MAX | 308 | MIN | 14 | ACFT | 26850 |

e Estimated.

BEAR RIVER BASIN

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 September 1986 (discontinued).

REMARKS.--Records fair including estimated daily discharges. Record is computed by subtracting water diverted from the West Side Canal into Salt Spring from the record for station 10127050.

AVERAGE DISCHARGE.--7 years, 24.6 ft³/s, 17,820 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 36 ft³/s Apr. 27-May 7, 1984; minimum daily, 17 ft³/s Nov. 14-20, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 32 ft³/s May 31, June 2; minimum daily, 24 ft³/s Sept. 20-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|------|------|-------|------|------|
| 1 | e30 | e28 | 27 | 28 | 26 | 26 | 30 | 30 | 31 | 31 | e28 | e25 |
| 2 | e30 | e28 | 27 | 29 | e26 | 26 | 31 | 30 | 32 | e31 | e28 | e25 |
| 3 | e30 | e28 | 27 | 29 | e26 | 27 | 31 | 30 | 31 | e31 | e28 | e25 |
| 4 | e30 | e28 | 27 | 29 | e26 | 27 | 31 | 30 | 31 | e31 | e28 | e25 |
| 5 | e30 | e28 | 27 | 28 | 26 | 27 | 31 | 30 | e31 | e31 | e28 | e25 |
| 6 | e30 | e28 | 28 | 28 | 26 | 27 | 31 | 30 | e31 | e31 | e28 | e25 |
| 7 | e30 | e28 | 28 | 28 | 25 | 27 | 31 | 30 | e30 | e31 | e28 | e25 |
| 8 | e30 | e28 | 28 | 28 | 25 | 28 | 30 | 30 | e30 | e31 | e28 | e25 |
| 9 | e30 | e28 | 28 | 28 | 25 | 28 | 31 | 30 | e30 | e30 | e28 | e25 |
| 10 | e30 | e28 | 28 | 28 | 25 | 28 | 31 | 30 | e30 | e30 | e27 | e25 |
| 11 | e30 | e28 | 28 | 28 | 25 | 28 | 31 | 30 | e30 | e30 | e27 | e25 |
| 12 | e30 | e28 | 28 | 27 | 25 | e28 | 31 | 30 | 31 | e30 | e27 | e25 |
| 13 | e30 | e28 | 27 | 27 | 25 | e28 | 31 | 30 | 31 | e30 | e27 | e25 |
| 14 | e30 | 28 | 28 | 27 | 25 | e28 | 31 | 30 | 31 | e30 | e27 | e25 |
| 15 | e30 | 28 | 28 | 27 | e25 | 28 | 31 | 30 | 31 | e30 | e27 | e25 |
| 16 | e29 | 28 | 27 | 27 | e25 | 29 | 31 | 30 | 31 | e30 | e27 | e25 |
| 17 | e29 | 28 | 27 | 27 | e25 | 29 | 31 | 30 | 31 | e30 | e27 | e25 |
| 18 | e29 | 28 | 28 | 27 | e25 | 29 | 31 | 30 | 31 | e30 | e27 | e25 |
| 19 | e29 | e28 | 28 | 27 | e25 | 29 | 31 | 30 | 31 | e30 | e27 | e25 |
| 20 | e29 | e28 | 28 | 27 | e25 | 29 | 31 | 30 | 31 | e29 | e26 | e24 |
| 21 | e29 | e28 | 28 | 27 | e26 | 29 | 31 | 30 | 31 | e29 | e26 | e24 |
| 22 | e29 | e28 | 28 | 27 | e26 | 29 | 31 | e30 | 31 | e29 | e26 | e24 |
| 23 | e29 | e28 | 27 | 27 | e26 | 29 | 31 | e30 | 31 | e29 | e26 | e24 |
| 24 | e29 | 28 | 27 | 27 | e26 | 29 | 30 | e30 | 31 | e29 | e26 | e24 |
| 25 | e29 | 28 | 27 | 27 | 26 | 29 | 31 | e30 | 31 | e29 | e26 | e24 |
| 26 | e29 | 27 | 28 | 27 | 27 | 29 | 31 | e31 | 31 | e29 | e26 | e24 |
| 27 | e29 | 27 | 28 | 27 | 26 | 29 | 31 | 31 | 31 | e29 | e26 | e24 |
| 28 | e29 | 27 | 28 | 27 | 26 | 30 | 31 | e31 | e31 | e29 | e26 | e24 |
| 29 | e29 | 28 | 28 | 27 | --- | 30 | 31 | 31 | e31 | e29 | e26 | e24 |
| 30 | e29 | 28 | 27 | 27 | --- | 30 | 30 | 31 | e31 | e29 | e26 | e24 |
| 31 | e29 | --- | 28 | 26 | --- | 30 | --- | 32 | --- | e28 | e25 | --- |
| TOTAL | 914 | 837 | 856 | 850 | 715 | 879 | 926 | 937 | 926 | 925 | 833 | 739 |
| MEAN | 29.5 | 27.9 | 27.6 | 27.4 | 25.5 | 28.4 | 30.9 | 30.2 | 30.9 | 29.8 | 26.9 | 24.6 |
| MAX | 30 | 28 | 28 | 29 | 27 | 30 | 31 | 32 | 32 | 31 | 28 | 25 |
| MIN | 29 | 27 | 27 | 26 | 25 | 26 | 30 | 30 | 30 | 28 | 25 | 24 |
| ACFT | 1810 | 1660 | 1700 | 1690 | 1420 | 1740 | 1840 | 1860 | 1840 | 1830 | 1650 | 1470 |
| CAL YR 1985 | TOTAL | 10462 | MEAN | 28.7 | MAX | 32 | MIN | 27 | ACFT | 20750 | | |
| WTR YR 1986 | TOTAL | 10337 | MEAN | 28.3 | MAX | 32 | MIN | 24 | ACFT | 20500 | | |

e Estimated.

BEAR RIVER BASIN

259

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 September 1986 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,280 ft from topographic map.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--7 years, 45.7 ft³/s, 33,110 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 213 ft³/s Feb. 18, 1986, gage height, 6.67 ft; minimum, 19 ft³/s Apr. 29, 30, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 213 ft³/s Feb. 18, gage height, 6.67 ft; minimum daily discharge, 25 ft³/s, Feb. 7-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|------|------|-------|------|------|
| 1 | 96 | 79 | 27 | 28 | 26 | 26 | 30 | 30 | 31 | 31 | 90 | 56 |
| 2 | 112 | 79 | 27 | 29 | 29 | 26 | 31 | 30 | 32 | 32 | 80 | 52 |
| 3 | 115 | 80 | 27 | 29 | 27 | 27 | 31 | 30 | 31 | 41 | 59 | 53 |
| 4 | 107 | 78 | 27 | 29 | 27 | 27 | 31 | 30 | 31 | 57 | 43 | 55 |
| 5 | 102 | 71 | 27 | 28 | 26 | 27 | 31 | 30 | 32 | 61 | 38 | 52 |
| 6 | 102 | 73 | 28 | 28 | 26 | 27 | 31 | 30 | 33 | 65 | 39 | 53 |
| 7 | 107 | 81 | 28 | 28 | 25 | 27 | 31 | 30 | 34 | 71 | 38 | 53 |
| 8 | 95 | 81 | 28 | 28 | 25 | 28 | 30 | 30 | 38 | 72 | 41 | 55 |
| 9 | 94 | 81 | 28 | 28 | 25 | 28 | 31 | 30 | 41 | 73 | 38 | 70 |
| 10 | 94 | 81 | 28 | 28 | 25 | 28 | 31 | 30 | 34 | 73 | 35 | 82 |
| 11 | 84 | 82 | 28 | 28 | 25 | 28 | 31 | 30 | 33 | 74 | 34 | 78 |
| 12 | 88 | 52 | 28 | 27 | 25 | 30 | 31 | 30 | 31 | 83 | 34 | 77 |
| 13 | 88 | 29 | 27 | 27 | 25 | 30 | 31 | 30 | 31 | 85 | 37 | 89 |
| 14 | 88 | 28 | 28 | 27 | 25 | 29 | 31 | 30 | 31 | 86 | 39 | 93 |
| 15 | 89 | 28 | 28 | 27 | 63 | 28 | 31 | 30 | 31 | 85 | 43 | 93 |
| 16 | 88 | 28 | 27 | 27 | 58 | 29 | 31 | 30 | 31 | 84 | 42 | 94 |
| 17 | 87 | 28 | 27 | 27 | 94 | 29 | 31 | 30 | 31 | 84 | 40 | 92 |
| 18 | 86 | 28 | 28 | 27 | 165 | 29 | 31 | 30 | 31 | 78 | 41 | 94 |
| 19 | 85 | 30 | 28 | 27 | 130 | 29 | 31 | 30 | 31 | 73 | 42 | 110 |
| 20 | 85 | 30 | 28 | 27 | 84 | 29 | 31 | 30 | 31 | 74 | 48 | 120 |
| 21 | 84 | 30 | 28 | 27 | 41 | 29 | 31 | 30 | 31 | 75 | 81 | 121 |
| 22 | 85 | 29 | 28 | 27 | 34 | 29 | 31 | 49 | 31 | 74 | 65 | 121 |
| 23 | 86 | 29 | 27 | 27 | 30 | 29 | 31 | 57 | 31 | 87 | 71 | 120 |
| 24 | 80 | 28 | 27 | 27 | 27 | 29 | 30 | 32 | 31 | 127 | 91 | 121 |
| 25 | 79 | 28 | 27 | 27 | 26 | 29 | 31 | 33 | 31 | 122 | 90 | 118 |
| 26 | 80 | 27 | 28 | 27 | 27 | 29 | 31 | 32 | 31 | 126 | 75 | 113 |
| 27 | 79 | 27 | 28 | 27 | 26 | 29 | 31 | 31 | 31 | 129 | 69 | 113 |
| 28 | 79 | 27 | 28 | 27 | 26 | 30 | 31 | 33 | 37 | 127 | 56 | 114 |
| 29 | 79 | 28 | 28 | 27 | --- | 30 | 31 | 31 | 40 | 120 | 46 | 115 |
| 30 | 78 | 28 | 27 | 27 | --- | 30 | 30 | 31 | 36 | 113 | 46 | 115 |
| 31 | 79 | --- | 28 | 26 | --- | 30 | --- | 32 | --- | 104 | 56 | --- |
| TOTAL | 2780 | 1428 | 856 | 850 | 1192 | 884 | 926 | 991 | 979 | 2586 | 1647 | 2692 |
| MEAN | 89.7 | 47.6 | 27.6 | 27.4 | 42.6 | 28.5 | 30.9 | 32.0 | 32.6 | 83.4 | 53.1 | 89.7 |
| MAX | 115 | 82 | 28 | 29 | 165 | 30 | 31 | 57 | 41 | 129 | 91 | 121 |
| MIN | 78 | 27 | 27 | 26 | 25 | 26 | 30 | 30 | 31 | 31 | 34 | 52 |
| ACFT | 5510 | 2830 | 1700 | 1690 | 2360 | 1750 | 1840 | 1970 | 1940 | 5130 | 3270 | 5340 |
| CAL YR 1985 | TOTAL | 17634 | MEAN | 48.3 | MAX | 141 | MIN | 27 | ACFT | 34980 | | |
| WTR YR 1986 | TOTAL | 17811 | MEAN | 48.8 | MAX | 165 | MIN | 25 | ACFT | 35330 | | |

BEAR RIVER BASIN

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 mi².

PERIOD OF RECORD.--September 1971 to September 1986 (discontinued).

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 except for estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--15 years, 56.5 ft³/s, 40,930 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 331 ft³/s Feb. 20, 1986, gage height, 4.22 ft; minimum, 2.7 ft³/s July 14, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 331 ft³/s Feb. 20, gage height, 4.22 ft; minimum daily, 21 ft³/s Aug. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|-------|------|------|------|------|-------|------|------|
| 1 | 57 | 62 | e84 | 70 | 200 | 185 | 133 | 190 | 55 | 26 | 26 | 25 |
| 2 | 57 | 61 | e94 | 70 | 195 | 179 | 163 | 182 | 53 | 28 | 26 | 29 |
| 3 | 56 | 60 | e108 | 70 | 201 | 172 | 164 | 186 | 53 | 31 | 27 | 27 |
| 4 | 53 | 60 | e108 | 69 | 204 | 165 | 150 | 182 | 52 | 37 | 26 | 26 |
| 5 | 52 | 61 | e92 | 69 | 195 | 159 | 146 | 182 | 55 | 31 | 25 | 26 |
| 6 | 53 | 62 | e90 | 70 | 187 | 153 | 143 | 163 | 52 | 29 | 29 | 28 |
| 7 | 59 | 62 | e92 | 69 | 191 | 151 | 141 | 144 | 50 | 33 | 29 | 30 |
| 8 | 70 | 62 | e96 | 69 | 164 | 157 | 139 | 130 | 44 | 28 | 24 | 33 |
| 9 | 70 | 63 | e94 | 60 | 155 | 242 | 146 | 132 | 44 | 27 | 23 | 29 |
| 10 | 67 | 64 | e90 | 57 | 139 | 213 | 150 | 141 | 42 | 27 | 24 | 37 |
| 11 | 66 | 66 | e84 | 56 | 122 | 195 | 152 | 119 | 41 | 25 | 25 | 40 |
| 12 | 66 | 70 | e78 | 56 | 104 | 187 | 157 | 107 | 39 | 24 | 27 | 38 |
| 13 | 66 | 72 | e76 | 57 | 144 | 173 | 168 | 102 | 39 | 26 | 21 | 41 |
| 14 | 64 | 76 | e82 | 57 | 162 | 164 | 165 | 92 | 35 | 28 | 22 | 38 |
| 15 | 64 | 79 | 76 | 57 | 186 | 160 | 153 | 89 | 34 | 32 | 22 | 35 |
| 16 | 64 | 82 | 76 | 56 | 196 | 157 | 151 | 85 | 35 | 33 | 22 | 38 |
| 17 | 64 | 81 | 76 | 58 | 239 | 170 | 151 | 82 | 37 | 24 | 23 | 38 |
| 18 | 64 | 80 | 76 | 60 | 299 | 166 | 143 | 80 | 42 | 26 | 22 | 43 |
| 19 | 61 | 78 | 76 | 62 | 306 | 155 | 139 | 77 | 33 | 23 | 24 | 53 |
| 20 | 59 | 85 | 77 | 66 | 313 | 151 | 135 | 75 | 31 | 24 | 23 | 58 |
| 21 | 58 | 91 | 77 | 74 | 299 | 148 | 131 | 75 | 31 | 24 | 31 | 61 |
| 22 | 60 | 84 | 76 | 71 | 259 | 144 | 131 | 70 | 30 | 30 | 25 | 56 |
| 23 | 63 | 80 | 74 | 67 | 229 | 141 | 144 | 71 | 30 | 35 | 27 | 50 |
| 24 | 63 | 81 | 72 | 67 | 223 | 140 | 160 | 69 | 30 | 32 | 30 | 59 |
| 25 | 65 | e84 | 71 | 65 | 216 | 138 | 179 | 67 | 32 | 31 | 29 | 85 |
| 26 | 64 | e86 | 70 | 64 | 208 | 132 | 201 | 66 | 31 | 33 | 25 | 132 |
| 27 | 64 | e82 | 70 | 62 | 198 | 121 | 178 | 64 | 31 | 33 | 24 | 97 |
| 28 | 64 | e88 | 70 | 62 | 193 | 118 | 178 | 62 | 36 | 29 | 29 | 104 |
| 29 | 62 | e92 | 69 | 62 | --- | 125 | 208 | 60 | 33 | 32 | 29 | 98 |
| 30 | 62 | e89 | 69 | 68 | --- | 125 | 203 | 58 | 28 | 28 | 26 | 92 |
| 31 | 62 | --- | 69 | 166 | --- | 132 | --- | 57 | --- | 27 | 26 | --- |
| TOTAL | 1919 | 2243 | 2512 | 2086 | 5727 | 4918 | 4702 | 3259 | 1178 | 896 | 791 | 1546 |
| MEAN | 61.9 | 74.8 | 81.0 | 67.3 | 205 | 159 | 157 | 105 | 39.3 | 28.9 | 25.5 | 51.5 |
| MAX | 70 | 92 | 108 | 166 | 313 | 242 | 208 | 190 | 55 | 37 | 31 | 132 |
| MIN | 52 | 60 | 69 | 56 | 104 | 118 | 131 | 57 | 28 | 23 | 21 | 25 |
| ACFT | 3810 | 4450 | 4980 | 4140 | 11360 | 9750 | 9330 | 6460 | 2340 | 1780 | 1570 | 3070 |
| CAL YR 1985 | TOTAL | 23571 | MEAN | 64.6 | MAX | 261 | MIN | 11 | ACFT | 46750 | | |
| WTR YR 1986 | TOTAL | 31777 | MEAN | 87.1 | MAX | 313 | MIN | 21 | ACFT | 63030 | | |

e Estimated.

BEAR RIVER BASIN

261

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 September 1986 (discontinued).

REMARKS.--No estimated daily discharges. 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.--15 years, 2,661 ft³/s, 1,928,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 14,600 ft³/s May 19, 1984; minimum daily, 240 ft³/s Apr. 26, 27, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 12,800 ft³/s Feb. 20; minimum daily, 892 ft³/s Nov. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| 1 | 2230 | 2590 | 3160 | 2280 | 3230 | 6970 | 6110 | 10200 | 7950 | 5170 | 3350 | 2820 |
| 2 | 2210 | 2650 | 3120 | 2680 | 3420 | 6730 | 6660 | 10000 | 7960 | 5120 | 3310 | 3000 |
| 3 | 2140 | 2820 | 2990 | 2490 | 3620 | 6610 | 7030 | 9460 | 7960 | 4990 | 2990 | 3260 |
| 4 | 2120 | 3130 | 3060 | 2580 | 4010 | 6370 | 7480 | 8800 | 8060 | 4830 | 3000 | 3300 |
| 5 | 2190 | 3310 | 3360 | 2400 | 4200 | 6190 | 8040 | 8430 | 8090 | 4640 | 2390 | 3100 |
| 6 | 2230 | 1810 | 3350 | 2660 | 3990 | 6140 | 7970 | 8100 | 8080 | 4580 | 2780 | 3460 |
| 7 | 2290 | 892 | 2900 | 2400 | 3790 | 6120 | 7480 | 8300 | 8080 | 4470 | 2370 | 3200 |
| 8 | 2270 | 1820 | 2850 | 2560 | 3560 | 6090 | 7110 | 8630 | 8100 | 4350 | 2800 | 3330 |
| 9 | 2250 | 2640 | 2690 | 2400 | 3510 | 6150 | 6930 | 8970 | 8100 | 4220 | 2080 | 3300 |
| 10 | 2150 | 2300 | 2960 | 2350 | 2570 | 6310 | 6770 | 9190 | 7900 | 4140 | 2360 | 3260 |
| 11 | 2200 | 2710 | 2820 | 2070 | 2920 | 6840 | 6760 | 9260 | 7680 | 3780 | 2470 | 3200 |
| 12 | 2230 | 2490 | 2500 | 2050 | 2980 | 7380 | 6770 | 9070 | 7570 | 3730 | 2000 | 3220 |
| 13 | 2270 | 2990 | 2640 | 2150 | 2670 | 7920 | 6800 | 8760 | 7410 | 3710 | 2290 | 3370 |
| 14 | 2280 | 2910 | 2410 | 2350 | 3690 | 7960 | 6780 | 8570 | 7050 | 3580 | 2370 | 3450 |
| 15 | 2300 | 2570 | 2320 | 2150 | 4240 | 7860 | 6870 | 8390 | 6780 | 3480 | 2090 | 3480 |
| 16 | 2340 | 2520 | 2760 | 2100 | 5500 | 7450 | 7050 | 8180 | 6750 | 3440 | 1930 | 3420 |
| 17 | 2370 | 2330 | 2300 | 1960 | 8990 | 6910 | 7090 | 7950 | 6790 | 3180 | 2340 | 3350 |
| 18 | 2360 | 2520 | 2500 | 1910 | 11100 | 6290 | 7000 | 7640 | 6810 | 3170 | 1980 | 3440 |
| 19 | 2280 | 2360 | 2600 | 2430 | 12300 | 6080 | 7000 | 7380 | 6710 | 2930 | 1920 | 3430 |
| 20 | 2080 | 1430 | 2520 | 3350 | 12800 | 6030 | 7090 | 7240 | 6500 | 3010 | 2430 | 3440 |
| 21 | 2100 | 2890 | 2670 | 3010 | 11500 | 6000 | 6930 | 7180 | 6310 | 2860 | 2450 | 3530 |
| 22 | 2330 | 3260 | 2590 | 3000 | 10900 | 5810 | 6630 | 7140 | 6100 | 2730 | 2980 | 3570 |
| 23 | 2350 | 3250 | 2490 | 3070 | 10200 | 5650 | 6530 | 7180 | 5960 | 2490 | 2810 | 3640 |
| 24 | 2220 | 3190 | 2380 | 2770 | 9590 | 5500 | 6600 | 7370 | 5810 | 2890 | 2510 | 3750 |
| 25 | 2290 | 2540 | 2180 | 2570 | 9170 | 5400 | 6890 | 7540 | 5610 | 3100 | 2780 | 4140 |
| 26 | 2310 | 3120 | 1960 | 2560 | 8440 | 5360 | 7370 | 7550 | 5630 | 3070 | 2690 | 4410 |
| 27 | 2330 | 3170 | 2360 | 2620 | 7920 | 5340 | 8150 | 7390 | 5630 | 3280 | 2710 | 4350 |
| 28 | 2330 | 2940 | 2180 | 2620 | 7310 | 5340 | 9140 | 7200 | 5610 | 3210 | 2700 | 4340 |
| 29 | 2280 | 2810 | 2180 | 2380 | --- | 5440 | 9980 | 7240 | 5590 | 3280 | 2810 | 4320 |
| 30 | 2320 | 2760 | 2180 | 2480 | --- | 5640 | 10300 | 7440 | 5320 | 3330 | 2640 | 4330 |
| 31 | 2460 | --- | 2240 | 2710 | --- | 5770 | --- | 7850 | --- | 3360 | 2990 | --- |
| TOTAL | 70110 | 78722 | 81220 | 77110 | 178120 | 195650 | 219310 | 253600 | 207900 | 114120 | 79320 | 106210 |
| MEAN | 2262 | 2624 | 2620 | 2487 | 6361 | 6311 | 7310 | 8181 | 6930 | 3681 | 2559 | 3540 |
| MAX | 2460 | 3310 | 3360 | 3350 | 12800 | 7960 | 10300 | 10200 | 8100 | 5170 | 3350 | 4410 |
| MIN | 2080 | 892 | 1960 | 1910 | 2570 | 5340 | 6110 | 7140 | 5320 | 2490 | 1920 | 2820 |
| ACFT | 139100 | 156100 | 161100 | 152900 | 353300 | 388100 | 435000 | 503000 | 412400 | 226400 | 157300 | 210700 |
| CAL YR 1985 | TOTAL | 1050131 | MEAN | 2877 | MAX | 9650 | MIN | 471 | ACFT | 2083000 | | |
| WTR YR 1986 | TOTAL | 1661392 | MEAN | 4552 | MAX | 12800 | MIN | 892 | ACFT | 3295000 | | |

WEBER RIVER BASIN

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 mi².

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 except for estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--12 years, 63.4 ft³/s, 45,930 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 885 ft³/s June 4, 1986, gage height, 5.52 ft; minimum, 6.8 ft³/s Jan. 3, Apr. 21, Sept. 22, 23, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 885 ft³/s June 4, gage height, 5.52 ft; minimum daily, 18 ft³/s Sept. 18, 21, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|-------|-------|-------|------|------|
| 1 | 22 | 33 | 26 | e22 | 21 | 28 | 99 | 122 | 614 | 222 | 42 | 23 |
| 2 | 21 | 33 | 26 | 22 | 21 | 30 | 89 | 170 | 710 | 209 | 41 | 23 |
| 3 | 21 | 33 | 26 | 22 | 21 | 31 | 75 | 256 | 682 | 212 | 39 | 23 |
| 4 | 20 | 32 | 26 | e22 | 21 | 33 | 65 | 297 | 747 | 212 | 38 | 22 |
| 5 | 20 | 34 | 25 | 22 | 20 | 34 | 59 | 235 | 732 | 205 | 36 | 22 |
| 6 | 21 | 29 | 25 | 21 | 21 | 36 | 58 | 198 | 701 | 171 | 34 | 21 |
| 7 | 43 | 30 | 26 | e21 | e21 | 36 | 67 | 169 | 591 | 155 | 35 | 21 |
| 8 | 33 | 31 | 25 | e21 | e21 | 38 | 63 | 154 | 579 | 138 | 33 | 20 |
| 9 | 31 | 28 | 25 | 21 | e21 | 42 | 59 | 138 | 472 | 134 | 32 | 22 |
| 10 | 31 | 27 | 25 | 21 | e21 | 38 | 55 | 124 | 420 | 121 | 30 | 23 |
| 11 | 33 | 31 | e25 | 21 | 21 | 36 | 55 | 125 | 457 | 110 | 29 | 21 |
| 12 | 34 | 30 | e26 | 21 | 20 | 34 | 56 | 128 | 475 | 105 | 30 | 21 |
| 13 | 32 | 30 | 26 | 21 | 20 | 32 | 58 | 133 | 518 | 98 | 28 | 20 |
| 14 | 29 | 29 | 26 | 21 | 21 | 31 | 52 | 138 | 536 | 93 | 27 | 19 |
| 15 | 29 | 28 | 25 | 21 | 23 | 29 | 48 | 138 | 535 | 91 | 26 | 20 |
| 16 | 29 | 29 | 24 | 22 | 22 | 28 | 49 | 137 | 517 | 106 | 25 | 19 |
| 17 | 29 | 29 | 24 | 21 | 24 | 27 | 48 | 134 | 510 | 91 | 25 | 19 |
| 18 | 29 | 28 | 24 | 21 | 25 | 27 | 44 | 145 | 504 | 80 | 24 | 18 |
| 19 | 29 | 27 | 23 | 21 | 32 | 25 | 42 | 197 | 454 | 74 | 24 | 20 |
| 20 | 30 | 28 | 23 | 20 | 33 | 25 | 46 | 316 | 405 | 68 | 30 | 19 |
| 21 | 33 | 27 | 23 | 21 | 29 | 25 | 55 | 377 | 356 | 64 | 41 | 18 |
| 22 | 46 | 27 | 23 | 21 | 27 | 27 | 86 | 394 | 332 | 66 | 28 | 18 |
| 23 | 39 | 26 | 23 | 20 | 25 | 28 | 125 | 328 | 329 | 71 | 26 | 19 |
| 24 | 38 | 27 | 23 | 20 | 25 | 32 | 136 | 314 | 301 | 88 | 26 | 24 |
| 25 | 40 | 28 | 23 | e20 | 28 | 34 | 128 | 388 | 267 | 85 | 25 | 28 |
| 26 | 40 | 27 | 23 | 20 | 28 | 33 | 105 | 459 | 268 | 79 | 24 | 26 |
| 27 | 40 | 26 | 22 | 20 | 28 | 37 | 99 | 558 | 284 | 59 | 24 | 27 |
| 28 | 39 | 26 | 22 | 21 | 27 | 45 | 96 | 577 | 287 | 52 | 24 | 27 |
| 29 | 37 | 27 | 22 | 22 | --- | 61 | 99 | 576 | 279 | 48 | 26 | 26 |
| 30 | 36 | 26 | e22 | 22 | --- | 81 | 104 | 596 | 253 | 45 | 25 | 26 |
| 31 | 37 | --- | e22 | 22 | --- | 99 | --- | 635 | --- | 43 | 24 | --- |
| TOTAL | 991 | 866 | 749 | 654 | 667 | 1142 | 2220 | 8656 | 14115 | 3395 | 921 | 655 |
| MEAN | 32.0 | 28.9 | 24.2 | 21.1 | 23.8 | 36.8 | 74.0 | 279 | 471 | 110 | 29.7 | 21.8 |
| MAX | 46 | 34 | 26 | 22 | 33 | 99 | 136 | 635 | 747 | 222 | 42 | 28 |
| MIN | 20 | 26 | 22 | 20 | 20 | 25 | 42 | 122 | 253 | 43 | 24 | 18 |
| ACFT | 1970 | 1720 | 1490 | 1300 | 1320 | 2270 | 4400 | 17170 | 28000 | 6730 | 1830 | 1300 |
| CAL YR 1985 | TOTAL | 25991 | MEAN | 71.2 | MAX | 471 | MIN | 10 | ACFT | 51550 | | |
| WTR YR 1986 | TOTAL | 35031 | MEAN | 96.0 | MAX | 747 | MIN | 18 | ACFT | 69480 | | |

e Estimated.

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 mi².

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. Aug. 29, 1955 to Oct. 27, 1981 at site 0.3 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, 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.--82 years, 224 ft³/s, 162,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,170 ft³/s June 13, 1921, gage height, 9.0 ft, site and datum then in use, from rating curve extended above 2,000 ft³/s; minimum observed, 15 ft³/s Dec. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|--------------------------------|------------------|---------|------|--------------------------------|------------------|
| May 3 | 1700 | 1,400 | 7.63 | June 15 | 0100 | 2,640 | 8.50 |
| June 6 | 0300 | *3,540 | *9.09 | | | | |

Minimum daily, 61 ft³/s Feb. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|------|------|-------|-------|-------|--------|--------|------|------|
| 1 | 75 | 111 | 94 | 89 | 78 | 104 | 397 | 589 | 2160 | 809 | 193 | 132 |
| 2 | 76 | 116 | 99 | 91 | 74 | 109 | 387 | 798 | 2390 | 734 | 184 | 125 |
| 3 | 80 | 113 | 99 | 91 | 76 | 119 | 338 | 1140 | 2480 | 694 | 175 | 130 |
| 4 | 81 | 110 | 97 | 75 | 72 | 128 | 300 | 1160 | 2640 | 688 | 169 | 123 |
| 5 | 81 | 116 | 93 | 91 | 68 | 134 | 291 | 957 | 2660 | 656 | 164 | 119 |
| 6 | 81 | 107 | 95 | 94 | 73 | 145 | 306 | 779 | 2730 | 540 | 166 | 115 |
| 7 | 143 | 107 | 96 | 78 | 61 | 146 | 320 | 689 | 2240 | 509 | 169 | 117 |
| 8 | 117 | 109 | 96 | 80 | 61 | 174 | 301 | 628 | 2080 | 469 | 166 | 114 |
| 9 | 110 | 104 | 91 | 80 | 68 | 194 | 295 | 567 | 1620 | 453 | 160 | 116 |
| 10 | 110 | 98 | 77 | 90 | 61 | 169 | 292 | 546 | 1290 | 424 | 152 | 127 |
| 11 | 108 | 110 | 67 | 83 | 71 | 162 | 295 | e530 | 1390 | 393 | 144 | 115 |
| 12 | 111 | 115 | 81 | 79 | 81 | 156 | 301 | e520 | 1630 | 366 | 141 | 112 |
| 13 | 109 | 108 | 91 | 79 | 82 | 158 | 324 | e520 | 2040 | 341 | 136 | 112 |
| 14 | 100 | 106 | 98 | 75 | 80 | 166 | 302 | e540 | 2090 | 330 | 131 | 104 |
| 15 | 101 | 98 | e104 | 83 | 91 | 157 | 307 | e540 | 2100 | 325 | 128 | 103 |
| 16 | 102 | 103 | e109 | 80 | 83 | 156 | 340 | e520 | 1970 | 369 | 125 | 100 |
| 17 | 101 | 108 | e103 | 80 | 85 | 152 | 326 | e520 | 1900 | 345 | 122 | 102 |
| 18 | 100 | 106 | e110 | 80 | 98 | 156 | 316 | e600 | 1900 | 306 | 119 | 104 |
| 19 | 101 | 98 | e104 | 77 | 114 | 147 | 306 | e700 | 1890 | 283 | 121 | 110 |
| 20 | 102 | 96 | e102 | 80 | 107 | e169 | 314 | e950 | 1730 | 266 | 156 | 101 |
| 21 | 106 | 97 | e100 | 73 | 99 | e180 | 370 | e1250 | 1540 | 256 | 192 | 105 |
| 22 | 150 | 88 | e100 | 71 | 92 | e195 | 486 | e1350 | 1420 | 255 | 160 | 105 |
| 23 | 131 | 95 | e100 | e78 | 91 | e209 | 618 | 1150 | 1330 | 270 | 152 | 105 |
| 24 | 127 | 107 | e100 | e70 | 93 | e210 | 628 | 1100 | 1270 | 292 | 148 | 119 |
| 25 | 127 | 108 | 100 | e66 | 98 | e205 | 565 | 1300 | 1110 | 299 | 140 | 142 |
| 26 | 127 | 103 | 98 | e70 | 101 | e194 | 498 | 1700 | 1030 | 291 | 134 | 136 |
| 27 | 125 | 94 | 95 | e74 | 104 | e182 | 472 | 1900 | 1090 | 260 | 131 | 133 |
| 28 | 122 | 98 | 93 | e78 | 103 | 227 | 488 | 2100 | 1120 | 238 | 129 | 138 |
| 29 | 120 | 100 | 95 | e78 | --- | 271 | 509 | 2150 | 1080 | 220 | 141 | 131 |
| 30 | 110 | 96 | 105 | e79 | --- | 311 | 524 | 2410 | 937 | 209 | 144 | 129 |
| 31 | 110 | --- | 89 | 80 | --- | 412 | --- | 2210 | --- | 201 | 136 | --- |
| TOTAL | 3344 | 3125 | 2981 | 2482 | 2365 | 5597 | 11516 | 32413 | 52857 | 12091 | 4628 | 3524 |
| MEAN | 108 | 104 | 96.2 | 80.1 | 84.5 | 181 | 384 | 1046 | 1762 | 390 | 149 | 117 |
| MAX | 150 | 116 | 110 | 94 | 114 | 412 | 628 | 2410 | 2730 | 809 | 193 | 142 |
| MIN | 75 | 88 | 67 | 66 | 61 | 104 | 291 | 520 | 937 | 201 | 119 | 100 |
| ACFT | 6630 | 6200 | 5910 | 4920 | 4690 | 11100 | 22840 | 64290 | 104800 | 23980 | 9180 | 6990 |
| CAL YR 1985 | TOTAL | 90394 | MEAN | 248 | MAX | 1580 | MIN | 40 | ACFT | 179300 | | |
| WTR YR 1986 | TOTAL | 136923 | MEAN | 375 | MAX | 2730 | MIN | 61 | ACFT | 271600 | | |

e Estimated.

WEBER RIVER BASIN

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 mi².

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 provided 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, 64,580 acre-ft June 20, elevation, 6,040.4 ft; minimum observed, 20,970 acre-ft May 14-19, elevation, 5,989.0 ft.

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

| | | | |
|-------|--------|-------|--------|
| 5,989 | 20,970 | 6,020 | 44,110 |
| 5,990 | 21,580 | 6,030 | 53,600 |
| 6,000 | 28,150 | 6,040 | 64,140 |
| 6,010 | 35,660 | 6,041 | 62,250 |

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
INSTANTANEOUS OBSERVATIONS

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 47120 | 44200 | 41990 | 38500 | 34560 | 39840 | 26550 | 24150 | 40860 | 63150 | 60970 | 58200 |
| 2 | 47030 | 44110 | 41990 | 38420 | 34560 | 39840 | 27030 | 23950 | 43130 | 62820 | 60860 | 58200 |
| 3 | 46940 | 43930 | 41990 | 38340 | 34560 | 40090 | 27170 | 23760 | 45190 | 62600 | 60860 | 58100 |
| 4 | 46750 | 43750 | 41990 | 38250 | 34560 | 40090 | 26680 | 24150 | 47310 | 62270 | 60860 | 57990 |
| 5 | 46570 | 43570 | 41900 | 38010 | 34560 | 40090 | 25930 | 24730 | 49580 | 62050 | 60750 | 57890 |
| 6 | 46380 | 43400 | 41810 | 37930 | 34400 | 39760 | 25130 | 24860 | 51810 | 62050 | 60750 | 57780 |
| 7 | 46380 | 43220 | 41810 | 37760 | 34330 | 39420 | 24410 | 24540 | 54100 | 61830 | 60650 | 57680 |
| 8 | 46570 | 43040 | 41810 | 37600 | 34090 | 39000 | 23630 | 24080 | 56030 | 61830 | 60540 | 57580 |
| 9 | 46570 | 42860 | 41730 | 37350 | 33940 | 39000 | 22810 | 23630 | 57680 | 61830 | 60540 | 57470 |
| 10 | 46660 | 42690 | 41550 | 37270 | 33700 | 38920 | 22620 | 23060 | 58620 | 61830 | 60540 | 57270 |
| 11 | 46660 | 42600 | 41380 | 37110 | 33550 | 38670 | 22440 | 22370 | 58940 | 61830 | 60430 | 57160 |
| 12 | 46660 | 42600 | 41210 | 36950 | 33400 | 38420 | 22250 | 21760 | 59370 | 61730 | 60430 | 57060 |
| 13 | 46660 | 42510 | 41030 | 36790 | 33320 | 38010 | 22130 | 21210 | 60110 | 61620 | 60430 | 57060 |
| 14 | 46570 | 42420 | 40860 | 36620 | 33320 | 37600 | 22000 | 20970 | 61290 | 61620 | 60330 | 56950 |
| 15 | 46480 | 42420 | 40690 | 36540 | 33240 | 37190 | 22000 | 20970 | 62270 | 61510 | 60110 | 56850 |
| 16 | 46380 | 42250 | 40520 | 36460 | 33470 | 36790 | 21880 | 20970 | 63370 | 61510 | 59900 | 56640 |
| 17 | 46290 | 42160 | 40430 | 36380 | 33700 | 36300 | 21880 | 20970 | 63920 | 61510 | 59790 | 56540 |
| 18 | 46110 | 42160 | 40260 | 36220 | 34400 | 35900 | 21940 | 20970 | 64250 | 61730 | 59580 | 56440 |
| 19 | 46020 | 42160 | 40180 | 36140 | 35500 | 34790 | 21880 | 20970 | 64470 | 61620 | 59370 | 56330 |
| 20 | 45830 | 42070 | 40090 | 35980 | 37350 | 33470 | 21700 | 21210 | 64580 | 61510 | 59150 | 56130 |
| 21 | 45650 | 41990 | 40010 | 35900 | 37760 | 32250 | 21510 | 22000 | 64470 | 61400 | 59150 | 56130 |
| 22 | 45560 | 41900 | 39840 | 35740 | 37930 | 30980 | 21450 | 23250 | 64250 | 61290 | 59150 | 56030 |
| 23 | 45470 | 41810 | 39760 | 35580 | 38090 | 29660 | 21760 | 24470 | 64140 | 61190 | 59050 | 55920 |
| 24 | 45380 | 41810 | 39670 | 35500 | 38340 | 28580 | 22310 | 25260 | 63920 | 61190 | 59050 | 55920 |
| 25 | 45280 | 41810 | 39500 | 35350 | 38830 | 27520 | 22940 | 26000 | 63810 | 61190 | 58940 | 55920 |
| 26 | 45190 | 41900 | 39340 | 35190 | 39420 | 26550 | 23380 | 27100 | 63590 | 61290 | 58940 | 56130 |
| 27 | 45010 | 41990 | 39170 | 35030 | 39500 | 25460 | 23700 | 29080 | 63370 | 61190 | 58840 | 56130 |
| 28 | 44830 | 41990 | 39000 | 34870 | 39670 | 25400 | 24020 | 31350 | 63370 | 61190 | 58730 | 56130 |
| 29 | 44650 | 41990 | 38920 | 34790 | --- | 25330 | 24210 | 33860 | 63370 | 61080 | 58620 | 56030 |
| 30 | 44470 | 41990 | 38750 | 34640 | --- | 25530 | 24470 | 36380 | 63370 | 61080 | 58520 | 55920 |
| 31 | 44380 | --- | 38590 | 34480 | --- | 25930 | --- | 38500 | --- | 60970 | 58310 | --- |
| MAX | 47120 | 44200 | 41990 | 38500 | 39670 | 40090 | 27170 | 38500 | 64580 | 63150 | 60970 | 58200 |
| MIN | 44380 | 41810 | 38590 | 34480 | 33240 | 25330 | 21450 | 20970 | 40860 | 60970 | 58310 | 55920 |
| (#) | 6020.3 | 6017.6 | 6013.6 | 6008.5 | 6014.9 | 5999.8 | 5994.6 | 6013.5 | 6039.3 | 6037.1 | 6034.6 | 6032.3 |
| (*) | -2930 | -2390 | -3400 | -4110 | +5190 | -13740 | -1460 | +14030 | +24870 | -2400 | -2660 | -2390 |

CAL YR 1985 (*) -9,660

WTR YR 1986 (*) +8,610

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

WEBER RIVER BASIN

265

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 mi².

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, non-recording gage, Mar. 22, 1931 to July 18, 1967, water-stage recorder at same site at different datum.

REMARKS.--No estimated daily discharges. 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.--55 years, 217 ft³/s, 157,200 acre-ft/yr, since completion of Weber-Provo diversion canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,190 ft³/s May 6, 1952; maximum gage height, 5.08 ft (present datum) May 29, 1951; minimum, 6 ft³/s Sept. 20, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,680 ft³/s June 19, gage height, 4.84 ft; minimum, 101 ft³/s Aug. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1 | 272 | 253 | 238 | 231 | 233 | 279 | 619 | 1010 | 1240 | 910 | 252 | 230 |
| 2 | 273 | 252 | 238 | 231 | 232 | 281 | 888 | 1130 | 1340 | 806 | 253 | 235 |
| 3 | 266 | 254 | 246 | 230 | 232 | 323 | 999 | 1230 | 1360 | 691 | 233 | 232 |
| 4 | 261 | 253 | 244 | 242 | 229 | 358 | 1060 | 1230 | 1390 | 562 | 223 | 225 |
| 5 | 262 | 255 | 241 | 231 | 225 | 403 | 1020 | 1220 | 1410 | 484 | 207 | 217 |
| 6 | 263 | 253 | 243 | 229 | 224 | 541 | 1010 | 1210 | 1380 | 526 | 211 | 218 |
| 7 | 318 | 249 | 243 | 232 | 224 | 544 | 1000 | 1190 | 1350 | 408 | 208 | 218 |
| 8 | 306 | 250 | 240 | 245 | 226 | 557 | 996 | 1210 | 1340 | 279 | 207 | 214 |
| 9 | 293 | 250 | 240 | 229 | 228 | 599 | 820 | 1200 | 1370 | 324 | 206 | 220 |
| 10 | 291 | 246 | 236 | 228 | 226 | 569 | 663 | 1180 | 1390 | 335 | 205 | 238 |
| 11 | 281 | 256 | 237 | 229 | 223 | 554 | 656 | 1190 | 1360 | 311 | 187 | 239 |
| 12 | 278 | 240 | 256 | 230 | 224 | 548 | 655 | 1170 | 1330 | 413 | 120 | 238 |
| 13 | 275 | 248 | 237 | 226 | 243 | 540 | 677 | 1040 | 1330 | 374 | 202 | 237 |
| 14 | 267 | 246 | 237 | 234 | 261 | 540 | 675 | 859 | 1410 | 340 | 206 | 235 |
| 15 | 260 | 245 | 237 | 226 | 283 | 537 | 670 | 809 | 1430 | 329 | 201 | 233 |
| 16 | 263 | 242 | 238 | 222 | 260 | 535 | 681 | 811 | 1460 | 368 | 206 | 234 |
| 17 | 263 | 243 | 238 | 233 | 313 | 540 | 701 | 804 | 1580 | 294 | 203 | 218 |
| 18 | 261 | 241 | 237 | 235 | 298 | 711 | 681 | 795 | 1530 | 321 | 195 | 221 |
| 19 | 260 | 238 | 237 | 228 | 367 | 929 | 661 | 806 | 1620 | 387 | 183 | 233 |
| 20 | 260 | 238 | 237 | 227 | 355 | 922 | 650 | 820 | 1670 | 338 | 219 | 236 |
| 21 | 259 | 236 | 237 | 222 | 287 | 929 | 656 | 835 | 1590 | 294 | 283 | 235 |
| 22 | 268 | 234 | 236 | 221 | 267 | 927 | 676 | 871 | 1490 | 316 | 226 | 230 |
| 23 | 270 | 237 | 233 | 220 | 262 | 927 | 687 | 856 | 1390 | 302 | 223 | 230 |
| 24 | 266 | 242 | 233 | 220 | 287 | 925 | 680 | 838 | 1340 | 323 | 223 | 250 |
| 25 | 263 | 261 | 233 | 219 | 306 | 919 | 683 | 846 | 1210 | 318 | 213 | 274 |
| 26 | 260 | 250 | 235 | 220 | 305 | 923 | 693 | 853 | 1200 | 328 | 210 | 287 |
| 27 | 260 | 243 | 237 | 220 | 305 | 687 | 688 | 852 | 1110 | 329 | 217 | 313 |
| 28 | 258 | 244 | 243 | 219 | 287 | 494 | 698 | 851 | 1070 | 307 | 225 | 327 |
| 29 | 257 | 248 | 240 | 220 | --- | 500 | 698 | 895 | 1050 | 283 | 227 | 320 |
| 30 | 254 | 243 | 230 | 232 | --- | 503 | 870 | 1020 | 1010 | 259 | 225 | 320 |
| 31 | 257 | --- | 230 | 248 | --- | 523 | --- | 1170 | --- | 255 | 224 | --- |
| TOTAL | 8345 | 7390 | 7387 | 7079 | 7412 | 19067 | 22811 | 30801 | 40750 | 12114 | 6623 | 7357 |
| MEAN | 269 | 246 | 238 | 228 | 265 | 615 | 760 | 994 | 1358 | 391 | 214 | 245 |
| MAX | 318 | 261 | 256 | 248 | 367 | 929 | 1060 | 1230 | 1670 | 910 | 283 | 327 |
| MIN | 254 | 234 | 230 | 219 | 223 | 279 | 619 | 795 | 1010 | 255 | 120 | 214 |
| ACFT | 16550 | 14660 | 14650 | 14040 | 14700 | 37820 | 45250 | 61090 | 80830 | 24030 | 13140 | 14590 |
| CAL YR 1985 | TOTAL | 130122 | MEAN | 356 | MAX | 1330 | MIN | 179 | ACFT | 258100 | | |
| WTR YR 1986 | TOTAL | 177136 | MEAN | 485 | MAX | 1670 | MIN | 120 | ACFT | 351300 | | |

WEBER RIVER BASIN

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 mi².

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 except for estimated daily discharges, which are fair. 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.--59 years, 70.5 ft³/s, 51,080 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,570 ft³/s June 1, 1983, gage height, 5.26 ft; minimum, less than 1.0 ft³/s for several days in 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|--------------------------------|------------------|--------|------|--------------------------------|------------------|
| Mar. 9 | 0200 | 411 | 1.68 | May 4 | 0600 | 1,120 | 3.04 |
| Apr. 2 | 0400 | 463 | 1.83 | May 22 | 0200 | *1,280 | *3.27 |

Minimum, 9.4 ft³/s Dec. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|
| 1 | e36 | e40 | 46 | 34 | 55 | 141 | 312 | 506 | 979 | 205 | 78 | 69 |
| 2 | e36 | e42 | 51 | 36 | 50 | 142 | 405 | 635 | 964 | 195 | 74 | 70 |
| 3 | e36 | e41 | 50 | 36 | 48 | 151 | 312 | 830 | 902 | 180 | 64 | 68 |
| 4 | e34 | e40 | 47 | 35 | 41 | 153 | 291 | 1010 | 880 | 175 | 59 | 65 |
| 5 | e34 | e42 | 29 | 35 | 31 | 155 | 315 | 758 | 824 | 182 | 57 | 64 |
| 6 | e34 | e38 | 45 | 35 | 35 | 158 | 312 | 717 | 791 | 176 | 53 | 68 |
| 7 | e35 | e40 | 49 | 35 | 28 | 163 | 296 | 642 | 684 | 157 | 56 | 65 |
| 8 | e54 | e41 | 44 | 35 | 29 | 191 | 275 | 617 | 628 | 152 | 50 | 61 |
| 9 | e38 | e40 | 37 | 35 | 29 | 310 | 275 | 629 | 640 | 144 | 49 | 70 |
| 10 | e36 | e33 | 17 | 36 | 33 | 200 | 286 | 682 | 609 | 144 | 50 | 70 |
| 11 | e36 | 52 | 18 | 35 | 38 | 164 | 279 | 868 | e560 | 138 | 45 | 67 |
| 12 | e37 | 53 | 29 | 34 | 40 | 142 | 280 | 707 | e560 | 134 | 47 | 65 |
| 13 | e37 | 46 | 39 | 34 | 44 | 131 | 309 | 652 | e560 | 129 | 47 | 62 |
| 14 | e35 | 49 | 42 | 34 | 54 | 126 | 293 | 619 | e570 | 123 | 43 | 60 |
| 15 | e32 | 42 | 38 | 34 | 149 | 121 | 325 | 576 | e580 | 125 | 44 | 58 |
| 16 | e36 | 30 | 37 | 35 | 103 | 120 | 400 | 567 | e590 | 146 | 43 | 57 |
| 17 | e40 | 50 | 36 | 37 | 126 | 116 | 440 | 517 | e600 | 131 | 34 | 58 |
| 18 | e40 | 46 | 36 | 39 | 169 | 114 | 354 | 531 | e520 | 117 | 33 | 63 |
| 19 | e39 | 36 | 36 | 39 | 203 | 109 | 326 | 638 | e460 | 107 | 34 | 63 |
| 20 | e39 | 41 | 36 | 39 | 149 | 104 | 329 | 804 | e430 | 97 | 88 | 59 |
| 21 | e39 | e30 | 35 | 35 | 117 | 101 | 352 | 991 | e400 | 84 | 90 | 58 |
| 22 | e45 | e24 | 34 | 34 | 122 | 107 | 423 | 1090 | e360 | 88 | 67 | 59 |
| 23 | e51 | 39 | 34 | 37 | 136 | 125 | 558 | 768 | e320 | 102 | 64 | 63 |
| 24 | e47 | 48 | 34 | 37 | 152 | 194 | 606 | 708 | e295 | 111 | 65 | 70 |
| 25 | e47 | 60 | 34 | 32 | 165 | 222 | 533 | 793 | e280 | 102 | 72 | 74 |
| 26 | e46 | 55 | 34 | 32 | 180 | 172 | 492 | 947 | e270 | 105 | 72 | 67 |
| 27 | e46 | 46 | 32 | 34 | 174 | 174 | 439 | 1070 | 236 | 103 | 72 | 68 |
| 28 | e45 | 51 | 31 | 35 | 148 | 220 | 464 | 1040 | 223 | 91 | 73 | 63 |
| 29 | e44 | 51 | 31 | 36 | --- | 263 | 549 | 1040 | 217 | 86 | 72 | 58 |
| 30 | e43 | 42 | 31 | 42 | --- | 268 | 524 | 1040 | 210 | 73 | 74 | 57 |
| 31 | e42 | --- | 33 | 65 | --- | 336 | --- | 1040 | --- | 74 | 71 | --- |
| TOTAL | 1239 | 1288 | 1125 | 1131 | 2648 | 5193 | 11354 | 24032 | 16142 | 3976 | 1840 | 1919 |
| MEAN | 40.0 | 42.9 | 36.3 | 36.5 | 94.6 | 168 | 378 | 775 | 538 | 128 | 59.4 | 64.0 |
| MAX | 54 | 60 | 51 | 65 | 203 | 336 | 606 | 1090 | 979 | 205 | 90 | 74 |
| MIN | 32 | 24 | 17 | 32 | 28 | 101 | 275 | 506 | 210 | 73 | 33 | 57 |
| ACFT | 2460 | 2550 | 2230 | 2240 | 5250 | 10300 | 22520 | 47670 | 32020 | 7890 | 3650 | 3810 |

| | | | | | | | | | | |
|-------------|-------|-------|------|-----|-----|------|-----|----|------|--------|
| CAL YR 1985 | TOTAL | 40442 | MEAN | 111 | MAX | 793 | MIN | 17 | ACFT | 80220 |
| WTR YR 1986 | TOTAL | 71887 | MEAN | 197 | MAX | 1090 | MIN | 17 | ACFT | 142600 |

e Estimated.

WEBER RIVER BASIN

267

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 mi².

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 provided 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, 74,540 acre-ft July 7, 8, elevation, 5,560.4 ft; minimum, 23,630 acre-ft Mar. 26, 27, elevation, 5,516.5 ft.

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

| | | | | | |
|-------|--------|-------|--------|-------|--------|
| 5,516 | 23,210 | 5,535 | 41,440 | 5,555 | 66,740 |
| 5,520 | 26,620 | 5,540 | 47,200 | 5,560 | 73,940 |
| 5,525 | 31,180 | 5,545 | 53,360 | 5,561 | 75,420 |
| 5,530 | 36,100 | 5,550 | 59,880 | | |

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
INSTANTANEOUS OBSERVATIONS

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 26100 | 37660 | 53230 | 57490 | 58550 | 46010 | 25490 | 26880 | 56060 | 74240 | 69290 | 52100 |
| 2 | 26100 | 38080 | 53870 | 57490 | 58410 | 44500 | 26710 | 27590 | 57490 | 74240 | 68720 | 51720 |
| 3 | 26100 | 38500 | 54510 | 57490 | 58810 | 43120 | 27330 | 28860 | 58810 | 74390 | 68150 | 51600 |
| 4 | 26100 | 38930 | 55020 | 57620 | 59340 | 41770 | 27770 | 30710 | 60010 | 74390 | 67440 | 51230 |
| 5 | 26100 | 39360 | 55540 | 57620 | 59080 | 40560 | 28040 | 33300 | 61090 | 74240 | 66740 | 50980 |
| 6 | 26100 | 39790 | 56060 | 57620 | 58410 | 39470 | 28220 | 35490 | 61900 | 74240 | 65900 | 50730 |
| 7 | 26100 | 40230 | 56580 | 57620 | 57760 | 38610 | 28310 | 37130 | 62040 | 74540 | 65060 | 50480 |
| 8 | 26270 | 40660 | 57230 | 57620 | 57100 | 37760 | 28400 | 38290 | 62040 | 74540 | 64230 | 50360 |
| 9 | 26440 | 41220 | 57890 | 57620 | 56450 | 37660 | 28400 | 39360 | 62040 | 74240 | 63540 | 50110 |
| 10 | 26620 | 41660 | 58410 | 57490 | 55800 | 37340 | 28040 | 40440 | 62720 | 73940 | 62860 | 49870 |
| 11 | 26880 | 42110 | 58550 | 57490 | 55150 | 36410 | 27500 | 41660 | 63130 | 73650 | 62040 | 49740 |
| 12 | 27330 | 42670 | 58280 | 57490 | 54380 | 35290 | 26880 | 42900 | 64230 | 73360 | 61360 | 49620 |
| 13 | 27860 | 43350 | 58150 | 57490 | 53740 | 33990 | 26360 | 43920 | 65480 | 73360 | 60680 | 49500 |
| 14 | 28400 | 43810 | 58020 | 57490 | 52980 | 32620 | 25830 | 44730 | 66600 | 73060 | 60010 | 49380 |
| 15 | 28950 | 44270 | 58020 | 57490 | 52480 | 31180 | 25400 | 44840 | 67870 | 72770 | 59480 | 49130 |
| 16 | 29500 | 44730 | 58020 | 57490 | 52350 | 29870 | 25060 | 44840 | 68580 | 72470 | 58810 | 48770 |
| 17 | 30140 | 45190 | 58020 | 57490 | 52100 | 28490 | 25060 | 44840 | 68580 | 72470 | 58150 | 48280 |
| 18 | 30800 | 45660 | 58020 | 57490 | 53230 | 27150 | 24970 | 44840 | 68860 | 72180 | 57360 | 47800 |
| 19 | 31270 | 46130 | 58020 | 57490 | 54510 | 26100 | 24800 | 44840 | 69290 | 72040 | 56580 | 47200 |
| 20 | 31750 | 46720 | 58020 | 58020 | 55920 | 25660 | 24470 | 45190 | 70010 | 71890 | 55800 | 47080 |
| 21 | 32230 | 47320 | 58020 | 58550 | 56450 | 25150 | 24040 | 46370 | 70730 | 71600 | 55540 | 46960 |
| 22 | 32710 | 47920 | 58020 | 59080 | 56060 | 24720 | 23790 | 47560 | 71460 | 71310 | 55410 | 46840 |
| 23 | 33200 | 48520 | 57760 | 59610 | 54510 | 24550 | 23880 | 48400 | 72180 | 71020 | 55150 | 46720 |
| 24 | 33690 | 49010 | 57760 | 60150 | 52860 | 24210 | 24040 | 48770 | 72620 | 70880 | 54890 | 46610 |
| 25 | 34180 | 49500 | 57760 | 59880 | 51480 | 23880 | 24210 | 49130 | 73210 | 70880 | 54640 | 46610 |
| 26 | 34680 | 49990 | 57760 | 59610 | 49990 | 23630 | 24970 | 49620 | 73650 | 70880 | 54380 | 46840 |
| 27 | 35190 | 50480 | 57490 | 59340 | 48650 | 23630 | 25150 | 50480 | 74240 | 70730 | 53870 | 46960 |
| 28 | 35690 | 51100 | 57490 | 59080 | 47320 | 24210 | 25150 | 51350 | 74390 | 70730 | 53490 | 47200 |
| 29 | 36200 | 51850 | 57490 | 58940 | --- | 24890 | 25400 | 52220 | 74240 | 70730 | 53110 | 47560 |
| 30 | 36720 | 52600 | 57490 | 58680 | --- | 25230 | 26100 | 53230 | 74390 | 70300 | 52860 | 47800 |
| 31 | 37240 | --- | 57490 | 58680 | --- | 25320 | --- | 54510 | --- | 69870 | 52480 | --- |
| MAX | 37240 | 52600 | 58550 | 60150 | 59340 | 46010 | 28400 | 54510 | 74390 | 74540 | 69290 | 52100 |
| MIN | 26100 | 37660 | 53230 | 57490 | 47320 | 23630 | 23790 | 26880 | 56060 | 69870 | 52480 | 46610 |
| (#) | 5531.1 | 5544.4 | 5548.2 | 5549.1 | 5540.1 | 5518.5 | 5519.4 | 5545.9 | 5560.3 | 5557.2 | 5544.3 | 5540.5 |
| (*) | +11140 | +15360 | +4890 | +1190 | -11360 | -22000 | +780 | +28410 | +19880 | -4520 | -17390 | -4680 |

CAL YR 1985 (*) -10520

WTR YR 1986 (*) +21700

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

WEBER RIVER BASIN

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 mi².

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 provided 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, 20,560 acre-ft June 16; elevation, 6,006.5 ft; minimum contents observed, 8,840 acre-ft Mar. 27; elevation, 5,968.2 ft.

MONTHEND ELEVATION, IN FEET, AND CONTENTS AT 2400, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| Date | Elevation (feet) | Contents (acre-feet) | Change in contents (acre-feet) |
|-----------------------|---------------------|-------------------------|-----------------------------------|
| Sept. 30 | 5,987.2 | 14,020 | - |
| Oct. 31 | 5,988.1 | 14,300 | +280 |
| Nov. 30 | - | *15,080 | +780 |
| Dec. 31 | 5,991.3 | 15,310 | +230 |
| CAL YR 1985 | - | - | -1,560 |
| Jan. 31 | 5,990.0 | 14,890 | -420 |
| Feb. 28 | 5,981.4 | 12,310 | -2,580 |
| Mar. 31 | 5,970.4 | 9,360 | -2,950 |
| Apr. 30 | 5,987.7 | 14,180 | +4,820 |
| May 31 | 6,002.7 | 19,170 | +4,990 |
| June 30 | 6,005.4 | 20,150 | +980 |
| July 31 | 6,004.7 | 19,900 | -250 |
| Aug. 31 | 5,999.4 | 18,010 | -1,890 |
| Sept. 30 | 5,993.8 | 16,110 | -1,900 |
| WTR YR 1986 | - | - | +2,090 |

* No gage reading, contents interpolated.

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 mi².

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 provided 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, 48,730 acre-ft June 16, 18, elevation, 5,705.9 ft; minimum observed, 32,950 acre-ft Apr. 11, 12, elevation, 5,680.4 ft.

MONTHEND ELEVATION, IN FEET, AND INSTANTANEOUS CONTENTS, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| Date | Elevation (feet) | Contents (acre-feet) | Change in contents (acre-feet) |
|-----------------------|---------------------|-------------------------|-----------------------------------|
| Sept. 30 | 5,686.20 | 36,230 | - |
| Oct. 31 | 5,689.80 | 38,350 | +2,120 |
| Nov. 30 | 5,694.00 | 40,920 | +2,570 |
| Dec. 31 | - | *40,980 | +60 |
| CAL YR 1985 | - | - | -5,570 |
| Jan. 31 | - | *41,360 | +380 |
| Feb. 28 | 5,698.30 | 43,660 | +2,300 |
| Mar. 31 | 5,681.60 | 33,610 | -10,050 |
| Apr. 30 | 5,692.60 | 40,050 | +6,440 |
| May 31 | 5,701.70 | 45,880 | +5,830 |
| June 30 | 5,705.60 | 48,520 | +2,640 |
| July 31 | 5,704.40 | 47,700 | -820 |
| Aug. 31 | - | *44,300 | -3,400 |
| Sept. 30 | - | *43,200 | -1,100 |
| WTR YR 1986 | - | - | +6,970 |

* No gage reading, contents interpolated.

WEBER RIVER BASIN

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 mi².

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.--No estimated daily discharges. Records good. No diversions between station and East Canyon Reservoir (see preceding page), which completely regulates flow.

AVERAGE DISCHARGE.--55 years, 58.6 ft³/s, 42,460 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 872 ft³/s May 4, 1952, gage height, 3.49 ft; minimum daily, 0.2 ft³/s Dec. 19, 29, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 360 ft³/s Mar. 6, 8, gage height, 1.85 ft; minimum daily discharge, 7.2 ft³/s several days on Oct.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|--------|------|--------|-------|-------|-------|------|-------|------|------|
| 1 | 7.2 | 7.9 | 7.9 | 51 | 71 | 354 | 286 | 255 | 230 | 107 | 93 | 87 |
| 2 | 7.2 | 7.9 | 7.9 | 51 | 81 | 352 | 286 | 255 | 248 | 105 | 93 | 87 |
| 3 | 7.3 | 7.9 | 8.2 | 51 | 81 | 351 | 286 | 256 | 249 | 103 | 93 | 87 |
| 4 | 7.2 | 7.9 | 7.9 | 51 | 81 | 342 | 320 | 203 | 249 | 100 | 93 | 87 |
| 5 | 7.5 | 8.1 | 7.9 | 51 | 104 | 345 | 337 | 202 | 248 | 100 | 93 | 87 |
| 6 | 7.9 | 7.9 | 7.9 | 51 | 121 | 356 | 337 | 251 | 249 | 101 | 93 | 79 |
| 7 | 8.0 | 7.9 | 7.9 | 51 | 120 | 356 | 337 | 280 | 250 | 100 | 93 | 75 |
| 8 | 7.9 | 8.2 | 7.9 | 51 | 122 | 318 | 337 | 302 | 205 | 97 | 93 | 75 |
| 9 | 7.9 | 8.4 | 8.1 | 51 | 123 | 265 | 337 | 314 | 177 | 94 | 116 | 75 |
| 10 | 7.2 | 8.5 | 8.3 | 51 | 124 | 325 | 336 | 345 | 177 | 91 | 129 | 75 |
| 11 | 7.2 | 8.6 | 30 | 51 | 64 | 341 | 261 | 344 | 106 | 88 | 129 | 67 |
| 12 | 7.2 | 8.6 | 47 | 51 | 8.6 | 340 | 150 | 347 | 49 | 85 | 129 | 62 |
| 13 | 7.7 | 8.6 | 46 | 51 | 8.6 | 339 | 117 | 346 | 92 | 81 | 151 | 62 |
| 14 | 40 | 8.7 | 49 | 51 | 8.6 | 337 | 117 | 346 | 138 | 93 | 165 | 64 |
| 15 | 58 | 8.6 | 51 | 51 | 9.3 | 339 | 117 | 346 | 164 | 96 | 165 | 64 |
| 16 | 58 | 8.6 | 51 | 51 | 9.1 | 337 | 119 | 346 | 175 | 96 | 140 | 64 |
| 17 | 58 | 8.6 | 51 | 52 | 26 | 338 | 119 | 346 | 175 | 94 | 129 | 64 |
| 18 | 24 | 8.6 | 51 | 27 | 9.5 | 337 | 119 | 346 | 169 | 90 | 129 | 64 |
| 19 | 7.8 | 8.6 | 51 | 12 | 73 | 335 | 155 | 346 | 166 | 101 | 126 | 63 |
| 20 | 7.2 | 8.6 | 51 | 12 | 219 | 330 | 173 | 302 | 164 | 103 | 121 | 62 |
| 21 | 7.3 | 8.6 | 51 | 12 | 259 | 329 | 174 | 174 | 160 | 97 | 98 | 62 |
| 22 | 7.3 | 8.6 | 51 | 37 | 261 | 337 | 175 | 135 | 154 | 94 | 87 | 62 |
| 23 | 7.2 | 8.6 | 51 | 51 | 275 | 341 | 175 | 135 | 148 | 93 | 87 | 62 |
| 24 | 7.2 | 8.6 | 51 | 51 | 285 | 343 | 122 | 135 | 141 | 93 | 87 | 62 |
| 25 | 7.4 | 9.1 | 51 | 51 | 288 | 344 | 93 | 135 | 136 | 93 | 87 | 63 |
| 26 | 7.9 | 8.6 | 51 | 51 | 320 | 344 | 93 | 135 | 134 | 93 | 87 | 62 |
| 27 | 7.9 | 8.6 | 51 | 51 | 353 | 344 | 93 | 135 | 129 | 93 | 87 | 62 |
| 28 | 7.9 | 8.4 | 51 | 51 | 355 | 343 | 179 | 135 | 124 | 93 | 87 | 62 |
| 29 | 7.9 | 8.0 | 51 | 51 | --- | 343 | 255 | 153 | 117 | 93 | 87 | 62 |
| 30 | 8.0 | 7.9 | 51 | 52 | --- | 343 | 255 | 209 | 111 | 93 | 87 | 62 |
| 31 | 7.9 | --- | 51 | 52 | --- | 307 | --- | 209 | --- | 93 | 87 | --- |
| TOTAL | 434.3 | 251.7 | 1118.9 | 1429 | 3859.7 | 10455 | 6260 | 7768 | 5034 | 2953 | 3341 | 2071 |
| MEAN | 14.0 | 8.39 | 36.1 | 46.1 | 138 | 337 | 209 | 251 | 168 | 95.3 | 108 | 69.0 |
| MAX | 58 | 9.1 | 51 | 52 | 355 | 356 | 337 | 347 | 250 | 107 | 165 | 87 |
| MIN | 7.2 | 7.9 | 7.9 | 12 | 8.6 | 265 | 93 | 135 | 49 | 81 | 87 | 62 |
| ACFT | 861 | 499 | 2220 | 2830 | 7660 | 20740 | 12420 | 15410 | 9980 | 5860 | 6630 | 4110 |
| CAL YR 1985 | TOTAL | 38311.5 | MEAN | 105 | MAX | 279 | MIN | 7.2 | ACFT | 75990 | | |
| WTR YR 1986 | TOTAL | 44975.6 | MEAN | 123 | MAX | 356 | MIN | 7.2 | ACFT | 89210 | | |

WEBER RIVER BASIN

271

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 mi².

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 except for estimated daily discharges, which are fair. 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 ft³/s May 31, 1896; minimum observed, 33 ft³/s Feb. 3, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,160 ft³/s Feb. 17, gage height, 9.26 ft; minimum daily, 131 ft³/s Nov. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|--------|--------|--------|--------|--------|-------|--------|-------|
| 1 | 361 | 178 | 229 | e540 | 962 | 2750 | 2990 | 3440 | 3420 | 1310 | 545 | 545 |
| 2 | 340 | 184 | 229 | e560 | 886 | 2760 | 3230 | 3530 | 3470 | 1140 | 511 | 582 |
| 3 | 333 | 187 | 293 | e540 | 579 | 2740 | 3120 | 3890 | 3370 | 956 | 487 | 620 |
| 4 | 338 | 183 | 302 | 456 | 438 | 2720 | 3030 | 4330 | 3240 | 875 | 516 | 596 |
| 5 | 318 | 208 | 257 | 414 | 905 | 2700 | 3040 | 4160 | 3090 | 830 | 536 | 547 |
| 6 | 308 | 193 | 238 | 528 | 1030 | 2700 | 3000 | 3700 | 3200 | 770 | 536 | 536 |
| 7 | 457 | 195 | 215 | 509 | 1010 | 2660 | 3030 | 3750 | 3240 | 631 | 536 | 507 |
| 8 | 499 | 210 | 222 | 540 | 1000 | 3050 | 3010 | 3870 | 3170 | 551 | 530 | 472 |
| 9 | 469 | 220 | 210 | 585 | 982 | 3120 | 3040 | 3810 | 3070 | 546 | 560 | 522 |
| 10 | 465 | 207 | 142 | 508 | 986 | 2920 | 2970 | 3680 | 2850 | 539 | 591 | 616 |
| 11 | 356 | 219 | 483 | 503 | 972 | 2990 | 2970 | 3780 | 2580 | 571 | 566 | 625 |
| 12 | 232 | 237 | 583 | 532 | 876 | 2850 | 2820 | 3690 | 2100 | 589 | 560 | 578 |
| 13 | 231 | 221 | 769 | 506 | 969 | 2690 | 2850 | 3650 | 2030 | 589 | 545 | 559 |
| 14 | 225 | 207 | e640 | 530 | 1010 | 2660 | 2810 | 3470 | 2100 | 581 | 540 | 530 |
| 15 | 205 | 198 | e480 | 528 | 2110 | 2560 | 2740 | 3590 | 2140 | 560 | 482 | 539 |
| 16 | 195 | 186 | e520 | 500 | 2340 | 2500 | 2910 | 3590 | 2450 | 549 | 521 | 569 |
| 17 | 189 | 198 | e560 | 533 | e4800 | 2510 | 2770 | 3560 | 2600 | 504 | 511 | 608 |
| 18 | 187 | 200 | e560 | 559 | e4380 | 2380 | 2640 | 3550 | 2520 | 517 | 540 | 675 |
| 19 | 181 | 172 | e540 | 516 | 3980 | 2310 | 2520 | 3680 | 2370 | 512 | 536 | 611 |
| 20 | 182 | 146 | e540 | 347 | 2230 | 2310 | 2490 | 3910 | 2240 | 537 | 581 | 584 |
| 21 | 178 | 156 | e540 | 247 | 1900 | 2310 | 2580 | 3820 | 2150 | 547 | 856 | 607 |
| 22 | 199 | 131 | e540 | 218 | 2100 | 2330 | 2850 | 3910 | 2040 | 555 | 717 | 599 |
| 23 | 213 | 132 | e530 | 232 | 3250 | 2230 | 3220 | 3420 | 1890 | 784 | 706 | 564 |
| 24 | 216 | 152 | e530 | 265 | 3050 | 2430 | 3350 | 3210 | 1730 | 759 | 666 | 590 |
| 25 | 203 | 340 | e520 | 596 | 2980 | 2530 | 3480 | 3200 | 1580 | 721 | 618 | 748 |
| 26 | 196 | 362 | e500 | 611 | 2980 | 2490 | 3030 | 3350 | 1440 | 675 | 566 | 675 |
| 27 | 191 | 262 | e500 | 619 | 2970 | 2210 | 3110 | 3550 | 1360 | 647 | 576 | 643 |
| 28 | 179 | 235 | e500 | 631 | 2830 | 1870 | 3320 | 3610 | 1490 | 581 | 560 | 635 |
| 29 | 169 | 272 | e520 | 624 | --- | 2020 | 3720 | 3650 | 1440 | 566 | 591 | 571 |
| 30 | 180 | 259 | e560 | 731 | --- | 2530 | 3360 | 3690 | 1370 | 559 | 570 | 557 |
| 31 | 187 | --- | e520 | 1080 | --- | 2980 | --- | 3560 | --- | 571 | 554 | --- |
| TOTAL | 8182 | 6250 | 3772 | 16088 | 54505 | 79810 | 90000 | 113600 | 71740 | 20622 | 17710 | 17610 |
| MEAN | 264 | 208 | 444 | 519 | 1947 | 2575 | 3000 | 3665 | 2391 | 665 | 571 | 587 |
| MAX | 499 | 362 | 769 | 1080 | 4800 | 3120 | 3720 | 4330 | 3470 | 1310 | 856 | 748 |
| MIN | 169 | 131 | 142 | 218 | 438 | 1870 | 2490 | 3200 | 1360 | 504 | 482 | 472 |
| ACFT | 16230 | 12400 | 27320 | 31910 | 108100 | 158300 | 178500 | 225300 | 142300 | 40900 | 35130 | 34930 |
| CAL YR 1985 | TOTAL | 331698 | | MEAN | 909 | | MIN | 131 | | ACFT | 657900 | |
| WTR YR 1986 | TOTAL | 509889 | | MEAN | 1397 | | MAX | 4800 | | MIN | 131 | |

e Estimated.

WEBER RIVER BASIN

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 mi².

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 for estimated daily discharges, which are fair. One small diversion above station. Flow regulated by Causey Reservoir since Jan. 4, 1966.

AVERAGE DISCHARGE.--65 years, 118 ft³/s, 85,490 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,890 ft³/s May 3, 1952, gage height, 5.98 ft; minimum, 9 ft³/s Feb. 28, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,240 ft³/s May 4 gage height, 4.91 ft; minimum daily discharge, 31 ft³/s Oct. 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|-------|-------|-------|-------|-------|--------|------|------|
| 1 | 43 | 56 | 62 | e80 | 137 | 269 | 856 | 987 | 984 | 159 | 88 | 96 |
| 2 | 44 | 56 | 63 | e78 | 131 | 268 | 856 | 1000 | 963 | 155 | 88 | 96 |
| 3 | 44 | 56 | 67 | e62 | 129 | 379 | 811 | 1070 | 928 | 150 | 88 | 96 |
| 4 | 31 | 56 | 66 | 62 | 123 | 527 | 796 | 1100 | 840 | 150 | 90 | 96 |
| 5 | 31 | 59 | 65 | 62 | 119 | 557 | 792 | 1040 | 611 | 145 | 92 | 95 |
| 6 | 41 | 57 | 80 | 63 | 117 | 576 | 806 | 997 | 520 | 138 | 91 | 95 |
| 7 | 51 | 57 | 98 | 66 | 99 | 544 | 739 | 946 | 561 | 132 | 91 | 96 |
| 8 | 46 | 59 | 99 | 81 | 74 | 609 | 641 | 928 | 530 | 126 | 91 | 96 |
| 9 | 42 | 59 | 98 | 62 | 72 | 669 | 624 | 903 | 474 | 121 | 91 | 96 |
| 10 | 42 | 57 | 95 | 62 | 72 | 572 | 620 | 866 | 424 | 116 | 91 | 92 |
| 11 | 42 | 59 | 94 | 62 | 70 | 522 | 633 | 844 | 391 | 114 | 91 | 86 |
| 12 | 42 | 60 | e86 | 62 | 69 | 484 | 689 | 685 | 366 | 111 | 91 | 85 |
| 13 | 42 | 59 | e86 | 62 | 72 | 442 | 707 | 575 | 344 | 121 | 93 | 85 |
| 14 | 42 | 58 | e90 | 62 | 70 | 411 | 624 | 501 | 323 | 174 | 94 | 85 |
| 15 | 41 | 58 | e90 | 58 | 100 | 543 | 603 | 494 | 305 | 194 | 98 | 85 |
| 16 | 41 | 57 | e88 | 58 | 134 | 372 | 607 | 509 | 286 | 165 | 101 | 85 |
| 17 | 41 | 58 | e86 | 61 | 392 | 273 | 539 | 512 | 266 | 130 | 101 | 85 |
| 18 | 41 | 58 | e88 | 63 | 663 | 157 | 524 | 532 | 250 | 98 | 100 | 87 |
| 19 | 41 | 58 | e74 | 64 | 700 | 203 | 512 | 624 | 237 | 88 | 101 | 87 |
| 20 | 41 | 58 | e72 | 67 | 428 | 186 | 542 | 806 | 227 | 100 | 104 | 85 |
| 21 | 44 | 57 | e70 | 66 | 261 | 155 | 612 | 961 | 218 | 116 | 107 | 85 |
| 22 | 56 | 58 | e68 | 66 | 208 | 167 | 663 | 931 | 209 | 118 | 101 | 86 |
| 23 | 57 | 59 | e55 | 66 | 280 | 192 | 768 | 889 | 202 | 116 | 98 | 85 |
| 24 | 57 | 59 | e55 | 65 | 296 | 251 | 739 | 861 | 196 | 103 | 97 | 89 |
| 25 | 58 | 67 | e54 | 64 | 311 | 306 | 712 | 861 | 193 | 96 | 98 | 102 |
| 26 | 57 | 66 | e54 | 64 | 316 | 309 | 634 | 861 | 187 | 96 | 97 | 94 |
| 27 | 57 | 64 | e54 | 64 | 311 | 406 | 595 | 862 | 181 | 95 | 97 | 94 |
| 28 | 57 | 64 | e54 | 65 | 285 | 524 | 792 | 877 | 175 | 95 | 97 | 93 |
| 29 | 57 | 64 | e54 | 66 | --- | 603 | 1060 | 946 | 171 | 95 | 96 | 91 |
| 30 | 57 | 63 | e90 | 71 | --- | 659 | 1010 | 1020 | 165 | 91 | 96 | 91 |
| 31 | 56 | --- | e90 | 113 | --- | 861 | --- | 1010 | --- | 88 | 96 | --- |
| TOTAL | 1442 | 1776 | 2345 | 2067 | 6039 | 12996 | 21106 | 25998 | 11727 | 3796 | 2955 | 2719 |
| MEAN | 46.5 | 59.2 | 75.6 | 66.7 | 216 | 419 | 704 | 839 | 391 | 122 | 95.3 | 90.6 |
| MAX | 58 | 67 | 99 | 113 | 700 | 861 | 1060 | 1100 | 984 | 194 | 107 | 102 |
| MIN | 31 | 56 | 54 | 58 | 69 | 155 | 512 | 494 | 165 | 88 | 88 | 85 |
| ACFT | 2860 | 3520 | 4650 | 4100 | 11980 | 25780 | 41860 | 51570 | 23260 | 7530 | 5860 | 5390 |
| CAL YR 1985 | TOTAL | 57026 | MEAN | 156 | MAX | 1080 | MIN | 31 | ACFT | 113100 | | |
| WTR YR 1986 | TOTAL | 94966 | MEAN | 260 | MAX | 1100 | MIN | 31 | ACFT | 188400 | | |

e Estimated.

WEBER RIVER BASIN

273

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 mi².

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 for estimated daily discharges, which are fair. Records do not include 1,240 acre-feet diverted above gage by Ogden City Water Department.

AVERAGE DISCHARGE.--28 years, 11.2 ft³/s, 8,110 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 533 ft³/s May 21, 1981, gage height, 3.95 ft from indirect measurement, maximum gage height, 5.76 ft, Feb. 18 or 19, 1986 (backwater from trash buildup on trees below gage). Flood of Feb. 18 or 19, 1986 probably exceeded that of May 21, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 40 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|------------------|---------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Feb. 18 or 19 | unknown | about 600 | *5.76 | Apr. 29 | 0300 | 210 | 3.12 |
| Mar. 8 | unknown | unknown | unknown | June 6 | 0500 | 105 | 2.78 |
| Mar. 30 | 2300 | 151 | 2.90 | | | | |

Minimum daily discharge, 0.10 ft³/s Sept. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|------|------|--------|--------|------|------|------|-------|-------|-------|
| 1 | 2.2 | 2.8 | 4.4 | 1.9 | 17 | e40 | 74 | 73 | 80 | 12 | 3.1 | .22 |
| 2 | 2.2 | 2.7 | 4.4 | 1.9 | 11 | e42 | 92 | 70 | 77 | 10 | 1.1 | .25 |
| 3 | 2.4 | 2.7 | 6.1 | 1.9 | 9.3 | e45 | 53 | 76 | 76 | 11 | .87 | .23 |
| 4 | 2.4 | 2.6 | 5.3 | 1.8 | 7.2 | e45 | 38 | 102 | 89 | 18 | .69 | .22 |
| 5 | 2.4 | 4.6 | 4.6 | 1.8 | 6.2 | e40 | 34 | 110 | 88 | 30 | .56 | .21 |
| 6 | 2.5 | 3.9 | 4.2 | 1.9 | 5.5 | e10 | 39 | 99 | 92 | 29 | .48 | .22 |
| 7 | 8.6 | 3.5 | 4.3 | 1.7 | 4.7 | e5.0 | 41 | 76 | 72 | 23 | .59 | .21 |
| 8 | 5.0 | 3.8 | 4.3 | 1.7 | 4.5 | e160 | 37 | 64 | 69 | 14 | .98 | .18 |
| 9 | 3.8 | 3.8 | 3.6 | 1.7 | 4.1 | 123 | 49 | 53 | 48 | 13 | .31 | .19 |
| 10 | 3.4 | 3.4 | 3.1 | 1.7 | e4.4 | 73 | 41 | 44 | 41 | 12 | .29 | .18 |
| 11 | 3.2 | 3.7 | 2.8 | 1.7 | e5.0 | 61 | 50 | 42 | 44 | 11 | .27 | .17 |
| 12 | 3.2 | 3.8 | 2.8 | 1.7 | e5.4 | 46 | 47 | 32 | 44 | 9.2 | .30 | .16 |
| 13 | 3.0 | 3.6 | 3.4 | 1.7 | e20 | 37 | 49 | 27 | 39 | 8.8 | .28 | .13 |
| 14 | 2.8 | 3.6 | 3.4 | 1.7 | e30 | 32 | 42 | 24 | 40 | 6.4 | .27 | .11 |
| 15 | 2.1 | 3.5 | 3.1 | 1.7 | e35 | 26 | 40 | 21 | 37 | 5.9 | .29 | .10 |
| 16 | 1.8 | 3.2 | 3.0 | 1.7 | e40 | 24 | 75 | 20 | 34 | 6.1 | .26 | .12 |
| 17 | 1.2 | 3.5 | 2.9 | 2.2 | e150 | 23 | 53 | 19 | 33 | 4.6 | .24 | .13 |
| 18 | .92 | 3.3 | 3.0 | 2.7 | e480 | 19 | 37 | 29 | 32 | 4.8 | .25 | .16 |
| 19 | .83 | 3.3 | 2.8 | 2.8 | e450 | 18 | 32 | 40 | 37 | 4.7 | .23 | .14 |
| 20 | .82 | 3.4 | 2.7 | 3.5 | 174 | 18 | 33 | 55 | 35 | 4.4 | .25 | .12 |
| 21 | 1.6 | 3.5 | 2.6 | 3.4 | 56 | 19 | 39 | 68 | 32 | 4.1 | .26 | .15 |
| 22 | 3.8 | 3.3 | 2.5 | 3.1 | 31 | 21 | 45 | 76 | 30 | 4.2 | .18 | .23 |
| 23 | 7.3 | 3.2 | 2.5 | 3.0 | e40 | 26 | 62 | 61 | 28 | 3.6 | .18 | .49 |
| 24 | 5.1 | 3.5 | 2.4 | 2.8 | e45 | 37 | 60 | 47 | 28 | 3.4 | .20 | 1.0 |
| 25 | 4.2 | 17 | 2.3 | 2.7 | e53 | 37 | 71 | 48 | 28 | 2.9 | .19 | 6.5 |
| 26 | 4.0 | 10 | 2.2 | 2.6 | e60 | 33 | 64 | 61 | 27 | 2.9 | .20 | 3.3 |
| 27 | 3.5 | 6.3 | 2.2 | 2.7 | e50 | 35 | 73 | 71 | 20 | 2.9 | .18 | 3.6 |
| 28 | 2.1 | 5.5 | 2.1 | 2.5 | e45 | 43 | 133 | 68 | 18 | 2.7 | .18 | 3.2 |
| 29 | 1.1 | 5.4 | 2.0 | 2.4 | --- | 57 | 144 | 71 | 21 | 2.6 | .19 | 1.8 |
| 30 | 1.9 | 4.7 | 2.0 | 6.8 | --- | 71 | 91 | 74 | 17 | 3.0 | .19 | 1.2 |
| 31 | 2.8 | --- | 2.1 | 25 | --- | 102 | --- | 76 | --- | 4.5 | .19 | --- |
| TOTAL | 92.17 | 131.1 | 99.1 | 96.4 | 1843.3 | 1368.0 | 1738 | 1797 | 1356 | 274.7 | 13.75 | 24.92 |
| MEAN | 2.97 | 4.37 | 3.20 | 3.11 | 65.8 | 44.1 | 57.9 | 58.0 | 45.2 | 8.86 | .44 | .83 |
| MAX | 8.6 | 17 | 6.1 | 25 | 480 | 160 | 144 | 110 | 92 | 30 | 3.1 | 6.5 |
| MIN | .82 | 2.6 | 2.0 | 1.7 | 4.1 | 5.0 | 32 | 19 | 17 | 2.6 | .18 | .10 |
| ACFT | 183 | 260 | 197 | 191 | 3660 | 2710 | 3450 | 3560 | 2690 | 545 | 27 | 49 |
| CAL YR 1985 | TOTAL | 3944.78 | MEAN | 10.8 | MAX | 99 | MIN | .04 | ACFT | 7820 | | |
| WTR YR 1986 | TOTAL | 8834.44 | MEAN | 24.2 | MAX | 480 | MIN | .10 | ACFT | 17520 | | |

e Estimated.

WEBER RIVER BASIN

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 mi².

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 except for estimated daily discharges, which are poor. 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.--21 years (1966-86), 633 ft³/s, 458,600 acre-ft/yr since completion of storage reservoirs listed in Remarks paragraph.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft³/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, 5,760 ft³/s Feb. 18, gage height, 18.04 ft; minimum daily, 111 ft³/s July 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|--------|--------|--------|--------|-------|---------|-------|-------|
| 1 | 308 | 287 | e270 | 429 | 1050 | 3710 | 3750 | 4170 | 3270 | 432 | 131 | 164 |
| 2 | 316 | 282 | e260 | 439 | 915 | 3640 | 4190 | 4190 | 3320 | 382 | 128 | 201 |
| 3 | 307 | 282 | e310 | 431 | 837 | 3590 | 4060 | 4390 | 3340 | e310 | 128 | 226 |
| 4 | 312 | 260 | e350 | 419 | 695 | 3540 | 3820 | 4970 | 3200 | e250 | 132 | 236 |
| 5 | 315 | 230 | e335 | 429 | 879 | 3510 | 3800 | 5480 | 2950 | e210 | 133 | 225 |
| 6 | 305 | 240 | e325 | 468 | 1110 | 3520 | 3740 | 5020 | 2630 | e180 | 160 | 213 |
| 7 | 442 | 223 | 308 | 439 | 1080 | 3500 | 3710 | 4710 | 2240 | e160 | 163 | 220 |
| 8 | 540 | 233 | 322 | 423 | 1070 | 3570 | 3700 | 4650 | 1810 | e140 | 138 | 246 |
| 9 | 495 | 248 | 311 | 460 | 1050 | 4610 | 3740 | 4630 | 1800 | e132 | 146 | 231 |
| 10 | 489 | 238 | 254 | 464 | 1050 | 3980 | 3680 | 4460 | 1560 | e124 | 150 | 318 |
| 11 | e470 | 262 | 318 | 455 | 1050 | 3940 | 3640 | 4340 | 1450 | e120 | 149 | 334 |
| 12 | e400 | 287 | 429 | 455 | 976 | 3850 | 3580 | 4330 | 935 | e116 | 147 | 336 |
| 13 | e345 | 278 | 503 | 458 | 1230 | 3630 | 3650 | 4290 | 799 | e114 | 132 | 327 |
| 14 | e330 | 251 | 555 | 451 | 1250 | 3520 | 3590 | 4170 | 811 | e114 | 136 | 318 |
| 15 | e320 | 232 | 493 | 468 | 1720 | 3400 | 3540 | 4240 | 895 | e114 | 136 | 322 |
| 16 | e300 | 221 | 499 | 452 | 2260 | 3310 | 3550 | 4300 | 1120 | e114 | 135 | 321 |
| 17 | e280 | 224 | 501 | 463 | 3050 | 3470 | 3630 | 4260 | 1300 | e113 | 143 | 334 |
| 18 | e280 | 235 | 493 | 508 | 5250 | 3460 | 3430 | 4150 | 1330 | e112 | 137 | 436 |
| 19 | e270 | 222 | 505 | 492 | 4290 | 3250 | 3250 | 4170 | 1140 | 111 | 138 | 512 |
| 20 | e270 | 184 | 500 | 449 | 5110 | 3190 | 3170 | 4360 | 920 | 115 | 150 | 433 |
| 21 | e270 | e202 | 492 | 348 | 3530 | 3320 | 3130 | 4270 | 862 | 141 | 451 | 453 |
| 22 | e290 | e185 | 493 | 309 | 3260 | 3470 | 3210 | 3670 | 739 | 174 | 300 | 470 |
| 23 | e300 | e180 | 500 | 309 | 3900 | 3390 | 3450 | 3100 | 651 | 230 | 270 | 474 |
| 24 | e310 | e200 | 492 | 315 | 4400 | 3450 | 3640 | 2590 | 551 | 251 | 243 | 598 |
| 25 | e300 | e360 | 489 | 456 | 4230 | 3600 | 3720 | 2490 | 424 | 221 | 211 | 1070 |
| 26 | e290 | e390 | 489 | 558 | 4070 | 3590 | 3650 | 2570 | 315 | 247 | 161 | 1040 |
| 27 | e286 | e340 | 494 | 569 | 3990 | 3220 | 3260 | 2750 | 305 | 162 | 167 | 986 |
| 28 | e280 | e270 | 493 | 566 | 3860 | 2830 | 3400 | 2880 | 307 | 147 | 182 | 1060 |
| 29 | e278 | e300 | 453 | 567 | --- | 2860 | 4240 | 3190 | 378 | 155 | 168 | 995 |
| 30 | e292 | e290 | 461 | 641 | --- | 3140 | 4250 | 3440 | 447 | 119 | 181 | 997 |
| 31 | 290 | --- | 436 | 1030 | --- | 3510 | --- | 3420 | --- | 129 | 160 | --- |
| TOTAL | 10280 | 7636 | 13133 | 14720 | 67162 | 108570 | 109170 | 123650 | 41799 | 5439 | 5306 | 14096 |
| MEAN | 332 | 255 | 424 | 475 | 2399 | 3502 | 3639 | 3989 | 1393 | 175 | 171 | 470 |
| MAX | 540 | 390 | 555 | 1030 | 5250 | 4610 | 4250 | 5480 | 3340 | 432 | 451 | 1070 |
| MIN | 270 | 180 | 254 | 309 | 695 | 2830 | 3130 | 2490 | 305 | 111 | 128 | 164 |
| ACFT | 20390 | 15150 | 26050 | 29200 | 133200 | 215300 | 216500 | 245300 | 82910 | 10790 | 10520 | 27960 |
| CAL YR 1985 | TOTAL | 318101 | MEAN | 872 | MAX | 3500 | MIN | 80 | ACFT | 631000 | | |
| WTR YR 1986 | TOTAL | 520961 | MEAN | 1427 | MAX | 5480 | MIN | 111 | ACFT | 1033000 | | |

e Estimated.

WEBER RIVER BASIN

275

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 microsiemens May 16, 1977; minimum, 120 microsiemens November 11, 1978.

WATER TEMPERATURES: Maximum, 28.5°C June 25, 26, 1977; minimum, 0.0°C Dec. 31, 1978, Jan. 1, 1979, Jan. 1, 1980.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | PH (STAND- ARD UNITS) | TEMPER- ATURE, AIR (DEG C) | TEMPER- ATURE (DEG C) | TUR- BID- ITY (NTU) | OXYGEN, DIS- SOLVED (MG/L) | BARO- METRIC PRES- SURE (MM OF HG) | COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) | STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) |
|----------|------|---|---|--------------------------------|-------------------------------------|-----------------------------|------------------------------|-------------------------------------|--|--|--|
| DEC 1985 | | | | | | | | | | | |
| 06... | 1030 | 312 | 720 | 8.30 | -2.0 | 4.0 | -- | 10.2 | 660 | 54 | 290 |
| MAR 1986 | | | | | | | | | | | |
| 19... | 1325 | 3200 | 445 | 8.30 | 11.5 | 5.5 | 25 | 10.8 | 660 | 120 | 210 |
| MAY | | | | | | | | | | | |
| 03... | 1210 | 4390 | 350 | 8.20 | 24.0 | 11.0 | 70 | 9.5 | 650 | 150 | 110 |
| JUL | | | | | | | | | | | |
| 15... | 1750 | 114 | 680 | 7.80 | 21.5 | 19.5 | 7.2 | 3.9 | 653 | 180 | 150 |

| DATE | HARD- NESS (MG/L AS CAC03) | HARD- NESS NONCAR- BONATE (MG/L AS CAC03) | CALCIUM DIS- SOLVED (MG/L AS CA) | MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) | SODIUM, DIS- SOLVED (MG/L AS NA) | PERCENT SODIUM | SODIUM AD- SORP- TION RATIO | POTAS- SIUM, DIS- SOLVED (MG/L AS K) | BICAR- BONATE IT-FLD (MG/L AS HCO3) | ALKA- LITY, CARBON- ATE IT-FLD (MG/L - CAC03) | SULFATE DIS- SOLVED (MG/L AS SO4) |
|----------|--|---|--|--|--|-------------------|---|---|--|---|---|
| DEC 1985 | | | | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | 302 | 247 | -- |
| MAR 1986 | | | | | | | | | | | |
| 19... | 190 | 190 | 53 | 14 | 19 | 18 | 0.6 | 2.7 | 202 | 165 | 26 |
| MAY | | | | | | | | | | | |
| 03... | 150 | 145 | 40 | 11 | 13 | 16 | 0.5 | 2.0 | 164 | 135 | 20 |
| JUL | | | | | | | | | | | |
| 15... | 230 | 226 | 59 | 19 | 49 | 31 | 1 | 5.7 | 258 | 212 | 26 |

| 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 CONSTITUENTS, DIS- SOLVED (MG/L) | SOLIDS, DIS- SOLVED (TONS PER AC-FT) | SOLIDS, DIS- SOLVED (TONS PER DAY) | NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) | NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) | NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) |
|----------|---|--|---|--|--|---|---|---|---|---|
| DEC 1985 | | | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | 1.25 | 0.05 | 1.30 |
| MAR 1986 | | | | | | | | | | |
| 19... | 27 | 0.2 | 9.9 | 259 | 250 | 0.35 | 2240 | -- | <0.01 | 0.46 |
| MAY | | | | | | | | | | |
| 03... | 18 | 0.1 | 9.1 | 197 | 190 | 0.27 | 2340 | 0.29 | 0.01 | 0.30 |
| JUL | | | | | | | | | | |
| 15... | 70 | 0.2 | 10 | 383 | 370 | 0.52 | 118 | 0.53 | 0.03 | 0.56 |

| DATE | NITRO- GEN, AMMONIA TOTAL (MG/L AS N) | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) | NITRO- GEN, ORGANIC TOTAL (MG/L AS N) | NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) | PHOS- PHORUS, TOTAL (MG/L AS P) | PHOS- PHORUS TOTAL (MG/L AS P04) | 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 P04) |
|----------|--|---|---|--|--|---|--|--|--|---|
| DEC 1985 | | | | | | | | | | |
| 06... | 0.20 | 0.21 | 0.27 | 0.6 | 0.8 | 0.53 | 1.6 | 0.50 | 0.43 | 1.3 |
| MAR 1986 | | | | | | | | | | |
| 19... | 0.05 | 0.05 | 0.06 | 0.55 | 0.6 | 0.23 | -- | 0.09 | 0.07 | 0.21 |
| MAY | | | | | | | | | | |
| 03... | 0.09 | 0.07 | 0.09 | 0.61 | 0.7 | 0.37 | -- | 0.05 | 0.05 | 0.15 |
| JUL | | | | | | | | | | |
| 15... | 0.26 | 0.25 | 0.32 | 0.74 | 1.0 | 1.20 | -- | 0.91 | 0.86 | 2.6 |

WEBER RIVER BASIN

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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) |
|-------------------|------|---|--|--|--|--|---|--|--|--|--|
| MAR 1986 19... | 1325 | 40 | 2 | 83 | <0.5 | <1 | <1 | <3 | 2 | 20 | <1 |
| MAY 03... | 1210 | 20 | 1 | 72 | <0.5 | <1 | <1 | <3 | 3 | 6 | 1 |
| JUL 15... | 1750 | <10 | 2 | 110 | 2 | <1 | <1 | <3 | 2 | 18 | <5 |

| 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) |
|-------------------|--|--|--|---|--|---|--|--|--|--|
| MAR 1986 19... | 16 | 28 | <0.1 | <10 | 3 | <1 | <1 | 200 | <6 | 12 |
| MAY 03... | 12 | 11 | <0.1 | <10 | 3 | <1 | <1 | 160 | <6 | 4 |
| JUL 15... | 48 | 190 | <0.1 | <10 | 3 | <1 | <1 | 260 | <6 | 9 |

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) |
|-------------------|------|---|-----------------------------|--|---|---|
| MAR 1986 19... | 1325 | 3200 | 5.5 | 60 | 148 | 1280 |
| MAY 03... | 1210 | 4390 | 11.0 | 74 | 231 | 2740 |
| JUL 15... | 1750 | 114 | 19.5 | 62 | 5 | 1.5 |

JORDAN RIVER BASIN

277

10146400 CARRANT 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 Burrison ponds, 0.5 mi upstream from Mount Nebo Reservoir, 2 mi southwest of Mona.

DRAINAGE AREA.--225 mi².

PERIOD OF RECORD.--June 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,890 ft from topographic map. Prior to June 10, 1985, at same site, different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--8 years, 52.2 ft³/s, 37,820 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 595 ft³/s May 14, 1984, gage height, 6.30 ft; minimum, 3.4 ft³/s Aug. 1-4, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 512 ft³/s Apr. 2, gage height, 4.45 ft; minimum daily, 15 ft³/s June 25, July 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------------|------|-----------|------|---------|------|--------|------|------------|------|------|------|
| 1 | 23 | 35 | 97 | e44 | 147 | 92 | 201 | 97 | 38 | 16 | 18 | 22 |
| 2 | 23 | 36 | 114 | e44 | 96 | 89 | 396 | 101 | 37 | 16 | 18 | 21 |
| 3 | 23 | 36 | 155 | 45 | 107 | 90 | 331 | 106 | 30 | 16 | 18 | 21 |
| 4 | 23 | 38 | 75 | 46 | 89 | 99 | 195 | 108 | 31 | 16 | 17 | 20 |
| 5 | 23 | 42 | 60 | 45 | 69 | 105 | 141 | 111 | 41 | 16 | 18 | 19 |
| 6 | 24 | 44 | 56 | 46 | 57 | 79 | 116 | 85 | 46 | 17 | 18 | 19 |
| 7 | 46 | 41 | 55 | e46 | 48 | 79 | 110 | 82 | 39 | 17 | 19 | 19 |
| 8 | 36 | 41 | 59 | 40 | 48 | 72 | 112 | 88 | 31 | 17 | 19 | 19 |
| 9 | 38 | 46 | e59 | 38 | 41 | 145 | 117 | 86 | 41 | 17 | 18 | 18 |
| 10 | 35 | 46 | 50 | 38 | 37 | 125 | 116 | 66 | 37 | 16 | 19 | 23 |
| 11 | 32 | 47 | e46 | 42 | 39 | 128 | 120 | 53 | 32 | 16 | 18 | 22 |
| 12 | 30 | 71 | e45 | 33 | 43 | 115 | 119 | 52 | 28 | 16 | 19 | 21 |
| 13 | 32 | 53 | e44 | 34 | 177 | 94 | 105 | 42 | 26 | 16 | 18 | 20 |
| 14 | 29 | 52 | e42 | 34 | 221 | 110 | 118 | 42 | 24 | 15 | 18 | 20 |
| 15 | 27 | 53 | e35 | 36 | 230 | 126 | 100 | 42 | 22 | 17 | 19 | 19 |
| 16 | 28 | 50 | e35 | 51 | 245 | 85 | 100 | 46 | 21 | 21 | 18 | 19 |
| 17 | 28 | 56 | e35 | 63 | 126 | 92 | 188 | 48 | 20 | 19 | 18 | 19 |
| 18 | 27 | 55 | e35 | 72 | 91 | 90 | 197 | 48 | 19 | 18 | 18 | 20 |
| 19 | 27 | 40 | e36 | 97 | 92 | 73 | 134 | 40 | 18 | 18 | 18 | 21 |
| 20 | 27 | 41 | e36 | 123 | 240 | 70 | 103 | 40 | 18 | 18 | 18 | 21 |
| 21 | 27 | 46 | e39 | 115 | 116 | 63 | 99 | 44 | 17 | 22 | 21 | 22 |
| 22 | 36 | 42 | e39 | 73 | 77 | 61 | 106 | 54 | 17 | 30 | 22 | 22 |
| 23 | 35 | 38 | e39 | 67 | 64 | 58 | 126 | 53 | 16 | 27 | 21 | 22 |
| 24 | 32 | 87 | e39 | 67 | 60 | 61 | 132 | 47 | 16 | 25 | 21 | 32 |
| 25 | 32 | 144 | e39 | 61 | 69 | 61 | 126 | 39 | 15 | 23 | 20 | 52 |
| 26 | 33 | 99 | e39 | 59 | 86 | 56 | 136 | 36 | 16 | 21 | 19 | 55 |
| 27 | 34 | 67 | e39 | 62 | 97 | 59 | 111 | 39 | 16 | 19 | 19 | 39 |
| 28 | 33 | 61 | e45 | 94 | 95 | 60 | 96 | 41 | 16 | 19 | 19 | 51 |
| 29 | 32 | 113 | e45 | 116 | --- | 76 | 83 | 43 | 16 | 19 | 19 | 40 |
| 30 | 33 | 123 | e44 | 95 | --- | 107 | 84 | 46 | 16 | 19 | 19 | 36 |
| 31 | 34 | --- | e44 | 207 | --- | 160 | --- | 43 | --- | 18 | 20 | --- |
| TOTAL | 942 | 1743 | 1620 | 2033 | 2907 | 2780 | 4218 | 1868 | 760 | 580 | 584 | 774 |
| MEAN | 30.4 | 58.1 | 52.3 | 65.6 | 104 | 89.7 | 141 | 60.3 | 25.3 | 18.7 | 18.8 | 25.8 |
| MAX | 46 | 144 | 155 | 207 | 245 | 160 | 396 | 111 | 46 | 30 | 22 | 55 |
| MIN | 23 | 35 | 35 | 33 | 37 | 56 | 83 | 36 | 15 | 15 | 17 | 18 |
| ACFT | 1870 | 3460 | 3210 | 4030 | 5770 | 5510 | 8370 | 3710 | 1510 | 1150 | 1160 | 1540 |
| CAL YR 1985 | TOTAL 23224 | | MEAN 63.6 | | MAX 350 | | MIN 16 | | ACFT 46060 | | | |
| WTR YR 1986 | TOTAL 20809 | | MEAN 57.0 | | MAX 396 | | MIN 15 | | ACFT 41270 | | | |

e Estimated.

JORDAN RIVER BASIN

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 mi².

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 for estimated daily discharges, which are fair. No diversion.

AVERAGE DISCHARGE.--23 years, 6.44 ft³/s, 4,670 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 1,200 ft³/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 ft³/s on basis of slope-area measurement; minimum, 0.15 ft³/s Aug. 19, 20, 1983, result of temporary blockage upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|------|------|--------------------------------|------------------|------|------|--------------------------------|------------------|
|------|------|--------------------------------|------------------|------|------|--------------------------------|------------------|

| | | | | | | | |
|-------|------|-----|-------|--|--|--|--|
| May 4 | 0900 | *34 | *2.55 | No other peak greater than base discharge. | | | |
|-------|------|-----|-------|--|--|--|--|

Daily discharge on May 4 is equal to maximum discharge.

Minimum observed, 0.79 ft³/s Dec. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|-------|-------|
| 1 | 5.0 | 4.7 | 4.5 | e3.1 | 3.8 | 6.0 | 19 | 27 | 21 | 13 | 8.7 | 6.3 |
| 2 | 4.9 | 4.7 | 4.6 | 3.5 | 3.8 | 6.4 | 20 | 31 | 20 | 13 | 8.3 | 6.2 |
| 3 | 4.8 | 4.7 | 4.5 | 3.4 | 3.9 | 7.0 | 20 | 32 | 20 | 13 | 8.2 | 6.1 |
| 4 | 4.8 | 4.7 | 4.5 | e3.2 | 3.9 | 7.6 | 20 | 34 | 20 | 13 | 8.0 | 5.9 |
| 5 | 4.8 | 4.8 | 4.5 | 3.7 | 3.8 | 8.2 | 20 | 33 | 19 | 12 | 7.9 | 5.7 |
| 6 | 4.9 | 4.7 | 4.4 | e3.7 | 3.8 | 8.9 | 20 | 33 | 19 | 12 | 7.9 | 5.6 |
| 7 | 6.3 | 4.7 | 4.6 | e3.5 | e3.4 | 9.3 | 20 | 32 | 19 | 12 | 7.7 | 5.5 |
| 8 | 5.3 | 4.5 | 4.8 | e3.2 | e3.1 | 9.8 | 21 | 32 | 19 | 12 | 7.6 | 5.4 |
| 9 | 5.2 | 4.6 | 4.7 | e3.5 | e2.9 | 11 | 21 | 30 | 18 | 12 | 7.7 | 5.7 |
| 10 | 5.0 | 4.5 | e4.0 | 3.8 | e3.1 | 10 | 21 | 29 | 18 | 12 | 7.6 | 5.7 |
| 11 | 5.0 | 4.7 | e3.3 | 3.9 | e3.2 | 10 | 21 | 28 | 18 | 12 | 7.5 | 5.5 |
| 12 | 5.1 | 4.7 | e2.4 | e3.7 | e3.3 | 10 | 21 | 27 | 18 | 11 | 7.5 | 5.3 |
| 13 | 5.1 | e3.9 | e2.5 | e3.5 | 3.4 | 10 | 22 | 26 | 18 | 11 | 7.4 | 5.2 |
| 14 | 5.0 | 4.3 | e2.6 | e3.3 | 3.4 | 9.9 | 22 | 26 | 17 | 11 | 7.4 | 5.0 |
| 15 | 4.9 | 4.3 | e2.7 | 3.5 | 3.7 | 9.8 | 21 | 25 | 17 | 11 | 7.2 | 5.0 |
| 16 | 4.8 | e4.0 | e2.9 | 3.5 | 3.6 | 9.9 | 22 | 25 | 16 | 11 | 7.1 | 4.9 |
| 17 | 4.8 | 4.3 | e3.0 | 3.6 | 3.8 | 9.8 | 23 | 25 | 16 | 11 | 6.8 | 4.9 |
| 18 | 4.8 | e4.2 | e3.0 | 3.5 | 4.0 | 9.7 | 23 | 24 | 16 | 11 | 6.7 | 4.9 |
| 19 | 4.8 | e3.7 | e3.1 | 3.5 | 4.3 | 9.7 | 22 | 24 | e16 | 10 | 6.7 | 4.8 |
| 20 | 4.8 | e3.9 | e3.1 | 3.4 | 4.2 | 9.6 | 22 | 24 | e15 | 9.9 | 7.2 | 4.7 |
| 21 | 4.7 | e3.9 | e3.1 | e3.3 | 4.0 | 9.7 | 23 | 24 | e15 | 9.9 | 7.5 | 4.7 |
| 22 | 5.0 | e3.8 | e3.0 | e3.2 | 4.1 | 9.9 | 23 | 25 | e15 | 10 | 7.1 | 4.6 |
| 23 | 4.9 | e3.7 | e3.0 | 3.5 | 4.1 | 10 | 24 | 24 | e15 | 10 | 7.0 | 4.6 |
| 24 | 4.8 | 4.3 | e3.1 | e3.3 | 4.3 | 11 | 26 | 23 | e14 | 10 | 6.9 | 5.4 |
| 25 | 4.8 | 4.4 | e3.0 | e3.0 | 4.5 | 11 | 27 | 23 | e14 | 9.9 | 6.8 | 5.8 |
| 26 | 4.8 | 4.3 | e3.1 | e3.0 | 4.8 | 12 | 27 | 23 | e14 | 9.8 | 6.6 | 5.3 |
| 27 | 4.8 | 4.4 | e3.0 | e3.5 | 5.1 | 13 | 26 | 23 | e14 | 9.6 | 6.5 | 5.1 |
| 28 | 4.7 | 4.6 | e3.1 | 3.9 | 5.4 | 14 | 27 | 22 | 14 | 9.5 | 6.4 | 5.1 |
| 29 | 4.8 | 4.7 | e3.2 | 3.9 | --- | 15 | 26 | 22 | 14 | 9.3 | 6.5 | 4.8 |
| 30 | 4.8 | 4.5 | 3.3 | 3.9 | --- | 16 | 26 | 22 | 13 | 9.2 | 6.4 | 4.8 |
| 31 | 4.8 | --- | 3.2 | 4.0 | --- | 18 | --- | 21 | --- | 9.0 | 6.4 | --- |
| TOTAL | 153.0 | 131.2 | 107.8 | 108.5 | 108.7 | 322.2 | 676 | 819 | 502 | 339.1 | 225.2 | 158.5 |
| MEAN | 4.94 | 4.37 | 3.48 | 3.50 | 3.88 | 10.4 | 22.5 | 26.4 | 16.7 | 10.9 | 7.26 | 5.28 |
| MAX | 6.3 | 4.8 | 4.8 | 4.0 | 5.4 | 18 | 27 | 34 | 21 | 13 | 8.7 | 6.3 |
| MIN | 4.7 | 3.7 | 2.4 | 3.0 | 2.9 | 6.0 | 19 | 21 | 13 | 9.0 | 6.4 | 4.6 |
| ACFT | 303 | 260 | 214 | 215 | 216 | 639 | 1340 | 1620 | 996 | 673 | 447 | 314 |

| | | | | | | | | | | |
|-------------|-------|--------|------|------|-----|----|-----|-----|------|------|
| CAL YR 1985 | TOTAL | 3949.2 | MEAN | 10.8 | MAX | 39 | MIN | 2.4 | ACFT | 7830 |
| WTR YR 1986 | TOTAL | 3651.2 | MEAN | 10.0 | MAX | 34 | MIN | 2.4 | ACFT | 7240 |

e Estimated.

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 mi² (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 good except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,420 ft³/s May 15, 1984; minimum daily, 0.80 ft³/s Apr. 17, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 853 ft³/s May 4; minimum daily discharge, 57 ft³/s Dec. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|-------|-------|-------|-------|-------|--------|------|------|
| 1 | 86 | 97 | 107 | 78 | 109 | 204 | 521 | 620 | 458 | 147 | 112 | 82 |
| 2 | 86 | 97 | 107 | 81 | 109 | 212 | e600 | 694 | 424 | 145 | 109 | 84 |
| 3 | 88 | 97 | 110 | 81 | 110 | 214 | e430 | 774 | 396 | 143 | 109 | 85 |
| 4 | 91 | 97 | 109 | 74 | 99 | 217 | e375 | 853 | 368 | 141 | 104 | 84 |
| 5 | 91 | 102 | 100 | 79 | 94 | 219 | e350 | 769 | 362 | 143 | 100 | 82 |
| 6 | 91 | 99 | 99 | 84 | 92 | 217 | e360 | 704 | 336 | 141 | 100 | 82 |
| 7 | 139 | 97 | 97 | 76 | 78 | 217 | e380 | 647 | 317 | 136 | 100 | 81 |
| 8 | 114 | 97 | 100 | e68 | e70 | 227 | e380 | 598 | 317 | 130 | 99 | 81 |
| 9 | 110 | 99 | 97 | 76 | e67 | 314 | e370 | 567 | 302 | 130 | 99 | 84 |
| 10 | 105 | 97 | 88 | 82 | e70 | 256 | e360 | 525 | 287 | 128 | 102 | 92 |
| 11 | 102 | 102 | e71 | 82 | 88 | 242 | e370 | 509 | 270 | 126 | 102 | 91 |
| 12 | 102 | 107 | e57 | 79 | 82 | 219 | e380 | 501 | 253 | 124 | 104 | 90 |
| 13 | 105 | 90 | e60 | 81 | 105 | 209 | e410 | 501 | 245 | 122 | 105 | 88 |
| 14 | 105 | 99 | e62 | 79 | 122 | 204 | e380 | 521 | 237 | 117 | 102 | 88 |
| 15 | 105 | 99 | e68 | 82 | 299 | 195 | e380 | 542 | 224 | 122 | 102 | 92 |
| 16 | 104 | 91 | 71 | 79 | 345 | 193 | e410 | 550 | 217 | 134 | 99 | 94 |
| 17 | 102 | 99 | 74 | 79 | 445 | 190 | e420 | 517 | 209 | 117 | 94 | 92 |
| 18 | 102 | 97 | 75 | 82 | 647 | 183 | e410 | 505 | 207 | 114 | 92 | 91 |
| 19 | 100 | 85 | 75 | 84 | 690 | 177 | e390 | 542 | 207 | 109 | 92 | 91 |
| 20 | 100 | 90 | 76 | 85 | 418 | 174 | e390 | 611 | 200 | 107 | 111 | 91 |
| 21 | 100 | 91 | 76 | 79 | 207 | 183 | e430 | 685 | e185 | 112 | 104 | 90 |
| 22 | 105 | e81 | 75 | 79 | 172 | 200 | e490 | 709 | e180 | 126 | 91 | 91 |
| 23 | 104 | 84 | 75 | 82 | 177 | 217 | e560 | 643 | e175 | 132 | 90 | 91 |
| 24 | 100 | 102 | 76 | 81 | 190 | 234 | e600 | 593 | 168 | 128 | 88 | 102 |
| 25 | 100 | 132 | 75 | 72 | 209 | 237 | e580 | 589 | 168 | 124 | 90 | 124 |
| 26 | 100 | 132 | 74 | e72 | 232 | 237 | e540 | 606 | 170 | 119 | 85 | 115 |
| 27 | 99 | 109 | 75 | 79 | 227 | 250 | e510 | 620 | 164 | 115 | 84 | 107 |
| 28 | 99 | 107 | 78 | 82 | 207 | 281 | e485 | 602 | 160 | 112 | 85 | 109 |
| 29 | 99 | 124 | 78 | 84 | --- | 314 | e510 | 571 | 155 | 104 | 88 | 104 |
| 30 | 99 | 119 | 79 | 84 | --- | 342 | e560 | 529 | 151 | 107 | 85 | 100 |
| 31 | 99 | --- | 81 | 110 | --- | 493 | --- | 489 | --- | 109 | 84 | --- |
| TOTAL | 3132 | 3019 | 2545 | 2495 | 5760 | 7271 | 13331 | 18686 | 7512 | 3864 | 3011 | 2778 |
| MEAN | 101 | 101 | 82.1 | 80.5 | 206 | 235 | 444 | 603 | 250 | 125 | 97.1 | 92.6 |
| MAX | 139 | 132 | 110 | 110 | 690 | 493 | 600 | 853 | 458 | 147 | 112 | 124 |
| MIN | 86 | 81 | 57 | 68 | 67 | 174 | 350 | 489 | 151 | 104 | 84 | 81 |
| ACFT | 6210 | 5990 | 5050 | 4950 | 11420 | 14420 | 26440 | 37060 | 14900 | 7660 | 5970 | 5510 |
| CAL YR 1985 | TOTAL | 59225 | MEAN | 162 | MAX | 710 | MIN | 38 | ACFT | 117500 | | |
| WTR YR 1986 | TOTAL | 73404 | MEAN | 201 | MAX | 853 | MIN | 57 | ACFT | 145600 | | |

e Estimated.

JORDAN RIVER BASIN

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 mi².

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 except estimated daily discharges, which are poor. 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 ft³/s; 62 years (1914-17, 1919-25, 1933-86), 233 ft³/s, 168,800 acre-ft/yr; includes transmountain diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,000 ft³/s May 15, 1984, gage height, 11.53 ft; minimum, 5.8 ft³/s Dec. 18, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,240 ft³/s May 4, gage height, 6.08 ft; minimum daily, 97 ft³/s Dec. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1 | 156 | 140 | 140 | 106 | 142 | 285 | 743 | 954 | 699 | 574 | 448 | 283 |
| 2 | 153 | 138 | 140 | 111 | 137 | 297 | 906 | 1040 | 655 | e570 | 446 | 276 |
| 3 | 154 | 140 | 146 | 112 | 140 | 303 | 786 | 1110 | 616 | e545 | 450 | 290 |
| 4 | 154 | 142 | 144 | 108 | 128 | 308 | 695 | 1190 | e575 | e560 | 443 | 277 |
| 5 | 155 | 150 | 136 | 114 | 124 | 316 | 648 | 1090 | e570 | 577 | 509 | 269 |
| 6 | 151 | 145 | 135 | 118 | 123 | 314 | 652 | 969 | e545 | 578 | 523 | 268 |
| 7 | 212 | 141 | 132 | 116 | 109 | 318 | 700 | 897 | e570 | e570 | 524 | 266 |
| 8 | 170 | 142 | 135 | 105 | 106 | 339 | 692 | 889 | 599 | e500 | 520 | 265 |
| 9 | 160 | 142 | 133 | 113 | 105 | 481 | 677 | 870 | 604 | e420 | 500 | 248 |
| 10 | 151 | 140 | 122 | 120 | 103 | 370 | 648 | 819 | e550 | 408 | 485 | 250 |
| 11 | 148 | 143 | 103 | 120 | 121 | 351 | 669 | 773 | e540 | 437 | e477 | 226 |
| 12 | 148 | 153 | 97 | 117 | 117 | 304 | 682 | 748 | e545 | 433 | 514 | 200 |
| 13 | 150 | 134 | 101 | 117 | 133 | 285 | 728 | 762 | e550 | 430 | 505 | e186 |
| 14 | 150 | 140 | 103 | 113 | 148 | 272 | 672 | 794 | 566 | 414 | 497 | 172 |
| 15 | 150 | 137 | 106 | 113 | 317 | 258 | 668 | 812 | 577 | 453 | 499 | 162 |
| 16 | 150 | 132 | 110 | 112 | 408 | 253 | 725 | 823 | 592 | 479 | e458 | e174 |
| 17 | 150 | 137 | 112 | 114 | 486 | 245 | 737 | 779 | e575 | 425 | 445 | e195 |
| 18 | 149 | 135 | 113 | 114 | 725 | 233 | 711 | 773 | e570 | 423 | 442 | 192 |
| 19 | 148 | 126 | 111 | 115 | 862 | 219 | 678 | 820 | 588 | 414 | 468 | 184 |
| 20 | 148 | 129 | 112 | 118 | 609 | 213 | 677 | 918 | 576 | 410 | 486 | 179 |
| 21 | 148 | 131 | 110 | 111 | 288 | 223 | 738 | 1010 | 583 | 427 | 462 | 172 |
| 22 | 153 | 121 | 111 | 111 | 224 | 242 | 858 | 1090 | 591 | 477 | 407 | e182 |
| 23 | 151 | 126 | 110 | 112 | 239 | 274 | 961 | 948 | 598 | 473 | 363 | e178 |
| 24 | 147 | 138 | 109 | 108 | 266 | 309 | 1000 | 860 | 595 | 458 | 330 | 203 |
| 25 | 145 | 163 | 108 | 107 | 288 | 337 | 975 | 864 | 596 | 439 | 308 | e224 |
| 26 | 144 | 175 | 107 | 109 | 322 | 346 | 918 | 882 | 581 | 395 | 306 | e204 |
| 27 | 145 | 147 | 106 | 120 | 324 | 370 | 828 | 917 | e560 | 382 | 304 | e157 |
| 28 | 146 | 141 | 105 | 120 | 292 | 439 | 806 | 883 | e550 | 373 | 297 | e161 |
| 29 | 146 | 161 | 103 | 120 | --- | 508 | 846 | 830 | e560 | 356 | 298 | 153 |
| 30 | 146 | 158 | 104 | 119 | --- | 572 | 890 | 787 | 569 | 400 | 299 | 150 |
| 31 | 144 | --- | 105 | 141 | --- | 777 | --- | 737 | --- | 433 | 288 | --- |
| TOTAL | 4722 | 4247 | 3609 | 3554 | 7386 | 10361 | 22914 | 27638 | 17445 | 14233 | 13301 | 6346 |
| MEAN | 152 | 142 | 116 | 115 | 264 | 334 | 764 | 892 | 582 | 459 | 429 | 212 |
| MAX | 212 | 175 | 146 | 141 | 862 | 777 | 1000 | 1190 | 699 | 578 | 524 | 290 |
| MIN | 144 | 121 | 97 | 105 | 103 | 213 | 648 | 737 | 540 | 356 | 288 | 150 |
| ACFT | 9370 | 8420 | 7160 | 7050 | 14650 | 20550 | 45450 | 54820 | 34600 | 28230 | 26380 | 12590 |
| CAL YR 1985 | TOTAL | 124022 | MEAN | 340 | MAX | 1060 | MIN | 77 | ACFT | 246000 | | |
| WTR YR 1986 | TOTAL | 135756 | MEAN | 372 | MAX | 1190 | MIN | 97 | ACFT | 269300 | | |

e Estimated.

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 mi².

PERIOD OF RECORD.--December 1903 to September 1907, March 1909 to December 1919, May 1920 to September 1925, January 1938 to current year. Published as "at Lake Shore" 1909, 1913-25.

REVISED RECORDS.--WSP 1314: 1904. WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,500 ft from topographic map. Prior to Jan. 23, 1938, nonrecording gages at several sites about 3 mi upstream at various datums. Jan. 23, 1938 to Mar. 23, 1953, water-stage recorder at present site at different datums. Mar. 24, 1953 to Sept. 15, 1957, water-stage recorder at datum 4.0 ft higher. Apr. 25, 1984 at present site, different datum.

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.--66 years (water years 1905-07, 1910-18, 1921-25, 1939-86), 102 ft³/s, 73,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,320 ft³/s May 15, 1984, gage height, 11.39 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,200 ft³/s May 3; minimum daily discharge, 21 ft³/s July 1.

REVISIONS.--Revised figures of discharge for the water year 1985, superseding those published in the report for 1985 are given below.

EXTREMES FOR WATER YEAR 1985.--Maximum daily discharge, 640 ft³/s May 13, 14; minimum daily discharge, 24 ft³/s Aug. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|------|-------|-------|-------|-------|--------|------|------|
| 1 | e274 | e300 | e245 | e180 | e100 | e96 | e280 | e480 | e150 | e45 | 70 | 86 |
| 2 | e320 | e280 | e230 | e175 | e105 | e99 | e290 | e500 | e135 | e47 | 69 | 108 |
| 3 | e270 | e270 | e220 | e165 | e110 | e100 | e310 | e520 | e120 | e49 | 74 | 116 |
| 4 | e260 | e260 | e210 | e165 | e110 | e95 | e330 | e540 | e105 | e53 | 78 | 105 |
| 5 | e255 | e275 | e200 | e170 | e105 | e90 | e360 | e560 | e90 | e59 | 71 | 105 |
| 6 | e250 | e300 | e205 | e195 | e100 | e88 | e385 | e530 | e95 | e60 | 58 | 77 |
| 7 | e250 | e320 | e210 | e220 | e105 | e89 | e415 | e520 | e110 | e60 | 45 | 81 |
| 8 | e250 | e285 | e220 | e240 | e110 | e90 | e420 | e510 | e140 | e52 | 27 | 93 |
| 9 | e248 | e270 | e235 | e230 | e110 | e90 | e420 | e550 | e170 | e40 | 27 | 112 |
| 10 | e248 | e290 | e245 | e220 | e105 | e95 | e420 | e590 | e210 | e32 | 26 | 102 |
| 11 | e248 | e300 | e240 | e205 | e95 | e98 | e425 | e610 | e250 | e38 | 39 | 99 |
| 12 | e260 | e295 | e225 | e200 | e100 | e98 | e430 | e630 | e300 | 45 | 41 | 157 |
| 13 | e280 | e285 | e215 | e190 | e105 | e100 | e445 | e640 | e360 | 65 | 44 | 105 |
| 14 | e310 | e280 | e205 | e180 | e105 | e100 | e460 | e640 | e410 | 78 | 32 | 74 |
| 15 | e290 | e270 | e210 | e180 | e105 | e115 | e475 | e610 | e400 | 110 | 42 | 86 |
| 16 | e270 | e265 | e210 | e180 | e108 | e130 | e500 | e580 | e380 | 99 | 39 | 86 |
| 17 | e280 | e250 | e205 | e180 | e105 | e160 | e520 | e560 | e330 | 127 | 24 | 86 |
| 18 | e300 | e240 | e215 | e180 | e98 | e200 | e550 | e540 | e290 | 193 | 45 | 85 |
| 19 | e280 | e240 | e230 | e190 | e107 | e240 | e580 | e510 | e260 | 166 | 62 | 106 |
| 20 | e315 | e240 | e220 | e205 | e110 | e285 | e570 | e490 | e255 | 166 | 71 | 111 |
| 21 | e340 | e240 | e210 | e220 | e108 | e320 | e550 | e470 | e250 | 206 | 62 | 102 |
| 22 | e300 | e250 | e200 | e245 | e110 | e310 | e530 | e450 | e250 | 171 | 71 | 128 |
| 23 | e260 | e280 | e195 | e230 | e100 | e300 | e500 | e430 | e250 | 142 | 77 | 100 |
| 24 | e311 | e300 | e195 | e215 | e95 | e290 | e490 | e410 | e250 | 175 | 79 | 81 |
| 25 | e315 | e280 | e200 | e205 | e95 | e285 | e490 | e390 | e245 | 125 | 88 | 86 |
| 26 | e310 | e250 | e210 | e220 | e94 | e270 | e480 | e380 | e150 | 102 | 99 | 96 |
| 27 | e300 | e230 | e210 | e235 | e98 | e260 | e480 | e360 | e60 | 92 | 98 | 88 |
| 28 | e290 | e240 | e205 | e220 | e95 | e260 | e470 | e340 | e52 | 114 | 105 | 73 |
| 29 | e300 | e240 | e205 | e170 | --- | e260 | e470 | e300 | e47 | 135 | 90 | 60 |
| 30 | e300 | e250 | e200 | e140 | --- | e260 | e480 | e190 | e45 | 104 | 86 | 70 |
| 31 | e300 | --- | e190 | e115 | --- | e270 | --- | e170 | --- | 95 | 85 | --- |
| TOTAL | 8784 | 8075 | 6615 | 6065 | 2893 | 5543 | 13525 | 15000 | 6159 | 3045 | 1924 | 2864 |
| MEAN | 283 | 269 | 213 | 196 | 103 | 179 | 451 | 484 | 205 | 98.2 | 62.1 | 95.5 |
| MAX | 340 | 320 | 245 | 245 | 110 | 320 | 580 | 640 | 410 | 206 | 105 | 157 |
| MIN | 248 | 230 | 190 | 115 | 94 | 88 | 280 | 170 | 45 | 32 | 24 | 60 |
| ACFT | 17420 | 16020 | 13120 | 12030 | 5740 | 10990 | 26830 | 29750 | 12220 | 6040 | 3820 | 5680 |
| CAL YR 1984 | TOTAL | 156036 | MEAN | 426 | MAX | 3190 | MIN | 36 | ACFT | 309500 | | |
| WTR YR 1985 | TOTAL | 80492 | MEAN | 221 | MAX | 640 | MIN | 24 | ACFT | 159700 | | |

e Estimated.

JORDAN RIVER BASIN

10152000 SPANISH FORK NEAR LAKESHORE, UT--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|-------|-------|-------|-------|------|--------|------|------|
| 1 | 49 | e150 | e170 | e131 | 247 | e340 | e860 | e1000 | 176 | 21 | 161 | e76 |
| 2 | 49 | e150 | e153 | e133 | 214 | e350 | e940 | e1100 | 127 | 32 | 224 | e80 |
| 3 | 48 | e152 | e156 | e136 | 229 | e360 | e800 | e1200 | 79 | 41 | 225 | e82 |
| 4 | 61 | e159 | e156 | e139 | 191 | e370 | e700 | e1100 | 61 | 46 | 219 | e80 |
| 5 | 72 | e161 | e150 | e140 | 209 | e370 | e660 | e1000 | 36 | 46 | 215 | e80 |
| 6 | 121 | e160 | e150 | e135 | e189 | e400 | e680 | e940 | 32 | 36 | 212 | e80 |
| 7 | 226 | e159 | e148 | e130 | e170 | e430 | e685 | e940 | 28 | 51 | 213 | e80 |
| 8 | 211 | e151 | e148 | e125 | e160 | e460 | e700 | e920 | 28 | 55 | 214 | e80 |
| 9 | 185 | e151 | e148 | e129 | e150 | e530 | e680 | e900 | 33 | 45 | 184 | e78 |
| 10 | 175 | e155 | e148 | e131 | e160 | e450 | e660 | e840 | 34 | 47 | 110 | e74 |
| 11 | 174 | e166 | e146 | e130 | e169 | e380 | e665 | e820 | 34 | 58 | 96 | e68 |
| 12 | 175 | e170 | e140 | e129 | e175 | e350 | e680 | e800 | 32 | 50 | e88 | e66 |
| 13 | 175 | e165 | e140 | e128 | e220 | e310 | e700 | e800 | 31 | 61 | e82 | e64 |
| 14 | 175 | e160 | e140 | e123 | e350 | e300 | e700 | e810 | 31 | 38 | e76 | e60 |
| 15 | 175 | e164 | e139 | e124 | e500 | e270 | e680 | e820 | 31 | 25 | e74 | e60 |
| 16 | 175 | e168 | e138 | e125 | e680 | e260 | e720 | e820 | 32 | 63 | e72 | e64 |
| 17 | 175 | e170 | e140 | e125 | e760 | e250 | e740 | e800 | 32 | 57 | e82 | e68 |
| 18 | 176 | e172 | e140 | e124 | e850 | e240 | e740 | e820 | 32 | 51 | e86 | e66 |
| 19 | 176 | e170 | e140 | e123 | e940 | e235 | e720 | e900 | 32 | 50 | e92 | e64 |
| 20 | 176 | e161 | e140 | e125 | e850 | e230 | e700 | e1000 | 32 | 47 | e98 | e62 |
| 21 | 183 | e170 | e140 | e125 | e620 | e250 | e680 | e1050 | 31 | 37 | e100 | e62 |
| 22 | e170 | e160 | e140 | e122 | e300 | e290 | 840 | e1100 | 31 | 71 | e94 | e64 |
| 23 | e172 | e159 | e140 | e120 | e310 | e310 | 1010 | e960 | 31 | 160 | e84 | e70 |
| 24 | e170 | e170 | e140 | e120 | e324 | e340 | e1020 | e860 | 36 | 128 | e80 | e90 |
| 25 | e169 | e180 | e139 | e121 | e360 | e370 | e1000 | e700 | 72 | 175 | e76 | e120 |
| 26 | e163 | e186 | e136 | e128 | e370 | e400 | e960 | e580 | 69 | 189 | e76 | e115 |
| 27 | e162 | e180 | e132 | e132 | e380 | e450 | e850 | 479 | 119 | 155 | e76 | e110 |
| 28 | e161 | e170 | e130 | e152 | e350 | e500 | e860 | 453 | 181 | 98 | e76 | e115 |
| 29 | e152 | e173 | e130 | 179 | --- | e550 | e880 | 349 | 159 | 78 | e76 | e130 |
| 30 | e154 | e179 | e130 | 169 | --- | e600 | e940 | 269 | 78 | 67 | e76 | e140 |
| 31 | e159 | --- | e130 | 225 | --- | e800 | --- | 219 | --- | 52 | e76 | --- |
| TOTAL | 4764 | 4941 | 4417 | 4178 | 10427 | 11745 | 23450 | 25349 | 1760 | 2130 | 3713 | 2448 |
| MEAN | 154 | 165 | 142 | 135 | 372 | 379 | 782 | 818 | 58.7 | 68.7 | 120 | 81.6 |
| MAX | 226 | 186 | 170 | 225 | 940 | 800 | 1020 | 1200 | 181 | 189 | 225 | 140 |
| MIN | 48 | 150 | 130 | 120 | 150 | 230 | 660 | 219 | 28 | 21 | 72 | 60 |
| ACFT | 9450 | 9800 | 8760 | 8290 | 20680 | 23300 | 46510 | 50280 | 3490 | 4220 | 7360 | 4860 |
| CAL YR 1985 | TOTAL | 71140 | MEAN | 195 | MAX | 640 | MIN | 24 | ACFT | 141100 | | |
| WTR YR 1986 | TOTAL | 99322 | MEAN | 272 | MAX | 1200 | MIN | 21 | ACFT | 197000 | | |

e Estimated.

JORDAN RIVER BASIN

283

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 mi².

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 good except for estimated daily discharges, which are fair. Slight regulation from several small reservoirs at headwaters used for storing water for release during the summer and fall. No diversions above station.

AVERAGE DISCHARGE.--23 years, 42.1 ft³/s, 30,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 728 ft³/s June 5, 1986, gage height, 2.98 ft; minimum recorded, 1.9 ft³/s several days during winter of 1964-65.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| May 3 | 2100 | 242 | 1.92 | June 18 | 2100 | 501 | 2.65 |
| June 5 | 1930 | *728 | *2.98 | | | | |

Minimum discharge, 4.5 ft³/s Feb. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|------|------|-------|-------|------|------|-------|-------|------|------|-------|
| 1 | 7.9 | 14 | e13 | 10 | 9.9 | 17 | 89 | 96 | 513 | 156 | 60 | 19 |
| 2 | 7.7 | 14 | e15 | 11 | 9.8 | 19 | 78 | 125 | 539 | 140 | 59 | 19 |
| 3 | 7.6 | 13 | e14 | 10 | 9.8 | 21 | 65 | 173 | 511 | 131 | 61 | 18 |
| 4 | 7.3 | 12 | e13 | 10 | 10 | 22 | 59 | 202 | 521 | 126 | 60 | 16 |
| 5 | 7.3 | 14 | e14 | 10 | e10 | 24 | 55 | 140 | 530 | 116 | 58 | 14 |
| 6 | 7.8 | 12 | e15 | 9.9 | e11 | 25 | 58 | 127 | 486 | 100 | 57 | 13 |
| 7 | 22 | 11 | 14 | 9.8 | e9.8 | 26 | 60 | 110 | 410 | 92 | 56 | 12 |
| 8 | 14 | 12 | 13 | 10 | e9.0 | 25 | 55 | 100 | 365 | 84 | 55 | 11 |
| 9 | 13 | e11 | e12 | 10 | e8.6 | 27 | 51 | 91 | 279 | 79 | 53 | 11 |
| 10 | 13 | e10 | e10 | 10 | e10 | 24 | 51 | 85 | 251 | 73 | 51 | 13 |
| 11 | 13 | e12 | e10 | 9.7 | e11 | 22 | 52 | 84 | 296 | 69 | 49 | 11 |
| 12 | 15 | e13 | e11 | 9.6 | e12 | 21 | 53 | 85 | 308 | 66 | 48 | 10 |
| 13 | 14 | e12 | e13 | 9.5 | e12 | 20 | 53 | 89 | 365 | 63 | 46 | 9.6 |
| 14 | 13 | e12 | e15 | 9.6 | e11 | 19 | 52 | 92 | 373 | 60 | 44 | 9.0 |
| 15 | 12 | e13 | e14 | 9.4 | e10 | 18 | 48 | 91 | 367 | 62 | 43 | 8.5 |
| 16 | 13 | e14 | e15 | 9.4 | 9.0 | 17 | 51 | 89 | 364 | 68 | 41 | 8.4 |
| 17 | 14 | e13 | e15 | 9.4 | 10 | 17 | 46 | 86 | 373 | 58 | 40 | 8.3 |
| 18 | 14 | e13 | e16 | 9.6 | 9.8 | 16 | 43 | 98 | 386 | 55 | 36 | 8.4 |
| 19 | 14 | e14 | e15 | 9.4 | e11 | 17 | 42 | 134 | 369 | 51 | 34 | 8.9 |
| 20 | 14 | e15 | e15 | 9.3 | e12 | 16 | 47 | 187 | 354 | 50 | 38 | 8.4 |
| 21 | 14 | 13 | 14 | e12 | e11 | 16 | 65 | 261 | 324 | 49 | 40 | 8.2 |
| 22 | 20 | 12 | 14 | e10 | e11 | 18 | 91 | 254 | 296 | 59 | 33 | 8.0 |
| 23 | 17 | 13 | 12 | e9.8 | 11 | 21 | 108 | 187 | 270 | 57 | 30 | 8.2 |
| 24 | 17 | 14 | 12 | e9.6 | 12 | 27 | 106 | 203 | 246 | 62 | 28 | 13 |
| 25 | 19 | e15 | 12 | e10 | 17 | 31 | 92 | 274 | 219 | 72 | 27 | 15 |
| 26 | 19 | e13 | 11 | e11 | 18 | 34 | 81 | 354 | 208 | 62 | 26 | 14 |
| 27 | 19 | e12 | 11 | e12 | 19 | 44 | 76 | 394 | 214 | 54 | 25 | 13 |
| 28 | 19 | e13 | 11 | e11 | 17 | 58 | 74 | 404 | 216 | 50 | 24 | 14 |
| 29 | 17 | e14 | 12 | 11 | --- | 74 | 78 | 413 | 206 | 65 | 25 | 13 |
| 30 | 16 | e12 | 12 | 11 | --- | 86 | 84 | 531 | 177 | 64 | 23 | 14 |
| 31 | 16 | --- | 11 | 10 | --- | 102 | --- | 512 | --- | 62 | 21 | --- |
| TOTAL | 436.6 | 385 | 404 | 313.0 | 321.7 | 924 | 1963 | 6071 | 10336 | 2355 | 1291 | 356.9 |
| MEAN | 14.1 | 12.8 | 13.0 | 10.1 | 11.5 | 29.8 | 65.4 | 196 | 345 | 76.0 | 41.6 | 11.9 |
| MAX | 22 | 15 | 16 | 12 | 19 | 102 | 108 | 531 | 539 | 156 | 61 | 19 |
| MIN | 7.3 | 10 | 10 | 9.3 | 8.6 | 16 | 42 | 84 | 177 | 49 | 21 | 8.0 |
| ACFT | 866 | 764 | 801 | 621 | 638 | 1830 | 3890 | 12040 | 20500 | 4670 | 2560 | 708 |

| | | | | | | | | | | |
|-------------|-------|---------|------|------|-----|-----|-----|-----|------|-------|
| CAL YR 1985 | TOTAL | 15701.9 | MEAN | 43.0 | MAX | 252 | MIN | 6.4 | ACFT | 31140 |
| WTR YR 1986 | TOTAL | 25157.2 | MEAN | 68.9 | MAX | 539 | MIN | 7.3 | ACFT | 49900 |

e Estimated.

JORDAN RIVER BASIN

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 mi².

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.--No estimated daily discharges, 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.--23 years, 229 ft³/s, 165,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,040 ft³/s June 7, 1986, from rating curve extended above 2,000 ft³/s on the basis of slope-area measurement of peak flow, gage height, 7.40 ft; minimum, 22 ft³/s Nov. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,040 ft³/s June 7 from rating curve extended above 2,000 ft³/s, on the basis of slope-area measurement of peak flow, gage height, 7.40 ft; minimum, 51 ft³/s Jan. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|------|------|-------|-------|-------|-------|--------|-------|------|
| 1 | 63 | 94 | 101 | 83 | 83 | 139 | 507 | 513 | 2170 | 617 | 282 | 149 |
| 2 | 63 | 97 | 105 | 84 | 81 | 144 | 459 | 672 | 2190 | 569 | 275 | 146 |
| 3 | 64 | 94 | 106 | 83 | 84 | 151 | 375 | 916 | 2250 | 531 | 270 | 141 |
| 4 | 62 | 92 | 103 | 74 | 79 | 155 | 330 | 1060 | 2160 | 479 | 263 | 128 |
| 5 | 61 | 100 | 102 | 83 | 72 | 164 | 310 | 837 | 2280 | 459 | 257 | 121 |
| 6 | 63 | 88 | 99 | 87 | 78 | 171 | 328 | 708 | 2260 | 427 | 253 | 116 |
| 7 | 119 | 92 | 100 | 76 | 70 | 175 | 353 | 606 | 2280 | 412 | 255 | 113 |
| 8 | 92 | 98 | 98 | 81 | 67 | 178 | 331 | 554 | 1960 | 394 | 251 | 112 |
| 9 | 83 | 92 | 93 | 85 | 63 | 186 | 307 | 494 | 1610 | 378 | 250 | 109 |
| 10 | 82 | 79 | 80 | 83 | 66 | 167 | 300 | 463 | 1480 | 399 | 243 | 107 |
| 11 | 82 | 102 | 67 | 82 | 81 | 159 | 311 | 458 | 1570 | 451 | 236 | 104 |
| 12 | 86 | 102 | 66 | 80 | 87 | 153 | 276 | 453 | 1630 | 422 | 230 | 104 |
| 13 | 84 | 101 | 83 | 79 | 84 | 147 | 291 | 464 | 1700 | 402 | 223 | 104 |
| 14 | 74 | 109 | 93 | 79 | 83 | 144 | 268 | 473 | 1720 | 379 | 214 | 105 |
| 15 | 78 | 101 | 93 | 80 | 93 | 143 | 260 | 466 | 1670 | 391 | 210 | 104 |
| 16 | 93 | 100 | 95 | 80 | 88 | 140 | 283 | 455 | 1590 | 501 | 205 | 104 |
| 17 | 92 | 104 | 95 | 81 | 84 | 140 | 263 | 430 | 1530 | 412 | 204 | 103 |
| 18 | 92 | 98 | 96 | 82 | 104 | 137 | 244 | 475 | 1510 | 372 | 194 | 121 |
| 19 | 91 | 88 | 91 | 80 | 118 | 133 | 235 | 643 | 1440 | 351 | 195 | 124 |
| 20 | 90 | 92 | 90 | 81 | 115 | 134 | 255 | 925 | 1310 | 359 | 221 | 124 |
| 21 | 92 | 94 | 89 | 66 | 112 | 140 | 327 | 1240 | 1190 | 345 | 256 | 123 |
| 22 | 119 | 83 | 88 | 81 | 109 | 153 | 436 | 1330 | 1090 | 368 | 210 | 122 |
| 23 | 109 | 92 | 87 | 88 | 112 | 171 | 526 | 1040 | 1010 | 393 | 193 | 121 |
| 24 | 104 | 102 | 86 | 76 | 123 | 197 | 558 | 1080 | 953 | 382 | 184 | 120 |
| 25 | 106 | 108 | 85 | 70 | 132 | 216 | 484 | 1330 | 865 | 445 | 178 | 109 |
| 26 | 106 | 108 | 84 | 80 | 137 | 218 | 426 | 1640 | 808 | 391 | 174 | 104 |
| 27 | 102 | 102 | 82 | 83 | 139 | 246 | 391 | 1850 | 781 | 351 | 168 | 105 |
| 28 | 101 | 103 | 81 | 81 | 136 | 307 | 377 | 1890 | 748 | 320 | 170 | 107 |
| 29 | 99 | 104 | 81 | 82 | --- | 379 | 412 | 1960 | 713 | 315 | 174 | 103 |
| 30 | 97 | 106 | 86 | 82 | --- | 450 | 450 | 2080 | 671 | 301 | 167 | 103 |
| 31 | 102 | --- | 81 | 83 | --- | 592 | --- | 2100 | --- | 291 | 157 | --- |
| TOTAL | 2751 | 2925 | 2786 | 2495 | 2680 | 6129 | 10673 | 29605 | 45139 | 12607 | 6762 | 3456 |
| MEAN | 88.7 | 97.5 | 89.9 | 80.5 | 95.7 | 198 | 356 | 955 | 1505 | 407 | 218 | 115 |
| MAX | 119 | 109 | 106 | 88 | 139 | 592 | 558 | 2100 | 2280 | 617 | 282 | 149 |
| MIN | 61 | 79 | 66 | 66 | 63 | 133 | 235 | 430 | 671 | 291 | 157 | 103 |
| ACFT | 5460 | 5800 | 5530 | 4950 | 5320 | 12160 | 21170 | 58720 | 89530 | 25010 | 13410 | 6850 |
| CAL YR 1985 | TOTAL | 78526 | MEAN | 215 | MAX | 1190 | MIN | 56 | ACFT | 155800 | | |
| WTR YR 1986 | TOTAL | 128008 | MEAN | 351 | MAX | 2280 | MIN | 61 | ACFT | 253900 | | |

JORDAN RIVER BASIN

285

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 mi².

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,100 ft from river-profile map. Prior to Nov. 20, 1964 at datum 1.00 6 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are 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 is available from Provo River Water Commissioner's Report, (total capacity, 10,080 acre-ft).

AVERAGE DISCHARGE.--33 years (1954-86) 288 ft³/s, 208,700 acre-ft/yr, since completion of Duchesne Tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,100 ft³/s June 7, 1986, from rating curve extended above 2500 ft³/s; gage height, 9.91 ft from floodmarks; minimum, 11 ft³/s Aug. 20, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,100 ft³/s June 7, from rating curve extended above 2500 ft³/s, gage height, 9.91 ft from floodmarks; minimum discharge, 73 ft³/s Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|------|------|-------|-------|-------|-------|--------|-------|------|
| 1 | 76 | 152 | 132 | e130 | e150 | 263 | 735 | 638 | e2450 | e680 | 261 | 150 |
| 2 | 77 | 153 | 133 | e130 | e140 | 288 | 754 | 773 | e2500 | e640 | 253 | 153 |
| 3 | 81 | 146 | 134 | e138 | e132 | 299 | 588 | 986 | e2500 | e600 | 249 | 150 |
| 4 | 81 | 142 | 132 | e140 | e130 | 301 | 525 | 1280 | e2400 | e535 | 242 | 141 |
| 5 | 80 | 153 | 132 | e126 | e140 | 306 | 484 | 1060 | e2300 | e500 | 231 | 139 |
| 6 | 74 | 145 | 126 | e130 | e150 | 311 | 492 | 889 | e2400 | e560 | 228 | 134 |
| 7 | 151 | 143 | 125 | e140 | e140 | 316 | 538 | 762 | e2700 | e450 | 223 | 131 |
| 8 | 135 | 155 | 127 | e148 | e128 | 386 | 503 | 700 | e2500 | e420 | 224 | 132 |
| 9 | 118 | 147 | 125 | e136 | e120 | 406 | 471 | 633 | e2100 | e450 | 223 | 134 |
| 10 | 112 | 133 | e105 | e136 | e130 | 315 | 459 | 583 | e1700 | e470 | 217 | 142 |
| 11 | 103 | 165 | e100 | e136 | e150 | 289 | 491 | 567 | e1750 | e500 | 211 | 136 |
| 12 | 108 | 177 | e100 | e135 | e160 | 262 | 447 | 546 | e1800 | e480 | 206 | 138 |
| 13 | 109 | 174 | e111 | e135 | e150 | 240 | 484 | 542 | e1800 | e450 | 201 | 132 |
| 14 | 95 | 172 | e122 | e135 | e160 | 230 | 442 | 540 | e1850 | e430 | 192 | 128 |
| 15 | 93 | 162 | e131 | e135 | e170 | 217 | 428 | 521 | e1800 | e380 | 190 | 124 |
| 16 | 110 | 169 | e140 | e136 | e150 | 208 | 486 | 506 | e1700 | e460 | 182 | 121 |
| 17 | 128 | 173 | e139 | e136 | e170 | 201 | 478 | 462 | e1650 | 387 | 178 | 119 |
| 18 | 135 | 158 | e139 | e135 | e180 | 194 | 431 | 482 | e1600 | 350 | 169 | 116 |
| 19 | 136 | 137 | e137 | e138 | e195 | 180 | 403 | 587 | e1500 | 320 | 167 | 114 |
| 20 | 139 | 128 | e135 | e140 | e185 | 177 | 414 | 784 | e1450 | 321 | 204 | 112 |
| 21 | 142 | 134 | e132 | e125 | e180 | 186 | 508 | 1040 | e1300 | 313 | 249 | 105 |
| 22 | 189 | 158 | e130 | e132 | e200 | 204 | 656 | 1150 | e1200 | 336 | 200 | 105 |
| 23 | 173 | 175 | e130 | e140 | e225 | 235 | 771 | 823 | e1100 | 374 | 178 | 105 |
| 24 | 164 | 181 | e130 | e122 | e230 | 281 | 814 | 818 | e1000 | 363 | 173 | 126 |
| 25 | 163 | 168 | e130 | e122 | e300 | 319 | 737 | 999 | e940 | 432 | 167 | 163 |
| 26 | 161 | 150 | e130 | e130 | 298 | 315 | 646 | 1420 | e900 | 382 | 163 | 151 |
| 27 | 160 | 138 | e131 | e139 | 283 | 351 | 576 | 1580 | e840 | 340 | 157 | 156 |
| 28 | 160 | 134 | e135 | e135 | 259 | 426 | 537 | 2190 | e800 | 304 | 155 | 162 |
| 29 | 158 | 135 | e148 | e130 | --- | 528 | 561 | e2300 | e750 | 293 | 167 | 153 |
| 30 | 153 | 132 | e150 | e132 | --- | 615 | 594 | e2400 | e720 | 281 | 163 | 149 |
| 31 | 164 | --- | e140 | e130 | --- | 806 | --- | e2450 | --- | 270 | 152 | --- |
| TOTAL | 3928 | 4589 | 4011 | 4152 | 5005 | 9655 | 16453 | 31011 | 50000 | 13071 | 6175 | 4021 |
| MEAN | 127 | 153 | 129 | 134 | 179 | 311 | 548 | 1000 | 1667 | 422 | 199 | 134 |
| MAX | 189 | 181 | 150 | 148 | 300 | 806 | 814 | 2450 | 2700 | 680 | 261 | 163 |
| MIN | 74 | 128 | 100 | 122 | 120 | 177 | 403 | 462 | 720 | 270 | 152 | 105 |
| ACFT | 7790 | 9100 | 7960 | 8240 | 9930 | 19150 | 32630 | 61510 | 99180 | 25930 | 12250 | 7980 |
| CAL YR 1985 | TOTAL | 89942 | MEAN | 246 | MAX | 1310 | MIN | 61 | ACFT | 178400 | | |
| WTR YR 1986 | TOTAL | 152071 | MEAN | 417 | MAX | 2700 | MIN | 74 | ACFT | 301600 | | |

e Estimated.

JORDAN RIVER BASIN

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 mi².

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 except for estimated daily discharges, which are poor. 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.--33 years, 382 ft³/s, 276,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,260 ft³/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 daily discharge, 1,740 ft³/s Mar. 2; minimum daily, 90 ft³/s Oct. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1 | 209 | e126 | e113 | e132 | e260 | e1730 | 1330 | 1150 | 1010 | 666 | e669 | e524 |
| 2 | 209 | e126 | e113 | e132 | e250 | e1740 | 1400 | 1070 | 1040 | 618 | e669 | e514 |
| 3 | 211 | e126 | e113 | e132 | e246 | e1730 | 1440 | 1150 | 1270 | 686 | e669 | e514 |
| 4 | 209 | e126 | e113 | e132 | e241 | e1730 | 1410 | 886 | 1620 | 691 | e619 | e514 |
| 5 | 213 | e126 | e113 | e132 | e235 | e1620 | 1370 | 726 | 1620 | 721 | e579 | e523 |
| 6 | 183 | e126 | e113 | e132 | e244 | 1120 | 1320 | 973 | 1510 | 715 | e569 | e554 |
| 7 | 121 | e126 | e113 | e132 | e254 | 565 | 1280 | 1210 | 1520 | 707 | e584 | e570 |
| 8 | 120 | e126 | e113 | e132 | e256 | 615 | 1240 | 1210 | 1540 | 696 | e589 | e565 |
| 9 | 120 | e126 | e113 | e132 | e256 | 641 | 1200 | 1200 | 1380 | 608 | e589 | e534 |
| 10 | 120 | e126 | e113 | e132 | e256 | 621 | 1170 | 1180 | 1140 | 563 | e589 | e520 |
| 11 | 120 | e126 | e113 | e132 | e260 | 790 | 1150 | 1160 | 1140 | 560 | e589 | e519 |
| 12 | 120 | e126 | e113 | e132 | e261 | 1100 | 1140 | 1100 | 1150 | 558 | e582 | e616 |
| 13 | 120 | e126 | e113 | e132 | e261 | 1220 | 1140 | 1140 | 1160 | 556 | e559 | e649 |
| 14 | 120 | e126 | e113 | e132 | e265 | 1210 | 1140 | 1140 | 1170 | 576 | e559 | e634 |
| 15 | e90 | e126 | e113 | e132 | e266 | 1190 | 1140 | 1130 | 1180 | 616 | e573 | e634 |
| 16 | e229 | e126 | e113 | e132 | e266 | 1180 | 1150 | 1140 | 1170 | 649 | e574 | e634 |
| 17 | 120 | e126 | e123 | e132 | e252 | 1160 | 1150 | 1130 | 1150 | 686 | e574 | e634 |
| 18 | 120 | e126 | e132 | e132 | e558 | 1140 | 1140 | 1120 | 1120 | 700 | e574 | e651 |
| 19 | 120 | e126 | e132 | e132 | e1100 | 1130 | 1140 | 1120 | 1180 | 682 | e574 | e644 |
| 20 | 120 | e113 | e132 | e132 | e1230 | 1150 | 1140 | 1120 | 1310 | 652 | e596 | e618 |
| 21 | 120 | e113 | e132 | e188 | e1240 | 1130 | 1150 | 1120 | 1330 | 665 | e548 | e609 |
| 22 | 120 | e113 | e132 | e248 | e1240 | 1120 | 1140 | 1130 | 1330 | 639 | e544 | e609 |
| 23 | 120 | e113 | e132 | e255 | e1240 | 1110 | 1150 | 1180 | 1150 | 642 | e549 | e609 |
| 24 | 120 | e113 | e132 | e260 | e1240 | 1110 | 1160 | 1230 | 1060 | e615 | e523 | e609 |
| 25 | 120 | e113 | e132 | e261 | e1720 | 1100 | 1150 | 1250 | 1020 | e574 | e515 | e598 |
| 26 | 120 | e113 | e132 | e254 | e1720 | 1090 | 1140 | 1360 | 896 | e595 | e521 | e564 |
| 27 | 120 | e113 | e132 | e250 | e1720 | 1070 | 1140 | 1490 | 797 | e604 | e529 | e564 |
| 28 | 120 | e113 | e132 | e250 | e1720 | 1060 | 1140 | 1480 | 675 | e604 | e544 | e564 |
| 29 | 120 | e113 | e132 | e251 | --- | 1060 | 1150 | 1430 | 673 | e653 | e560 | e564 |
| 30 | 120 | e113 | e132 | e250 | --- | 1060 | 1150 | 1400 | 675 | e669 | e556 | e564 |
| 31 | e126 | --- | e132 | e255 | --- | 1230 | --- | 1170 | --- | e669 | e554 | --- |
| TOTAL | 4320 | 3637 | 3779 | 5362 | 19057 | 35522 | 36060 | 36295 | 34986 | 19835 | 17822 | 17419 |
| MEAN | 139 | 121 | 122 | 173 | 681 | 1146 | 1202 | 1171 | 1166 | 640 | 575 | 581 |
| MAX | 229 | 126 | 132 | 261 | 1720 | 1740 | 1440 | 1490 | 1620 | 721 | 669 | 651 |
| MIN | 90 | 113 | 113 | 132 | 235 | 565 | 1140 | 726 | 673 | 556 | 515 | 514 |
| ACFT | 8570 | 7210 | 7500 | 10640 | 37800 | 70460 | 71530 | 71990 | 69390 | 39340 | 35350 | 34550 |
| CAL YR 1985 | TOTAL | 129286 | MEAN | 354 | MAX | 1290 | MIN | 76 | ACFT | 256400 | | |
| WTR YR 1986 | TOTAL | 234094 | MEAN | 641 | MAX | 1740 | MIN | 90 | ACFT | 464300 | | |

e Estimated.

JORDAN RIVER BASIN

287

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 mi².

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, non-recording 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.--No estimated daily discharges, 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.--51 years, 214 ft³/s, 155,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,520 ft³/s May 6, 1952, gage height, 6.37 ft; no flow for several periods.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,760 ft³/s Feb. 19, gage height, 7.08 ft; minimum, 17 ft³/s July 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|----------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|
| 1 | 118 | 203 | 206 | 203 | 354 | 1500 | 1500 | 1160 | 760 | 126 | 178 | 128 |
| 2 | 103 | 192 | 220 | 207 | 337 | 1480 | 1670 | 1090 | 758 | 109 | 173 | 131 |
| 3 | 101 | 184 | 238 | 202 | 348 | 1470 | 1650 | 1170 | 843 | 136 | 182 | 129 |
| 4 | 95 | 183 | 233 | 198 | 333 | 1460 | 1600 | 1080 | 1320 | 165 | 181 | 132 |
| 5 | 105 | 190 | 219 | 197 | 310 | 1390 | 1550 | 806 | 1450 | 215 | 110 | 124 |
| 6 | 109 | 185 | 210 | 221 | 312 | 1090 | 1500 | 850 | 1290 | 231 | 82 | 113 |
| 7 | 194 | 179 | 206 | 211 | 318 | 865 | 1430 | 1240 | 1280 | 234 | 76 | 112 |
| 8 | 178 | 174 | 227 | 200 | 315 | 879 | 1390 | 1310 | 1310 | 212 | 56 | 111 |
| 9 | 179 | 171 | 230 | 194 | 309 | 1000 | 1370 | 1310 | 1270 | 155 | 61 | 102 |
| 10 | 181 | 168 | 224 | 198 | 306 | 889 | 1320 | 1240 | 937 | 78 | 74 | 121 |
| 11 | 174 | 186 | 214 | 198 | 311 | 1010 | 1290 | 1190 | 864 | 60 | 68 | 151 |
| 12 | 171 | 223 | 206 | 198 | 315 | 1330 | 1280 | 1130 | 797 | 39 | 67 | 214 |
| 13 | 167 | 204 | 203 | 198 | 417 | 1540 | 1280 | 1160 | 796 | 25 | 65 | 310 |
| 14 | 161 | 191 | 202 | 194 | 375 | 1530 | 1260 | 1120 | 795 | 33 | 67 | 310 |
| 15 | 147 | 183 | 201 | 188 | 422 | 1490 | 1260 | 1110 | 790 | 95 | 73 | 309 |
| 16 | 258 | 180 | 201 | 200 | 444 | 1450 | 1290 | 1100 | 784 | 206 | 76 | 303 |
| 17 | 207 | 185 | 201 | 210 | 563 | 1420 | 1330 | 1090 | 735 | 245 | 79 | 303 |
| 18 | 210 | 183 | 201 | 225 | 827 | 1370 | 1280 | 1070 | 649 | 252 | 80 | 321 |
| 19 | 208 | 181 | 201 | 229 | 1550 | 1320 | 1270 | 1040 | 671 | 249 | 93 | 342 |
| 20 | 202 | 180 | 200 | 258 | 1690 | 1310 | 1260 | 923 | 779 | 204 | 104 | 338 |
| 21 | 203 | 179 | 200 | 314 | 1640 | 1290 | 1270 | 874 | 769 | 209 | 131 | 321 |
| 22 | 238 | 177 | 201 | 318 | 1620 | 1250 | 1280 | 924 | 758 | 218 | 138 | 321 |
| 23 | 223 | 177 | 201 | 318 | 1620 | 1220 | 1280 | 933 | 632 | 203 | 147 | 358 |
| 24 | 216 | 212 | 201 | 319 | 1610 | 1200 | 1290 | 980 | 527 | 201 | 158 | 394 |
| 25 | 209 | 241 | 201 | 315 | 1600 | 1180 | 1290 | 982 | 506 | 201 | 162 | 457 |
| 26 | 203 | 229 | 202 | 309 | 1580 | 1170 | 1260 | 1050 | 394 | 196 | 146 | 479 |
| 27 | 196 | 205 | 203 | 310 | 1560 | 1150 | 1250 | 1220 | 325 | 191 | 133 | 470 |
| 28 | 197 | 194 | 202 | 313 | 1530 | 1130 | 1250 | 1290 | 184 | 203 | 135 | 485 |
| 29 | 203 | 236 | 202 | 314 | --- | 1130 | 1220 | 1220 | 138 | 202 | 130 | 466 |
| 30 | 206 | 224 | 208 | 323 | --- | 1160 | 1170 | 1210 | 144 | 190 | 131 | 474 |
| 31 | 205 | --- | 205 | 370 | --- | 1300 | --- | 1030 | --- | 179 | 140 | --- |
| TOTAL | 5567 | 5799 | 6469 | 7652 | 22916 | 38973 | 40340 | 33902 | 23255 | 5262 | 3496 | 8329 |
| MEAN | 180 | 193 | 209 | 247 | 818 | 1257 | 1345 | 1094 | 775 | 170 | 113 | 278 |
| MAX | 258 | 241 | 238 | 370 | 1690 | 1540 | 1670 | 1310 | 1450 | 252 | 182 | 485 |
| MIN | 95 | 168 | 200 | 188 | 306 | 865 | 1170 | 806 | 138 | 25 | 56 | 102 |
| ACFT | 11040 | 11500 | 12830 | 15180 | 45450 | 77300 | 80010 | 67240 | 46130 | 10440 | 6930 | 16520 |
| CAL YR 1985 | TOTAL | 104727.2 | MEAN | 287 | MAX | 1400 | MIN | 7.0 | ACFT | 207700 | | |
| WTR YR 1986 | TOTAL | 201960 | MEAN | 553 | MAX | 1690 | MIN | 25 | ACFT | 400600 | | |

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 mi².

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.--No estimated daily discharges. 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.--59 years, 57.6 ft³/s, 41,730 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 ft³/s Dec. 20, 1976 (result of freezeup).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 595 ft³/s June 8, gage height, 7.86 ft; minimum daily, 19 ft³/s Feb. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|-------|-------|-------|------|------|
| 1 | 28 | 30 | 27 | 21 | 25 | 54 | 151 | 179 | 528 | 303 | 87 | 49 |
| 2 | 28 | 29 | 27 | 22 | 24 | 60 | 151 | 210 | 360 | 287 | 84 | 51 |
| 3 | 27 | 29 | 27 | 21 | 23 | 65 | 124 | 244 | 537 | 283 | 82 | 50 |
| 4 | 27 | 28 | 27 | 20 | 23 | 71 | 112 | 264 | 543 | 290 | 81 | 48 |
| 5 | 26 | 28 | 27 | 21 | 21 | 75 | 103 | 229 | 547 | 258 | 77 | 47 |
| 6 | 27 | 28 | 26 | 21 | 22 | 79 | 102 | 209 | 513 | 225 | 75 | 45 |
| 7 | 53 | 27 | 26 | 20 | 20 | 82 | 104 | 186 | 478 | 215 | 75 | 45 |
| 8 | 42 | 26 | 27 | 20 | 20 | 102 | 101 | 173 | 416 | 208 | 74 | 43 |
| 9 | 41 | 26 | 26 | 21 | 19 | 110 | 100 | 163 | 394 | 211 | 72 | 44 |
| 10 | 37 | 25 | 25 | 21 | 20 | 93 | 98 | 154 | 365 | 205 | 70 | 46 |
| 11 | 36 | 27 | 22 | 21 | 21 | 85 | 100 | 155 | 386 | 197 | 69 | 43 |
| 12 | 36 | 28 | 41 | 21 | 22 | 76 | 104 | 161 | 401 | 194 | 68 | 43 |
| 13 | 35 | 27 | 22 | 22 | 22 | 68 | 104 | 166 | 417 | 190 | 66 | 64 |
| 14 | 33 | 25 | 23 | 21 | 21 | 61 | 99 | 174 | 436 | 183 | 64 | 66 |
| 15 | 35 | 24 | 24 | 22 | 26 | 56 | 101 | 180 | 416 | 188 | 63 | 60 |
| 16 | 32 | 24 | 24 | 21 | 24 | 54 | 110 | 184 | 413 | 195 | 70 | 53 |
| 17 | 31 | 26 | 25 | 22 | 26 | 50 | 104 | 188 | 405 | 178 | 58 | 37 |
| 18 | 30 | 25 | 25 | 22 | 29 | 47 | 99 | 203 | 395 | 163 | 57 | 22 |
| 19 | 30 | 23 | 24 | 22 | 47 | 44 | 96 | 236 | 410 | 155 | 56 | 20 |
| 20 | 29 | 23 | 24 | 23 | 41 | 43 | 99 | 285 | 384 | 146 | 60 | 22 |
| 21 | 29 | 25 | 24 | 22 | 30 | 43 | 121 | 341 | 358 | 134 | 72 | 38 |
| 22 | 36 | 25 | 24 | 22 | 28 | 46 | 154 | 353 | 357 | 128 | 61 | 20 |
| 23 | 36 | 25 | 24 | 22 | 28 | 52 | 187 | 326 | 352 | 126 | 59 | 28 |
| 24 | 35 | 28 | 24 | 22 | 29 | 62 | 176 | 320 | 353 | 125 | 58 | 37 |
| 25 | 34 | 25 | 23 | 20 | 36 | 64 | 165 | 349 | 349 | 128 | 56 | 50 |
| 26 | 34 | 24 | 23 | 20 | 43 | 64 | 146 | 397 | 337 | 125 | 54 | 41 |
| 27 | 33 | 26 | 23 | 21 | 46 | 68 | 134 | 448 | 335 | 116 | 52 | 36 |
| 28 | 32 | 29 | 23 | 22 | 50 | 80 | 136 | 500 | 335 | 106 | 54 | 35 |
| 29 | 32 | 28 | 22 | 22 | --- | 98 | 150 | 492 | 330 | 91 | 57 | 33 |
| 30 | 31 | 27 | 23 | 23 | --- | 118 | 160 | 511 | 325 | 87 | 53 | 34 |
| 31 | 31 | --- | 22 | 27 | --- | 142 | --- | 535 | --- | 85 | 51 | --- |
| TOTAL | 1026 | 790 | 774 | 668 | 786 | 2212 | 3691 | 8515 | 12175 | 5525 | 2035 | 1250 |
| MEAN | 33.1 | 26.3 | 25.0 | 21.5 | 28.1 | 71.4 | 123 | 275 | 406 | 178 | 65.6 | 41.7 |
| MAX | 53 | 30 | 41 | 27 | 50 | 142 | 187 | 535 | 547 | 303 | 87 | 66 |
| MIN | 26 | 23 | 22 | 20 | 19 | 43 | 96 | 154 | 325 | 85 | 51 | 20 |
| ACFT | 2040 | 1570 | 1540 | 1320 | 1560 | 4390 | 7320 | 16890 | 24150 | 10960 | 4040 | 2480 |
| CAL YR 1985 | TOTAL | 23957 | MEAN | 65.6 | MAX | 291 | MIN | 18 | ACFT | 47520 | | |
| WTR YR 1986 | TOTAL | 39447 | MEAN | 108 | MAX | 547 | MIN | 19 | ACFT | 78240 | | |

JORDAN RIVER BASIN

289

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 mi², including 255 mi² 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.--No estimated daily discharges. 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, 16,864 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 provided by the Jordan River Distribution System.

AVERAGE DISCHARGE.--73 years (1913-86), 424 ft³/s, 307,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,030 ft³/s June 20, 1984; no flow at times most years when gates are closed.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|
| 1 | 660 | 773 | 850 | 1080 | 1140 | 995 | 2000 | 2270 | 2240 | 2050 | 1600 | 1180 |
| 2 | 653 | 788 | 942 | 1080 | 1160 | 109 | 1960 | 2280 | 2240 | 2030 | 1670 | 1190 |
| 3 | 653 | 786 | 936 | 1080 | 1130 | 79 | 2060 | 2290 | 2200 | 2030 | 1650 | 1170 |
| 4 | 645 | 794 | 923 | 1080 | 1110 | 74 | 2080 | 2280 | 2210 | 2000 | 1630 | 1170 |
| 5 | 658 | 747 | 936 | 1090 | 1150 | 61 | 2080 | 2240 | 2180 | 1860 | 1620 | 1170 |
| 6 | 658 | 793 | 968 | 1080 | 1130 | 94 | 2110 | 2200 | 2190 | 1920 | 1660 | 1160 |
| 7 | 676 | 793 | 962 | 1080 | 1140 | 82 | 2320 | 2160 | 2190 | 1940 | 1650 | 1160 |
| 8 | 671 | 763 | 968 | 1090 | 1140 | 79 | 2260 | 2240 | 2130 | 1930 | 1630 | 1160 |
| 9 | 678 | 769 | 955 | 1080 | 1140 | 94 | 2240 | 2320 | 2090 | 1900 | 1620 | 1100 |
| 10 | 680 | 800 | 955 | 1080 | 1160 | 88 | 2250 | 2340 | 2100 | 1880 | 1600 | 1110 |
| 11 | 690 | 804 | 955 | 1080 | 1160 | 77 | 2260 | 2270 | 2120 | 1880 | 1570 | 1110 |
| 12 | 677 | 799 | 975 | 1090 | 1160 | 74 | 2260 | 2270 | 2120 | 1840 | 1550 | 1150 |
| 13 | 665 | 797 | 975 | 1080 | 1190 | 65 | 1960 | 2350 | 2130 | 1850 | 1550 | 1080 |
| 14 | 693 | 764 | 975 | 1080 | 1190 | 63 | 2230 | 2300 | 2130 | 1110 | 1520 | 1080 |
| 15 | 687 | 782 | 968 | 1090 | 1200 | 71 | 2260 | 2350 | 2140 | 1820 | 1500 | 1090 |
| 16 | 680 | 781 | 968 | 1080 | 1190 | 75 | 2270 | 2330 | 2140 | 1860 | 1480 | 1070 |
| 17 | 708 | 786 | 975 | 995 | 1180 | 79 | 2100 | 2460 | 2120 | 1780 | 1480 | 1060 |
| 18 | 711 | 758 | 981 | 215 | 1220 | 68 | 2120 | 2550 | 2110 | 1820 | 1460 | 986 |
| 19 | 720 | 769 | 975 | 92 | 1220 | 71 | 2180 | 2590 | 1810 | 1780 | 1440 | 1020 |
| 20 | 723 | 758 | 981 | 175 | 1220 | 80 | 2160 | 2580 | 1960 | 1730 | 1440 | 980 |
| 21 | 746 | 764 | 981 | 1130 | 1230 | 85 | 2200 | 2560 | 2020 | 1710 | 1460 | 979 |
| 22 | 725 | 753 | 975 | 1140 | 1230 | 276 | 2180 | 2530 | 2030 | 1780 | 1410 | 1020 |
| 23 | 754 | 769 | 975 | 1120 | 1250 | 981 | 2160 | 2460 | 2030 | 1780 | 1410 | 1040 |
| 24 | 745 | 798 | 981 | 1120 | 1250 | 1210 | 2180 | 2480 | 2040 | 1780 | 1390 | 1080 |
| 25 | 744 | 764 | 981 | 1120 | 1260 | 1760 | 2230 | 2510 | 2050 | 1770 | 1400 | 1070 |
| 26 | 740 | 792 | 975 | 1130 | 1260 | 1850 | 2180 | 2510 | 2040 | 1710 | 1310 | 1080 |
| 27 | 758 | 809 | 968 | 1130 | 1250 | 1850 | 2320 | 2550 | 2040 | 1720 | 1370 | 1060 |
| 28 | 763 | 815 | 975 | 1130 | 1320 | 1830 | 2270 | 2630 | 2030 | 1720 | 1380 | 1040 |
| 29 | 759 | 821 | 988 | 1130 | --- | 1840 | 2270 | 2660 | 2000 | 1700 | 1380 | 1110 |
| 30 | 772 | 798 | 995 | 1130 | --- | 1850 | 2290 | 2220 | 2050 | 1700 | 1380 | 1120 |
| 31 | 722 | --- | 1070 | 1140 | --- | 1940 | --- | 2220 | --- | 1610 | 1350 | --- |
| TOTAL | 21814 | 23487 | 29987 | 31217 | 33380 | 17950 | 65440 | 74000 | 62880 | 55990 | 46560 | 32795 |
| MEAN | 704 | 783 | 967 | 1007 | 1192 | 579 | 2181 | 2387 | 2096 | 1806 | 1502 | 1093 |
| MAX | 772 | 821 | 1070 | 1140 | 1320 | 1940 | 2320 | 2660 | 2240 | 2050 | 1670 | 1190 |
| MIN | 645 | 747 | 850 | 92 | 1110 | 61 | 1960 | 2160 | 1810 | 1110 | 1310 | 979 |
| ACFT | 43270 | 46590 | 59480 | 61920 | 66210 | 35600 | 129800 | 146800 | 124700 | 111100 | 92350 | 65050 |
| CAL YR 1985 | TOTAL | 408213 | MEAN | 1118 | MAX | 1580 | MIN | 628 | ACFT | 809700 | | |
| WTR YR 1986 | TOTAL | 495500 | MEAN | 1358 | MAX | 2660 | MIN | 61 | ACFT | 982800 | | |

JORDAN RIVER BASIN

10168300 TAILRACE AT STAIRS PLANT NEAR SALT LAKE CITY, UT

LOCATION.--Lat 40°37'26", long 111°45'05", in NW1/4SE1/4SW1/4 sec. 20, T.2 S., R.2 E., Salt Lake County, Hydrologic Unit 16120204 on left bank at Stairs plant, 14 mi southeast of Salt Lake City.

PERIOD OF RECORD.--January 1925 to current year. Prior to 1986, not published.

GAGE.--Water-stage recorder. Altitude of gage is 5,460 ft from topographic map.

REMARKS.--No estimated daily discharges. Records good.

COOPERATION.--Records collected by Utah Power & Light Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 78 ft³/s July 1, 1954; no flow many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 53 ft³/s May 13, gage height 1.29 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|---------------|-----|-----|-----------|-----|--------|-------|---------|------|------------|--------|------|
| 1 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 50 | 49 | 50 | 1.6 | 52 |
| 2 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 50 | 48 | 50 | 31 | 52 |
| 3 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 50 | 48 | 50 | 51 | 52 |
| 4 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 51 | 48 | 50 | 50 | 52 |
| 5 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 52 | 48 | 51 | 50 | 52 |
| 6 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 52 | 48 | 47 | 49 | 52 |
| 7 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 50 | 49 | 51 | 49 | 52 |
| 8 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 53 | 48 | 48 | 49 | 52 |
| 9 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 53 | 48 | 49 | 49 | 50 |
| 10 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 51 | 49 | 51 | 49 | 49 |
| 11 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 53 | 50 | 51 | 49 | 49 |
| 12 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 53 | 50 | 52 | 49 | 48 |
| 13 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 45 | 50 | 51 | 45 | 49 |
| 14 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 52 | 50 | 51 | 51 | 50 |
| 15 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 52 | 49 | 51 | 51 | 50 |
| 16 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 51 | 49 | 51 | 51 | 50 |
| 17 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 51 | 49 | 49 | 51 | 50 |
| 18 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 51 | 49 | 51 | 50 | 48 |
| 19 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 51 | 49 | 49 | 49 | 46 |
| 20 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 51 | 50 | 52 | 48 | 47 |
| 21 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 51 | 50 | 52 | 48 | 46 |
| 22 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 51 | 50 | 51 | 47 | 46 |
| 23 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 51 | 51 | 51 | 49 | 46 |
| 24 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 51 | 51 | 51 | 51 | 46 |
| 25 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 50 | 50 | 51 | 51 | 45 |
| 26 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 49 | 50 | 52 | 51 | 43 |
| 27 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 50 | 50 | 52 | 51 | 42 |
| 28 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 50 | 50 | 51 | 49 | 44 |
| 29 | .00 | .00 | .00 | .00 | --- | .00 | .00 | 49 | 50 | 29 | 52 | 46 |
| 30 | .00 | .00 | .00 | .00 | --- | .00 | 47 | 49 | 50 | 1.7 | 52 | 49 |
| 31 | .00 | --- | .00 | .00 | --- | .00 | --- | 49 | --- | 16 | 52 | --- |
| TOTAL | .00 | .00 | .00 | .00 | .00 | .00 | 47.00 | 1572 | 1480 | 1448.3 | 1475.6 | 1455 |
| MEAN | .00 | .00 | .00 | .00 | .00 | .00 | 1.57 | 50.7 | 49.3 | 46.7 | 47.6 | 48.5 |
| MAX | .00 | .00 | .00 | .00 | .00 | .00 | 47 | 53 | 51 | 52 | 52 | 52 |
| MIN | .00 | .00 | .00 | .00 | .00 | .00 | .00 | 45 | 48 | 1.6 | 1.6 | 42 |
| ACFT | .00 | .00 | .00 | .00 | .00 | .00 | 93 | 3120 | 2940 | 2870 | 2930 | 2890 |
| WTR YR 1986 | TOTAL 7477.90 | | | MEAN 20.5 | | MAX 53 | | MIN .00 | | ACFT 14830 | | |

JORDAN RIVER BASIN

291

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.--No estimated daily discharges. 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.--43 years, 378 ft³/s, 273,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,410 ft³/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, 3,880 ft³/s May 9, gage height, 7.13 ft; minimum daily, 206 ft³/s Mar. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|-------|--------|--------|--------|---------|-------|-------|
| 1 | 665 | 857 | 1100 | 1160 | 1320 | 1730 | 2570 | 2840 | 3390 | 2090 | 1400 | 1390 |
| 2 | 634 | 867 | 1140 | 1160 | 1370 | 808 | 3550 | 2920 | 3500 | 1970 | 1390 | 1430 |
| 3 | 646 | 860 | 1170 | 1160 | 1550 | 389 | 3020 | 3050 | 3490 | 1900 | 1360 | 1470 |
| 4 | 626 | 857 | 1150 | 1170 | 1520 | 243 | 2770 | 3250 | 3510 | 1910 | 1350 | 1390 |
| 5 | 615 | 870 | 1130 | 1180 | 1460 | 206 | 2720 | 3250 | 3430 | 1930 | 1320 | 1250 |
| 6 | 632 | 858 | 1100 | 1200 | 1460 | 225 | 2680 | 3130 | 3460 | 1810 | 1310 | 1260 |
| 7 | 1020 | 892 | 1110 | 1170 | 1460 | 212 | 2630 | 2970 | 3220 | 1770 | 1290 | 1330 |
| 8 | 863 | 878 | 1170 | 1170 | 1470 | 417 | 2590 | 3470 | 3060 | 1740 | 1280 | 1310 |
| 9 | 798 | 881 | 1170 | 1150 | 1460 | 844 | 2600 | 3720 | 3100 | 1730 | 1310 | 1340 |
| 10 | 783 | 881 | 1130 | 1130 | 1490 | 586 | 2560 | 3290 | 2930 | 1630 | 1350 | 1510 |
| 11 | 801 | 991 | 1110 | 1130 | 1500 | 689 | 2570 | 3140 | 2760 | 1630 | 1340 | 1390 |
| 12 | 805 | 1030 | 1110 | 1140 | 1520 | 530 | 2520 | 3040 | 2750 | 1580 | 1300 | 1320 |
| 13 | 762 | 992 | 1110 | 1140 | 1560 | 452 | 2520 | 2990 | 2780 | 1560 | 1290 | 1250 |
| 14 | 782 | 932 | 1130 | 1140 | 1580 | 508 | 2560 | 2930 | 2760 | 1180 | 1150 | 1240 |
| 15 | 830 | 966 | 1130 | 1150 | 1600 | 511 | 2580 | 2830 | 2830 | 1490 | 1050 | 1240 |
| 16 | 861 | 1010 | 1120 | 1180 | 1590 | 486 | 2690 | 2810 | 2810 | 1730 | 1050 | 1210 |
| 17 | 797 | 998 | 1100 | 1230 | 1620 | 518 | 2700 | 2750 | 2750 | 1730 | 1050 | 1220 |
| 18 | 804 | 1010 | 1110 | 691 | 1650 | 387 | 2640 | 2730 | 2710 | 1600 | 1030 | 1350 |
| 19 | 808 | 985 | 1110 | 329 | 1780 | 343 | 2710 | 2730 | 2760 | 1560 | 1010 | 1360 |
| 20 | 818 | 1010 | 1110 | 353 | 1720 | 412 | 2740 | 2770 | 2310 | 1500 | 1070 | 1240 |
| 21 | 813 | 999 | 1120 | 1000 | 1700 | 405 | 2710 | 2950 | 2340 | 1450 | 1420 | 1240 |
| 22 | 1110 | 995 | 1110 | 1260 | 1670 | 433 | 2720 | 3260 | 2370 | 1450 | 1380 | 1280 |
| 23 | 968 | 960 | 1110 | 1290 | 1680 | 1130 | 2860 | 3060 | 2330 | 1570 | 1360 | 1290 |
| 24 | 883 | 1030 | 1120 | 1280 | 1660 | 1840 | 2830 | 2850 | 2310 | 1720 | 1560 | 1350 |
| 25 | 875 | 1230 | 1120 | 1270 | 1660 | 2330 | 2900 | 2830 | 2330 | 1770 | 1540 | 1720 |
| 26 | 859 | 1130 | 1120 | 1270 | 1690 | 2250 | 3150 | 2980 | 2270 | 1730 | 1520 | 1600 |
| 27 | 855 | 1110 | 1100 | 1280 | 1730 | 2320 | 2980 | 3110 | 2240 | 1710 | 1430 | 1540 |
| 28 | 861 | 1120 | 1110 | 1240 | 1790 | 2350 | 2890 | 3060 | 2260 | 1620 | 1350 | 1550 |
| 29 | 850 | 1160 | 1130 | 1220 | --- | 2330 | 2760 | 3070 | 2270 | 1500 | 1360 | 1430 |
| 30 | 846 | 1100 | 1130 | 1200 | --- | 2340 | 2750 | 3210 | 2210 | 1430 | 1340 | 1430 |
| 31 | 825 | --- | 1150 | 1270 | --- | 2450 | --- | 3300 | --- | 1440 | 1380 | --- |
| TOTAL | 25095 | 29459 | 34830 | 34713 | 44260 | 30674 | 82470 | 94290 | 83240 | 51430 | 40340 | 40930 |
| MEAN | 810 | 982 | 1124 | 1120 | 1581 | 989 | 2749 | 3042 | 2775 | 1659 | 1301 | 1364 |
| MAX | 1110 | 1230 | 1170 | 1290 | 1790 | 2450 | 3550 | 3720 | 3510 | 2090 | 1560 | 1720 |
| MIN | 615 | 857 | 1100 | 329 | 1320 | 206 | 2520 | 2730 | 2210 | 1180 | 1010 | 1210 |
| ACFT | 49780 | 58430 | 69090 | 68850 | 87790 | 60840 | 163600 | 187000 | 165100 | 102000 | 80010 | 81180 |
| CAL YR 1985 | TOTAL | 431723 | MEAN | 1183 | MAX | 2440 | MIN | 417 | ACFT | 856300 | | |
| WTR YR 1986 | TOTAL | 591731 | MEAN | 1621 | MAX | 3720 | MIN | 206 | ACFT | 1174000 | | |

JORDAN RIVER BASIN

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 mi² includes 255 mi² 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, except for estimated daily discharges, which are fair. 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.--43 years (1943-86), 146 ft³/s, 105,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 449 ft³/s Aug. 20, 1986, gage height, 4.41 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 ft³/s June 1, 1984; minimum daily, 89 ft³/s June 23, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 449 ft³/s Aug. 20, gage height, 4.41 ft; minimum daily discharge, 7.0 ft³/s Mar. 22, 23. Maximum daily combined discharge during year (Jordan River and Surplus Canal), 3,820 ft³/s May 9; minimum daily, 406 ft³/s Mar. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|--------|------|--------|-------|-------|-------|-------|
| 1 | 243 | 217 | 235 | 219 | 301 | 193 | e12 | 22 | 130 | 220 | e223 | 178 |
| 2 | 239 | 219 | 236 | 217 | 299 | 126 | 106 | 16 | 137 | 215 | e221 | 184 |
| 3 | 248 | 218 | 233 | 215 | 286 | 161 | 47 | 16 | 154 | 210 | e218 | 184 |
| 4 | 251 | 220 | 230 | 214 | 276 | 205 | 40 | 20 | 159 | 211 | e215 | 178 |
| 5 | 247 | 224 | 233 | 213 | 314 | 202 | 31 | 11 | 135 | 213 | e215 | 171 |
| 6 | 248 | 215 | 232 | 208 | 313 | 201 | 27 | 39 | 198 | 206 | e210 | 170 |
| 7 | 276 | 216 | 232 | 201 | 309 | 201 | 26 | 24 | 238 | 202 | e220 | 173 |
| 8 | 239 | 217 | 239 | 201 | 308 | 203 | 30 | 85 | 230 | 201 | e212 | 170 |
| 9 | 258 | 216 | 241 | 240 | 307 | 64 | 38 | 95 | 180 | 200 | e210 | 172 |
| 10 | 253 | 213 | 234 | 276 | 309 | 23 | 24 | 77 | 127 | 192 | e210 | 173 |
| 11 | 252 | 230 | 232 | 274 | 311 | 43 | 21 | 61 | 119 | 193 | e210 | 152 |
| 12 | 249 | 238 | 231 | 274 | 313 | 22 | 25 | 51 | 111 | 191 | e215 | 192 |
| 13 | 242 | 230 | 230 | 271 | 313 | e13 | 31 | 55 | 87 | 190 | e213 | 243 |
| 14 | 242 | 222 | 232 | 266 | 310 | e13 | 16 | 54 | 85 | 173 | e204 | 239 |
| 15 | 242 | 223 | 233 | 264 | 311 | e12 | 16 | 52 | 85 | 186 | e195 | 237 |
| 16 | 244 | 228 | 232 | 266 | 312 | e12 | 23 | 29 | 79 | 199 | e218 | 236 |
| 17 | 234 | 225 | 229 | 271 | 314 | e12 | 16 | 11 | 79 | 198 | e222 | 164 |
| 18 | 234 | 225 | 228 | 212 | 301 | e96 | 24 | 10 | 159 | 201 | e222 | 54 |
| 19 | 234 | 219 | 228 | 142 | 224 | e63 | 36 | 10 | 250 | 217 | e220 | 103 |
| 20 | 222 | 221 | 227 | 149 | 99 | e10 | 30 | 11 | 231 | 211 | 252 | 218 |
| 21 | 242 | 218 | 226 | 248 | 131 | e8.0 | 30 | 11 | 242 | 236 | 223 | 218 |
| 22 | 258 | 217 | 224 | 307 | 209 | e7.0 | 30 | 12 | 244 | 256 | 193 | 197 |
| 23 | 212 | 211 | 224 | 308 | 203 | e7.0 | 15 | 9.9 | 241 | 250 | 187 | 165 |
| 24 | 205 | 218 | 225 | 307 | 236 | e8.0 | 16 | 10 | 236 | 251 | 209 | 228 |
| 25 | 206 | 245 | 225 | 304 | 266 | e8.0 | 39 | 11 | 238 | 258 | 191 | 280 |
| 26 | 203 | 226 | 225 | 304 | 267 | e10 | 45 | 11 | 234 | 250 | 190 | 221 |
| 27 | 202 | 220 | 224 | 305 | 240 | e10 | 29 | 61 | 233 | 248 | 184 | 234 |
| 28 | 209 | 225 | 223 | 298 | 197 | e9.0 | 41 | 131 | 232 | e235 | 178 | 231 |
| 29 | 214 | 237 | 224 | 294 | --- | e9.0 | 45 | 132 | 231 | e225 | 178 | 217 |
| 30 | 219 | 238 | 225 | 293 | --- | e10 | 31 | 132 | 227 | e223 | 178 | 222 |
| 31 | 221 | --- | 225 | 297 | --- | e10 | --- | 126 | --- | e223 | 178 | --- |
| TOTAL | 7288 | 6691 | 7117 | 7858 | 7579 | 1971.0 | 940 | 1395.9 | 5331 | 6684 | 6414 | 5804 |
| MEAN | 235 | 223 | 230 | 253 | 271 | 63.6 | 31.3 | 45.0 | 178 | 216 | 207 | 193 |
| MAX | 276 | 245 | 241 | 308 | 314 | 205 | 106 | 132 | 250 | 258 | 252 | 280 |
| MIN | 202 | 211 | 223 | 142 | 99 | 7.0 | 12 | 9.9 | 79 | 173 | 178 | 54 |
| ACFT | 14460 | 13270 | 14120 | 15590 | 15030 | 3910 | 1860 | 2770 | 10570 | 13260 | 12720 | 11510 |

CAL YR 1985 TOTAL 82210 MEAN 225 MAX 320 MIN 78 ACFT 163100
WTR YR 1986 TOTAL 65072.9 MEAN 178 MAX 314 MIN 7.0 ACFT 129100

e Estimated.

JORDAN RIVER BASIN

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10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

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

SPECIFIC CONDUCTANCE: October 1974 to September 1978, October 1980 to September 1981, once daily.

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 microsiemens Mar. 29, 1977; minimum, 536 microsiemens 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 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | PH (STAND- ARD UNITS) | TEMPER- ATURE, AIR (DEG C) | TEMPER- ATURE (DEG C) | TUR- BID- ITY (NTU) | OXYGEN, DIS- SOLVED (MG/L) | BARO- METRIC PRES- SURE (MM HG) | COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) | STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) |
|----------|------|---|---|--------------------------------|-------------------------------------|-----------------------------|------------------------------|-------------------------------------|--|--|--|
| DEC 1985 | | | | | | | | | | | |
| 05... | 0900 | 232 | 1370 | 8.20 | 2.0 | 4.5 | -- | 10.5 | 660 | 65 | 340 |
| JAN 1986 | | | | | | | | | | | |
| 21... | 1200 | 240 | 1890 | 8.20 | 1.0 | 5.5 | 340 | 9.8 | 660 | 150 | <1 |
| MAR | | | | | | | | | | | |
| 17... | 1345 | 12 | 1470 | 7.80 | 5.5 | 8.5 | 10 | 8.7 | 647 | <1 | K7 |
| MAY | | | | | | | | | | | |
| 01... | 1045 | 22 | 1230 | 8.00 | 15.0 | 13.0 | 50 | 7.4 | 655 | K480 | 150 |
| JUL | | | | | | | | | | | |
| 14... | 1200 | 177 | 1100 | 8.20 | 30.5 | 21.5 | 40 | 7.7 | 655 | 2000 | 390 |
| AUG | | | | | | | | | | | |
| 27... | 1015 | 187 | 1170 | 8.10 | 24.5 | 20.5 | 72 | 7.1 | 660 | K400 | 430 |

| 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) | BICAR- BONATE IT-FLD (MG/L AS HCO3) | ALKA- LITY, CARBON- ATE IT-FLD (MG/L AS CACO3) | SULFATE DIS- SOLVED (MG/L AS SO4) |
|----------|--|---|--|--|--|-------------------|---|---|--|---|---|
| DEC 1985 | | | | | | | | | | | |
| 05... | -- | -- | -- | -- | -- | -- | -- | -- | 279 | 229 | -- |
| JAN 1986 | | | | | | | | | | | |
| 21... | 550 | 547 | 120 | 60 | 170 | 39 | 3 | 16 | 333 | 273 | 330 |
| MAR | | | | | | | | | | | |
| 17... | 540 | 536 | 120 | 57 | 120 | 32 | 2 | 8.0 | 310 | 254 | 300 |
| MAY | | | | | | | | | | | |
| 01... | 390 | 391 | 84 | 44 | 91 | 33 | 2 | 8.9 | 278 | 228 | 210 |
| JUL | | | | | | | | | | | |
| 14... | 310 | 307 | 60 | 38 | 100 | 41 | 3 | 10 | 222 | 182 | 160 |
| AUG | | | | | | | | | | | |
| 27... | 310 | 308 | 59 | 39 | 110 | 42 | 3 | 13 | 236 | 194 | 180 |

| 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) | NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) | NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) | NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) |
|----------|---|--|---|--|---|---|---|---|---|---|
| DEC 1985 | | | | | | | | | | |
| 05... | -- | -- | -- | -- | -- | -- | -- | 1.17 | 0.03 | 1.20 |
| JAN 1986 | | | | | | | | | | |
| 21... | 230 | 0.9 | 24 | 1180 | 1100 | 1.6 | 765 | 0.97 | 0.03 | 1.00 |
| MAR | | | | | | | | | | |
| 17... | 160 | 0.6 | 15 | 989 | 940 | 1.3 | 33 | 3.16 | 0.04 | 3.20 |
| MAY | | | | | | | | | | |
| 01... | 130 | 0.4 | 17 | 759 | 720 | 1.0 | 45 | 1.27 | 0.03 | 1.30 |
| JUL | | | | | | | | | | |
| 14... | 140 | 0.4 | 18 | 671 | 640 | 0.91 | 321 | 0.86 | 0.05 | 0.91 |
| AUG | | | | | | | | | | |
| 27... | 160 | 0.5 | 21 | 750 | 700 | 1.0 | 379 | 0.67 | 0.03 | 0.70 |

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

JORDAN RIVER BASIN

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | NITRO- GEN, AMMONIA TOTAL (MG/L AS N) | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) | NITRO- GEN, ORGANIC TOTAL (MG/L AS N) | NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) | PHOS- PHORUS, TOTAL (MG/L AS P) | PHOS- PHORUS TOTAL (MG/L AS P04) | 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 P04) |
|-------------------|--|---|---|--|---|---|--|--|--|---|
| DEC 1985 05... | 0.75 | 0.73 | 0.94 | 0.85 | 1.6 | 0.72 | 2.2 | 0.38 | 0.36 | 1.1 |
| JAN 1986 21... | 0.79 | <0.80 | -- | 1.9 | 2.7 | -- | -- | 0.35 | 0.32 | 0.98 |
| MAR 17... | 0.37 | 0.36 | 0.46 | 1.4 | 1.8 | 0.91 | -- | 0.76 | 0.63 | 1.9 |
| MAY 01... | 0.33 | 0.32 | 0.41 | 0.97 | 1.3 | 0.59 | -- | 0.40 | 0.35 | 1.1 |
| JUL 14... | 0.44 | 0.42 | 0.54 | 1.7 | 2.1 | 0.47 | -- | 0.30 | 0.27 | 0.83 |
| AUG 27... | 0.31 | 0.26 | 0.33 | 1.5 | 1.8 | 0.55 | -- | 0.35 | 0.30 | 0.92 |

| 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) |
|-------------------|------|---|--|--|--|--|---|--|--|--|--|
| MAR 1986 17... | 1345 | 10 | 5 | 44 | <0.5 | <1 | 2 | <3 | 8 | 10 | 1 |
| JUL 14... | 1200 | 10 | 10 | 68 | <0.5 | <1 | <1 | <3 | 3 | 8 | <5 |

| 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) |
|-------------------|--|--|--|---|--|---|--|--|--|--|
| MAR 1986 17... | 65 | 52 | <0.1 | <10 | 2 | 2 | <1 | 1600 | <6 | 39 |
| JUL 14... | 80 | 23 | <0.1 | <10 | 2 | 1 | <1 | 750 | <6 | 10 |

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) |
|-------------------|------|---|-----------------------------|--|---|---|
| DEC 1985 05... | 0900 | 232 | 4.5 | 73 | 454 | 284 |
| JAN 1986 21... | 1200 | 240 | 5.5 | 94 | 1040 | 674 |
| MAR 17... | 1345 | 12 | 8.5 | 72 | 19 | 0.62 |
| MAY 01... | 1045 | 22 | 13.0 | 71 | 165 | 9.8 |
| JUL 14... | 1200 | 177 | 21.5 | 81 | 131 | 63 |
| AUG 27... | 1015 | 187 | 20.5 | 84 | 120 | 61 |

JORDAN RIVER BASIN

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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 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|--------|-------|--------|--------|--------|---------|-------|-------|
| 1 | 908 | 1070 | 1340 | 1380 | 1620 | 1920 | 2580 | 2860 | 3520 | 2310 | 1620 | 1570 |
| 2 | 873 | 1090 | 1380 | 1380 | 1670 | 934 | 3660 | 2940 | 3640 | 2190 | 1610 | 1610 |
| 3 | 894 | 1080 | 1400 | 1380 | 1840 | 550 | 3070 | 3070 | 3640 | 2110 | 1580 | 1650 |
| 4 | 877 | 1080 | 1380 | 1380 | 1800 | 448 | 2810 | 3270 | 3670 | 2120 | 1570 | 1570 |
| 5 | 862 | 1090 | 1360 | 1390 | 1770 | 408 | 2750 | 3260 | 3570 | 2140 | 1540 | 1420 |
| 6 | 880 | 1070 | 1330 | 1410 | 1770 | 426 | 2710 | 3170 | 3660 | 2020 | 1520 | 1430 |
| 7 | 1300 | 1110 | 1340 | 1370 | 1770 | 413 | 2660 | 2990 | 3460 | 1970 | 1510 | 1500 |
| 8 | 1100 | 1100 | 1410 | 1370 | 1780 | 620 | 2620 | 3560 | 3290 | 1940 | 1490 | 1480 |
| 9 | 1060 | 1100 | 1410 | 1390 | 1770 | 908 | 2640 | 3820 | 3280 | 1930 | 1520 | 1510 |
| 10 | 1040 | 1090 | 1360 | 1410 | 1800 | 609 | 2580 | 3370 | 3060 | 1820 | 1560 | 1680 |
| 11 | 1050 | 1220 | 1340 | 1400 | 1810 | 732 | 2590 | 3200 | 2880 | 1820 | 1550 | 1540 |
| 12 | 1050 | 1270 | 1340 | 1410 | 1830 | 552 | 2550 | 3090 | 2860 | 1770 | 1520 | 1510 |
| 13 | 1000 | 1220 | 1340 | 1410 | 1870 | 465 | 2550 | 3050 | 2870 | 1750 | 1500 | 1490 |
| 14 | 1020 | 1150 | 1360 | 1410 | 1890 | 521 | 2580 | 2980 | 2850 | 1350 | 1350 | 1480 |
| 15 | 1070 | 1190 | 1360 | 1410 | 1910 | 523 | 2600 | 2880 | 2920 | 1680 | 1250 | 1480 |
| 16 | 1110 | 1240 | 1350 | 1450 | 1900 | 498 | 2710 | 2840 | 2890 | 1930 | 1270 | 1450 |
| 17 | 1030 | 1220 | 1330 | 1500 | 1930 | 530 | 2720 | 2760 | 2830 | 1930 | 1270 | 1380 |
| 18 | 1040 | 1240 | 1340 | 903 | 1950 | 483 | 2660 | 2740 | 2870 | 1800 | 1250 | 1400 |
| 19 | 1040 | 1200 | 1340 | 471 | 2000 | 406 | 2750 | 2740 | 3010 | 1780 | 1230 | 1460 |
| 20 | 1040 | 1230 | 1340 | 502 | 1820 | 422 | 2770 | 2780 | 2540 | 1710 | 1320 | 1460 |
| 21 | 1060 | 1220 | 1350 | 1250 | 1830 | 413 | 2740 | 2960 | 2580 | 1690 | 1640 | 1460 |
| 22 | 1370 | 1210 | 1330 | 1570 | 1880 | 440 | 2750 | 3270 | 2610 | 1710 | 1570 | 1480 |
| 23 | 1180 | 1170 | 1330 | 1600 | 1880 | 1140 | 2880 | 3070 | 2570 | 1820 | 1550 | 1460 |
| 24 | 1090 | 1250 | 1350 | 1590 | 1900 | 1850 | 2850 | 2860 | 2550 | 1970 | 1770 | 1580 |
| 25 | 1080 | 1480 | 1350 | 1570 | 1930 | 2340 | 2940 | 2840 | 2570 | 2030 | 1730 | 2000 |
| 26 | 1060 | 1360 | 1350 | 1570 | 1960 | 2260 | 3200 | 2990 | 2500 | 1980 | 1710 | 1820 |
| 27 | 1060 | 1330 | 1320 | 1590 | 1970 | 2330 | 3010 | 3170 | 2470 | 1960 | 1610 | 1770 |
| 28 | 1070 | 1350 | 1330 | 1540 | 1990 | 2360 | 2930 | 3190 | 2490 | 1860 | 1530 | 1780 |
| 29 | 1060 | 1400 | 1350 | 1510 | --- | 2340 | 2810 | 3200 | 2500 | 1730 | 1540 | 1650 |
| 30 | 1070 | 1340 | 1360 | 1490 | --- | 2350 | 2780 | 3340 | 2440 | 1650 | 1520 | 1650 |
| 31 | 1050 | --- | 1380 | 1570 | --- | 2460 | --- | 3430 | --- | 1660 | 1560 | --- |
| TOTAL | 32394 | 36170 | 41950 | 42576 | 51840 | 32651 | 83450 | 95690 | 88590 | 58130 | 46760 | 46720 |
| MEAN | 1045 | 1206 | 1353 | 1373 | 1851 | 1053 | 2782 | 3087 | 2953 | 1875 | 1508 | 1557 |
| MAX | 1370 | 1480 | 1410 | 1600 | 2000 | 2460 | 3660 | 3820 | 3670 | 2310 | 1770 | 2000 |
| MIN | 862 | 1070 | 1320 | 471 | 1620 | 406 | 2550 | 2740 | 2440 | 1350 | 1230 | 1380 |
| ACFT | 64250 | 71740 | 83210 | 84450 | 102800 | 64760 | 165500 | 189800 | 175700 | 115300 | 92750 | 92670 |
| CAL YR 1985 | TOTAL | 514123 | MEAN | 1409 | MAX | 2630 | MIN | 618 | ACFT | 1020000 | | |
| WTR YR 1986 | TOTAL | 656921 | MEAN | 1800 | MAX | 3820 | MIN | 406 | ACFT | 1303000 | | |

JORDAN RIVER BASIN

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 NE1/4SE1/4NW1/4 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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to current year. Figures of monthly discharge for January 1942 to September 1963, collected by Corps of Engineers, U.S. Army, available in files of Salt Lake City District Office, Geological Survey.

GAGE.--Water-stage recorder. Altitude of gage is 5,400 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. No regulation or diversion above station. Most of flow is collected in reservoir below station and used for water supply of Fort Douglas.

AVERAGE DISCHARGE.--23 years, 4.93 ft³/s, 3,570 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 105 ft³/s May 28, 1983, maximum gage height, 3.81 ft May 17, 1984; minimum, 0.23 ft³/s Dec. 22, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Feb. 19 | 1300 | 31 | 2.36 | May 12 | 2200 | *37 | *2.72 |
| Apr. 2 | 0100 | 29 | 2.27 | Aug. 20 | 2300 | 16 | 1.47 |

Minimum, 0.57 ft³/s, Dec. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|-------|-------|------|------|-------|-------|-------|-------|
| 1 | 2.6 | 2.8 | 2.8 | e2.2 | 4.0 | 10 | 22 | 29 | 19 | 6.9 | 4.3 | 3.3 |
| 2 | 2.6 | 2.8 | 2.8 | e2.4 | 3.9 | 10 | 24 | 29 | 18 | 6.7 | 4.2 | 3.4 |
| 3 | 2.6 | 2.7 | 2.9 | e2.4 | 3.9 | 11 | 23 | 30 | 17 | 6.5 | 4.2 | 3.3 |
| 4 | 2.5 | 2.7 | 2.8 | e2.0 | 3.8 | 11 | 22 | 31 | 17 | 6.4 | 4.1 | 3.2 |
| 5 | 2.5 | 3.0 | 2.8 | e2.1 | 3.6 | 11 | 21 | 30 | 16 | 6.6 | 4.1 | 3.2 |
| 6 | 2.6 | 2.9 | 2.8 | e2.4 | 3.5 | 11 | 20 | 30 | 15 | 6.4 | 4.2 | 3.2 |
| 7 | 3.9 | 2.8 | 2.8 | e2.1 | e3.1 | 11 | 20 | 29 | 14 | 6.2 | 4.3 | 3.2 |
| 8 | 3.2 | 2.8 | 1.5 | e2.0 | 3.3 | 12 | 20 | 29 | 14 | 6.2 | 4.3 | 3.3 |
| 9 | 3.1 | 2.8 | 2.5 | e2.1 | e2.8 | 14 | 21 | 30 | 14 | 6.0 | 4.1 | 3.8 |
| 10 | 3.0 | 2.8 | 2.7 | e2.2 | 3.2 | 13 | 20 | 31 | 14 | 5.9 | 4.0 | 3.8 |
| 11 | 3.0 | 2.9 | 2.6 | e2.2 | 3.2 | 13 | 20 | 34 | 13 | 5.9 | 3.8 | 3.5 |
| 12 | 2.9 | 3.0 | e1.9 | e2.2 | 3.2 | 12 | 19 | 36 | 13 | 5.8 | 3.7 | 3.3 |
| 13 | 2.9 | 2.8 | e2.3 | e2.2 | 3.2 | 11 | 20 | 36 | 12 | 5.7 | 3.7 | 3.2 |
| 14 | 2.8 | 2.8 | e2.5 | e2.0 | 3.2 | 11 | 20 | 36 | 11 | 5.6 | 3.7 | 3.2 |
| 15 | 2.8 | 2.8 | e2.2 | e2.2 | 4.0 | 11 | 21 | 35 | 11 | 5.9 | 3.6 | 3.2 |
| 16 | 2.8 | 2.8 | e2.3 | e2.4 | 4.7 | 10 | 23 | 33 | 10 | 5.8 | 3.5 | 3.1 |
| 17 | 2.8 | 2.9 | e2.3 | e2.7 | 8.2 | 10 | 23 | 32 | 9.8 | 5.5 | 3.4 | 3.1 |
| 18 | 2.8 | 2.6 | e2.5 | e2.8 | 14 | 9.7 | 23 | 31 | 9.5 | 5.3 | 3.3 | 3.3 |
| 19 | 2.8 | 2.0 | e2.5 | e2.9 | 21 | 9.5 | 22 | 30 | 9.1 | 5.2 | 3.4 | 3.3 |
| 20 | 2.8 | 2.6 | e2.5 | e2.9 | 15 | 9.5 | 21 | 30 | 8.9 | 5.0 | 4.8 | 3.2 |
| 21 | 2.8 | 2.6 | e2.4 | 3.0 | 11 | 9.7 | 21 | 29 | 8.5 | 5.0 | 4.8 | 3.2 |
| 22 | 3.1 | 2.5 | e2.4 | 3.0 | 8.7 | 10 | 22 | 29 | 8.2 | 5.2 | 3.9 | 3.2 |
| 23 | 3.0 | 2.5 | e2.4 | 2.9 | 8.8 | 11 | 24 | 27 | 7.9 | 5.6 | 3.7 | 3.2 |
| 24 | 3.0 | 2.5 | e2.3 | 2.9 | 9.6 | 12 | 24 | 26 | 7.7 | 5.4 | 3.8 | 3.5 |
| 25 | 3.0 | 2.5 | e2.2 | 3.1 | 10 | 13 | 24 | 25 | 7.5 | 5.5 | 3.6 | 4.3 |
| 26 | 2.9 | 2.4 | e2.2 | 3.3 | 11 | 14 | 23 | 24 | 7.5 | 5.2 | 3.5 | 3.9 |
| 27 | 2.9 | 2.0 | e2.2 | 3.0 | 11 | 14 | 23 | 24 | 7.6 | 5.0 | 3.4 | 4.1 |
| 28 | 2.8 | 1.5 | e2.2 | 2.9 | 11 | 16 | 24 | 23 | 7.3 | 4.7 | 3.4 | 3.9 |
| 29 | 2.8 | 2.7 | e2.2 | 2.9 | --- | 17 | 27 | 22 | 7.4 | 4.5 | 3.4 | 3.7 |
| 30 | 2.8 | 2.9 | e2.4 | 3.1 | --- | 18 | 29 | 21 | 7.1 | 4.5 | 3.3 | 3.8 |
| 31 | 2.8 | --- | e2.4 | 4.1 | --- | 21 | --- | 21 | --- | 4.4 | 3.3 | --- |
| TOTAL | 88.9 | 79.4 | 75.3 | 80.6 | 195.9 | 376.4 | 666 | 902 | 342.0 | 174.5 | 118.8 | 102.9 |
| MEAN | 2.87 | 2.65 | 2.43 | 2.60 | 7.00 | 12.1 | 22.2 | 29.1 | 11.4 | 5.63 | 3.83 | 3.43 |
| MAX | 3.9 | 3.0 | 2.9 | 4.1 | 21 | 21 | 29 | 36 | 19 | 6.9 | 4.8 | 4.3 |
| MIN | 2.5 | 1.5 | 1.5 | 2.0 | 2.8 | 9.5 | 19 | 21 | 7.1 | 4.4 | 3.3 | 3.1 |
| ACFT | 176 | 157 | 149 | 160 | 389 | 747 | 1320 | 1790 | 678 | 346 | 236 | 204 |

| | | | | | | | | | | |
|-------------|-------|--------|------|------|-----|----|-----|-----|------|------|
| CAL YR 1985 | TOTAL | 1781.6 | MEAN | 4.88 | MAX | 18 | MIN | 1.5 | ACFT | 3530 |
| WTR YR 1986 | TOTAL | 3202.7 | MEAN | 8.77 | MAX | 36 | MIN | 1.5 | ACFT | 6350 |

e Estimated.

JORDAN RIVER BASIN

297

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 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | PH (STAND- ARD UNITS) | TEMPER- ATURE, AIR (DEG C) | TEMPER- ATURE (DEG C) | TUR- BID- ITY (NTU) | OXYGEN, DIS- SOLVED (MG/L) | BARO- METRIC PRES- SURE (MM OF HG) | COLI- FORM, FECAL, 0.7 UM-MF (COL S./ 100 ML) | STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) | |
|----------|------|---|---|--|--|--|--|---|--|---|--|---|
| NOV 1985 | | | | | | | | | | | | |
| 29... | 1100 | 2.5 | 630 | 8.30 | 1.0 | 3.0 | 5.0 | 10.8 | 610 | K11 | 84 | |
| JAN 1986 | | | | | | | | | | | | |
| 20... | 1350 | 3.2 | 630 | 8.50 | 0.0 | 0.5 | 5.5 | 11.9 | 620 | 2 | <1 | |
| MAR | | | | | | | | | | | | |
| 18... | 1045 | 10 | 530 | 8.50 | 2.0 | 2.5 | 11 | 10.8 | 627 | <1 | K6 | |
| APR | | | | | | | | | | | | |
| 29... | 1140 | 27 | 480 | 8.40 | 7.5 | 13.0 | 110 | 10.0 | 625 | <2 | K24 | |
| JUL | | | | | | | | | | | | |
| 15... | 0915 | 6.4 | 580 | 8.50 | 18.5 | 11.0 | 1.2 | 8.9 | 626 | 43 | 230 | |
| AUG | | | | | | | | | | | | |
| 27... | 1415 | 3.3 | 580 | 8.40 | 27.5 | 16.0 | 1.7 | 8.7 | 630 | K9 | 270 | |
| DATE | | HARD- NESS (MG/L AS CAC03) | HARD- NESS NONCAR- BONATE (MG/L AS CAC03) | CALCIUM DIS- SOLVED (MG/L AS CA) | MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) | SODIUM, DIS- SOLVED (MG/L AS NA) | PERCENT SODIUM | SODIUM AD- SORP- TION RATIO | POTAS- SIUM, DIS- SOLVED (MG/L AS K) | BICAR- BONATE IT-FLD (MG/L AS HC03) | CAR- BONATE IT-FLD (MG/L AS C03) | ALKA- LITY, CARBON- ATE IT-FLD (MG/L - CAC03) |
| NOV 1985 | | | | | | | | | | | | |
| 29... | 330 | 334 | 91 | 26 | 13 | 8 | 0.3 | 1.1 | 298 | -- | 244 | |
| JAN 1986 | | | | | | | | | | | | |
| 20... | 320 | 321 | 87 | 25 | 13 | 8 | 0.3 | 0.9 | 245 | 12 | 225 | |
| MAR | | | | | | | | | | | | |
| 18... | 270 | 275 | 77 | 20 | 11 | 8 | 0.3 | 0.9 | 248 | 16 | 230 | |
| APR | | | | | | | | | | | | |
| 29... | 250 | 247 | 69 | 18 | 11 | 9 | 0.3 | 1.0 | 238 | 8.0 | 208 | |
| JUL | | | | | | | | | | | | |
| 15... | 300 | 298 | 78 | 25 | 14 | 9 | 0.4 | 1.0 | 268 | 14 | 243 | |
| AUG | | | | | | | | | | | | |
| 27... | 290 | 288 | 74 | 25 | 14 | 10 | 0.4 | 1.2 | 258 | 10 | 228 | |
| DATE | | SULFATE DIS- SOLVED (MG/L AS S04) | 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 CONSTITUENTS, DIS- SOLVED (MG/L) | SOLIDS, DIS- SOLVED (TONS PER AC-FT) | SOLIDS, DIS- SOLVED (TONS PER DAY) | NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) | NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) | NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) |
| NOV 1985 | | | | | | | | | | | | |
| 29... | 100 | 15 | 0.1 | 10 | 388 | 400 | 0.53 | 2.6 | -- | <0.01 | <0.10 | |
| JAN 1986 | | | | | | | | | | | | |
| 20... | 98 | 13 | 0.1 | 10 | 377 | 390 | 0.51 | 3.3 | -- | <0.01 | <0.10 | |
| MAR | | | | | | | | | | | | |
| 18... | 63 | 9.4 | 0.2 | 10 | 330 | 350 | 0.45 | 9.0 | -- | <0.01 | <0.10 | |
| APR | | | | | | | | | | | | |
| 29... | 46 | 9.0 | 0.1 | 11 | 288 | 300 | 0.39 | 21 | -- | <0.01 | <0.10 | |
| JUL | | | | | | | | | | | | |
| 15... | 74 | 12 | 0.1 | 11 | 345 | 380 | 0.47 | 6.0 | 0.86 | 0.05 | 0.91 | |
| AUG | | | | | | | | | | | | |
| 27... | 83 | 14 | 0.2 | 11 | 293 | 370 | 0.4 | 2.6 | -- | <0.01 | <0.10 | |

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

JORDAN RIVER BASIN

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | NITRO- GEN, AMMONIA TOTAL (MG/L AS N) | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) | NITRO- GEN, ORGANIC TOTAL (MG/L AS N) | NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) | PHOS- PHORUS, TOTAL (MG/L AS P) | PHOS- PHORUS TOTAL (MG/L AS P04) | 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 P04) |
|-------------------|--|---|---|--|---|---|--|--|--|---|
| NOV 1985 29... | 0.05 | 0.05 | 0.06 | 0.25 | 0.3 | 0.03 | 0.09 | 0.03 | 0.02 | 0.06 |
| JAN 1986 20... | 0.04 | 0.04 | 0.05 | 0.36 | 0.4 | 0.06 | -- | 0.02 | 0.02 | 0.06 |
| MAR 18... | 0.01 | <0.01 | -- | 0.29 | 0.3 | 0.09 | -- | 0.03 | 0.03 | 0.09 |
| APR 29... | 0.09 | 0.04 | 0.05 | 0.71 | 0.8 | 0.95 | -- | 0.03 | 0.03 | 0.09 |
| JUL 15... | 0.05 | 0.43 | 0.55 | 0.25 | 0.3 | 0.03 | -- | 0.02 | 0.27 | 0.83 |
| AUG 27... | 0.01 | <0.01 | -- | 0.39 | 0.4 | 0.02 | -- | 0.02 | 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) |
|-------------------|------|---|--|--|--|--|---|--|--|--|--|
| JAN 1986 20... | 1350 | 20 | <1 | 60 | <0.5 | <1 | <1 | <3 | <1 | 6 | <1 |
| APR 29... | 1140 | 50 | <1 | 51 | <0.5 | <1 | <1 | <3 | 1 | 25 | 1 |
| JUL 15... | 0915 | <10 | <1 | 62 | <0.5 | <1 | <1 | <3 | 1 | 8 | <5 |

| 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) |
|-------------------|--|--|--|---|--|---|--|--|--|--|
| JAN 1986 20... | 12 | 8 | <0.1 | <10 | <1 | 1 | <1 | 490 | <6 | 32 |
| APR 29... | 12 | 3 | <0.1 | <10 | 1 | 1 | <1 | 270 | <6 | 6 |
| JUL 15... | 12 | 6 | <0.1 | <10 | <1 | <1 | <1 | 370 | <6 | 7 |

| DATE | TIME | GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT) | GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT) | GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) | GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) | GROSS BETA, DIS- SOLVED (PCI/L AS YT-90) | GROSS BETA, SUSP. TOTAL (PCI/L AS YT-90) | RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) | |
|-------------------|------|--|--|---|---|--|--|---|------|
| APR 1986 29... | 1140 | | <2.9 | 7.7 | 1.7 | 5.2 | 1.4 | 4.4 | 0.05 |

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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) |
|---------------------|------|---|-----------------------------|--|--|--|
| JAN , 1986 20... | 1350 | 3.2 | 0.5 | 52 | 78 | 0.67 |
| MAR 18... | 1045 | 10 | 2.5 | 40 | 97 | 2.6 |
| APR 29... | 1140 | 27 | 7.5 | 62 | 973 | 71 |
| JUL 15... | 0915 | 6.4 | 11.0 | 2 | 12 | 0.21 |
| AUG 27... | 1415 | 3.3 | 16.0 | -- | 12 | 0.11 |

JORDAN RIVER BASIN

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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 mi², Includes 255 mi² closed basin in Cedar Valley.

PERIOD OF RECORD.--October 1975 to September 1986 (discontinued). 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 except estimated daily discharges, which are fair. 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.--11 years, 226 ft³/s, 163,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 932 ft³/s June 1, 1983, gage height, 5.24 ft; minimum recorded, 60 ft³/s Oct. 18, 1979 (discharge measurement).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 817 ft³/s Aug. 20, gage height, 5.15 ft; minimum daily, 122 ft³/s Mar. 22, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1 | 274 | 251 | 268 | 243 | 333 | 312 | 146 | 400 | 445 | 305 | 250 | 202 |
| 2 | 270 | 252 | 274 | 242 | 326 | 271 | 480 | 390 | 449 | 294 | 248 | 225 |
| 3 | 274 | 251 | 271 | 242 | 352 | 276 | 286 | 397 | 460 | 286 | 244 | 211 |
| 4 | 279 | 255 | 263 | 240 | 299 | 316 | 307 | 438 | 450 | 288 | 241 | 199 |
| 5 | 273 | 276 | 264 | 239 | 336 | 319 | 293 | 398 | 394 | 303 | 241 | 196 |
| 6 | 285 | 257 | 263 | 242 | 334 | 316 | 287 | 485 | 397 | 286 | 234 | 187 |
| 7 | 410 | 259 | 260 | 231 | 331 | 312 | 285 | 436 | 426 | 264 | 248 | 191 |
| 8 | 278 | 261 | 280 | 229 | 330 | 390 | 264 | 588 | 439 | 262 | 236 | 209 |
| 9 | 291 | 264 | 279 | 250 | 328 | 342 | 318 | 567 | 448 | 259 | 234 | 253 |
| 10 | 284 | 255 | 265 | 288 | 328 | 239 | 265 | 480 | 424 | 251 | 234 | 242 |
| 11 | 281 | 296 | 260 | 286 | 330 | 300 | 280 | 478 | 403 | 251 | 234 | 183 |
| 12 | 278 | 309 | 259 | 286 | 329 | 226 | 283 | 472 | 389 | 251 | 237 | 209 |
| 13 | 273 | 278 | 257 | 285 | 337 | 180 | 339 | 471 | 317 | 243 | 234 | 248 |
| 14 | 270 | 261 | 258 | 282 | 331 | 171 | 253 | 473 | 306 | 227 | 226 | 246 |
| 15 | 270 | 258 | 259 | 278 | 328 | 178 | 250 | 471 | 302 | 226 | 220 | 248 |
| 16 | 271 | 259 | 258 | 282 | 333 | 166 | 285 | 447 | 249 | 242 | 241 | 250 |
| 17 | 263 | 261 | 255 | 295 | 348 | 192 | 274 | 398 | 252 | 254 | 247 | 216 |
| 18 | 262 | 272 | 254 | 258 | 352 | 211 | 293 | 390 | 269 | 239 | 248 | 150 |
| 19 | 261 | 276 | 253 | 204 | 416 | 208 | 320 | 381 | 358 | 250 | 248 | 152 |
| 20 | 255 | 273 | 253 | 222 | 311 | 139 | 311 | 381 | 337 | 241 | 323 | 258 |
| 21 | 263 | 262 | 251 | 257 | 298 | 128 | 309 | 413 | 354 | 248 | 358 | e260 |
| 22 | 368 | 259 | 250 | 320 | 328 | 122 | 305 | 431 | 360 | 271 | 238 | e260 |
| 23 | 253 | 251 | 250 | 322 | 313 | 122 | 267 | 390 | 356 | 305 | 219 | e250 |
| 24 | 250 | 260 | 248 | 323 | 312 | 134 | 287 | 377 | 346 | 292 | 279 | e300 |
| 25 | 241 | 307 | 249 | 319 | 345 | 160 | 356 | 363 | 341 | 314 | 216 | e450 |
| 26 | 238 | 272 | 249 | 319 | 359 | 183 | 401 | 358 | 339 | 289 | 225 | e330 |
| 27 | 239 | 261 | 248 | 321 | 344 | 160 | 361 | 393 | 332 | 283 | 219 | e340 |
| 28 | 242 | 274 | 248 | 317 | 319 | 144 | 388 | 445 | 327 | 270 | 213 | e310 |
| 29 | 248 | 299 | 249 | 311 | --- | 156 | 411 | 459 | 323 | 256 | 205 | e290 |
| 30 | 250 | 281 | 249 | 313 | --- | 168 | 405 | 458 | 320 | 252 | 205 | e310 |
| 31 | 260 | --- | 249 | 328 | --- | 170 | --- | 452 | --- | 249 | 203 | --- |
| TOTAL | 8454 | 8050 | 7993 | 8574 | 9330 | 6711 | 9309 | 13480 | 10912 | 8251 | 7448 | 7375 |
| MEAN | 273 | 268 | 258 | 277 | 333 | 216 | 310 | 435 | 364 | 266 | 240 | 246 |
| MAX | 410 | 309 | 280 | 328 | 416 | 390 | 480 | 588 | 460 | 314 | 358 | 450 |
| MIN | 238 | 251 | 248 | 204 | 298 | 122 | 146 | 358 | 249 | 226 | 203 | 150 |
| ACFT | 16770 | 15970 | 15850 | 17010 | 18510 | 13310 | 18460 | 26740 | 21640 | 16370 | 14770 | 14630 |
| CAL YR 1985 | TOTAL | 106920 | MEAN | 293 | MAX | 510 | MIN | 138 | ACFT | 212100 | | |
| WTR YR 1986 | TOTAL | 105887 | MEAN | 290 | MAX | 588 | MIN | 122 | ACFT | 210000 | | |

e Estimated.

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 mi².

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.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--28 years, 3.92 ft³/s, 2,840 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 825 ft³/s Aug. 21, 1972, gage height, 5.70 ft, based on slope-area measurement; minimum, 0.41 ft³/s Nov. 20, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| Mar. 24 | 1900 | 24 | 1.46 | Apr. 2 | 0200 | *25 | *1.48 |

Minimum daily, 5.7 ft³/s Dec. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------------|-------|-----------|-------|--------|-------|---------|-------|-----------|-------|-------|-------|
| 1 | 7.0 | 6.7 | 6.2 | 6.0 | 6.7 | 7.4 | 13 | 12 | 9.8 | 7.8 | 7.3 | 7.3 |
| 2 | 7.0 | 6.7 | 6.2 | 6.0 | 6.5 | 7.1 | 17 | 12 | 9.8 | 7.6 | 7.4 | 7.4 |
| 3 | 7.0 | 6.7 | 6.4 | 6.1 | 6.4 | 7.0 | 14 | 12 | 9.7 | 7.5 | 7.4 | 7.4 |
| 4 | 7.0 | 6.7 | 6.5 | 5.9 | 6.4 | 7.0 | 16 | 13 | 9.9 | 7.6 | 7.5 | 7.4 |
| 5 | 7.0 | 6.4 | 5.8 | 6.1 | 6.2 | 7.0 | 15 | 12 | 9.6 | 7.6 | 7.5 | 7.2 |
| 6 | 7.2 | 6.4 | 5.8 | 6.1 | 6.2 | 7.0 | 14 | 12 | 9.3 | 7.5 | 7.6 | 7.2 |
| 7 | 7.4 | 6.4 | 5.8 | 6.0 | 6.2 | 7.0 | 14 | 13 | 9.0 | 7.3 | 7.7 | 7.2 |
| 8 | 7.0 | 6.4 | 5.9 | 6.0 | 6.2 | 7.0 | 13 | 13 | 9.0 | 7.2 | 8.0 | 7.1 |
| 9 | 7.1 | 6.4 | 5.8 | 6.1 | 6.1 | 7.0 | 13 | 13 | 9.1 | 7.2 | 7.9 | 7.4 |
| 10 | 7.0 | 6.4 | 5.8 | 6.1 | 6.0 | 7.0 | 12 | 12 | 9.0 | 7.2 | 8.0 | 7.4 |
| 11 | 7.0 | 6.6 | 5.7 | 6.1 | 6.1 | 7.0 | 12 | 12 | 8.6 | 7.2 | 7.9 | 7.3 |
| 12 | 7.0 | 6.6 | 5.8 | 6.1 | 6.1 | 7.0 | 12 | 12 | 8.6 | 7.2 | 7.8 | 7.1 |
| 13 | 7.0 | 6.4 | 5.8 | 6.1 | 5.9 | 7.0 | 12 | 12 | 8.4 | 7.1 | 7.8 | 6.9 |
| 14 | 7.0 | 6.4 | 5.8 | 6.1 | 6.6 | 7.1 | 12 | 12 | 8.2 | 7.0 | 7.5 | 6.9 |
| 15 | 6.9 | 6.4 | 5.8 | 6.1 | 7.2 | 7.4 | 12 | 12 | 8.2 | 7.3 | 7.2 | 6.9 |
| 16 | 6.7 | 6.3 | 5.8 | 6.1 | 7.0 | 7.4 | 12 | 12 | 8.3 | 7.2 | 7.1 | 6.9 |
| 17 | 6.7 | 6.2 | 5.8 | 6.1 | 8.0 | 7.4 | 12 | 12 | 8.3 | 7.1 | 7.1 | 6.9 |
| 18 | 6.7 | 6.1 | 5.8 | 6.1 | 8.1 | 7.4 | 12 | 11 | 8.2 | 7.0 | 7.2 | 6.9 |
| 19 | 6.7 | 6.1 | 5.8 | 6.2 | 9.1 | 7.4 | 13 | 11 | 8.3 | 7.2 | 7.2 | 6.6 |
| 20 | 6.7 | 6.1 | 5.9 | 6.3 | 8.2 | 7.4 | 13 | 11 | 8.2 | 7.2 | 7.3 | 6.7 |
| 21 | 6.7 | 6.1 | 5.9 | 6.1 | 7.6 | 7.4 | 12 | 11 | 8.2 | 7.3 | 7.5 | 6.7 |
| 22 | 6.7 | 6.1 | 5.8 | 6.1 | 7.4 | 7.4 | 12 | 11 | 8.2 | 7.4 | 7.6 | 6.7 |
| 23 | 6.7 | 6.1 | 5.8 | 6.1 | 7.3 | 7.6 | 12 | 11 | 8.2 | 7.4 | 7.4 | 6.8 |
| 24 | 6.7 | 6.3 | 5.8 | 6.1 | 7.3 | 13 | 12 | 11 | 8.2 | 7.5 | 7.3 | 7.0 |
| 25 | 6.7 | 6.4 | 5.8 | 6.1 | 7.4 | 15 | 13 | 10 | 8.0 | 7.3 | 7.3 | 7.4 |
| 26 | 6.7 | 6.3 | 5.8 | 6.1 | 7.4 | 13 | 13 | 10 | 7.9 | 7.3 | 7.3 | 7.1 |
| 27 | 6.7 | 6.4 | 5.8 | 6.2 | 7.4 | 13 | 12 | 9.9 | 7.9 | 7.2 | 7.3 | 6.7 |
| 28 | 6.7 | 6.3 | 5.8 | 6.3 | 7.4 | 12 | 12 | 9.9 | 7.9 | 7.2 | 7.3 | 6.7 |
| 29 | 6.7 | 6.5 | 5.9 | 6.2 | --- | 12 | 12 | 9.9 | 7.9 | 7.2 | 7.3 | 6.7 |
| 30 | 6.7 | 6.4 | 6.1 | 6.4 | --- | 12 | 12 | 9.8 | 7.9 | 7.3 | 7.3 | 6.7 |
| 31 | 6.7 | --- | 6.0 | 7.6 | --- | 12 | --- | 9.8 | --- | 7.3 | 7.3 | --- |
| TOTAL | 212.8 | 191.3 | 182.7 | 191.0 | 194.4 | 267.4 | 385 | 354.3 | 257.8 | 226.4 | 231.3 | 210.6 |
| MEAN | 6.86 | 6.38 | 5.89 | 6.16 | 6.94 | 8.63 | 12.8 | 11.4 | 8.59 | 7.30 | 7.46 | 7.02 |
| MAX | 7.4 | 6.7 | 6.5 | 7.6 | 9.1 | 15 | 17 | 13 | 9.9 | 7.8 | 8.0 | 7.4 |
| MIN | 6.7 | 6.1 | 5.7 | 5.9 | 5.9 | 7.0 | 12 | 9.8 | 7.9 | 7.0 | 7.1 | 6.6 |
| ACFT | 422 | 379 | 362 | 379 | 386 | 530 | 764 | 703 | 511 | 449 | 459 | 418 |
| CAL YR 1985 | TOTAL 3184.2 | | MEAN 8.72 | | MAX 27 | | MIN 5.7 | | ACFT 6320 | | | |
| WTR YR 1986 | TOTAL 2905.0 | | MEAN 7.96 | | MAX 17 | | MIN 5.7 | | ACFT 5760 | | | |

RUSH VALLEY

301

10172750 OPHIR CREEK NEAR STOCKTON, UT

LOCATION.--Lat 40°22'34", long 112°14'28", in SE1/4NE1/4NW1/4 sec.24, T.5 S., R.4 W., Tooele County, Hydrologic Unit 16020304, on left bank 450 ft upstream from cattle guard, 4.1 mi northeast of Junction of Highway 73 and Ophir road, 9.0 mi southeast of Stockton.

DRAINAGE AREA.--

PERIOD OF RECORD.--March 1986 to September 1986.

GAGE.--Water-stage recorder. Altitude of gage is 6,640 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period, 60 ft³/s May 21, gage height, 4.11 ft; minimum daily, 2.7 ft³/s several days in February and March.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-----|-----|-----|-----|------|-------|-------|------|------|-------|-------|-------|
| 1 | | | | | --- | e2.7 | 11 | 19 | 33 | 13 | 9.2 | 7.2 |
| 2 | | | | | --- | e2.7 | 13 | 22 | 29 | 13 | 8.9 | 7.6 |
| 3 | | | | | --- | e2.7 | 11 | 28 | 27 | 13 | 8.5 | 6.8 |
| 4 | | | | | --- | e2.7 | 9.8 | 35 | 26 | 13 | 8.1 | 6.6 |
| 5 | | | | | --- | e2.8 | 10 | 29 | 25 | 13 | 7.9 | 6.7 |
| 6 | | | | | --- | e2.8 | 9.8 | 24 | 24 | 12 | 7.8 | 6.6 |
| 7 | | | | | --- | e2.8 | 11 | 21 | 22 | 11 | 7.7 | 6.6 |
| 8 | | | | | --- | e2.9 | 12 | 20 | 20 | 12 | 7.6 | 6.5 |
| 9 | | | | | --- | e2.9 | 12 | 18 | 20 | 11 | 7.8 | 6.6 |
| 10 | | | | | --- | e3.0 | 12 | 17 | 19 | 12 | 7.9 | 6.7 |
| 11 | | | | | --- | e3.1 | 11 | 17 | 18 | 13 | 7.7 | 6.5 |
| 12 | | | | | --- | e3.1 | 12 | 17 | 18 | 13 | 7.6 | 6.3 |
| 13 | | | | | --- | e3.1 | 14 | 20 | 18 | 13 | 7.7 | 6.4 |
| 14 | | | | | --- | e3.1 | 14 | 25 | 18 | 12 | 7.7 | 6.1 |
| 15 | | | | | --- | e3.3 | 14 | 26 | 19 | 11 | 7.9 | 5.9 |
| 16 | | | | | --- | e3.3 | 14 | 27 | 18 | 11 | 7.6 | 5.8 |
| 17 | | | | | --- | e3.3 | 16 | 28 | 17 | 11 | 7.6 | 5.7 |
| 18 | | | | | --- | e3.3 | 15 | 28 | 18 | 11 | 7.8 | 5.7 |
| 19 | | | | | --- | e3.3 | 13 | 32 | 17 | 11 | 7.5 | 5.8 |
| 20 | | | | | --- | e3.5 | 14 | 38 | 17 | 10 | 8.5 | 5.3 |
| 21 | | | | | --- | 3.9 | 14 | 46 | 17 | 10 | 8.3 | 5.1 |
| 22 | | | | | --- | 3.7 | 20 | 45 | 17 | 10 | 7.8 | 5.0 |
| 23 | | | | | --- | 4.2 | 31 | 37 | 18 | 10 | 7.4 | 5.0 |
| 24 | | | | | --- | 4.8 | 27 | 34 | 16 | 10 | 7.6 | 5.1 |
| 25 | | | | | --- | 5.2 | 24 | 37 | 15 | 9.9 | 7.5 | 5.5 |
| 26 | | | | | --- | 5.5 | 21 | 43 | 15 | 9.6 | 7.3 | 5.2 |
| 27 | | | | | e2.7 | 6.3 | 19 | 42 | 14 | 9.4 | 7.3 | 5.0 |
| 28 | | | | | e2.7 | 7.8 | 17 | 44 | 14 | 9.3 | 7.9 | 5.0 |
| 29 | | | | | --- | 9.4 | 17 | 32 | 13 | 9.1 | 7.6 | 5.0 |
| 30 | | | | | --- | 9.7 | 17 | 31 | 13 | 9.0 | 7.4 | 5.1 |
| 31 | | | | | --- | 10 | --- | 36 | --- | 9.3 | 7.3 | --- |
| TOTAL | | | | | --- | 130.9 | 455.6 | 918 | 575 | 344.6 | 242.4 | 178.4 |
| MEAN | | | | | --- | 4.22 | 15.2 | 29.6 | 19.2 | 11.1 | 7.82 | 5.95 |
| MAX | | | | | --- | 10 | 31 | 46 | 33 | 13 | 9.2 | 7.6 |
| MIN | | | | | --- | 2.7 | 9.8 | 17 | 13 | 9.0 | 7.3 | 5.0 |
| ACFT | | | | | --- | 260 | 904 | 1820 | 1140 | 684 | 481 | 354 |

e Estimated.

10172765 CLOVER CREEK ABOVE BIG HOLLOW, NEAR CLOVER, UT

LOCATION.--Lat 40°20'06", long 112°31'39", in NE1/4SE1/4SW1/4 sec.33, T.55 S., R.6 W., Tooele County, Hydrologic Unit 16020304, on left bank 60 ft south of State Highway 199 at milepost 15.9, and 4.6 mi west of St. John.

DRAINAGE AREA.--6.71 mi².

PERIOD OF RECORD.--November 1984 to September 1985.

GAGE.--Water-stage recorder and sharp crested weir. Elevation of gage is 5,660 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges, records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31 ft³/s June 1, 1986, gage height, 2.05 ft; minimum daily, 2.2 ft³/s many days during December 1985 and January 1986.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 31 ft³/s June 1, gage height, 2.05 ft; minimum daily, 2.2 ft³/s many days during December and January.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|--------------|------|-----------|------|--------|-------|---------|------|-----------|-------|-------|-------|
| 1 | 3.7 | 3.1 | 2.6 | 2.2 | 2.4 | 7.3 | 13 | 11 | 31 | 14 | 8.6 | 6.0 |
| 2 | 3.5 | 3.1 | 2.6 | 2.2 | 2.4 | 7.6 | 12 | 13 | 31 | 14 | 8.5 | 6.0 |
| 3 | 3.3 | 3.1 | 2.6 | 2.2 | 2.4 | 7.6 | 9.4 | 17 | 30 | 13 | 8.3 | 5.9 |
| 4 | 3.3 | 3.1 | 2.6 | 2.2 | 2.4 | 7.9 | 9.2 | 20 | 30 | 13 | 8.3 | 5.8 |
| 5 | 3.3 | 3.1 | 2.4 | 2.2 | 2.4 | 7.8 | 9.3 | 16 | 29 | 13 | 8.3 | 5.8 |
| 6 | 3.3 | 3.1 | 2.4 | 2.2 | 2.5 | 7.9 | 9.2 | 14 | 29 | 13 | 7.9 | 5.8 |
| 7 | 3.3 | 3.1 | 2.6 | 2.2 | 2.6 | 7.9 | 9.6 | 12 | 25 | 13 | 7.7 | 5.6 |
| 8 | 3.3 | 2.9 | 2.4 | 2.2 | 2.6 | 8.1 | 8.8 | 12 | 23 | 12 | 7.7 | 5.4 |
| 9 | 3.3 | 2.9 | 2.4 | 2.2 | 2.6 | 8.1 | 8.5 | 12 | 21 | 12 | 7.7 | 5.4 |
| 10 | 3.3 | 2.9 | 2.4 | 2.2 | 2.6 | 6.7 | 8.0 | 12 | 19 | 12 | 7.7 | 5.5 |
| 11 | 3.3 | 2.9 | 2.4 | 2.2 | 2.6 | 5.9 | 8.5 | 12 | 19 | 12 | 7.7 | 5.3 |
| 12 | 3.3 | 2.9 | 2.4 | 2.2 | 2.6 | 5.3 | 8.9 | 12 | 19 | 12 | 7.6 | 5.3 |
| 13 | 3.3 | 2.9 | 2.4 | 2.2 | 2.6 | 5.0 | 9.2 | 12 | 20 | 12 | 7.4 | 5.3 |
| 14 | 3.3 | 2.9 | 2.4 | 2.2 | 2.7 | 5.0 | 8.6 | 13 | 20 | 11 | 7.4 | 5.3 |
| 15 | 3.3 | 2.7 | 2.4 | 2.2 | 2.7 | 4.8 | 11 | 12 | 19 | 11 | 7.3 | 5.2 |
| 16 | 3.3 | 2.7 | 2.4 | 2.2 | 2.7 | 4.8 | 17 | 12 | 19 | 11 | 7.1 | 5.0 |
| 17 | 3.3 | 2.7 | 2.4 | 2.2 | 2.7 | 4.7 | 17 | 11 | 18 | 11 | 6.9 | 5.0 |
| 18 | 3.1 | 2.8 | 2.4 | 2.2 | 3.3 | 4.6 | 13 | 11 | 18 | 10 | 6.8 | 5.0 |
| 19 | 3.1 | 2.8 | 2.4 | 2.2 | 6.3 | 4.5 | 7.7 | 14 | 18 | 10 | 6.8 | 5.0 |
| 20 | 3.1 | 2.7 | 2.4 | 2.2 | 5.0 | 4.3 | 7.5 | 19 | 17 | 9.9 | 7.0 | 5.0 |
| 21 | 3.1 | 2.7 | 2.4 | 2.2 | 4.5 | 5.0 | 9.5 | 23 | 17 | 9.8 | 6.8 | 5.0 |
| 22 | 3.1 | 2.7 | 2.4 | 2.2 | 3.9 | 7.1 | 14 | 24 | 16 | 9.8 | 6.7 | 4.9 |
| 23 | 3.1 | 2.7 | 2.4 | 2.2 | 3.7 | 8.7 | 17 | 19 | 16 | 9.8 | 6.5 | 4.8 |
| 24 | 3.1 | 2.7 | 2.4 | 2.2 | 4.1 | 10 | 17 | 18 | 16 | 9.7 | 6.5 | 4.8 |
| 25 | 3.1 | 2.6 | 2.4 | 2.2 | 6.6 | 9.4 | 14 | 20 | 15 | 9.5 | 6.5 | 5.0 |
| 26 | 3.1 | 2.6 | 2.4 | 2.2 | 7.1 | 8.3 | 11 | 23 | 15 | 9.5 | 6.4 | 4.8 |
| 27 | 3.1 | 2.6 | 2.4 | 2.2 | 7.1 | 8.5 | 9.6 | 27 | 15 | 9.4 | 6.3 | 4.8 |
| 28 | 3.1 | 2.6 | 2.4 | 2.2 | 7.1 | 9.7 | 9.0 | 30 | 15 | 9.2 | 6.3 | 4.8 |
| 29 | 3.1 | 2.6 | 2.3 | 2.2 | --- | 11 | 8.9 | 30 | 15 | 9.0 | 6.3 | 4.7 |
| 30 | 3.1 | 2.6 | 2.2 | 2.3 | --- | 13 | 9.6 | 30 | 14 | 8.9 | 6.2 | 4.6 |
| 31 | 3.1 | --- | 2.2 | 2.4 | --- | 15 | --- | 30 | --- | 8.8 | 6.0 | --- |
| TOTAL | 100.1 | 84.8 | 74.9 | 68.5 | 102.2 | 231.5 | 325.0 | 541 | 609 | 342.3 | 223.2 | 156.8 |
| MEAN | 3.23 | 2.83 | 2.42 | 2.21 | 3.65 | 7.47 | 10.8 | 17.5 | 20.3 | 11.0 | 7.20 | 5.23 |
| MAX | 3.7 | 3.1 | 2.6 | 2.4 | 7.1 | 15 | 17 | 30 | 31 | 14 | 8.6 | 6.0 |
| MIN | 3.1 | 2.6 | 2.2 | 2.2 | 2.4 | 4.3 | 7.5 | 11 | 14 | 8.8 | 6.0 | 4.6 |
| ACFT | 199 | 168 | 149 | 136 | 203 | 459 | 645 | 1070 | 1210 | 679 | 443 | 311 |
| CAL YR 1985 | TOTAL 2238.0 | | MEAN 6.13 | | MAX 22 | | MIN 2.2 | | ACFT 4440 | | | |
| WTR YR 1986 | TOTAL 2859.3 | | MEAN 7.83 | | MAX 31 | | MIN 2.2 | | ACFT 5670 | | | |

TOOELE VALLEY

303

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 mi². Area at crest-stage gage site, 3.26 mi².

PERIOD OF RECORD.--July 1963 to current year. Annual maximum only, July 1960 to July 1963, at crest-stage gage site.

REVISED RECORDS.--W 1983: 1982.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,360 ft from topographic map. Prior to July 23, 1963, crest-stage gage only, at site 1.4 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--23 years, 7.22 ft³/s, 5,230 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92 ft³/s June 8, 1964, gage height, 2.21 ft; minimum discharge, 1.6 ft³/s Mar. 10, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|-------|------|--------------------------------|------------------|--------|------|--------------------------------|------------------|
| May 6 | 0700 | 23 | 1.60 | June 1 | 1500 | *79 | *1.79 |

Minimum daily discharge, 3.3 ft³/s many days during December - February.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|-------|
| 1 | 4.5 | 4.7 | 3.6 | 3.6 | 3.6 | 6.8 | 13 | 11 | e62 | 17 | 9.2 | 5.9 |
| 2 | 4.5 | 4.7 | 3.6 | 3.6 | 3.6 | 8.1 | 11 | 12 | e58 | 16 | 8.8 | 5.9 |
| 3 | 4.7 | 4.7 | 3.6 | 3.6 | 3.6 | 8.5 | 10 | 16 | 49 | 16 | 8.7 | 5.9 |
| 4 | 4.7 | 4.6 | 3.6 | 3.6 | 3.4 | 9.2 | 9.8 | 19 | 38 | 17 | 8.2 | 5.9 |
| 5 | 4.6 | 4.6 | 3.6 | 3.6 | 3.3 | 9.3 | 9.7 | 20 | 38 | 16 | 8.0 | 5.7 |
| 6 | 4.7 | 4.7 | 3.6 | 3.6 | 3.3 | 9.3 | 9.6 | 22 | 46 | 16 | 7.7 | 5.5 |
| 7 | 5.4 | 4.5 | 3.6 | 3.4 | 3.3 | 9.2 | 11 | 21 | 32 | 15 | 7.7 | 5.5 |
| 8 | 4.7 | 4.3 | 3.7 | 3.3 | 3.3 | 9.2 | 14 | 19 | 30 | 14 | 7.5 | 5.5 |
| 9 | 4.7 | 4.3 | 3.6 | 3.3 | 3.3 | 9.0 | 13 | 16 | 30 | 14 | 7.3 | 5.5 |
| 10 | 4.7 | 4.3 | 3.6 | 3.3 | 3.3 | 8.5 | 13 | 15 | 31 | 13 | 7.3 | 5.5 |
| 11 | 4.7 | 4.6 | 3.6 | 3.3 | 3.3 | 7.7 | 12 | 17 | 28 | 12 | 7.3 | 5.5 |
| 12 | 4.7 | 4.3 | 3.6 | 3.3 | 3.3 | 6.8 | 13 | 18 | 28 | 12 | 7.3 | 5.5 |
| 13 | 4.7 | 4.3 | 3.6 | 3.3 | 3.3 | 5.6 | 13 | 20 | 26 | 12 | 7.3 | 5.5 |
| 14 | 4.7 | 4.3 | 3.6 | 3.3 | 3.3 | 5.5 | 12 | 21 | 24 | 11 | 7.3 | 5.5 |
| 15 | 4.9 | 4.3 | 3.6 | 3.5 | 3.4 | 5.4 | 12 | 23 | 23 | 11 | 7.3 | 5.4 |
| 16 | 4.7 | 4.2 | 3.5 | 3.6 | 3.3 | 5.1 | 12 | 26 | 21 | 11 | 7.3 | 5.1 |
| 17 | 5.1 | 4.0 | 3.3 | 3.6 | 3.6 | 5.1 | 12 | 28 | 21 | 11 | 7.1 | 5.1 |
| 18 | 5.1 | 4.0 | 3.3 | 3.6 | 3.6 | 4.7 | 12 | 31 | 20 | 11 | 6.8 | 5.2 |
| 19 | 5.1 | 4.0 | 3.3 | 3.6 | 4.1 | 4.3 | 11 | 34 | 19 | 11 | 6.8 | 5.1 |
| 20 | 4.9 | 4.0 | 3.3 | 3.7 | 4.1 | 4.0 | 11 | 43 | 17 | 11 | 7.0 | 5.1 |
| 21 | 4.7 | 4.0 | 3.3 | 3.6 | 4.0 | 4.3 | 11 | 50 | 17 | 11 | 7.3 | 5.2 |
| 22 | 4.7 | 4.0 | 3.3 | 3.6 | 4.0 | 4.7 | 12 | 49 | 19 | 11 | 7.3 | 5.5 |
| 23 | 4.6 | 4.0 | 3.3 | 3.6 | 4.0 | 5.3 | 13 | 47 | 18 | 11 | 7.3 | 5.4 |
| 24 | 4.5 | 4.0 | 3.3 | 3.6 | 4.2 | 6.3 | 13 | 49 | 17 | 11 | 7.1 | 5.2 |
| 25 | 4.5 | 4.0 | 3.3 | 3.6 | 4.9 | 6.7 | 13 | 52 | 18 | 11 | 6.8 | 5.6 |
| 26 | 4.3 | 3.8 | 3.3 | 3.6 | 5.5 | 6.9 | 15 | 46 | 17 | 11 | 6.8 | 5.3 |
| 27 | 4.3 | 3.6 | 3.3 | 3.6 | 5.9 | 7.7 | 14 | 52 | 17 | 11 | 6.8 | 5.2 |
| 28 | 4.3 | 3.7 | 3.3 | 3.6 | 6.1 | 8.3 | 13 | e54 | 17 | 10 | 6.6 | 5.1 |
| 29 | 4.3 | 3.6 | 3.3 | 3.3 | --- | 7.4 | 11 | e58 | 17 | 9.9 | 6.3 | 5.1 |
| 30 | 4.5 | 3.6 | 3.4 | 3.6 | --- | 11 | 9.9 | 62 | 17 | 9.9 | 6.3 | 5.1 |
| 31 | 4.7 | --- | 3.6 | 3.6 | --- | 11 | --- | 65 | --- | 9.6 | 6.2 | --- |
| TOTAL | 145.2 | 125.7 | 107.5 | 109.0 | 107.9 | 220.9 | 359.0 | 1016 | 815 | 383.4 | 226.7 | 162.5 |
| MEAN | 4.68 | 4.19 | 3.47 | 3.52 | 3.85 | 7.13 | 12.0 | 32.8 | 27.2 | 12.4 | 7.31 | 5.42 |
| MAX | 5.4 | 4.7 | 3.7 | 3.7 | 6.1 | 11 | 15 | 65 | 62 | 17 | 9.2 | 5.9 |
| MIN | 4.3 | 3.6 | 3.3 | 3.3 | 3.3 | 4.0 | 9.6 | 11 | 17 | 9.6 | 6.2 | 5.1 |
| ACFT | 288 | 249 | 213 | 216 | 214 | 438 | 712 | 2020 | 1620 | 760 | 450 | 322 |

| CAL YR 1985 | TOTAL | 2375.1 | MEAN | 6.51 | MAX | 23 | MIN | 2.3 | ACFT | 4710 |
|-------------|-------|--------|------|------|-----|----|-----|-----|------|------|
| WTR YR 1986 | TOTAL | 3778.8 | MEAN | 10.4 | MAX | 65 | MIN | 3.3 | ACFT | 7500 |

e Estimated.

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 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 5,960 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--7 years, 7.51 ft³/s, 5,440 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 145 ft³/s May 16, 1984; minimum daily, 1.6 ft³/s several days in January and February 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| Apr. 25 | 1000 | 28 | 3.12 | May 28 | 0300 | *50 | *3.23 |
| May 3 | 1400 | 32 | 3.14 | | | | |

Minimum daily discharge, 2.4 ft³/s several days during November, December, and January.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|------|-------|-------|------|------|-------|-------|-------|-------|
| 1 | 2.6 | 2.6 | 2.6 | 2.6 | 2.9 | e6.5 | 16 | 20 | 31 | 6.8 | 3.8 | 3.4 |
| 2 | 2.6 | 2.5 | 2.6 | 2.6 | 2.9 | e7.2 | 17 | 23 | 31 | 6.5 | 3.8 | 3.5 |
| 3 | 2.6 | 2.4 | 2.6 | 2.6 | 2.9 | e7.6 | 15 | 30 | 30 | 6.3 | 3.8 | 3.3 |
| 4 | 2.6 | 2.4 | 2.6 | 2.5 | 2.9 | e8.0 | 14 | 31 | 31 | 6.2 | 3.8 | 3.3 |
| 5 | 2.6 | 2.5 | 2.6 | 2.5 | 2.8 | e8.3 | 13 | 27 | 29 | 5.9 | 3.8 | 3.1 |
| 6 | 3.0 | 2.4 | 2.6 | 2.5 | 2.9 | e8.4 | 13 | 27 | 28 | 5.6 | 3.7 | 3.0 |
| 7 | 3.0 | 2.4 | 2.6 | 2.4 | 2.7 | e8.0 | 14 | 24 | 22 | 5.4 | 3.6 | 3.1 |
| 8 | 3.0 | 2.6 | 2.5 | 2.4 | 2.8 | e7.4 | 14 | 19 | 19 | 5.3 | 3.6 | 3.1 |
| 9 | 2.9 | 2.6 | 2.6 | 2.4 | 2.9 | 6.9 | 14 | 16 | 17 | 5.1 | 3.6 | 3.4 |
| 10 | 2.9 | 2.6 | 2.6 | 2.4 | 2.9 | 6.6 | 14 | 15 | 14 | 5.1 | 3.6 | 3.3 |
| 11 | 2.9 | 2.6 | 2.6 | 2.4 | 2.9 | 6.5 | 14 | 15 | 13 | 5.1 | 3.6 | 3.2 |
| 12 | 2.7 | 2.6 | 2.4 | 2.4 | 2.9 | 6.3 | 14 | 17 | 12 | 5.0 | 3.5 | 3.2 |
| 13 | 2.7 | 2.6 | 2.5 | 2.4 | 2.9 | 5.8 | 15 | 22 | 12 | 4.9 | 3.4 | 3.2 |
| 14 | 2.6 | 2.6 | 2.6 | 2.4 | 2.9 | 5.6 | 14 | 26 | 12 | 4.9 | 3.4 | 3.1 |
| 15 | e2.6 | 2.6 | 2.6 | 2.5 | 3.0 | 5.3 | 14 | 26 | 12 | 4.9 | 3.2 | 3.2 |
| 16 | e2.6 | 2.6 | 2.6 | 2.6 | 3.1 | 5.4 | 14 | 25 | 12 | 4.8 | 3.0 | 3.2 |
| 17 | e2.7 | 2.6 | 2.6 | 2.6 | 3.4 | 5.2 | 15 | 24 | 11 | 4.7 | 3.1 | 3.2 |
| 18 | e2.7 | 2.5 | 2.6 | 2.6 | 3.5 | 5.1 | 14 | 21 | 11 | 4.5 | 3.1 | 3.3 |
| 19 | e2.7 | 2.4 | 2.6 | 2.6 | 4.3 | 4.9 | 13 | 22 | 12 | 4.5 | 3.2 | 3.3 |
| 20 | e2.7 | 2.4 | 2.6 | 2.7 | 4.4 | 5.0 | 13 | 29 | 11 | 4.4 | 4.1 | 3.3 |
| 21 | e2.6 | 2.4 | 2.6 | 2.5 | 4.4 | 5.1 | 14 | 36 | 9.2 | 4.4 | 4.2 | 3.3 |
| 22 | e2.6 | 2.4 | 2.6 | 2.6 | 4.3 | 5.5 | 17 | 42 | 8.6 | 4.4 | 3.9 | 3.2 |
| 23 | e2.6 | 2.4 | 2.6 | 2.6 | 4.2 | 7.2 | 23 | 38 | 8.3 | 4.8 | 3.7 | 3.2 |
| 24 | e2.6 | 2.4 | 2.6 | 2.6 | 4.3 | 9.9 | 26 | 36 | 7.8 | 4.8 | 3.6 | 3.6 |
| 25 | e2.6 | 2.6 | 2.6 | 2.5 | 4.5 | 12 | 26 | 34 | 8.0 | 4.5 | 3.5 | 4.1 |
| 26 | e2.5 | 2.6 | 2.6 | 2.6 | 5.0 | 12 | 23 | 37 | 8.4 | 4.5 | 3.5 | 3.8 |
| 27 | e2.5 | 2.6 | 2.6 | 2.6 | 5.6 | 12 | 19 | 42 | 8.0 | 4.3 | 3.4 | 3.7 |
| 28 | e2.5 | 2.6 | 2.6 | 2.6 | e6.0 | 13 | 17 | 41 | 7.6 | 4.1 | 4.1 | 3.8 |
| 29 | e2.5 | 2.6 | 2.6 | 2.6 | --- | 14 | 17 | 37 | 7.4 | 3.9 | 3.9 | 3.7 |
| 30 | e2.6 | 2.6 | 2.6 | 2.9 | --- | 15 | 18 | 32 | 7.2 | 3.9 | 3.7 | 3.8 |
| 31 | 2.6 | --- | 2.6 | 2.9 | --- | 16 | --- | 30 | --- | 3.9 | 3.5 | --- |
| TOTAL | 82.9 | 75.7 | 80.2 | 79.1 | 100.2 | 251.7 | 484 | 864 | 450.5 | 153.4 | 111.7 | 100.9 |
| MEAN | 2.67 | 2.52 | 2.59 | 2.55 | 3.58 | 8.12 | 16.1 | 27.9 | 15.0 | 4.95 | 3.60 | 3.36 |
| MAX | 3.0 | 2.6 | 2.6 | 2.9 | 6.0 | 16 | 26 | 42 | 31 | 6.8 | 4.2 | 4.1 |
| MIN | 2.5 | 2.4 | 2.4 | 2.4 | 2.7 | 4.9 | 13 | 15 | 7.2 | 3.9 | 3.0 | 3.0 |
| ACFT | 164 | 150 | 159 | 157 | 199 | 499 | 960 | 1710 | 894 | 304 | 222 | 200 |
| CAL YR 1985 | TOTAL | 1641.8 | MEAN | 4.50 | MAX | 18 | MIN | 2.2 | ACFT | 3260 | | |
| WTR YR 1986 | TOTAL | 2834.3 | MEAN | 7.77 | MAX | 42 | MIN | 2.4 | ACFT | 5620 | | |

e Estimated.

GREAT SALT LAKE DESERT

305

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 mi².

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 except for estimated daily discharges, which are fair. No diversion above station.

AVERAGE DISCHARGE.--28 years, 5.94 ft³/s, 4,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 177 ft³/s June 2, 1983, gage height, 2.84 ft; minimum, 0.24 ft³/s Feb. 25, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|-------|------|--------------------------------|------------------|--------|------|--------------------------------|------------------|
| May 4 | 1100 | 29 | 1.84 | May 28 | 0300 | *74 | *2.39 |

Minimum discharge, 0.72 ft³/s Jan. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|
| 1 | 1.7 | 1.8 | 1.5 | 1.6 | 1.3 | 1.8 | 6.1 | 12 | 59 | 6.9 | 3.0 | 2.0 |
| 2 | 1.7 | 1.8 | 1.6 | 1.5 | 1.2 | 2.0 | 6.2 | 14 | 58 | 6.8 | 2.8 | 2.0 |
| 3 | 1.6 | 1.7 | 1.5 | 1.4 | 1.2 | 1.9 | 5.8 | 21 | 58 | 7.1 | 2.7 | 2.0 |
| 4 | 1.6 | 1.7 | 1.5 | 1.4 | 1.2 | 1.9 | 5.5 | 27 | 60 | 6.8 | 2.7 | 1.9 |
| 5 | 1.6 | 1.7 | 1.5 | 1.4 | 1.4 | 1.9 | 5.4 | 21 | 57 | 6.4 | 2.7 | 1.8 |
| 6 | 1.8 | 1.7 | 1.5 | 1.4 | 1.4 | 2.0 | 5.3 | 16 | 51 | 6.2 | 2.7 | 1.8 |
| 7 | 2.4 | 1.7 | 1.6 | 1.2 | 1.4 | 2.1 | 5.6 | 13 | 43 | 5.9 | 2.6 | 1.8 |
| 8 | 1.9 | 1.7 | 1.6 | 1.5 | 1.4 | 2.3 | 5.2 | 11 | 36 | 5.7 | 2.6 | 1.8 |
| 9 | 2.1 | 1.7 | e1.6 | 1.4 | 1.4 | 2.4 | 5.3 | 9.9 | 30 | 5.5 | 2.6 | 2.0 |
| 10 | 2.1 | 1.7 | e1.6 | 1.3 | 1.3 | 2.3 | 5.2 | 9.4 | 24 | 5.4 | 2.5 | 2.1 |
| 11 | 2.1 | 2.0 | e1.6 | 1.3 | 1.3 | 2.1 | 5.4 | 9.3 | 20 | 5.3 | 2.4 | 2.0 |
| 12 | 2.0 | 1.9 | e1.6 | 1.3 | 1.2 | 2.1 | 6.1 | 9.2 | 18 | 5.1 | 2.4 | 1.9 |
| 13 | 1.9 | e1.9 | e1.6 | 1.3 | 1.2 | 2.1 | 6.3 | 9.9 | 16 | 4.9 | 2.3 | 1.8 |
| 14 | 1.9 | e1.9 | e1.5 | 1.3 | 1.2 | 2.0 | 5.9 | 11 | 15 | 4.7 | 2.3 | 1.8 |
| 15 | 1.9 | e1.9 | e1.5 | 1.3 | 1.2 | 1.9 | 5.3 | 12 | 14 | 5.0 | 2.3 | 1.8 |
| 16 | 1.9 | e1.8 | 1.5 | 1.3 | 1.2 | 2.0 | 5.3 | 11 | 14 | 4.8 | 2.2 | 1.8 |
| 17 | 1.9 | 1.8 | 1.4 | 1.3 | 1.3 | 1.9 | 5.3 | 9.9 | 13 | 4.6 | 2.1 | 1.9 |
| 18 | 1.9 | e1.8 | 1.5 | 1.3 | 1.5 | 1.9 | 5.1 | 9.9 | 13 | 4.3 | 2.1 | 2.0 |
| 19 | 1.9 | e1.8 | 1.5 | 1.2 | 1.9 | 1.9 | 5.1 | 12 | 12 | 4.1 | 2.3 | 2.1 |
| 20 | 1.9 | e1.8 | 1.5 | 1.3 | 1.6 | 2.1 | 5.5 | 22 | 12 | 4.1 | 2.6 | 2.1 |
| 21 | 1.9 | e1.8 | 1.5 | 1.2 | 1.3 | 2.5 | 7.4 | 33 | 11 | 4.1 | 2.7 | 2.0 |
| 22 | 1.9 | e1.7 | 1.6 | 1.4 | 1.3 | 2.9 | 12 | 35 | 11 | 4.2 | 2.7 | 1.9 |
| 23 | 1.9 | e1.7 | 1.6 | 1.2 | 1.3 | 3.3 | 15 | 29 | 9.8 | 4.2 | 2.3 | 1.9 |
| 24 | 1.9 | e1.7 | 1.6 | 1.2 | 1.3 | 3.7 | 16 | 27 | 9.4 | 4.0 | 2.2 | 2.0 |
| 25 | 1.9 | e1.7 | 1.6 | 1.2 | 1.4 | 3.9 | 13 | 32 | 8.8 | 3.9 | 2.3 | 2.3 |
| 26 | 1.9 | e1.6 | 1.6 | 1.4 | 1.6 | 3.7 | 10 | 45 | 8.4 | 3.9 | 2.1 | 2.1 |
| 27 | 1.9 | e1.6 | 1.6 | 1.5 | 1.7 | 3.9 | 8.7 | 63 | 8.0 | 3.6 | 2.0 | 2.1 |
| 28 | 1.9 | e1.6 | 1.6 | 1.2 | 1.7 | 4.8 | 8.1 | 69 | 7.6 | 3.4 | 2.1 | 2.1 |
| 29 | 1.8 | e1.6 | 1.6 | 1.2 | --- | 5.3 | 8.5 | 68 | 7.5 | 3.2 | 2.1 | 2.1 |
| 30 | 1.8 | 1.6 | 1.7 | 1.4 | --- | 5.6 | 9.9 | 63 | 7.2 | 3.1 | 2.0 | 2.1 |
| 31 | 1.7 | --- | 1.6 | 1.3 | --- | 5.9 | --- | 62 | --- | 3.0 | 2.0 | --- |
| TOTAL | 58.3 | 52.4 | 48.3 | 41.2 | 38.4 | 86.1 | 219.5 | 796.5 | 711.5 | 150.2 | 74.4 | 59.0 |
| MEAN | 1.88 | 1.75 | 1.56 | 1.33 | 1.37 | 2.78 | 7.32 | 25.7 | 23.7 | 4.85 | 2.40 | 1.97 |
| MAX | 2.4 | 2.0 | 1.7 | 1.6 | 1.9 | 5.9 | 16 | 69 | 60 | 7.1 | 3.0 | 2.3 |
| MIN | 1.6 | 1.6 | 1.4 | 1.2 | 1.2 | 1.8 | 5.1 | 9.2 | 7.2 | 3.0 | 2.0 | 1.8 |
| ACFT | 116 | 104 | 96 | 82 | 76 | 171 | 435 | 1580 | 1410 | 298 | 148 | 117 |

| | | | | | |
|-------------|--------------|-----------|--------|---------|-----------|
| CAL YR 1985 | TOTAL 1528.4 | MEAN 4.19 | MAX 23 | MIN 1.3 | ACFT 3030 |
| WTR YR 1986 | TOTAL 2335.8 | MEAN 6.40 | MAX 69 | MIN 1.2 | ACFT 4630 |

e Estimated.

TRIBUTARIES BETWEEN GREAT SALT LAKE DESERT AND BEAR RIVER

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 mi².

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 fair, including estimated daily discharges. No diversions above station.

AVERAGE DISCHARGE.--12 years, 6.72 ft³/s, 4,870 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 150 ft³/s May 28, 1983; minimum, 0.14 ft³/s Mar. 17, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 111 ft³/s May 31, gage height, 1.65 ft; minimum daily, 1.0 ft³/s Feb. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|------|------|-------|------|------|------|-------|-------|------|
| 1 | 1.4 | 1.4 | 1.4 | e1.5 | 1.7 | 6.2 | 12 | 20 | 82 | 15 | 5.8 | 3.4 |
| 2 | 1.4 | 1.4 | 1.4 | e1.5 | 1.7 | 6.2 | 13 | 22 | e78 | 14 | 5.7 | 3.4 |
| 3 | 1.3 | 1.4 | 1.3 | e1.5 | 1.6 | 6.2 | 13 | 24 | e70 | 14 | 5.5 | 3.3 |
| 4 | 1.3 | 1.4 | 1.4 | e1.5 | 1.5 | 6.4 | 13 | 28 | e60 | 14 | 5.3 | 3.2 |
| 5 | 1.4 | 1.4 | 1.5 | e1.5 | 1.4 | 6.4 | 13 | 29 | e54 | 14 | 5.0 | 3.1 |
| 6 | 1.4 | 1.4 | 1.5 | e1.5 | 1.3 | 6.4 | 13 | 28 | e45 | 13 | 5.2 | 3.0 |
| 7 | 1.8 | 1.4 | 1.5 | e1.5 | 1.3 | 6.4 | 13 | 27 | e43 | 12 | 5.4 | 3.1 |
| 8 | 1.9 | 1.4 | 1.5 | e1.5 | 1.2 | 6.4 | 13 | 25 | e42 | 12 | 5.2 | 3.0 |
| 9 | 1.9 | 1.4 | e1.4 | e1.6 | 1.2 | 6.4 | 13 | 24 | e41 | 11 | 4.9 | 3.4 |
| 10 | 1.9 | 1.3 | e1.4 | e1.6 | 1.1 | 6.4 | 14 | 23 | e40 | 11 | 4.8 | 3.2 |
| 11 | 1.9 | 1.5 | e1.4 | e1.6 | 1.1 | 6.3 | 14 | 22 | e37 | 11 | 4.7 | 3.0 |
| 12 | 1.7 | 1.4 | e1.4 | e1.7 | 1.1 | 6.0 | 15 | 21 | e36 | 11 | 4.5 | 2.9 |
| 13 | 1.7 | 1.4 | e1.4 | 1.7 | 1.1 | 5.7 | 15 | 21 | e35 | 9.8 | 4.5 | 2.9 |
| 14 | 1.7 | 1.4 | e1.4 | 1.7 | 1.1 | 5.4 | 15 | 21 | e33 | 9.7 | 4.4 | 2.8 |
| 15 | 1.7 | 1.4 | e1.4 | 1.6 | 1.1 | 5.1 | 15 | 20 | e30 | 9.8 | 4.3 | 2.8 |
| 16 | 1.7 | 1.5 | e1.4 | 1.6 | 1.0 | 5.1 | 15 | 20 | e28 | 9.5 | 4.2 | 2.8 |
| 17 | 1.6 | 1.5 | e1.4 | 1.8 | 2.2 | 4.9 | 15 | 20 | e26 | 9.4 | 4.0 | 2.8 |
| 18 | 1.6 | 1.3 | e1.4 | 1.7 | 6.6 | 4.7 | 16 | 20 | 27 | 9.0 | 4.0 | 3.8 |
| 19 | 1.6 | 1.4 | e1.4 | 1.8 | 6.4 | 4.9 | 16 | 22 | 26 | 8.6 | 4.0 | 3.4 |
| 20 | 1.6 | 1.4 | e1.5 | 1.8 | 4.4 | 4.8 | 16 | 27 | 23 | 8.0 | 4.2 | 3.2 |
| 21 | 1.6 | 1.4 | e1.5 | 1.6 | 3.5 | 5.0 | 16 | 38 | 21 | 7.7 | 4.4 | 3.0 |
| 22 | 1.5 | 1.4 | e1.5 | 1.7 | 3.1 | 5.3 | 18 | 39 | 19 | 7.7 | 4.1 | 2.8 |
| 23 | 1.8 | 1.4 | e1.5 | 1.6 | 3.7 | 5.4 | 21 | 41 | 18 | 9.2 | 3.9 | 2.8 |
| 24 | 1.8 | 1.5 | e1.5 | 1.6 | 5.2 | 5.9 | 23 | 42 | 18 | 8.8 | 3.8 | 3.0 |
| 25 | 1.7 | 1.5 | e1.5 | 1.5 | 5.3 | 6.2 | 23 | 52 | 19 | 8.1 | 3.7 | 3.0 |
| 26 | 1.7 | 1.5 | e1.5 | 1.6 | 5.6 | 6.4 | 23 | 65 | 18 | 8.1 | 3.6 | 3.1 |
| 27 | 1.6 | 1.5 | e1.5 | 1.6 | 6.2 | 7.0 | 22 | 73 | 17 | 7.6 | 3.4 | 3.0 |
| 28 | 1.6 | 1.5 | e1.5 | 1.5 | 6.2 | 8.0 | 22 | 66 | 17 | 7.3 | 3.4 | 2.9 |
| 29 | 1.5 | 1.5 | e1.5 | 1.6 | --- | 8.7 | 22 | 84 | 16 | 6.9 | 5.7 | 2.8 |
| 30 | 1.5 | 1.5 | e1.5 | 1.6 | --- | 10 | 20 | 85 | 16 | 6.8 | 3.9 | 3.3 |
| 31 | 1.5 | --- | e1.5 | 1.6 | --- | 12 | --- | 105 | --- | 6.2 | 3.5 | --- |
| TOTAL | 50.3 | 42.8 | 44.9 | 49.7 | 78.9 | 196.2 | 492 | 1154 | 1035 | 310.2 | 139.0 | 92.2 |
| MEAN | 1.62 | 1.43 | 1.45 | 1.60 | 2.82 | 6.33 | 16.4 | 37.2 | 34.5 | 10.0 | 4.48 | 3.07 |
| MAX | 1.9 | 1.5 | 1.5 | 1.8 | 6.6 | 12 | 23 | 105 | 82 | 15 | 5.8 | 3.8 |
| MIN | 1.3 | 1.3 | 1.3 | 1.5 | 1.0 | 4.7 | 12 | 20 | 16 | 6.2 | 3.4 | 2.8 |
| ACFT | 100 | 85 | 89 | 99 | 156 | 389 | 976 | 2290 | 2050 | 615 | 276 | 183 |
| CAL YR 1985 | TOTAL | 1615.2 | MEAN | 4.43 | MAX | 23 | MIN | 1.1 | ACFT | 3200 | | |
| WTR YR 1986 | TOTAL | 3685.2 | MEAN | 10.1 | MAX | 105 | MIN | 1.0 | ACFT | 7310 | | |

e Estimated.

SEVIER LAKE BASIN

307

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 mi².

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 except for estimated daily discharges, which are poor. One small diversion for irrigation above station.

AVERAGE DISCHARGE.--22 years, 53.2 ft³/s, 38,540 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 838 ft³/s June 19, 1983, gage height, 5.13 ft; minimum recorded, 0.06 ft³/s Dec. 25, 1977, Jan. 1, 22, 1978, result of ice jam.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|-------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| May 3 | 2300 | 280 | 3.35 | May 27 | 0130 | *395 | *3.86 |

Minimum discharge, 4.4 ft³/s Mar. 19, result of an ice jam.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|------|------|------|------|------|-------|------|------|-------|------|
| 1 | 26 | 24 | 24 | e13 | 17 | 16 | 25 | 133 | 269 | 55 | 33 | 26 |
| 2 | 25 | 24 | 23 | e12 | 16 | 16 | 28 | 172 | 244 | 54 | 32 | 26 |
| 3 | 25 | 24 | 23 | e17 | 16 | 16 | 27 | 231 | 219 | 58 | 32 | 25 |
| 4 | 24 | 23 | 22 | e16 | 16 | 15 | 25 | 270 | 212 | 52 | 31 | 25 |
| 5 | 24 | 23 | 25 | e17 | e19 | 15 | 23 | 249 | 188 | 51 | 31 | 24 |
| 6 | 23 | 23 | 21 | e16 | 17 | 15 | 22 | 203 | 175 | 50 | 36 | 23 |
| 7 | 26 | 22 | 21 | e14 | e15 | 16 | 22 | 171 | 165 | 50 | 36 | 23 |
| 8 | 28 | 22 | e21 | e14 | e14 | 17 | 22 | 152 | 155 | 48 | 34 | 23 |
| 9 | 29 | 23 | e14 | e14 | e14 | 18 | 22 | 137 | 151 | 47 | 33 | 23 |
| 10 | 30 | 23 | e14 | e14 | e15 | 17 | 22 | 127 | 137 | 45 | 33 | 24 |
| 11 | 28 | 23 | e16 | e14 | e15 | 17 | 24 | 122 | 128 | 43 | 33 | 24 |
| 12 | 27 | 22 | e16 | e14 | e15 | 17 | 25 | 121 | 123 | 43 | 32 | 23 |
| 13 | 27 | 25 | e15 | e14 | e16 | 17 | 28 | 128 | 118 | 42 | 32 | 23 |
| 14 | 26 | e23 | e15 | e13 | e18 | 17 | 28 | 151 | 109 | 42 | 31 | 23 |
| 15 | 26 | e22 | e14 | e16 | e22 | 16 | 27 | 189 | 101 | 42 | 31 | 22 |
| 16 | 25 | e23 | e14 | e14 | 25 | 17 | 30 | 214 | 96 | 44 | 30 | 22 |
| 17 | 25 | e24 | e14 | e15 | 29 | 16 | 33 | 197 | 91 | 44 | 29 | 22 |
| 18 | 25 | e23 | e14 | e15 | 37 | 16 | 30 | 211 | 87 | 43 | 28 | 22 |
| 19 | 25 | e22 | e13 | 16 | 55 | 15 | 27 | 254 | 83 | 41 | 28 | 22 |
| 20 | 25 | e22 | e13 | 17 | 21 | 15 | 26 | 296 | 78 | 40 | 28 | 22 |
| 21 | 25 | e23 | e13 | 16 | 18 | 15 | 29 | 316 | 75 | 40 | 27 | 22 |
| 22 | 26 | e22 | e13 | 18 | 17 | 15 | 43 | 313 | 72 | 47 | 27 | 22 |
| 23 | 26 | e23 | e13 | 16 | 17 | 15 | 60 | 311 | 70 | 49 | 28 | 26 |
| 24 | 26 | e23 | e12 | 16 | 17 | 15 | 72 | 310 | 68 | 48 | 28 | 29 |
| 25 | 25 | e22 | e12 | e18 | 16 | 15 | 78 | 315 | 67 | 42 | 28 | 34 |
| 26 | 25 | 22 | e12 | e20 | 16 | 16 | 80 | 327 | 64 | 39 | 28 | 28 |
| 27 | 25 | 21 | e12 | e18 | 16 | 16 | 75 | 347 | 61 | 38 | 27 | 27 |
| 28 | 24 | 22 | e12 | 17 | 16 | 18 | 76 | 371 | 58 | 37 | 27 | 27 |
| 29 | 24 | 23 | e12 | 16 | --- | 19 | 84 | 368 | 57 | 36 | 29 | 26 |
| 30 | 24 | 23 | e13 | 16 | --- | 21 | 101 | 328 | 56 | 35 | 27 | 26 |
| 31 | 24 | --- | e14 | 18 | --- | 23 | --- | 290 | --- | 34 | 26 | --- |
| TOTAL | 793 | 684 | 490 | 484 | 545 | 512 | 1214 | 7324 | 3577 | 1379 | 935 | 734 |
| MEAN | 25.6 | 22.8 | 15.8 | 15.6 | 19.5 | 16.5 | 40.5 | 236 | 119 | 44.5 | 30.2 | 24.5 |
| MAX | 30 | 25 | 25 | 20 | 55 | 23 | 101 | 371 | 269 | 58 | 36 | 34 |
| MIN | 23 | 21 | 12 | 12 | 14 | 15 | 22 | 121 | 56 | 34 | 26 | 22 |
| ACFT | 1570 | 1360 | 972 | 960 | 1080 | 1020 | 2410 | 14530 | 7090 | 2740 | 1850 | 1460 |
| CAL YR 1985 | TOTAL | 22435.9 | | MEAN | 61.5 | MAX | 387 | MIN | 5.7 | ACFT | 44500 | |
| WTR YR 1986 | TOTAL | 18671 | | MEAN | 51.2 | MAX | 371 | MIN | 12 | ACFT | 37030 | |

e Estimated.

SEVIER LAKE BASIN

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 mi².

WATER-DISCHARGE RECORDS

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, except for estimated daily discharges, which are poor. Small diversions for irrigation above station. No regulation since Hatchtown Dam failed in 1914.

AVERAGE DISCHARGE.--64 years, 127 ft³/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 ft³/s May 26, 1922, gage height, 5.25 ft, datum then in use; minimum daily, 10 ft³/s for several days in 1912 when water was stored in Hatchtown Reservoir. Minimum natural flow, 20 ft³/s Aug. 30, 31, Sept. 1, 7-9, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|--------------------------------|------------------|--|------|--------------------------------|------------------|
| Feb. 19 | 2000 | *614 | *2.76 | No other peak greater than base discharge. | | | |

Minimum daily discharge, 60 ft³/s Jan. 14, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|-------|-------|-------|------|------|
| 1 | 81 | 73 | 80 | 62 | 80 | 83 | 113 | 215 | 319 | 113 | 85 | 90 |
| 2 | 84 | 74 | 81 | 61 | 76 | 82 | 142 | 240 | 296 | 115 | 80 | 89 |
| 3 | 84 | 74 | 80 | 66 | 74 | 83 | 148 | 272 | 279 | 121 | 82 | 86 |
| 4 | 80 | 72 | 76 | 64 | 69 | 80 | 135 | 327 | 280 | 118 | 82 | 84 |
| 5 | 79 | 72 | 77 | 66 | 66 | 80 | 126 | 326 | 262 | 115 | 84 | 79 |
| 6 | 78 | 71 | 77 | 64 | 69 | 75 | 119 | 307 | 249 | 113 | 89 | 73 |
| 7 | 86 | 70 | 75 | e62 | e62 | 76 | 118 | 281 | 229 | 112 | 94 | 74 |
| 8 | 96 | 71 | 76 | e62 | e62 | 78 | 115 | 264 | e222 | 112 | 94 | 77 |
| 9 | 102 | 74 | e69 | e61 | e62 | 99 | 112 | 250 | e210 | 109 | 90 | 78 |
| 10 | 105 | 79 | 68 | 62 | e62 | 92 | 113 | 233 | e200 | 107 | 93 | 79 |
| 11 | 96 | 83 | 71 | 62 | e62 | 88 | 115 | 224 | e191 | 105 | 93 | 77 |
| 12 | 86 | 80 | e71 | 62 | 61 | 84 | 112 | 224 | e182 | 102 | 134 | 76 |
| 13 | 82 | 83 | e70 | 61 | 64 | 79 | 121 | 223 | 179 | 98 | 110 | 74 |
| 14 | 82 | 76 | e70 | 60 | 69 | 76 | 122 | 233 | 176 | 98 | 106 | 74 |
| 15 | 80 | 74 | e70 | 65 | 90 | 74 | 118 | 254 | 164 | 104 | 104 | 74 |
| 16 | 80 | 79 | e69 | 62 | 102 | 76 | 122 | 275 | 159 | 112 | 98 | 74 |
| 17 | 78 | 82 | e68 | 64 | 152 | 74 | 124 | 264 | 152 | 106 | 94 | 72 |
| 18 | 78 | 80 | e67 | 64 | 161 | 72 | 123 | 267 | 152 | 109 | 89 | 72 |
| 19 | 76 | e71 | e66 | 65 | 310 | 69 | 117 | 286 | 146 | 107 | 88 | 71 |
| 20 | 76 | e70 | e66 | 67 | 158 | 69 | 113 | 322 | 140 | 106 | 90 | 72 |
| 21 | 76 | 78 | 65 | 63 | 99 | 67 | 113 | 343 | 137 | 106 | 88 | 73 |
| 22 | 86 | 72 | e64 | 63 | 86 | 67 | 118 | 345 | 135 | 113 | 87 | 73 |
| 23 | 80 | 79 | e64 | 63 | 84 | 70 | 142 | 334 | 131 | 117 | 104 | 84 |
| 24 | 80 | 80 | 63 | 62 | 87 | 73 | 162 | 336 | 130 | 113 | 92 | 106 |
| 25 | 79 | 80 | 62 | 60 | 86 | 74 | 172 | 334 | 131 | 105 | 91 | 117 |
| 26 | 78 | 80 | e61 | 63 | 87 | 77 | 180 | 346 | 126 | 101 | 93 | 102 |
| 27 | 77 | 76 | e61 | 64 | 87 | 81 | 177 | 364 | 118 | 97 | 90 | 90 |
| 28 | 76 | 78 | e61 | 66 | 84 | 90 | 176 | 364 | 116 | 94 | 89 | 93 |
| 29 | 76 | 83 | e61 | 68 | --- | 99 | 179 | 354 | 114 | 87 | 95 | 90 |
| 30 | 77 | 85 | 63 | 68 | --- | 104 | 192 | 346 | 115 | 87 | 93 | 90 |
| 31 | 75 | --- | 64 | 102 | --- | 106 | --- | 335 | --- | 87 | 90 | --- |
| TOTAL | 2549 | 2299 | 2136 | 2004 | 2611 | 2497 | 4039 | 9088 | 5440 | 3289 | 2891 | 2463 |
| MEAN | 82.2 | 76.6 | 68.9 | 64.6 | 93.3 | 80.5 | 135 | 293 | 181 | 106 | 93.3 | 82.1 |
| MAX | 105 | 85 | 81 | 102 | 310 | 106 | 192 | 364 | 319 | 121 | 134 | 117 |
| MIN | 75 | 70 | 61 | 60 | 61 | 67 | 112 | 215 | 114 | 87 | 80 | 71 |
| ACFT | 5060 | 4560 | 4240 | 3970 | 5180 | 4950 | 8010 | 18030 | 10790 | 6520 | 5730 | 4890 |
| CAL YR 1985 | TOTAL | 49359 | MEAN | 135 | MAX | 587 | MIN | 40 | ACFT | 97900 | | |
| WTR YR 1986 | TOTAL | 41306 | MEAN | 113 | MAX | 364 | MIN | 60 | ACFT | 81930 | | |

e Estimated.

SEVIER LAKE BASIN

309

10174500 SEVIER RIVER AT HATCH, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1985 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: January 1985 to current year.

EXTREMES FOR PERIOD OF RECORD:

SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,200 mg/L Feb. 19, 1986; minimum daily mean, 5 mg/L several days during July, 1986.

SEDIMENT LOADS: Maximum daily, 1,840 tons Feb. 19, 1986; minimum daily, 1.2 tons July 29, 31, 1986.

EXTREMES FOR CURRENT YEAR:

SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,200 mg/L Feb. 19; minimum daily mean, 5 mg/L several days during July.

SEDIMENT LOADS: Maximum daily, 1,840 tons Feb. 19; minimum daily, 1.2 tons July 29, 31.

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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 | 18 | 3.9 | 18 | 3.5 | 20 | 4.3 | 15 | 2.5 | 160 | 35 | 32 | 7.2 |
| 2 | 19 | 4.3 | 18 | 3.6 | 25 | 5.5 | 15 | 2.5 | 51 | 10 | 30 | 6.6 |
| 3 | 18 | 4.1 | 19 | 3.8 | 28 | 6.0 | 13 | 2.3 | 51 | 10 | 29 | 6.5 |
| 4 | 17 | 3.7 | 19 | 3.7 | 33 | 6.8 | 11 | 1.9 | 52 | 9.7 | 28 | 6.0 |
| 5 | 17 | 3.6 | 19 | 3.7 | 50 | 10 | 11 | 2.0 | 34 | 6.1 | 29 | 6.3 |
| 6 | 16 | 3.4 | 18 | 3.5 | 46 | 9.6 | 17 | 2.9 | 31 | 5.8 | 31 | 6.3 |
| 7 | 25 | 5.8 | 16 | 3.0 | 45 | 9.1 | 15 | 2.5 | 29 | 4.9 | 26 | 5.3 |
| 8 | 40 | 10 | 19 | 3.6 | 34 | 7.0 | 14 | 2.3 | 29 | 4.9 | 51 | 11 |
| 9 | 40 | 11 | 19 | 3.8 | 25 | 4.7 | 15 | 2.5 | 29 | 4.9 | 71 | 19 |
| 10 | 27 | 7.7 | 18 | 3.8 | 28 | 5.1 | 15 | 2.5 | 35 | 5.9 | 39 | 9.7 |
| 11 | 21 | 5.4 | 17 | 3.8 | 32 | 6.1 | 12 | 2.0 | 40 | 6.7 | 33 | 7.8 |
| 12 | 20 | 4.6 | 17 | 3.7 | 42 | 8.1 | 12 | 2.0 | 32 | 5.3 | 31 | 7.0 |
| 13 | 18 | 4.0 | 20 | 4.5 | 35 | 6.6 | 11 | 1.8 | 28 | 4.8 | 30 | 6.4 |
| 14 | 17 | 3.8 | 21 | 4.3 | 42 | 7.9 | 10 | 1.6 | 48 | 8.9 | 28 | 5.7 |
| 15 | 16 | 3.5 | 29 | 5.8 | 44 | 8.3 | 10 | 1.8 | 90 | 22 | 25 | 5.0 |
| 16 | 15 | 3.2 | 29 | 6.2 | 45 | 8.4 | 11 | 1.8 | 780 | 215 | 21 | 4.3 |
| 17 | 14 | 2.9 | 22 | 4.9 | 35 | 6.4 | 12 | 2.1 | 1400 | 575 | 23 | 4.6 |
| 18 | 13 | 2.7 | 23 | 5.0 | 30 | 5.4 | 17 | 2.9 | 790 | 343 | 15 | 2.9 |
| 19 | 11 | 2.3 | 27 | 5.2 | 28 | 5.0 | 20 | 3.5 | 2200 | 1840 | 33 | 6.1 |
| 20 | 11 | 2.3 | 28 | 5.3 | 22 | 3.9 | 21 | 3.8 | 600 | 256 | 28 | 5.2 |
| 21 | 10 | 2.1 | 27 | 5.7 | 21 | 3.7 | 22 | 3.7 | 100 | 27 | 13 | 2.4 |
| 22 | 15 | 3.5 | 26 | 5.1 | 21 | 3.6 | 21 | 3.6 | 48 | 11 | 15 | 2.7 |
| 23 | 16 | 3.5 | 27 | 5.8 | 20 | 3.5 | 21 | 3.6 | 41 | 9.3 | 17 | 3.2 |
| 24 | 14 | 3.0 | 29 | 6.3 | 19 | 3.2 | 20 | 3.3 | 62 | 15 | 15 | 3.0 |
| 25 | 13 | 2.8 | 30 | 6.5 | 17 | 2.8 | 20 | 3.2 | 68 | 16 | 19 | 3.8 |
| 26 | 12 | 2.5 | 15 | 3.2 | 15 | 2.5 | 21 | 3.6 | 62 | 15 | 19 | 4.0 |
| 27 | 12 | 2.5 | 17 | 3.5 | 11 | 1.8 | 25 | 4.3 | 58 | 14 | 28 | 6.1 |
| 28 | 13 | 2.7 | 18 | 3.8 | 10 | 1.6 | 30 | 5.3 | 41 | 9.3 | 45 | 11 |
| 29 | 14 | 2.9 | 19 | 4.3 | 10 | 1.6 | 62 | 11 | --- | --- | 68 | 18 |
| 30 | 17 | 3.5 | 21 | 4.8 | 12 | 2.0 | 63 | 12 | --- | --- | 83 | 23 |
| 31 | 17 | 3.4 | --- | --- | 15 | 2.6 | 220 | 61 | --- | --- | 75 | 21 |
| TOTAL | --- | 124.6 | --- | 133.7 | --- | 163.1 | --- | 161.8 | --- | 3490.5 | --- | 237.1 |

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DAY | MEAN | LOADS | MEAN | LOADS | MEAN | LOADS | MEAN | LOADS | MEAN | LOADS | MEAN | LOADS |
|----------------------|-------------------------|---------------|-------------------------|-------|-------------------------|-------|-------------------------|-------|-------------------------|--------|-------------------------|-------|
| | CONCENTRATION (MG/L) | | CONCENTRATION (MG/L) | | CONCENTRATION (MG/L) | | CONCENTRATION (MG/L) | | CONCENTRATION (MG/L) | | CONCENTRATION (MG/L) | |
| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
| 1 | 90 | 27 | 220 | 128 | 71 | 61 | 11 | 3.4 | 6 | 1.4 | 58 | 14 |
| 2 | 221 | 85 | 340 | 220 | 70 | 56 | 10 | 3.1 | 12 | 2.6 | 31 | 7.4 |
| 3 | 145 | 58 | 460 | 338 | 71 | 53 | 51 | 17 | 15 | 3.3 | 21 | 4.9 |
| 4 | 112 | 41 | 450 | 397 | 73 | 55 | 42 | 13 | 14 | 3.1 | 20 | 4.5 |
| 5 | 87 | 30 | 380 | 334 | 59 | 42 | 19 | 5.9 | 13 | 2.9 | 15 | 3.2 |
| 6 | 68 | 22 | 235 | 195 | 66 | 44 | 20 | 6.1 | 130 | 31 | 15 | 3.0 |
| 7 | 65 | 21 | 162 | 123 | 80 | 49 | 18 | 5.4 | 840 | 213 | 11 | 2.2 |
| 8 | 53 | 16 | 116 | 83 | 50 | 30 | 21 | 6.4 | 100 | 25 | 12 | 2.5 |
| 9 | 42 | 13 | 105 | 71 | 42 | 24 | 10 | 2.9 | 70 | 17 | 10 | 2.1 |
| 10 | 46 | 14 | 100 | 63 | 59 | 32 | 5 | 1.4 | 28 | 7.0 | 20 | 4.3 |
| 11 | 49 | 15 | 87 | 53 | 32 | 17 | 6 | 1.7 | 63 | 16 | 19 | 4.0 |
| 12 | 51 | 15 | 81 | 49 | 31 | 15 | 5 | 1.4 | 520 | 188 | 19 | 3.9 |
| 13 | 50 | 16 | 102 | 61 | 30 | 14 | 5 | 1.3 | 428 | 127 | 15 | 3.0 |
| 14 | 42 | 14 | 95 | 60 | 29 | 14 | 5 | 1.3 | 148 | 42 | 11 | 2.2 |
| 15 | 42 | 13 | 125 | 86 | 24 | 11 | 15 | 4.2 | 68 | 19 | 10 | 2.0 |
| 16 | 67 | 22 | 103 | 76 | 21 | 9.0 | 48 | 15 | 51 | 13 | 15 | 3.0 |
| 17 | 60 | 20 | 81 | 58 | 20 | 8.2 | 21 | 6.0 | 53 | 13 | 12 | 2.3 |
| 18 | 42 | 14 | 165 | 119 | 21 | 8.6 | 18 | 5.3 | 57 | 14 | 9 | 1.7 |
| 19 | 38 | 12 | 170 | 131 | 22 | 8.7 | 19 | 5.5 | 49 | 12 | 12 | 2.3 |
| 20 | 31 | 9.5 | 208 | 181 | 19 | 7.2 | 18 | 5.2 | 68 | 17 | 21 | 4.1 |
| 21 | 29 | 8.8 | 207 | 192 | 15 | 5.5 | 19 | 5.4 | 33 | 7.8 | 20 | 3.9 |
| 22 | 39 | 12 | 180 | 168 | 13 | 4.7 | 20 | 6.1 | 60 | 14 | 25 | 4.9 |
| 23 | 92 | 35 | 150 | 135 | 11 | 4.2 | 19 | 6.0 | 1730 | 486 | 105 | 24 |
| 24 | 115 | 50 | 141 | 128 | 11 | 3.9 | 16 | 4.9 | 115 | 29 | 105 | 30 |
| 25 | 125 | 58 | 161 | 145 | 11 | 3.9 | 15 | 4.3 | 58 | 14 | 183 | 58 |
| 26 | 115 | 56 | 165 | 154 | 10 | 3.4 | 13 | 3.5 | 53 | 13 | 62 | 17 |
| 27 | 93 | 44 | 129 | 127 | 10 | 3.2 | 10 | 2.6 | 34 | 8.3 | 34 | 8.3 |
| 28 | 102 | 48 | 142 | 140 | 9 | 2.8 | 6 | 1.5 | 36 | 8.7 | 17 | 4.3 |
| 29 | 100 | 48 | 111 | 106 | 9 | 2.8 | 5 | 1.2 | 52 | 13 | 15 | 3.6 |
| 30 | 210 | 109 | 78 | 73 | 10 | 3.1 | 6 | 1.4 | 63 | 16 | 12 | 2.9 |
| 31 | --- | --- | 78 | 71 | --- | --- | 5 | 1.2 | 41 | 10 | --- | --- |
| TOTAL | --- | 946.3 | --- | 4265 | --- | 596.2 | --- | 149.6 | --- | 1387.1 | --- | 233.5 |
| TOTAL LOAD FOR YEAR: | | 11888.5 TONS. | | | | | | | | | | |

SEVIER LAKE BASIN

311

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 mi².

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 estimated daily values, which are poor. Many diversions above and below station.

AVERAGE DISCHARGE.--46 years (1914-22, 24, 1949-86), 150 ft³/s, 108,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,980 ft³/s Dec. 26, 1971, June 2, 1983, gage height, 7.06 ft; minimum daily, 18 ft³/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, 937 ft³/s Aug. 21, gage height, 4.41 ft; minimum, 60 ft³/s Sept. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|-------|------|--------|------|------|
| 1 | 119 | 153 | 185 | 123 | 176 | 151 | 188 | 154 | 288 | 76 | e70 | 108 |
| 2 | 121 | 151 | 183 | 128 | 156 | 150 | 208 | 161 | 274 | 79 | e69 | 102 |
| 3 | 114 | 152 | 178 | 142 | 153 | 151 | 233 | 197 | 275 | 83 | e68 | 100 |
| 4 | 114 | 150 | 167 | 145 | 146 | 145 | 223 | 256 | 257 | 88 | e67 | 94 |
| 5 | 109 | 149 | 162 | 143 | 138 | 143 | 219 | 298 | 241 | 95 | e66 | 91 |
| 6 | 112 | 146 | 169 | 142 | 139 | 141 | 203 | 268 | 198 | 95 | 69 | 89 |
| 7 | 120 | 143 | 160 | 126 | 133 | 140 | 190 | 229 | 184 | 93 | 85 | 89 |
| 8 | 138 | 139 | 158 | 142 | e130 | 143 | 179 | 218 | 172 | 89 | 85 | 80 |
| 9 | 174 | 135 | 149 | 137 | e128 | 157 | 168 | 210 | 164 | 83 | 79 | 67 |
| 10 | 211 | 137 | 140 | 143 | e125 | 168 | 155 | 191 | 158 | 76 | 78 | 79 |
| 11 | 217 | 146 | 147 | 137 | e132 | 162 | 142 | 174 | 142 | 76 | 72 | 73 |
| 12 | 166 | 178 | 142 | 135 | e138 | 159 | 130 | 157 | 131 | 75 | 80 | 71 |
| 13 | 161 | 156 | 150 | 133 | e149 | 159 | 132 | 154 | 125 | 73 | 123 | 77 |
| 14 | 161 | 157 | 157 | 131 | e158 | 167 | 138 | 146 | 120 | 73 | 110 | 85 |
| 15 | 159 | 134 | 143 | 134 | e168 | 149 | 125 | 165 | 103 | 73 | 88 | 74 |
| 16 | 158 | 154 | 139 | 142 | e180 | 144 | 99 | 222 | 100 | 73 | 93 | 79 |
| 17 | 160 | 173 | 136 | 141 | e193 | 140 | 104 | 246 | 89 | 81 | 88 | 88 |
| 18 | 161 | 174 | 135 | 146 | 286 | 132 | 112 | 239 | 86 | 80 | 90 | 80 |
| 19 | 164 | 155 | 130 | 145 | 306 | 128 | 109 | 233 | 80 | 82 | 86 | 71 |
| 20 | 163 | 171 | 145 | 150 | 481 | 127 | 103 | 257 | 78 | 78 | 80 | 62 |
| 21 | 163 | 166 | 154 | 146 | 231 | 130 | 95 | 287 | 81 | 91 | 210 | 62 |
| 22 | 163 | 170 | 146 | 140 | 183 | 131 | 93 | 307 | 86 | 89 | 123 | 65 |
| 23 | 160 | 167 | 142 | 142 | 172 | 130 | 91 | 306 | 85 | 102 | 107 | 70 |
| 24 | 155 | 176 | 136 | 140 | 167 | 132 | 107 | 305 | 91 | 111 | 103 | 128 |
| 25 | 154 | 181 | 132 | 135 | 172 | 130 | 123 | 291 | 98 | 102 | 106 | 117 |
| 26 | 161 | 197 | 125 | 135 | 169 | 131 | 157 | 288 | 112 | 85 | 95 | 145 |
| 27 | 162 | 180 | 123 | 139 | 163 | 132 | 150 | 305 | 104 | 82 | 100 | 126 |
| 28 | 153 | 180 | 123 | 137 | 156 | 142 | 146 | 312 | 84 | 78 | 106 | 124 |
| 29 | 150 | 188 | 122 | 140 | --- | 146 | 134 | 323 | 78 | 75 | 108 | 123 |
| 30 | 152 | 200 | 119 | 143 | --- | 157 | 140 | 307 | 78 | 72 | 116 | 115 |
| 31 | 154 | --- | 129 | 145 | --- | 159 | --- | 298 | --- | e71 | 114 | --- |
| TOTAL | 4729 | 4858 | 4526 | 4307 | 5028 | 4476 | 4396 | 7504 | 4162 | 2579 | 2934 | 2734 |
| MEAN | 153 | 162 | 146 | 139 | 180 | 144 | 147 | 242 | 139 | 83.2 | 94.6 | 91.1 |
| MAX | 217 | 200 | 185 | 150 | 481 | 168 | 233 | 323 | 288 | 111 | 210 | 145 |
| MIN | 109 | 134 | 119 | 123 | 125 | 127 | 91 | 146 | 78 | 71 | 66 | 62 |
| ACFT | 9380 | 9640 | 8980 | 8540 | 9970 | 8880 | 8720 | 14880 | 8260 | 5120 | 5820 | 5420 |
| CAL YR 1985 | TOTAL | 66151 | MEAN | 181 | MAX | 580 | MIN | 87 | ACFT | 131200 | | |
| WTR YR 1986 | TOTAL | 52233 | MEAN | 143 | MAX | 481 | MIN | 62 | ACFT | 103600 | | |

e Estimated.

SEVIER LAKE BASIN

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 mi².

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.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--72 years, 129 ft³/s, 93,460 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 3,000 ft³/s (including estimated flow of 360 ft³/s in overflow channel bypassing station), Mar. 4, 1938, gage height, 5.20 ft from rating curve extended above 600 ft³/s; minimum, 0.90 ft³/s July 26, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 634 ft³/s Feb. 20, gage height, 2.61 ft; minimum daily discharge, 17 ft³/s June 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|-------|-------|-------|-------|------|------|------|--------|------|------|
| 1 | 116 | 168 | 225 | 191 | 204 | 182 | 209 | 26 | 164 | 20 | 27 | 76 |
| 2 | 120 | 168 | 222 | 186 | 199 | 179 | 231 | 34 | 137 | 20 | 25 | 60 |
| 3 | 112 | 168 | 222 | 184 | 195 | 182 | 247 | 56 | 127 | 26 | 23 | 40 |
| 4 | 106 | 168 | 207 | 187 | 190 | 179 | 243 | 115 | 119 | 29 | 25 | 37 |
| 5 | 106 | 166 | 201 | 187 | 183 | 174 | 234 | 143 | 124 | 25 | 26 | 38 |
| 6 | 106 | 165 | 204 | 184 | 183 | 173 | 218 | 135 | 83 | 25 | 27 | 52 |
| 7 | 115 | 163 | 201 | 168 | 176 | 174 | 207 | 110 | 64 | 28 | 28 | 55 |
| 8 | 135 | 162 | 196 | 173 | 172 | 176 | 201 | 93 | 52 | 33 | 28 | 56 |
| 9 | 180 | 157 | 187 | 179 | 166 | 184 | 193 | 87 | 46 | 25 | 31 | 51 |
| 10 | 211 | 154 | 179 | 176 | 164 | 198 | 184 | 84 | 43 | 22 | 31 | 53 |
| 11 | 249 | 160 | 184 | 179 | 169 | 196 | 169 | 72 | 38 | 20 | 26 | 50 |
| 12 | 189 | 187 | 179 | 176 | 170 | 194 | 162 | 61 | 34 | 20 | 32 | 28 |
| 13 | 177 | 179 | 184 | 176 | 184 | 193 | 157 | 49 | 30 | 20 | 41 | 27 |
| 14 | 175 | 176 | 182 | 176 | 193 | 197 | 156 | 43 | 30 | 20 | 61 | 37 |
| 15 | 171 | 168 | 184 | 179 | 204 | 186 | 146 | 41 | 29 | 22 | 45 | 35 |
| 16 | 172 | 173 | 187 | 182 | 214 | 179 | 107 | 68 | 26 | 25 | 43 | 36 |
| 17 | 175 | 199 | 184 | 182 | 234 | 177 | 87 | 106 | 30 | 28 | 36 | 47 |
| 18 | 176 | 199 | 184 | 184 | 311 | 170 | 80 | 121 | 32 | 26 | 36 | 38 |
| 19 | 179 | 184 | 182 | 184 | 357 | 165 | 65 | 111 | 30 | 25 | 39 | 39 |
| 20 | 179 | 184 | 182 | 190 | 500 | 162 | 46 | 119 | 23 | 25 | 36 | 31 |
| 21 | 178 | 196 | 178 | 187 | 320 | 164 | 34 | 124 | 22 | 29 | 44 | 28 |
| 22 | 176 | 201 | 171 | 182 | 260 | 165 | 28 | 137 | 21 | 30 | 173 | 31 |
| 23 | 178 | 204 | 168 | 182 | 236 | 165 | 30 | 134 | 18 | 38 | 53 | 40 |
| 24 | 173 | 213 | 169 | 182 | 217 | 166 | 32 | 135 | 17 | 30 | 42 | 65 |
| 25 | 168 | 203 | 172 | 176 | 208 | 165 | 56 | 125 | 21 | 32 | 53 | 81 |
| 26 | 172 | 219 | 171 | 174 | 200 | 165 | 77 | 122 | 21 | 31 | 50 | 108 |
| 27 | 166 | 210 | 171 | 176 | 193 | 167 | 60 | 129 | 20 | 27 | 51 | 102 |
| 28 | 152 | 210 | 171 | 179 | 188 | 171 | 41 | 134 | 23 | 27 | 56 | 103 |
| 29 | 147 | 222 | 171 | 179 | --- | 178 | 43 | 145 | 21 | 27 | 56 | 86 |
| 30 | 148 | 237 | 184 | 182 | --- | 187 | 30 | 162 | 21 | 26 | 57 | 82 |
| 31 | 155 | --- | 193 | 184 | --- | 193 | --- | 161 | --- | 32 | 65 | --- |
| TOTAL | 4962 | 5563 | 5795 | 5606 | 6190 | 5506 | 3773 | 3182 | 1466 | 813 | 1366 | 1612 |
| MEAN | 160 | 185 | 187 | 181 | 221 | 178 | 126 | 103 | 48.9 | 26.2 | 44.1 | 53.7 |
| MAX | 249 | 237 | 225 | 191 | 500 | 198 | 247 | 162 | 164 | 38 | 173 | 108 |
| MIN | 106 | 154 | 168 | 168 | 164 | 162 | 28 | 26 | 17 | 20 | 23 | 27 |
| ACFT | 9840 | 11030 | 11490 | 11120 | 12280 | 10920 | 7480 | 6310 | 2910 | 1610 | 2710 | 3200 |
| CAL YR 1985 | TOTAL | 58629 | MEAN | 161 | MAX | 440 | MIN | 23 | ACFT | 116300 | | |
| WTR YR 1986 | TOTAL | 45834 | MEAN | 126 | MAX | 500 | MIN | 17 | ACFT | 90910 | | |

SEVIER LAKE BASIN

313

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 mi².

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 except for estimated daily discharges, which are poor. No diversions above station.

AVERAGE DISCHARGE.--25 years, 17.8 ft³/s, 12,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 448 ft³/s May 23, 1980, gage height, 3.28 ft; no flow for several days in February and March 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*);

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|-----------------------------------|---------------------|----------|------|-----------------------------------|---------------------|
| Apr. 2 | 0130 | *64 | *2.09 | Sept. 24 | 0200 | 60 | 2.06 |
| Aug. 22 | 2130 | 62 | 2.09 | | | | |

Minimum, 4.0 ft³/s Aug. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|------|------|------|-------|-------|-------|-------|
| 1 | 9.9 | 11 | e8.9 | e8.2 | e9.7 | e22 | 42 | 27 | 14 | 8.1 | 5.3 | 11 |
| 2 | 11 | 11 | e9.0 | e8.3 | e9.4 | e21 | 56 | 28 | 14 | 8.0 | 5.0 | 11 |
| 3 | 9.9 | 11 | e8.6 | e8.4 | e9.0 | e21 | 46 | 27 | 15 | 7.7 | 4.9 | 9.1 |
| 4 | 8.7 | 11 | e8.5 | e8.3 | e8.7 | e21 | 43 | 27 | 17 | 7.9 | 4.9 | 8.2 |
| 5 | 8.7 | 11 | e8.5 | e8.2 | e8.1 | e20 | 37 | 28 | 16 | 7.3 | 5.2 | 8.0 |
| 6 | 8.7 | 11 | e8.6 | e8.8 | e7.5 | e20 | 36 | 27 | 13 | 7.6 | 7.2 | 7.8 |
| 7 | 20 | 11 | e8.6 | e8.9 | e7.2 | e21 | 36 | 29 | 12 | 7.2 | 7.2 | 7.3 |
| 8 | 28 | 11 | e8.5 | e9.4 | e6.6 | e21 | 34 | 27 | 12 | 7.5 | 7.8 | 8.8 |
| 9 | 20 | 11 | e8.4 | e9.9 | e5.8 | e21 | 32 | 27 | 12 | 7.0 | 8.0 | 11 |
| 10 | 24 | 11 | e7.9 | e9.0 | e6.0 | e22 | 33 | 24 | 12 | 6.3 | 12 | 8.5 |
| 11 | 19 | 11 | e8.0 | e8.9 | e7.0 | e22 | 33 | 22 | 12 | 6.0 | 11 | 8.0 |
| 12 | 14 | 8.2 | e8.2 | e8.8 | e7.6 | e22 | 33 | 22 | 11 | 5.6 | 15 | 7.8 |
| 13 | 14 | e8.0 | e8.6 | e8.5 | e8.0 | e22 | 34 | 21 | 10 | 5.4 | 15 | 7.5 |
| 14 | 12 | e7.2 | e8.8 | e8.2 | e8.6 | e22 | 31 | 21 | 9.7 | 5.4 | 17 | 7.6 |
| 15 | 12 | e8.6 | e9.5 | e7.4 | e9.1 | e22 | 31 | 21 | 9.3 | 6.7 | 10 | 7.1 |
| 16 | 12 | e10 | e10 | e7.8 | e9.3 | e21 | 33 | 21 | 9.0 | 8.6 | 8.7 | 7.1 |
| 17 | 12 | e11 | e9.0 | e8.2 | e10 | e21 | 33 | 20 | 8.9 | 6.9 | 7.5 | 7.0 |
| 18 | 12 | e9.4 | e8.7 | e8.6 | e11 | e21 | 32 | 19 | 9.3 | 6.1 | 7.0 | 6.9 |
| 19 | 11 | e7.0 | e8.4 | e8.7 | e11 | e22 | 30 | 18 | 8.4 | 5.9 | 7.1 | 6.6 |
| 20 | 11 | e12 | e8.5 | e9.2 | e12 | e22 | 30 | 18 | 8.1 | 6.5 | 10 | 6.6 |
| 21 | 12 | e10 | e8.5 | e8.7 | e15 | e22 | 30 | 17 | 7.8 | 8.1 | 12 | 6.7 |
| 22 | 13 | e10 | e8.0 | e8.4 | e17 | e21 | 30 | 17 | 7.7 | 16 | 17 | 7.0 |
| 23 | 12 | e11 | e7.9 | e7.8 | e19 | e21 | 30 | 17 | 7.6 | 14 | 15 | 18 |
| 24 | 11 | e11 | e7.5 | e7.2 | e21 | e21 | 31 | 16 | 8.1 | 10 | 12 | 36 |
| 25 | 11 | e12 | e7.4 | e7.2 | e22 | e21 | 31 | 16 | 13 | 8.6 | 14 | 28 |
| 26 | 11 | e11 | e7.0 | e7.3 | e26 | e22 | 34 | 15 | 16 | 7.7 | 13 | 24 |
| 27 | 12 | e11 | e6.9 | e7.5 | e25 | e23 | 33 | 15 | 10 | 6.9 | 11 | 24 |
| 28 | 12 | e10 | e6.8 | e8.0 | e23 | e24 | 30 | 15 | 8.9 | 6.4 | 10 | 23 |
| 29 | 12 | e9.4 | e6.9 | e8.8 | --- | e25 | 28 | 15 | 8.4 | 6.0 | 12 | 22 |
| 30 | 11 | e8.9 | e7.3 | e9.2 | --- | 35 | 27 | 15 | 8.0 | 5.7 | 10 | 20 |
| 31 | 12 | --- | e8.1 | e9.8 | --- | 37 | --- | 14 | --- | 5.5 | 9.2 | --- |
| TOTAL | 406.9 | 306.7 | 255.5 | 261.6 | 339.6 | 699 | 1019 | 646 | 328.2 | 232.6 | 311.0 | 371.6 |
| MEAN | 13.1 | 10.2 | 8.24 | 8.44 | 12.1 | 22.5 | 34.0 | 20.8 | 10.9 | 7.50 | 10.0 | 12.4 |
| MAX | 28 | 12 | 10 | 9.9 | 26 | 37 | 56 | 29 | 17 | 16 | 17 | 36 |
| MIN | 8.7 | 7.0 | 6.8 | 7.2 | 5.8 | 20 | 27 | 14 | 7.6 | 5.4 | 4.9 | 6.6 |
| ACFT | 807 | 608 | 507 | 519 | 674 | 1390 | 2020 | 1280 | 651 | 461 | 617 | 737 |

| CAL YR 1985 | TOTAL | 6376.7 | MEAN | 17.5 | MAX | 77 | MIN | 6.7 | ACFT | 12650 |
|-------------|-------|--------|------|------|-----|----|-----|-----|------|-------|
| WTR YR 1986 | TOTAL | 5177.7 | MEAN | 14.2 | MAX | 56 | MIN | 4.9 | ACFT | 10270 |

e Estimated.

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 mi².

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 near the 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 provided 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 March, April, and May, gage height, 36.0 ft; minimum observed, 37,480 acre-ft Aug. 14, gage height, 29.5 ft.

MONTHEND ELEVATION, IN FEET, AND INSTANTANEOUS CONTENTS, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| Date | Elevation (feet) | Contents (acre-feet) | Change in contents (acre-feet) |
|-----------------------|---------------------|-------------------------|-----------------------------------|
| Sept. 30 | - | *41,800 | - |
| Oct. 31 | 33.1 | 45,570 | +3,770 |
| Nov. 30 | 34.6 | 49,190 | +3,620 |
| Dec. 31 | 35.0 | 50,170 | +980 |
| CAL YR 1985 | - | - | +980 |
| Jan. 31 | 35.0 | 50,170 | 0 |
| Feb. 28 | 35.8 | 52,160 | +1,990 |
| Mar. 31 | 36.0 | 52,260 | +500 |
| Apr. 30 | 35.9 | 52,410 | -250 |
| May 31 | 35.9 | 52,410 | 0 |
| June 30 | 34.3 | 48,460 | -3,950 |
| July 31 | 31.7 | 42,340 | -6,120 |
| Aug. 31 | 30.3 | 39,210 | -3,130 |
| Sept. 30 | 30.1 | 38,770 | -440 |
| WTR YR 1986 | - | - | -3,030 |

* No gage reading, contents interpolated.

SEVIER LAKE BASIN

315

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 mi².

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. July 30, 1970 to July 12, 1983, water stage recorder 60 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are 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.--73 years, 79.7 ft³/s, 57,740 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,030 ft³/s May 12, 1941, gage height, 5.05 ft; minimum, 1.0 ft³/s Jan. 25, 1976, gage height, 0.52 ft, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 281 ft³/s Feb. 19, gage height, 2.28 ft; minimum daily, 12 ft³/s Oct. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|------|------|-------|------|------|
| 1 | 19 | 19 | 119 | 90 | 118 | 118 | 152 | 66 | 63 | 96 | 94 | 43 |
| 2 | 18 | 18 | 118 | 91 | 118 | 106 | 168 | 61 | 60 | 100 | 96 | 43 |
| 3 | 18 | 18 | 120 | 92 | 123 | 97 | 152 | 64 | 50 | 100 | 97 | 43 |
| 4 | 18 | 17 | 114 | 92 | 125 | 104 | 150 | 97 | 54 | 99 | 98 | 44 |
| 5 | 18 | 17 | 112 | 96 | 125 | 100 | 170 | 94 | 55 | 99 | 97 | 45 |
| 6 | 16 | 17 | 115 | 97 | 127 | 82 | 167 | 82 | 52 | 101 | 97 | 45 |
| 7 | 16 | 16 | 110 | 97 | 124 | 113 | 166 | 86 | 48 | 103 | 98 | 46 |
| 8 | 17 | 16 | 57 | 96 | 116 | 110 | 164 | 84 | 36 | 106 | 100 | 46 |
| 9 | 19 | 16 | e58 | 95 | 115 | 116 | 165 | 83 | 35 | 105 | 103 | 47 |
| 10 | 21 | 15 | e58 | 94 | 116 | 120 | 164 | 81 | 36 | 106 | 103 | 47 |
| 11 | 21 | 15 | e60 | 95 | 113 | 129 | 162 | 81 | 34 | 105 | 104 | 48 |
| 12 | 14 | 16 | e64 | 96 | 112 | 126 | 161 | 83 | 34 | 103 | 101 | 49 |
| 13 | 12 | 16 | e67 | 98 | 113 | 133 | 161 | 83 | 34 | 101 | 99 | 50 |
| 14 | 16 | 15 | e71 | 101 | 115 | 131 | 159 | 88 | 34 | 99 | 100 | 50 |
| 15 | 14 | 15 | e73 | 128 | 123 | 131 | 174 | 90 | 32 | 98 | 97 | 49 |
| 16 | 18 | 16 | e75 | 125 | 131 | 131 | 167 | 99 | 32 | 99 | 100 | 52 |
| 17 | 17 | 15 | e77 | 124 | 138 | 136 | 164 | 94 | 69 | 96 | 99 | 52 |
| 18 | 17 | 14 | 78 | 125 | 161 | 136 | 160 | 90 | 67 | 94 | 99 | 52 |
| 19 | 17 | 36 | 78 | 122 | 229 | 133 | 149 | 94 | 97 | 96 | 100 | 51 |
| 20 | 18 | e82 | 79 | 121 | 200 | 133 | 147 | 96 | 94 | 97 | 64 | 49 |
| 21 | 18 | e92 | 82 | 123 | 194 | 130 | 140 | 95 | 95 | 100 | 52 | 51 |
| 22 | 18 | 99 | 84 | 122 | 203 | 125 | 138 | 97 | 98 | 100 | 50 | 52 |
| 23 | 18 | 107 | 85 | 123 | 203 | 129 | 143 | 99 | 102 | 99 | 50 | 52 |
| 24 | 18 | 109 | 84 | 120 | 203 | 131 | 108 | 97 | 106 | 97 | 50 | 59 |
| 25 | 18 | 113 | 84 | e119 | 186 | 135 | 101 | 96 | 105 | 97 | 48 | 55 |
| 26 | 18 | 113 | 85 | 116 | 183 | 139 | 105 | 97 | 104 | 97 | 45 | 55 |
| 27 | 18 | 112 | 84 | 116 | 168 | 140 | 96 | 92 | 102 | 93 | 43 | 57 |
| 28 | 18 | 112 | 85 | 115 | 107 | 142 | 88 | 83 | 101 | 89 | 43 | 59 |
| 29 | 18 | 114 | 86 | 115 | --- | 144 | 91 | 77 | 99 | 90 | 43 | 59 |
| 30 | 19 | 121 | 89 | 116 | --- | 146 | 88 | 74 | 97 | 91 | 43 | 58 |
| 31 | 18 | --- | 90 | 117 | --- | 150 | --- | 71 | --- | 92 | 44 | --- |
| TOTAL | 543 | 1501 | 2641 | 3377 | 4089 | 3896 | 4320 | 2674 | 2025 | 3048 | 2457 | 1508 |
| MEAN | 17.5 | 50.0 | 85.2 | 109 | 146 | 126 | 144 | 86.3 | 67.5 | 98.3 | 79.3 | 50.3 |
| MAX | 21 | 121 | 120 | 128 | 229 | 150 | 174 | 99 | 106 | 106 | 104 | 59 |
| MIN | 12 | 14 | 57 | 90 | 107 | 82 | 88 | 61 | 32 | 89 | 43 | 43 |
| ACFT | 1080 | 2980 | 5240 | 6700 | 8110 | 7730 | 8570 | 5300 | 4020 | 6050 | 4870 | 2990 |
| CAL YR 1985 | TOTAL | 40277 | MEAN | 110 | MAX | 464 | MIN | 12 | ACFT | 79890 | | |
| WTR YR 1986 | TOTAL | 32079 | MEAN | 87.9 | MAX | 229 | MIN | 12 | ACFT | 63630 | | |

e Estimated.

SEVIER LAKE BASIN

10191000 PIUTE RESERVOIR NEAR MARYSVALE, UT

LOCATION.--Lat $38^{\circ}19'26''$, long $112^{\circ}11'26''$, 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 mi².

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, 72,090 acre-ft Apr. 4, gage height, 76.1 ft; minimum observed, 4,760 acre-ft Oct. 12, gage height, 33.0 ft.

MONTHEND ELEVATION, IN FEET, AND INSTANTANEOUS CONTENTS, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| Date | Elevation (feet) | Contents (acre-feet) | Change in contents (acre-feet) |
|-----------------------|---------------------|-------------------------|-----------------------------------|
| Sept. 30 | 20.2 | 100 | - |
| Oct. 31 | 40.2 | 11,200 | +11,100 |
| Nov. 30 | 53.7 | 28,850 | +17,650 |
| Dec. 31 | 64.1 | 46,500 | +17,650 |
| CAL YR 1985 | - | - | -12,590 |
| Jan. 31 | 72.1 | 62,510 | +16,010 |
| Feb. 28 | 74.0 | 66,850 | +4,340 |
| Mar. 31 | 75.9 | 71,570 | +4,720 |
| Apr. 30 | 73.2 | 64,990 | -6,580 |
| May 31 | 72.6 | 63,630 | -1,360 |
| June 30 | 69.9 | 57,850 | -5,800 |
| July 31 | 61.3 | 41,430 | -16,400 |
| Aug. 31 | 49.2 | 22,060 | -19,170 |
| Sept. 30 | 49.8 | 23,100 | +840 |
| WTR YR 1986 | - | - | +23,000 |

SEVIER LAKE BASIN

317

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 mi².

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. Apr. 22, 1979 to Sept. 30, 1985, at datum 10.0 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Piute Reservoir (see station 10191000).

AVERAGE DISCHARGE.--74 years (1912-86), 219 ft³/s, 158,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,600 ft³/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 daily discharge, 645 ft³/s Aug. 10; minimum daily discharge, 3.0 ft³/s Nov. 11, 14, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|----------------|-------|----------|-------|----------|-------|---------|-------|-------------|-------|-------|--------|
| 1 | 188 | e4.3 | 7.6 | e3.3 | 90 | 297 | 310 | 396 | 19 | 560 | 368 | 239 |
| 2 | 194 | e3.6 | 6.2 | e3.3 | 104 | 297 | 312 | 387 | 20 | 568 | 419 | 216 |
| 3 | 190 | e3.3 | 5.1 | e3.3 | 115 | 297 | 340 | 342 | 25 | 575 | 461 | 176 |
| 4 | 176 | e3.2 | 7.6 | e3.4 | 124 | 297 | 448 | 290 | 61 | 575 | 506 | 176 |
| 5 | 163 | e3.1 | 11 | e3.4 | 134 | 297 | 530 | 283 | 60 | 567 | 589 | 152 |
| 6 | 151 | e3.1 | 6.8 | e3.5 | 142 | 297 | 497 | 323 | 38 | 543 | 629 | 127 |
| 7 | 143 | e3.1 | 5.6 | e3.7 | 145 | 297 | 416 | 335 | 19 | 508 | 620 | 127 |
| 8 | 160 | e3.1 | 4.8 | e3.8 | 145 | 297 | 416 | 286 | 31 | 507 | 618 | 143 |
| 9 | 232 | e3.2 | e3.7 | e4.0 | 145 | 293 | 415 | 286 | 71 | 507 | 628 | 150 |
| 10 | 141 | e3.1 | e3.5 | e4.1 | 145 | 291 | 358 | 282 | 78 | 507 | 645 | 178 |
| 11 | 11 | e3.0 | e3.4 | e4.3 | 145 | 291 | 313 | 259 | 84 | 506 | 639 | 149 |
| 12 | 11 | e3.1 | e3.4 | e4.5 | 145 | 291 | 314 | 259 | 141 | 549 | 606 | 120 |
| 13 | 7.9 | e3.1 | e3.5 | e4.7 | 161 | 291 | 313 | 243 | 79 | 556 | 584 | 107 |
| 14 | 6.4 | e3.0 | e3.4 | e5.2 | 190 | 292 | 313 | 270 | 36 | 546 | 557 | 122 |
| 15 | 5.3 | e3.0 | e3.4 | e6.0 | 201 | 297 | 312 | 316 | 90 | 537 | 490 | 130 |
| 16 | 5.9 | e3.2 | e3.3 | 7.2 | 209 | 297 | 310 | 259 | 145 | 482 | 449 | 128 |
| 17 | 9.2 | 3.2 | e12 | 7.2 | 177 | 297 | 312 | 208 | 209 | 428 | 455 | 124 |
| 18 | 7.6 | 3.2 | e3.4 | 7.6 | 212 | 295 | 310 | 170 | 179 | 367 | 455 | 124 |
| 19 | 6.2 | 3.2 | e3.3 | 7.6 | 265 | 291 | 308 | 145 | 176 | 347 | 451 | 124 |
| 20 | 5.6 | 3.5 | e3.4 | 7.6 | 424 | 141 | 317 | 145 | 215 | 346 | 501 | 111 |
| 21 | 5.3 | 5.0 | e3.3 | 7.9 | 539 | 19 | 340 | 95 | 271 | 331 | 515 | 104 |
| 22 | 5.6 | 28 | e3.3 | 7.9 | 566 | 19 | 383 | 19 | 394 | 227 | 449 | 99 |
| 23 | 7.9 | 34 | e3.3 | 7.9 | 570 | 19 | 416 | 79 | 413 | 177 | 390 | 84 |
| 24 | 10 | 39 | e3.3 | 8.3 | 570 | 19 | 436 | 80 | 474 | 159 | 360 | 83 |
| 25 | 10 | 46 | e3.3 | 7.9 | 572 | 19 | 435 | 61 | 534 | 120 | 309 | 81 |
| 26 | 10 | 49 | e3.3 | 9.2 | 441 | 19 | 435 | 61 | 537 | 124 | 244 | 81 |
| 27 | 9.6 | 51 | e3.3 | 12 | 313 | 19 | 434 | 35 | 536 | 124 | 239 | 81 |
| 28 | 8.4 | 54 | e3.3 | e17 | 290 | 61 | 430 | 19 | 537 | 148 | 269 | 78 |
| 29 | 6.8 | 57 | e3.3 | e25 | --- | 308 | 428 | 19 | 554 | 188 | 247 | 46 |
| 30 | 5.9 | 27 | e3.3 | e34 | --- | 308 | 412 | 19 | 564 | 196 | 197 | 9.3 |
| 31 | 5.1 | --- | e3.3 | e63 | --- | 308 | --- | 19 | --- | 272 | 205 | --- |
| TOTAL | 1898.7 | 454.6 | 140.7 | 297.8 | 7279 | 6861 | 11313 | 5990 | 6590 | 12147 | 14094 | 3669.3 |
| MEAN | 61.2 | 15.2 | 4.54 | 9.61 | 260 | 221 | 377 | 193 | 220 | 392 | 455 | 122 |
| MAX | 232 | 57 | 12 | 63 | 572 | 308 | 530 | 396 | 564 | 575 | 645 | 239 |
| MIN | 5.1 | 3.0 | 3.3 | 3.3 | 90 | 19 | 308 | 19 | 19 | 120 | 197 | 9.3 |
| ACFT | 3770 | 902 | 279 | 591 | 14440 | 13610 | 22440 | 11880 | 13070 | 24090 | 27960 | 7280 |
| CAL YR 1985 | TOTAL 114441.1 | | MEAN 314 | | MAX 1150 | | MIN 3.0 | | ACFT 227000 | | | |
| WTR YR 1986 | TOTAL 70735.1 | | MEAN 194 | | MAX 645 | | MIN 3.0 | | ACFT 140300 | | | |

e Estimated.

SEVIER LAKE BASIN

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 mi².

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 except for estimated daily discharges, which are poor. Many diversions above station for irrigation. Flow regulated by Piute Reservoir.

AVERAGE DISCHARGE.--46 years (1912-16, 1939-55, 1960-86), 248 ft³/s, 179,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--(Not including flow of Clear Creek): Maximum discharge, 2,500 ft³/s June 3, 1983, gage height, 4.82 ft; minimum, 2.3 ft³/s Dec. 13, 1964. 1916-29 (including flow of Clear Creek): Maximum discharge, 2,800 ft³/s during last week of May 1922, computed on basis of records for station near Marysville; minimum, 9.8 ft³/s March 1975.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 664 ft³/s Aug. 10, 11; minimum daily discharge, 15 ft³/s Jan. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1 | 234 | e29 | 72 | 46 | 113 | e380 | 365 | 446 | 256 | 636 | 296 | 296 |
| 2 | 240 | e28 | 46 | 43 | 120 | e318 | 379 | 453 | 243 | 626 | 458 | e290 |
| 3 | 243 | e28 | 46 | 31 | 134 | e318 | 376 | 451 | 229 | 641 | 499 | e296 |
| 4 | 239 | e28 | 42 | 25 | 141 | e330 | 436 | 453 | 262 | 649 | 516 | e300 |
| 5 | 230 | e28 | 42 | 21 | 149 | e340 | 528 | 382 | 374 | 643 | 575 | e280 |
| 6 | 218 | e28 | 51 | 17 | 152 | 349 | 542 | 386 | 381 | 620 | 637 | e260 |
| 7 | 204 | 29 | 39 | 15 | 176 | 349 | 482 | 418 | 334 | 580 | 655 | e240 |
| 8 | 189 | 30 | 35 | 33 | 176 | 344 | 451 | 390 | 288 | 561 | 649 | e220 |
| 9 | 180 | 31 | 34 | 33 | 165 | 349 | 450 | 368 | 250 | 551 | 646 | e205 |
| 10 | 177 | 30 | 34 | e27 | 173 | 343 | 445 | 357 | 217 | 543 | 664 | e212 |
| 11 | 139 | 30 | e33 | e32 | 168 | 345 | 373 | 338 | 189 | 534 | 664 | e222 |
| 12 | 59 | 34 | e21 | e19 | 170 | 346 | 361 | 262 | 171 | 533 | 658 | e225 |
| 13 | 51 | 31 | e33 | e18 | 173 | 346 | 359 | 213 | 161 | 571 | 636 | e230 |
| 14 | 45 | 30 | e33 | e18 | 182 | 344 | 362 | 167 | 151 | 561 | 613 | e220 |
| 15 | 42 | 29 | e33 | e18 | 202 | 340 | 358 | 334 | 141 | 571 | 576 | e175 |
| 16 | 40 | 29 | e33 | 18 | 205 | 339 | 357 | 384 | 133 | 562 | 512 | e168 |
| 17 | 38 | 31 | e33 | 20 | 199 | 337 | 360 | 299 | 296 | 509 | 498 | e167 |
| 18 | 37 | 33 | e33 | 31 | 175 | 332 | 363 | 222 | 369 | 451 | 496 | e162 |
| 19 | 36 | 36 | e44 | 36 | e180 | 328 | 355 | 169 | 371 | 413 | 495 | e150 |
| 20 | 35 | 47 | e37 | 42 | e210 | 323 | 353 | 128 | 359 | 427 | 496 | e134 |
| 21 | e31 | 32 | e33 | 37 | e260 | 194 | 373 | 96 | 406 | 416 | 568 | e131 |
| 22 | e28 | 41 | e32 | 36 | e350 | 54 | 390 | 73 | 470 | 383 | 545 | e122 |
| 23 | e31 | 54 | e32 | 36 | e560 | 48 | 424 | 53 | 531 | 287 | 477 | e115 |
| 24 | e35 | 66 | e32 | 34 | e620 | 45 | 463 | 53 | 558 | e240 | 438 | e108 |
| 25 | e38 | 72 | e29 | 33 | e620 | 42 | 467 | 48 | 599 | e195 | 422 | e97 |
| 26 | e39 | 74 | e27 | 37 | e610 | 42 | 468 | 41 | 630 | e190 | 356 | e94 |
| 27 | e39 | 79 | e30 | 47 | e600 | 42 | 467 | 293 | 623 | e191 | 322 | e94 |
| 28 | e38 | 85 | e32 | 62 | e520 | 43 | 466 | 357 | 624 | e190 | 311 | e93 |
| 29 | e36 | 95 | e33 | 76 | --- | 168 | 461 | 359 | 623 | e200 | 342 | e86 |
| 30 | e33 | 107 | e35 | 90 | --- | 340 | 465 | 333 | 647 | e225 | 337 | e65 |
| 31 | e31 | --- | e39 | 103 | --- | 357 | --- | 290 | --- | e250 | 316 | --- |
| TOTAL | 3055 | 1324 | 1128 | 1134 | 7507 | 8175 | 12499 | 8616 | 10886 | 13949 | 15673 | 5457 |
| MEAN | 98.5 | 44.1 | 36.4 | 36.6 | 268 | 264 | 417 | 278 | 363 | 450 | 506 | 182 |
| MAX | 243 | 107 | 72 | 103 | 620 | 380 | 542 | 453 | 647 | 649 | 664 | 300 |
| MIN | 28 | 28 | 21 | 15 | 113 | 42 | 353 | 41 | 133 | 190 | 296 | 65 |
| ACFT | 6060 | 2630 | 2240 | 2250 | 14890 | 16220 | 24790 | 17090 | 21590 | 27670 | 31090 | 10820 |
| CAL YR 1985 | TOTAL | 133671 | MEAN | 366 | MAX | 1260 | MIN | 21 | ACFT | 265100 | | |
| WTR YR 1986 | TOTAL | 89403 | MEAN | 245 | MAX | 664 | MIN | 15 | ACFT | 177300 | | |

e Estimated.

SEVIER LAKE BASIN

319

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 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 5,680 ft from topographic map.

REMARKS.--Records fair. Small diversions for irrigation above station. Flow regulated by several small reservoirs, combined capacity about 1,000 acre-ft, at headwaters.

AVERAGE DISCHARGE.--29 years, 39.0 ft³/s, 28,260 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 769 ft³/s Apr. 29, 1973, gage height, 4.41 ft; minimum, 1.5 ft³/s Feb. 21, 1976, gage height, 0.85 ft, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 414 ft³/s May 28, gage height 1.91 ft; minimum, 4.4 ft³/s Feb. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|------|-------|------|------|------|-------|-------|-------|------|------|
| 1 | 15 | 17 | 20 | 12 | 21 | 28 | 99 | 246 | 355 | 80 | 24 | 21 |
| 2 | 15 | 17 | 22 | 14 | 19 | 28 | 110 | 276 | 346 | 75 | 23 | 20 |
| 3 | 15 | 17 | 21 | 14 | 19 | 28 | 105 | 312 | 364 | 73 | e21 | 20 |
| 4 | 15 | 17 | 19 | 14 | 17 | 28 | 116 | 306 | 369 | 77 | e20 | 19 |
| 5 | 15 | 17 | 18 | 14 | 16 | 29 | 122 | 283 | 375 | 77 | e19 | 18 |
| 6 | 15 | 17 | 19 | 16 | 16 | 29 | 135 | 243 | 397 | 69 | e21 | 17 |
| 7 | 17 | 17 | 17 | 13 | e17 | 31 | 139 | 206 | 364 | 62 | e22 | 15 |
| 8 | 23 | 17 | 17 | 9.5 | e15 | 32 | 128 | 196 | 351 | e56 | e20 | 14 |
| 9 | 25 | e16 | 15 | 12 | e14 | 39 | 117 | 212 | 342 | e54 | e24 | 14 |
| 10 | 23 | e17 | e15 | 13 | e13 | 36 | 107 | 217 | 276 | e52 | e23 | 17 |
| 11 | 22 | e16 | e16 | e15 | e15 | 37 | 106 | 211 | 278 | 52 | e20 | 17 |
| 12 | 20 | e17 | e16 | e14 | e16 | 35 | 103 | 174 | 275 | 52 | e21 | 16 |
| 13 | 25 | e12 | e16 | e14 | e19 | 35 | 107 | 154 | 315 | 51 | 26 | 15 |
| 14 | 21 | 17 | e17 | e16 | e20 | 36 | 102 | 155 | 339 | 50 | 23 | 14 |
| 15 | 20 | 16 | e17 | e18 | e24 | 32 | 99 | 235 | 338 | 49 | 21 | 14 |
| 16 | 20 | 17 | e18 | e16 | e21 | 38 | 99 | 281 | 337 | 52 | e19 | 14 |
| 17 | 19 | 18 | e18 | e15 | e19 | 36 | 102 | 239 | 324 | 47 | e19 | 13 |
| 18 | 19 | 17 | e18 | e16 | e22 | 33 | 110 | 242 | 307 | e46 | e18 | 13 |
| 19 | 19 | 14 | e18 | e18 | e26 | 36 | 112 | 242 | 283 | e45 | e18 | 14 |
| 20 | 18 | 19 | e19 | e19 | e23 | 38 | 127 | 279 | 266 | e44 | e19 | 13 |
| 21 | 18 | 17 | e18 | e18 | e21 | 42 | 138 | 338 | 237 | e43 | 38 | 13 |
| 22 | 22 | 20 | e17 | e16 | e23 | 53 | 136 | 377 | e200 | e42 | 39 | 13 |
| 23 | 20 | 19 | e17 | e17 | 24 | 65 | 140 | 373 | e170 | e41 | 32 | 14 |
| 24 | 19 | 20 | e17 | 15 | 26 | 75 | 193 | 346 | e140 | 42 | 30 | 17 |
| 25 | 19 | 20 | e18 | 15 | 29 | 81 | 160 | 343 | e84 | 39 | 34 | 26 |
| 26 | 18 | 19 | e16 | 17 | 30 | 85 | 175 | 371 | 88 | 35 | 30 | 30 |
| 27 | 18 | 17 | e15 | 19 | 31 | 89 | 131 | 388 | 93 | 31 | 26 | 23 |
| 28 | 18 | 17 | e13 | 17 | 29 | 86 | 131 | 393 | 91 | 29 | 24 | 20 |
| 29 | 18 | 20 | e15 | 18 | --- | 85 | 128 | 397 | 86 | 27 | 27 | 20 |
| 30 | 17 | 21 | e18 | 19 | --- | 82 | 176 | 376 | 82 | 25 | 25 | 20 |
| 31 | 18 | --- | e20 | 22 | --- | 96 | --- | 355 | --- | 25 | 22 | --- |
| TOTAL | 586 | 522 | 540 | 485.5 | 585 | 1503 | 3753 | 8766 | 7872 | 1542 | 748 | 514 |
| MEAN | 18.9 | 17.4 | 17.4 | 15.7 | 20.9 | 48.5 | 125 | 283 | 262 | 49.7 | 24.1 | 17.1 |
| MAX | 25 | 21 | 22 | 22 | 31 | 96 | 193 | 397 | 397 | 80 | 39 | 30 |
| MIN | 15 | 12 | 13 | 9.5 | 13 | 28 | 99 | 154 | 82 | 25 | 18 | 13 |
| ACFT | 1160 | 1040 | 1070 | 963 | 1160 | 2980 | 7440 | 17390 | 15610 | 3060 | 1480 | 1020 |
| CAL YR 1985 | TOTAL | 23700.4 | MEAN | 64.9 | MAX | 450 | MIN | 7.0 | ACFT | 47010 | | |
| WTR YR 1986 | TOTAL | 27416.5 | MEAN | 75.1 | MAX | 397 | MIN | 9.5 | ACFT | 54380 | | |

e Estimated.

SEVIER LAKE BASIN

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 mi².

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 except for estimated daily discharges, which are poor. 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.--72 years, 111 ft³/s, 80,420 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,400 ft³/s May 30, 1922, gage height, 6.1 ft, present datum, from rating curve extended above 600 ft³/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, 645 ft³/s Apr. 7, gage height, 3.68 ft; minimum daily, 0.50 ft³/s July 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|----------|------|------|-------|-------|-------|------|--------|--------|--------|------|
| 1 | 308 | 112 | 251 | 158 | 221 | 458 | 502 | 22 | 51 | .90 | 20 | 94 |
| 2 | 296 | 102 | 244 | 153 | 237 | 439 | 494 | 20 | 40 | 2.5 | 15 | 95 |
| 3 | 287 | 103 | 247 | 154 | 251 | 436 | 495 | 44 | 32 | 2.9 | 21 | 87 |
| 4 | 274 | 100 | 244 | 153 | 264 | 434 | 488 | 77 | 29 | 3.4 | 24 | 89 |
| 5 | 257 | 100 | 218 | 153 | 266 | 432 | 503 | 96 | 25 | 3.7 | 13 | 82 |
| 6 | 245 | 99 | 197 | 154 | 278 | 432 | 572 | 118 | 32 | 3.7 | 5.6 | 64 |
| 7 | 240 | 98 | 188 | 152 | 290 | 429 | 630 | 44 | 110 | 4.5 | 5.9 | 71 |
| 8 | 243 | 100 | 185 | 144 | 291 | 430 | 633 | 20 | 100 | 4.6 | 13 | 68 |
| 9 | 286 | 110 | 175 | 140 | 294 | 429 | 604 | 16 | 30 | 4.6 | 15 | 68 |
| 10 | 332 | 109 | 167 | 143 | 296 | 432 | 546 | 32 | 22 | 2.9 | 14 | 80 |
| 11 | 356 | 108 | 159 | 146 | 301 | 436 | 461 | 59 | 39 | 1.8 | 14 | 88 |
| 12 | 281 | 119 | 146 | 151 | 320 | 440 | 456 | 43 | 40 | 6.50 | 20 | 89 |
| 13 | 175 | 119 | 139 | 151 | 341 | 444 | 403 | 32 | 37 | 6.50 | 36 | 102 |
| 14 | 162 | 124 | 136 | 150 | 372 | 309 | 372 | 28 | 68 | 2.0 | 32 | 95 |
| 15 | 160 | 110 | 135 | 152 | 382 | 210 | 329 | 40 | 123 | 2.6 | 16 | 82 |
| 16 | 154 | 106 | 133 | 171 | 391 | 380 | 271 | 73 | 46 | 3.6 | 8.3 | 77 |
| 17 | 149 | 138 | 130 | 175 | 392 | 456 | 146 | 220 | 33 | 4.9 | 7.1 | 80 |
| 18 | 126 | 141 | 132 | 170 | 388 | 449 | 87 | 237 | 76 | 5.1 | 6.6 | 88 |
| 19 | 115 | 138 | 146 | 173 | 373 | 447 | 178 | 109 | 83 | 5.4 | 7.1 | 93 |
| 20 | 111 | 134 | 154 | 169 | 374 | 449 | 185 | 156 | 28 | 5.4 | 8.6 | 97 |
| 21 | 116 | 135 | 140 | 167 | 430 | 446 | 139 | 160 | 16 | 6.7 | 18 | 101 |
| 22 | 118 | 139 | 137 | 161 | 509 | 272 | 90 | 189 | 15 | 9.2 | 37 | 113 |
| 23 | 119 | 151 | 135 | 160 | 566 | 54 | 59 | 215 | 14 | 35 | 65 | 124 |
| 24 | 127 | 165 | 133 | 161 | 578 | 214 | 36 | 110 | 14 | 80 | 72 | 132 |
| 25 | 126 | 182 | 135 | 158 | 579 | 241 | 30 | 131 | 12 | 56 | 44 | 157 |
| 26 | 126 | 190 | 133 | 154 | 581 | 224 | 33 | 157 | 11 | 43 | 19 | 172 |
| 27 | 122 | 184 | 130 | 157 | 582 | 219 | 41 | 127 | 9.9 | 55 | 49 | 211 |
| 28 | 114 | 185 | 132 | 166 | 525 | 198 | 45 | 209 | 4.2 | 58 | 70 | 221 |
| 29 | 112 | 201 | 134 | 176 | --- | 236 | 39 | 212 | 4.5 | 50 | 60 | 222 |
| 30 | 112 | 237 | 141 | 187 | --- | 228 | 27 | 141 | 1.1 | 36 | 54 | 224 |
| 31 | 115 | --- | 153 | 204 | --- | 409 | --- | 92 | --- | 28 | 63 | --- |
| TOTAL | 5864 | 4039 | 5029 | 4963 | 10672 | 11112 | 8894 | 3229 | 1145.7 | 522.40 | 853.2 | 3366 |
| MEAN | 189 | 135 | 162 | 160 | 381 | 358 | 296 | 104 | 38.2 | 16.9 | 27.5 | 112 |
| MAX | 356 | 237 | 251 | 204 | 582 | 458 | 633 | 237 | 123 | 80 | 72 | 224 |
| MIN | 111 | 98 | 130 | 140 | 221 | 54 | 27 | 16 | 1.1 | .50 | 5.6 | 64 |
| ACFT | 11630 | 8010 | 9980 | 9840 | 21170 | 22040 | 17640 | 6400 | 2270 | 1040 | 1690 | 6680 |
| CAL YR 1985 | TOTAL | 108753 | | MEAN | 298 | MAX | 919 | MIN | 11 | ACFT | 215700 | |
| WTR YR 1986 | TOTAL | 59689.30 | | MEAN | 164 | MAX | 633 | MIN | .50 | ACFT | 118400 | |

e Estimated.

SEVIER LAKE BASIN

321

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 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 7,000 ft from topographic map. Prior to June 9, 1971, at site 300 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion above station. Slight regulation from small reservoirs at headwaters.

AVERAGE DISCHARGE.--23 years, 20.5 ft³/s, 14,850 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 621 ft³/s May 27, 1983, gage height, 5.44 ft; minimum discharge, 0.80 ft³/s Nov. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 60 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| May 3 | 2000 | 134 | 3.73 | May 28 | 2000 | *191 | *3.94 |
| May 12 | 1900 | 114 | 3.63 | | | | |

Minimum daily discharge, 7.8 ft³/s Jan. 6, Feb. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|-------|------|------|------|-------|------|------|
| 1 | 13 | 12 | e9.3 | e9.5 | 9.0 | e9.0 | 31 | 68 | 117 | 24 | 18 | 16 |
| 2 | 13 | 12 | e9.4 | e9.4 | 8.9 | e9.5 | 28 | 80 | 108 | 24 | 18 | 16 |
| 3 | 13 | 12 | e9.3 | e9.0 | 9.1 | 10 | 22 | 96 | 104 | 24 | 17 | 15 |
| 4 | 13 | 12 | e9.2 | e8.9 | 8.9 | 12 | 21 | 93 | 99 | 24 | 17 | 15 |
| 5 | 13 | 12 | e8.9 | e8.5 | e8.7 | 13 | 20 | 76 | 89 | 22 | 17 | 15 |
| 6 | 13 | 12 | e8.8 | e7.8 | e8.8 | 14 | 22 | 74 | 78 | 22 | 18 | 15 |
| 7 | 14 | 12 | e9.0 | e7.9 | e8.7 | 14 | 24 | 64 | 69 | 22 | 18 | 15 |
| 8 | 14 | 12 | e9.6 | e9.0 | e8.6 | 14 | 21 | 58 | 65 | 22 | 17 | 15 |
| 9 | 14 | 12 | e9.7 | e9.8 | e8.5 | 14 | 19 | 56 | 65 | 22 | 17 | 15 |
| 10 | 14 | 12 | e9.8 | e9.9 | e8.5 | 12 | 18 | 55 | 60 | 22 | 17 | 15 |
| 11 | 14 | 12 | e9.8 | e9.9 | e8.4 | 12 | 21 | 67 | 55 | 22 | 17 | 15 |
| 12 | 13 | 12 | e9.9 | e9.8 | e8.3 | 11 | 24 | 81 | 52 | 21 | 17 | 14 |
| 13 | 13 | 11 | e9.8 | e9.5 | e8.3 | 11 | 30 | 81 | 49 | 20 | 17 | 14 |
| 14 | 13 | 9.7 | e9.3 | e9.4 | e8.3 | 11 | 27 | 77 | 47 | 20 | 17 | 14 |
| 15 | 13 | 9.7 | e9.2 | e9.3 | e8.2 | 10 | 26 | 76 | 43 | 22 | 17 | 14 |
| 16 | 13 | 8.8 | e9.0 | e9.3 | e8.2 | 10 | 28 | 65 | 39 | 23 | 16 | 14 |
| 17 | 13 | e8.6 | e8.9 | 9.4 | e8.1 | 9.8 | 23 | 62 | 38 | 21 | 16 | 14 |
| 18 | 13 | e9.0 | e8.7 | 9.5 | e8.0 | 9.6 | 24 | 68 | 36 | 20 | 16 | 14 |
| 19 | 13 | e8.7 | e8.8 | 9.5 | e7.8 | 9.2 | 24 | 82 | 34 | 20 | 16 | 14 |
| 20 | 13 | e9.1 | e8.8 | 9.6 | e7.9 | 10 | 25 | 93 | 33 | 20 | 16 | 14 |
| 21 | 13 | e9.8 | e8.6 | e9.5 | e7.9 | 11 | 33 | 104 | 32 | 20 | 17 | 14 |
| 22 | 13 | e9.5 | e9.0 | e9.3 | e8.0 | 13 | 41 | 99 | 31 | 21 | 17 | 14 |
| 23 | 13 | e9.0 | e9.1 | 9.2 | e8.0 | 15 | 43 | 96 | 30 | 21 | 16 | 14 |
| 24 | 13 | e9.1 | e9.1 | e8.8 | e8.2 | 16 | 43 | 103 | 29 | 20 | 16 | 15 |
| 25 | 12 | e9.0 | e9.0 | e8.6 | e8.3 | 15 | 40 | 113 | 30 | 20 | 16 | 15 |
| 26 | 12 | e9.1 | e8.9 | e8.7 | e8.5 | 15 | 33 | 126 | 29 | 20 | 16 | 15 |
| 27 | 12 | e9.2 | e9.4 | e8.8 | e8.7 | 19 | 33 | 132 | 27 | 19 | 16 | 15 |
| 28 | 12 | e9.2 | e9.3 | 10 | e8.8 | 21 | 37 | 135 | 26 | 19 | 16 | 14 |
| 29 | 12 | e9.0 | e9.3 | 9.0 | --- | 22 | 42 | 132 | 26 | 19 | 16 | 13 |
| 30 | 12 | e8.8 | e9.2 | 9.1 | --- | 27 | 56 | 129 | 25 | 19 | 17 | 12 |
| 31 | 12 | --- | e9.3 | 9.0 | --- | 33 | --- | 122 | --- | 18 | 16 | --- |
| TOTAL | 401 | 310.3 | 285.4 | 284.9 | 235.6 | 432.1 | 879 | 2763 | 1565 | 653 | 518 | 434 |
| MEAN | 12.9 | 10.3 | 9.21 | 9.19 | 8.41 | 13.9 | 29.3 | 89.1 | 52.2 | 21.1 | 16.7 | 14.5 |
| MAX | 14 | 12 | 9.9 | 10 | 9.1 | 33 | 56 | 135 | 117 | 24 | 18 | 16 |
| MIN | 12 | 8.6 | 8.6 | 7.8 | 7.8 | 9.0 | 18 | 55 | 25 | 18 | 16 | 12 |
| ACFT | 795 | 615 | 566 | 565 | 467 | 857 | 1740 | 5480 | 3100 | 1300 | 1030 | 861 |
| CAL YR 1985 | TOTAL | 8910.9 | MEAN | 24.4 | MAX | 113 | MIN | 8.6 | ACFT | 17670 | | |
| WTR YR 1986 | TOTAL | 8761.3 | MEAN | 24.0 | MAX | 135 | MIN | 7.8 | ACFT | 17380 | | |

e Estimated.

SEVIER LAKE BASIN

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 mi².

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. Estimated daily discharges Dec. 24 to May 20 and July 22 to Aug. 15 due to bridge construction 150 ft. below the gage and channel work, both above and below the gage. Diversions above and below station for irrigation.

AVERAGE DISCHARGE.--41 years (water years 1916, 1918-19, 1944-55, 1961-86), 29.5 ft³/s, 21,370 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,650 ft³/s June 7, 1984, gage height, 8.32 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 568 ft³/s May 4, gage height, 3.96, from floodmarks; minimum observed, 0.86 ft³/s Aug. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|----------|------|------|------|------|------|-------|------|-------|-------|--------|
| 1 | 9.8 | 23 | 35 | e36 | 41 | 50 | 88 | 277 | 279 | 13 | 1.6 | 2.1 |
| 2 | 10 | 22 | 42 | e37 | 40 | 52 | 107 | 328 | 264 | 11 | e1.4 | 1.5 |
| 3 | 9.5 | 23 | 40 | e37 | 42 | 49 | 72 | 349 | 243 | 7.9 | e1.2 | 1.6 |
| 4 | 9.6 | 23 | 37 | e38 | 37 | 48 | 79 | 374 | 229 | e7.3 | e1.1 | 1.3 |
| 5 | 10 | 25 | 36 | e39 | 38 | 49 | 88 | 268 | 194 | e7.1 | e1.0 | 1.1 |
| 6 | 11 | 26 | 36 | e37 | 38 | 47 | 118 | 222 | 179 | e6.9 | .96 | 1.1 |
| 7 | 15 | 22 | 35 | e34 | e37 | 50 | 114 | 188 | 175 | e6.8 | 6.9 | 1.0 |
| 8 | 16 | 25 | e36 | e32 | e35 | 49 | 113 | 189 | 174 | e6.6 | e3.0 | .98 |
| 9 | 24 | e27 | e37 | e34 | e33 | 61 | 109 | 192 | 171 | e6.4 | e1.3 | 1.0 |
| 10 | 22 | e26 | 35 | e37 | e32 | 53 | 82 | 195 | 180 | 4.5 | e1.2 | 1.3 |
| 11 | 24 | e29 | e34 | e39 | e33 | 54 | 84 | 281 | 174 | 3.6 | e1.2 | 2.8 |
| 12 | 20 | e30 | e32 | e38 | e35 | 53 | 96 | 346 | 170 | 3.5 | e1.1 | 2.9 |
| 13 | 24 | e25 | e31 | e38 | e36 | 53 | 94 | 295 | 167 | 2.5 | e1.1 | 2.3 |
| 14 | 23 | e30 | e33 | e38 | 38 | 55 | 80 | 270 | 173 | 3.0 | e1.1 | 1.3 |
| 15 | 22 | e29 | e34 | e39 | 48 | 51 | 85 | 378 | e155 | 11 | e1.1 | 2.4 |
| 16 | 22 | e28 | e34 | e43 | 42 | 57 | 92 | 309 | e147 | 12 | e1.0 | 4.6 |
| 17 | 21 | e27 | e34 | e40 | 42 | 51 | 104 | 238 | e140 | e5.0 | e1.0 | 2.7 |
| 18 | 27 | e28 | e35 | e38 | 51 | 52 | 100 | 199 | e130 | e3.4 | e1.0 | 1.4 |
| 19 | 22 | 26 | e37 | e40 | 61 | 52 | 93 | 262 | e114 | e3.0 | e1.1 | 1.6 |
| 20 | 24 | 26 | e38 | e35 | 55 | 55 | 106 | 328 | e94 | e3.0 | 1.4 | 1.5 |
| 21 | 23 | 26 | e39 | e34 | 40 | 58 | 129 | 384 | e65 | e2.9 | 5.0 | 1.6 |
| 22 | 24 | 25 | e40 | e33 | 36 | 66 | 140 | 365 | e51 | e2.9 | 6.2 | 1.9 |
| 23 | 24 | 24 | e40 | e34 | 40 | 72 | 136 | 274 | e43 | e2.8 | 1.1 | 6.0 |
| 24 | 24 | 24 | e39 | 48 | 43 | 74 | 151 | 290 | e34 | e2.8 | 1.4 | 7.5 |
| 25 | 23 | 33 | e39 | 27 | 49 | 68 | 154 | 334 | e28 | 2.8 | 4.5 | 18 |
| 26 | 23 | 35 | e38 | 30 | 53 | 66 | 164 | 368 | e26 | 3.9 | 3.8 | 22 |
| 27 | 22 | 32 | e37 | 33 | 54 | 71 | 173 | 413 | 24 | 2.5 | 2.9 | 17 |
| 28 | 22 | 34 | e37 | 27 | 50 | 80 | 192 | 380 | 19 | e1.7 | 2.5 | 19 |
| 29 | 22 | 38 | e43 | 26 | --- | 78 | 221 | 356 | 19 | e1.5 | 2.8 | 19 |
| 30 | 22 | 41 | e45 | 28 | --- | 84 | 249 | 321 | 16 | e1.9 | 3.7 | 18 |
| 31 | 23 | --- | e40 | 38 | --- | 104 | --- | 293 | --- | 2.1 | 4.1 | --- |
| TOTAL | 617.9 | 832 | 1148 | 1107 | 1179 | 1862 | 3613 | 9266 | 3877 | 155.3 | 68.76 | 166.48 |
| MEAN | 19.9 | 27.7 | 37.0 | 35.7 | 42.1 | 60.1 | 120 | 299 | 129 | 5.01 | 2.22 | 5.55 |
| MAX | 27 | 41 | 45 | 48 | 61 | 104 | 249 | 413 | 279 | 13 | 6.9 | 22 |
| MIN | 9.5 | 22 | 31 | 26 | 32 | 47 | 72 | 188 | 16 | 1.5 | .96 | .98 |
| ACFT | 1230 | 1650 | 2280 | 2200 | 2340 | 3690 | 7170 | 18380 | 7690 | 308 | 136 | 330 |
| CAL YR 1985 | TOTAL | 18515.7 | MEAN | 50.7 | MAX | 350 | MIN | 1.1 | ACFT | 36730 | | |
| WTR YR 1986 | TOTAL | 23892.44 | MEAN | 65.5 | MAX | 413 | MIN | .96 | ACFT | 47390 | | |

e Estimated.

SEVIER LAKE BASIN

323

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 mi².

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 good except for estimated daily discharges, which are fair. No diversion or regulation above station.

AVERAGE DISCHARGE.--22 years, 13.1 ft³/s, 9,490 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,190 ft³/s May 30, 1983, gage height, 5.99 ft result of indirect measurement of peak flow; minimum, 0.78 ft³/s Nov. 29, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 25 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| Mar. 31 | 1900 | 35 | 8.34 | May 3 | 2200 | 163 | 9.26 |
| Apr. 23 | 2300 | 54 | 8.57 | May 28 | 2300 | *460 | *10.05 |

Minimum, 2.0 ft³/s Feb. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|------|------|-------|------|------|------|-------|-------|-------|
| 1 | 3.9 | 3.1 | 3.2 | 3.1 | 3.3 | 5.0 | 29 | 66 | 212 | 12 | e5.2 | 4.0 |
| 2 | 3.9 | 3.2 | 3.3 | 3.1 | 3.2 | 5.5 | 29 | 78 | 206 | 12 | 5.1 | 4.1 |
| 3 | 3.8 | 3.2 | 3.4 | 3.1 | 3.3 | 5.5 | 24 | 110 | 169 | 11 | 5.0 | 4.1 |
| 4 | 3.8 | 3.2 | 3.3 | 3.1 | 3.1 | 6.2 | 21 | 123 | 149 | 11 | 4.8 | 3.9 |
| 5 | 3.6 | 3.3 | 3.3 | 3.2 | 3.2 | 6.9 | 20 | 107 | 130 | 11 | 4.8 | 3.7 |
| 6 | 3.8 | 3.2 | 3.3 | 3.2 | 3.2 | 7.0 | 20 | 95 | 111 | 10 | 4.8 | 3.6 |
| 7 | 7.2 | 3.2 | 3.2 | 3.1 | 2.8 | 7.1 | 20 | 77 | 93 | 9.7 | 4.8 | 3.6 |
| 8 | 4.4 | 3.1 | 3.3 | 3.1 | 2.8 | 7.7 | 19 | 68 | 82 | 9.5 | 4.8 | 3.5 |
| 9 | 4.1 | 3.1 | 3.2 | 3.1 | 2.7 | 7.6 | 19 | 62 | 73 | 8.9 | 4.8 | 3.7 |
| 10 | 3.9 | 3.0 | 3.0 | 3.1 | 3.0 | 7.0 | 20 | 58 | 67 | 8.6 | 4.6 | 4.1 |
| 11 | 3.9 | 3.2 | 2.5 | 3.1 | 3.2 | 6.5 | 20 | 58 | 61 | 8.3 | 4.4 | 3.8 |
| 12 | 3.8 | 2.8 | 2.9 | 3.1 | 3.0 | 6.3 | 21 | 58 | 57 | 8.1 | 4.6 | 3.6 |
| 13 | 3.9 | 3.1 | 3.1 | 3.1 | 3.1 | 6.4 | 21 | 59 | 53 | 7.9 | 4.6 | 3.6 |
| 14 | 3.5 | 3.5 | 3.1 | 3.1 | 3.2 | 6.2 | 20 | 61 | 49 | 7.5 | 4.4 | 3.5 |
| 15 | 3.4 | 3.3 | 3.1 | 3.2 | 3.3 | 6.0 | 21 | 63 | 45 | 7.6 | 4.4 | 3.5 |
| 16 | 3.4 | 3.4 | 3.1 | 3.2 | 3.2 | 5.7 | 22 | 63 | 40 | 7.5 | 4.2 | 3.4 |
| 17 | 3.3 | 3.4 | 3.2 | 3.1 | 3.3 | 5.5 | 21 | 61 | 36 | 7.0 | 4.2 | 3.4 |
| 18 | 3.3 | 3.2 | 3.2 | 3.1 | 3.9 | 5.4 | 20 | 69 | 33 | 6.7 | 4.0 | 3.4 |
| 19 | 3.3 | 3.0 | 3.2 | 3.2 | 5.3 | 5.9 | 19 | 85 | 30 | 6.3 | 4.1 | 3.4 |
| 20 | 3.3 | 3.2 | 3.2 | 3.2 | 4.3 | 5.6 | 20 | 131 | 27 | 6.4 | 4.2 | 3.4 |
| 21 | 3.3 | 3.2 | 3.2 | 3.1 | 3.5 | 6.1 | 25 | 190 | 24 | 6.5 | 4.8 | 3.4 |
| 22 | 3.5 | 3.1 | 3.2 | 3.2 | 3.3 | 6.5 | 33 | 217 | 22 | 6.5 | 4.6 | 3.4 |
| 23 | 3.4 | 3.2 | 3.2 | 3.2 | 3.3 | 7.5 | 43 | 189 | 20 | 6.0 | 4.4 | 3.5 |
| 24 | 3.4 | 3.4 | 3.1 | 3.1 | 3.5 | 9.0 | 51 | 186 | 18 | 5.7 | 4.3 | 5.3 |
| 25 | 3.4 | 3.4 | 3.1 | 3.0 | 4.3 | 9.3 | 49 | 212 | 17 | 5.4 | 4.2 | 5.2 |
| 26 | 3.3 | 3.3 | 3.1 | 3.1 | 4.8 | 11 | 45 | 252 | 16 | 5.2 | 4.1 | 4.6 |
| 27 | 3.3 | 3.2 | 3.1 | 3.1 | 4.7 | 13 | 42 | 255 | 15 | 5.2 | 4.1 | 4.4 |
| 28 | 3.3 | 3.2 | 3.1 | 3.2 | 4.6 | 15 | 44 | 258 | 15 | e5.2 | 4.0 | 4.6 |
| 29 | 3.3 | 3.3 | 3.1 | 3.2 | --- | 18 | 48 | 226 | 13 | e5.2 | 4.0 | 4.3 |
| 30 | 3.2 | 3.4 | 3.2 | 3.3 | --- | 22 | 56 | 235 | 13 | e5.2 | 4.0 | 4.3 |
| 31 | 3.3 | --- | 3.2 | 3.5 | --- | 30 | --- | 231 | --- | e5.2 | 4.1 | --- |
| TOTAL | 114.2 | 96.4 | 97.7 | 97.6 | 98.4 | 272.4 | 862 | 4003 | 1896 | 238.3 | 138.4 | 116.3 |
| MEAN | 3.68 | 3.21 | 3.15 | 3.15 | 3.51 | 8.79 | 28.7 | 129 | 63.2 | 7.69 | 4.46 | 3.88 |
| MAX | 7.2 | 3.5 | 3.4 | 3.5 | 5.3 | 30 | 56 | 258 | 212 | 12 | 5.2 | 5.3 |
| MIN | 3.2 | 2.8 | 2.5 | 3.0 | 2.7 | 5.0 | 19 | 58 | 13 | 5.2 | 4.0 | 3.4 |
| ACFT | 227 | 191 | 194 | 194 | 195 | 540 | 1710 | 7940 | 3760 | 473 | 275 | 231 |
| CAL YR 1985 | TOTAL | 5843.0 | MEAN | 16.0 | MAX | 185 | MIN | 2.5 | ACFT | 11590 | | |
| WTR YR 1986 | TOTAL | 8030.7 | MEAN | 22.0 | MAX | 258 | MIN | 2.5 | ACFT | 15930 | | |

e Estimated.

SEVIER LAKE BASIN

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 mi².

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 except for estimated daily discharges, which are poor. No diversion above station. Flow includes discharge of Spring City tunnel (transmountain diversion from Colorado River Basin).

AVERAGE DISCHARGE.--17 years, 11.8 ft³/s, 8,550 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 300 ft³/s July 23, 1965, gage height, 3.75 ft from floodmark, from rating curve extended above 75 ft³/s; minimum, 0.93 ft³/s Mar. 6, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 40 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|--|------|-----------------------------------|---------------------|
| June 7 | 1700 | *80 | *2.57 | No other peak greater than base discharge. | | | |

Minimum daily, 3.8 ft³/s Dec. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|-------|-------|------|------|-------|-------|-------|
| 1 | 6.0 | 5.2 | 4.8 | 4.4 | 4.6 | 4.5 | 6.7 | 14 | 74 | 28 | 9.1 | 7.1 |
| 2 | 6.0 | 5.5 | 5.0 | 4.4 | 4.6 | 4.5 | 6.4 | 17 | 72 | 28 | 9.1 | 6.8 |
| 3 | 5.9 | 5.6 | 5.0 | 4.4 | 4.6 | 4.5 | 6.1 | 21 | 67 | 28 | 8.9 | 6.7 |
| 4 | 6.0 | 5.4 | 4.8 | 4.4 | 4.4 | 4.4 | 5.9 | 24 | 67 | 27 | 8.8 | 6.7 |
| 5 | 5.9 | 5.4 | 4.8 | 4.4 | 4.6 | 4.6 | 6.1 | 21 | 72 | 26 | 8.6 | 6.6 |
| 6 | 5.9 | 5.2 | 4.8 | e4.5 | 4.8 | 4.5 | 6.2 | 21 | 74 | 24 | 8.6 | 6.4 |
| 7 | 6.9 | 5.4 | 4.8 | e4.5 | e4.2 | 4.4 | 6.4 | 19 | 76 | 23 | 8.5 | 6.4 |
| 8 | 6.2 | 5.6 | 4.9 | 4.5 | e4.2 | 4.6 | 6.2 | 17 | 70 | 22 | 8.6 | 6.4 |
| 9 | 6.3 | 5.3 | 4.8 | 4.6 | e4.1 | 4.7 | 6.3 | 16 | 65 | 20 | 8.4 | 6.3 |
| 10 | 6.1 | 5.3 | e4.6 | 4.6 | e4.5 | 4.4 | 6.1 | 16 | 61 | 19 | 8.4 | 6.5 |
| 11 | 6.2 | 5.3 | e3.8 | 4.6 | 4.8 | 4.4 | 6.2 | 16 | 61 | 18 | 8.3 | 6.3 |
| 12 | 6.0 | 5.4 | e4.4 | e4.4 | 4.5 | 4.4 | 6.5 | 16 | 61 | 17 | 8.2 | 6.2 |
| 13 | 6.1 | 5.1 | 4.9 | 4.4 | 4.4 | 4.4 | 6.6 | 16 | 59 | 17 | 8.0 | 6.3 |
| 14 | 5.6 | 5.3 | 4.7 | 4.4 | 4.3 | 4.4 | 6.3 | 17 | 60 | 16 | 8.0 | 6.2 |
| 15 | 5.8 | 5.2 | 4.7 | 4.4 | 4.6 | 4.2 | 6.6 | 16 | 59 | 17 | 7.9 | 6.2 |
| 16 | 6.0 | 5.3 | 4.6 | 4.4 | 4.6 | 4.1 | 6.6 | 16 | 56 | 16 | 7.9 | 6.2 |
| 17 | 6.0 | 5.3 | 4.6 | 4.4 | 4.1 | 4.1 | 6.6 | 16 | 53 | 16 | 7.8 | 6.0 |
| 18 | 5.9 | 5.2 | 4.6 | 4.5 | 4.1 | 4.1 | 6.4 | 18 | 51 | 15 | 7.9 | 5.9 |
| 19 | 5.8 | 5.3 | 4.6 | 4.4 | 4.3 | 4.1 | 6.5 | 23 | 48 | 14 | 7.9 | 5.9 |
| 20 | 5.9 | 5.3 | e4.6 | 4.4 | 4.5 | 4.1 | 6.9 | 26 | 45 | 13 | 7.6 | 5.9 |
| 21 | 5.9 | 5.3 | e4.6 | 4.4 | 4.4 | 4.3 | 8.2 | 31 | 41 | 13 | 8.3 | 5.9 |
| 22 | 5.8 | 5.1 | e4.6 | 4.5 | 4.4 | 4.7 | 9.1 | 33 | 39 | 12 | 7.5 | 5.9 |
| 23 | 5.9 | 5.1 | e4.6 | 4.6 | 4.4 | 4.7 | 9.5 | 33 | 36 | 12 | 7.3 | 6.0 |
| 24 | 5.9 | 5.1 | e4.6 | 4.6 | 4.2 | 4.8 | 9.8 | 38 | 34 | 11 | 8.5 | 7.1 |
| 25 | 5.8 | 5.1 | e4.6 | 4.5 | 4.4 | 4.8 | 9.4 | 53 | 32 | 11 | 7.5 | 6.3 |
| 26 | 5.6 | 5.1 | e4.6 | 4.4 | 4.5 | 4.8 | 9.1 | 46 | 30 | 11 | 7.4 | 6.2 |
| 27 | 5.6 | 5.1 | e4.6 | 4.4 | 4.2 | 5.4 | 9.0 | 53 | 29 | 10 | 7.4 | 6.1 |
| 28 | 5.6 | 5.1 | e4.6 | 4.4 | 4.3 | 5.9 | 9.7 | 61 | 32 | 9.9 | 7.1 | 6.0 |
| 29 | 5.6 | 5.1 | e4.6 | 4.4 | --- | 6.3 | 11 | 59 | 35 | 9.7 | 7.2 | 5.9 |
| 30 | 5.6 | 5.1 | e4.6 | 4.6 | --- | 6.5 | 12 | 61 | 32 | 9.5 | 6.9 | 6.0 |
| 31 | 5.7 | --- | 4.4 | 4.6 | --- | 6.7 | --- | 72 | --- | 9.2 | 6.9 | --- |
| TOTAL | 183.5 | 157.8 | 144.2 | 138.4 | 123.6 | 146.3 | 224.4 | 906 | 1591 | 522.3 | 248.5 | 188.4 |
| MEAN | 5.92 | 5.26 | 4.65 | 4.46 | 4.41 | 4.72 | 7.48 | 29.2 | 53.0 | 16.8 | 8.02 | 6.28 |
| MAX | 6.9 | 5.6 | 5.0 | 4.6 | 4.8 | 6.7 | 12 | 72 | 76 | 28 | 9.1 | 7.1 |
| MIN | 5.6 | 5.1 | 3.8 | 4.4 | 4.1 | 4.1 | 5.9 | 14 | 29 | 9.2 | 6.9 | 5.9 |
| ACFT | 364 | 313 | 286 | 275 | 245 | 290 | 445 | 1800 | 3160 | 1040 | 493 | 374 |
| CAL YR 1985 | TOTAL | 4812.3 | MEAN | 13.2 | MAX | 73 | MIN | 3.8 | ACFT | 9550 | | |
| WTR YR 1986 | TOTAL | 4574.4 | MEAN | 12.5 | MAX | 76 | MIN | 3.8 | ACFT | 9070 | | |

e Estimated.

SEVIER LAKE BASIN

325

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 mi².

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 fair except for estimated daily discharges, which are 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.--18 years, 34.4 ft³/s, 24,920 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 682 ft³/s June 9, 1973, gage height, 2.93 ft; minimum, 0.9 ft³/s Nov. 3, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|-------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| May 8 | 2000 | 193 | 2.28 | June 3 | 1900 | *480 | *3.11 |

Minimum, 2.9 ft³/s Nov. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|-------|-------|------|------|-------|-------|------|------|
| 1 | 8.2 | 6.0 | 6.2 | e6.4 | e6.5 | 8.8 | e28 | 80 | 363 | 78 | 21 | e13 |
| 2 | 8.2 | 6.8 | 6.2 | e6.4 | e6.4 | 9.6 | e24 | 96 | 383 | 73 | 20 | e13 |
| 3 | 8.1 | 6.8 | 6.1 | e6.4 | e6.4 | 9.6 | e21 | 139 | 392 | 69 | 19 | e14 |
| 4 | 8.1 | 7.1 | e6.0 | e6.3 | e6.4 | 9.7 | e20 | 133 | 375 | 65 | 19 | 16 |
| 5 | 7.7 | 7.4 | e6.0 | e5.6 | e6.4 | 9.9 | e18 | 86 | 386 | 61 | 19 | 13 |
| 6 | 9.9 | 6.2 | e5.9 | e5.5 | e6.3 | 11 | e19 | 73 | 411 | 57 | 18 | 12 |
| 7 | 9.7 | 6.4 | 5.8 | e5.9 | e6.3 | 11 | e20 | 62 | 426 | 54 | 19 | 12 |
| 8 | 9.9 | 6.9 | e5.9 | e6.4 | e6.3 | 11 | e19 | 56 | 353 | 53 | 20 | 11 |
| 9 | 9.7 | 6.9 | e6.0 | e6.9 | e6.1 | 12 | e16 | 49 | 316 | 46 | 18 | 12 |
| 10 | 9.2 | 7.0 | e6.1 | e7.2 | e6.0 | 9.8 | e17 | 49 | 313 | 44 | 18 | 13 |
| 11 | 8.7 | 7.0 | e6.2 | e7.0 | e6.0 | 9.3 | e19 | 56 | 284 | 42 | 18 | 13 |
| 12 | 9.6 | e6.4 | e6.3 | e6.6 | e5.9 | 10 | e21 | 57 | 283 | 40 | 18 | 12 |
| 13 | 9.0 | e6.0 | e6.3 | e6.7 | e5.8 | 9.6 | e24 | 60 | 285 | 40 | 19 | 11 |
| 14 | 7.5 | e6.5 | e6.2 | e6.6 | e5.8 | 8.5 | e23 | 65 | 282 | 37 | 16 | 11 |
| 15 | 7.7 | e6.3 | e6.1 | e6.4 | e5.5 | 9.4 | e22 | 60 | 274 | 41 | 16 | 11 |
| 16 | 7.8 | e6.1 | e6.0 | e6.3 | 5.0 | 7.7 | e21 | 57 | 259 | 38 | 15 | 11 |
| 17 | 7.5 | 5.8 | e6.0 | e6.3 | 5.2 | 7.3 | e19 | 55 | 238 | e34 | e14 | 11 |
| 18 | 7.3 | 6.5 | e5.9 | e6.2 | 5.6 | 8.5 | e18 | 71 | 235 | e33 | e13 | 11 |
| 19 | 7.2 | 5.1 | e6.0 | e6.2 | 5.8 | 13 | e19 | 107 | 218 | e31 | e13 | 11 |
| 20 | 7.2 | 5.5 | e6.0 | e6.2 | 6.0 | 11 | e20 | 161 | 195 | e29 | e13 | 11 |
| 21 | 7.1 | 5.2 | e6.1 | e6.2 | 5.2 | 12 | e22 | 203 | 173 | e28 | e13 | 10 |
| 22 | 7.8 | e5.2 | e6.2 | e6.3 | 5.3 | 13 | e26 | 193 | 155 | e28 | e16 | 10 |
| 23 | 7.9 | e5.4 | e6.2 | e6.3 | 4.6 | 15 | e29 | 173 | 140 | e27 | e14 | 11 |
| 24 | 7.2 | e5.4 | e6.3 | e6.3 | 6.0 | 15 | e31 | 193 | 131 | 27 | e13 | 13 |
| 25 | 7.3 | e5.2 | e6.3 | e6.4 | 8.2 | 14 | e30 | 235 | 126 | 27 | e13 | 13 |
| 26 | 7.2 | e5.6 | e6.3 | e6.4 | 9.1 | 14 | e28 | 269 | 115 | 26 | e13 | 13 |
| 27 | 6.8 | 7.0 | e6.3 | e6.4 | 8.6 | 15 | e28 | 300 | 106 | 25 | e13 | 12 |
| 28 | 6.9 | 5.9 | e6.3 | e6.4 | 8.6 | 19 | e31 | 327 | 97 | 23 | e13 | 12 |
| 29 | 6.9 | 6.2 | e6.3 | e6.5 | --- | e20 | 39 | 353 | 92 | 23 | e15 | 11 |
| 30 | 6.8 | 6.7 | e6.3 | e6.5 | --- | e22 | 63 | 362 | 84 | 22 | e14 | 11 |
| 31 | 7.4 | --- | e6.3 | e6.5 | --- | e26 | --- | 343 | --- | 21 | e13 | --- |
| TOTAL | 247.5 | 186.5 | 190.1 | 197.7 | 175.3 | 381.7 | 735 | 4523 | 7490 | 1242 | 496 | 358 |
| MEAN | 7.98 | 6.22 | 6.13 | 6.38 | 6.26 | 12.3 | 24.5 | 146 | 250 | 40.1 | 16.0 | 11.9 |
| MAX | 9.9 | 7.4 | 6.3 | 7.2 | 9.1 | 26 | 63 | 362 | 426 | 78 | 21 | 16 |
| MIN | 6.8 | 5.1 | 5.8 | 5.5 | 4.6 | 7.3 | 16 | 49 | 84 | 21 | 13 | 10 |
| ACFT | 491 | 370 | 377 | 392 | 348 | 757 | 1460 | 8970 | 14860 | 2460 | 984 | 710 |
| CAL YR 1985 | TOTAL | 13055.9 | MEAN | 35.8 | MAX | 191 | MIN | 4.1 | ACFT | 25900 | | |
| WTR YR 1986 | TOTAL | 16222.8 | MEAN | 44.4 | MAX | 426 | MIN | 4.6 | ACFT | 32180 | | |

e Estimated.

SEVIER LAKE BASIN

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 mi².

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. Since Apr. 16, 1986 at different site and datum.

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.--74 years, 265 ft³/s, 192,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,400 ft³/s May 29, 1984; minimum, 5.6 ft³/s July 17-21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,480 ft³/s June 4; minimum daily, 39 ft³/s July 17, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|------|-------|
| 1 | 448 | 317 | e700 | e475 | e770 | e900 | e1030 | 770 | 1320 | 125 | 89 | 162 |
| 2 | 435 | 314 | e700 | e480 | e800 | e890 | e1060 | 867 | 1280 | 141 | 89 | 184 |
| 3 | 420 | 310 | e705 | e480 | e830 | e880 | e1100 | 922 | e1400 | e119 | 82 | 189 |
| 4 | 409 | 310 | e700 | e480 | e840 | e880 | e1120 | 1060 | e1480 | 116 | 79 | 172 |
| 5 | 391 | 310 | e695 | e478 | e850 | e880 | e1150 | 835 | e1390 | 117 | 86 | 166 |
| 6 | 383 | 310 | e690 | e475 | e860 | e885 | e1170 | 747 | e1280 | 109 | 90 | 163 |
| 7 | 395 | 300 | e670 | e465 | e855 | e885 | e1170 | e810 | e1170 | e98 | 91 | 154 |
| 8 | 395 | 297 | e645 | e453 | e850 | e885 | e1150 | e750 | e1290 | e83 | 87 | 146 |
| 9 | 443 | 304 | e630 | e445 | e850 | e890 | e1120 | e705 | e1390 | e71 | 79 | 148 |
| 10 | 489 | 317 | e620 | e440 | e850 | e890 | e1070 | e810 | 1340 | 67 | 75 | 146 |
| 11 | 525 | 307 | e610 | e445 | e849 | e890 | e1000 | e820 | 1270 | 68 | 69 | 161 |
| 12 | 534 | 328 | e580 | e450 | e848 | e895 | e900 | e830 | 1190 | 60 | 72 | 179 |
| 13 | 472 | 328 | e550 | e450 | e847 | e890 | e810 | e840 | 1160 | 59 | 75 | 193 |
| 14 | 399 | 328 | e510 | e455 | e846 | e885 | e760 | 850 | e1090 | 59 | 82 | e198 |
| 15 | 376 | 350 | e480 | e465 | e890 | e880 | e710 | 739 | e980 | 51 | 76 | e183 |
| 16 | 369 | 350 | e440 | e480 | e910 | e860 | e663 | 825 | e910 | 41 | 73 | e165 |
| 17 | 342 | 342 | e410 | e485 | e930 | e865 | e672 | 712 | e820 | 39 | 66 | e145 |
| 18 | 339 | 342 | e405 | e484 | e950 | e890 | e533 | 802 | e755 | 40 | 62 | e130 |
| 19 | 339 | 361 | e400 | e475 | e950 | e900 | e487 | 813 | 726 | e39 | 57 | e138 |
| 20 | 331 | 365 | e390 | e465 | e955 | e910 | e572 | 707 | 661 | e42 | 52 | e149 |
| 21 | 328 | 410 | e389 | e450 | e560 | e913 | 603 | 968 | 547 | 45 | 65 | e161 |
| 22 | 324 | 474 | e387 | e455 | e560 | e920 | 628 | 1030 | 460 | 50 | 80 | e185 |
| 23 | 342 | 509 | e386 | e450 | e560 | e925 | 584 | 945 | 394 | 64 | 92 | e215 |
| 24 | 335 | e540 | e385 | e450 | e960 | e930 | 530 | 968 | 244 | 89 | 109 | e230 |
| 25 | 331 | e580 | e380 | e455 | e955 | e960 | 495 | 938 | 180 | 108 | 130 | e250 |
| 26 | 335 | e610 | e380 | e460 | e950 | e990 | 498 | 1130 | 191 | 99 | 109 | e268 |
| 27 | 335 | e630 | e390 | e490 | e940 | e1000 | 485 | 1250 | 169 | 90 | 88 | e282 |
| 28 | 331 | e645 | e410 | e550 | e910 | e1010 | 507 | 1430 | e157 | 91 | 95 | e305 |
| 29 | 324 | e660 | e440 | e600 | --- | e1020 | 573 | 1470 | 149 | 83 | 138 | e310 |
| 30 | 317 | e670 | e450 | e660 | --- | e1030 | 686 | 1420 | 139 | 75 | 142 | e312 |
| 31 | 331 | --- | e460 | e700 | --- | e1030 | --- | 1360 | --- | 82 | 146 | --- |
| TOTAL | 11867 | 12218 | 15987 | 15045 | 23725 | 28458 | 23836 | 29123 | 25532 | 2420 | 2725 | 5789 |
| MEAN | 383 | 407 | 516 | 485 | 847 | 918 | 795 | 939 | 851 | 78.1 | 87.9 | 193 |
| MAX | 534 | 670 | 705 | 700 | 960 | 1030 | 1170 | 1470 | 1480 | 141 | 146 | 312 |
| MIN | 317 | 297 | 380 | 440 | 560 | 860 | 485 | 705 | 139 | 39 | 52 | 130 |
| ACFT | 23540 | 24230 | 31710 | 29840 | 47060 | 56450 | 47280 | 57770 | 50640 | 4800 | 5410 | 11480 |
| CAL YR 1985 | TOTAL | 258230 | MEAN | 707 | MAX | 2100 | MIN | 80 | ACFT | 512200 | | |
| WTR YR 1986 | TOTAL | 196725 | MEAN | 539 | MAX | 1480 | MIN | 39 | ACFT | 390200 | | |

e Estimated.

SEVIER LAKE BASIN

327

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 mi².

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, 234,000 acre-ft June 11-15, gage height, 79.8 ft; minimum contents observed, 161,300 acre-ft Sept. 11, gage height, 72.0 ft.

Capacity table (gage height, in feet, and contents, in acre-feet)

| | | | |
|----|---------|----|---------|
| 64 | 109,800 | 72 | 161,300 |
| 65 | 114,900 | 75 | 186,500 |
| 68 | 132,600 | 78 | 215,100 |
| 70 | 146,200 | 80 | 236,150 |

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
INSTANTANEOUS OBSERVATIONS

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 178700 | 202300 | 218200 | 209100 | 205200 | 231900 | 221300 | 223400 | 226500 | 218200 | 191100 | 163700 |
| 2 | 179500 | 203300 | 218200 | 208100 | 206200 | 231900 | 222300 | 222300 | 227600 | 217200 | 190200 | 162900 |
| 3 | 181300 | 203300 | 219200 | 208100 | 207100 | 231900 | 223400 | 222300 | 228600 | 215100 | 189300 | 162900 |
| 4 | 181300 | 203300 | 219200 | 208100 | 207100 | 230800 | 224400 | 221300 | 228600 | 214100 | 187500 | 162100 |
| 5 | 182200 | 203300 | 220300 | 207100 | 208100 | 230800 | 225400 | 221300 | 229700 | 213100 | 186500 | 162100 |
| 6 | 183000 | 204200 | 221300 | 207100 | 208100 | 229700 | 226500 | 220300 | 230800 | 212100 | 184800 | 162100 |
| 7 | 184800 | 204200 | 222300 | 207100 | 209100 | 229700 | 227600 | 219200 | 230800 | 210100 | 183900 | 162100 |
| 8 | 184800 | 204200 | 222300 | 207100 | 210100 | 229700 | 228600 | 219200 | 231900 | 209100 | 183900 | 162900 |
| 9 | 185700 | 204200 | 222300 | 207100 | 211100 | 228600 | 228600 | 218200 | 231900 | 208100 | 182200 | 162100 |
| 10 | 186500 | 205200 | 222300 | 206200 | 211100 | 228600 | 229700 | 219200 | 232900 | 206200 | 180400 | 162100 |
| 11 | 187500 | 206200 | 221300 | 206200 | 212100 | 228600 | 230800 | 218200 | 234000 | 205200 | 177800 | 161300 |
| 12 | 189300 | 206200 | 221300 | 206200 | 212100 | 227600 | 230800 | 218200 | 234000 | 203300 | 176900 | 162100 |
| 13 | 190200 | 206200 | 220300 | 206200 | 213100 | 227600 | 230800 | 219200 | 234000 | 202300 | 176100 | 162100 |
| 14 | 191100 | 207100 | 219200 | 205200 | 213100 | 227600 | 229700 | 219200 | 234000 | 202300 | 175300 | 162100 |
| 15 | 192000 | 207100 | 219200 | 205200 | 214100 | 227600 | 230800 | 219200 | 234000 | 201400 | 175300 | 162100 |
| 16 | 192900 | 207100 | 218200 | 205200 | 215100 | 226500 | 231900 | 219200 | 231900 | 200400 | 172700 | 162100 |
| 17 | 193800 | 207100 | 218200 | 205200 | 216100 | 226500 | 229700 | 220300 | 231900 | 199500 | 171900 | 162100 |
| 18 | 194700 | 208100 | 217200 | 205200 | 218200 | 226500 | 229700 | 220300 | 230800 | 198500 | 171100 | 162100 |
| 19 | 195600 | 208100 | 216100 | 205200 | 219200 | 226500 | 229700 | 221300 | 229700 | 197600 | 169400 | 162100 |
| 20 | 195600 | 208100 | 215100 | 205200 | 221300 | 225400 | 228600 | 221300 | 229700 | 196600 | 169400 | 162100 |
| 21 | 196600 | 209100 | 214100 | 205200 | 223400 | 225400 | 228600 | 221300 | 228600 | 196600 | 168600 | 162100 |
| 22 | 196600 | 210100 | 213100 | 205200 | 224400 | 225400 | 227600 | 221300 | 227600 | 196600 | 168600 | 162900 |
| 23 | 197600 | 210100 | 212100 | 205200 | 225400 | 225400 | 227600 | 221300 | 226500 | 196600 | 168600 | 162900 |
| 24 | 198500 | 211100 | 211100 | 205200 | 227600 | 224400 | 226500 | 221300 | 226500 | 195600 | 167800 | 163700 |
| 25 | 198500 | 212100 | 211100 | 205200 | 228600 | 223400 | 226500 | 222300 | 225400 | 195600 | 167800 | 163700 |
| 26 | 199500 | 212100 | 210100 | 205200 | 229700 | 222300 | 225400 | 222300 | 224400 | 195600 | 166200 | 163700 |
| 27 | 200400 | 213100 | 210100 | 205200 | 230800 | 222300 | 225400 | 221300 | 223400 | 194700 | 166200 | 164600 |
| 28 | 201400 | 214100 | 209100 | 205200 | 231900 | 222300 | 224400 | 222300 | 222300 | 194700 | 165400 | 165400 |
| 29 | 201400 | 215100 | 209100 | 205200 | --- | 221300 | 223400 | 223400 | 220300 | 193800 | 165400 | 165400 |
| 30 | 202300 | 216100 | 209100 | 205200 | --- | 221300 | 223400 | 223400 | 219200 | 192900 | 164600 | 166200 |
| 31 | 202300 | --- | 209100 | 205200 | --- | 221300 | --- | 224400 | --- | 192000 | 164600 | --- |
| MAX | 202300 | 216100 | 222300 | 209100 | 231900 | 231900 | 231900 | 224400 | 234000 | 218200 | 191100 | 166200 |
| MIN | 178700 | 202300 | 209100 | 205200 | 205200 | 221300 | 221300 | 218200 | 219200 | 192000 | 164600 | 161300 |
| (#) | 76.7 | 78.1 | 77.4 | 77.0 | 79.6 | 78.6 | 78.8 | 78.9 | 78.4 | 75.6 | 72.4 | 72.6 |
| (*) | +24500 | +13800 | -7000 | -3900 | +26700 | -10600 | +2100 | +1000 | -5200 | -27200 | -27400 | +1600 |

CAL YR 1985 (*) +8700

WTR YR 1986 (*) -11600

(#) Gage height, in feet, at end of month.

(*) Change in contents, in acre-feet.

SEVIER LAKE BASIN

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 mi².

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.--No estimated daily discharges. Records fair. Flow regulated by Sevier Bridge Reservoir (see station 10218500).

AVERAGE DISCHARGE.--75 years, 264 ft³/s, 191,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,190 ft³/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, 1,320 ft³/s May 4, gage height, 4.09 ft; minimum daily, 14 ft³/s Oct. 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|------|
| 1 | 16 | 159 | 427 | 819 | 500 | 1170 | 450 | 880 | 917 | 642 | 563 | 357 |
| 2 | 16 | 157 | 439 | 816 | 501 | 1210 | 454 | 1140 | 917 | 639 | 724 | 356 |
| 3 | 16 | 157 | 440 | 814 | 502 | 1200 | 452 | 1290 | 920 | 636 | 727 | 324 |
| 4 | 16 | 157 | 469 | 810 | 503 | 1200 | 453 | 1300 | 923 | 632 | 730 | 246 |
| 5 | 16 | 157 | 579 | 805 | 506 | 1200 | 579 | 1290 | 926 | 634 | 731 | 189 |
| 6 | 16 | 157 | 582 | 788 | 510 | 1200 | 677 | 1280 | 927 | 627 | 730 | 189 |
| 7 | 17 | 159 | 692 | 688 | 512 | 1200 | 679 | 1280 | 929 | 622 | 732 | 192 |
| 8 | 15 | 159 | 788 | 588 | 515 | 1190 | 711 | 1270 | 940 | 620 | 733 | 191 |
| 9 | 15 | 159 | 790 | 588 | 518 | 1190 | 816 | 868 | 939 | 615 | 731 | 190 |
| 10 | 15 | 159 | 819 | 587 | 519 | 1190 | 819 | 720 | 1080 | 614 | 731 | 130 |
| 11 | 15 | 162 | 851 | 584 | 521 | 1190 | 837 | 718 | 1260 | 610 | 619 | 122 |
| 12 | 15 | 162 | 851 | 584 | 521 | 1190 | 920 | 719 | 1260 | 546 | 488 | 122 |
| 13 | 15 | 162 | 848 | 562 | 526 | 1180 | 926 | 718 | 1270 | 509 | 491 | 121 |
| 14 | 15 | 164 | 845 | 541 | 527 | 1190 | 919 | 720 | 1260 | 506 | 490 | 120 |
| 15 | 15 | 172 | 844 | 541 | 528 | 1190 | 917 | 718 | 1250 | 506 | 490 | 120 |
| 16 | 15 | 197 | 839 | 541 | 529 | 1180 | 917 | 720 | 1250 | 377 | 490 | 120 |
| 17 | 15 | 197 | 836 | 541 | 533 | 1190 | 921 | 720 | 1250 | 247 | 489 | 120 |
| 18 | 14 | 200 | 835 | 541 | 554 | 1200 | 915 | 718 | 1080 | 245 | 490 | 120 |
| 19 | 14 | 200 | 833 | 540 | 641 | 1180 | 914 | 718 | 966 | 244 | 401 | 120 |
| 20 | 15 | 200 | 830 | 539 | 648 | 1170 | 908 | 822 | 962 | 243 | 328 | 119 |
| 21 | 15 | 203 | 828 | 537 | 655 | 1170 | 903 | 903 | 960 | 243 | 327 | 120 |
| 22 | 15 | 219 | 826 | 538 | 659 | 1170 | 900 | 909 | 955 | 243 | 327 | 120 |
| 23 | 15 | 265 | 824 | 538 | 665 | 1170 | 898 | 902 | 807 | 241 | 326 | 120 |
| 24 | 15 | 256 | 821 | 537 | 669 | 1170 | 901 | 904 | 657 | 241 | 324 | 118 |
| 25 | 15 | 256 | 821 | 514 | 735 | 1070 | 898 | 903 | 654 | 240 | 324 | 118 |
| 26 | 15 | 259 | 821 | 498 | 924 | 1010 | 899 | 903 | 652 | 240 | 323 | 118 |
| 27 | 15 | 261 | 821 | 498 | 1110 | 991 | 888 | 903 | 648 | 239 | 323 | 118 |
| 28 | 15 | 264 | 821 | 498 | 1130 | 857 | 886 | 907 | 646 | 239 | 323 | 120 |
| 29 | 15 | 334 | 821 | 498 | --- | 780 | 884 | 909 | 643 | 239 | 322 | 120 |
| 30 | 85 | 404 | 821 | 498 | --- | 777 | 881 | 912 | 644 | 239 | 322 | 92 |
| 31 | 159 | --- | 820 | 500 | --- | 654 | --- | 915 | --- | 323 | 355 | --- |
| TOTAL | 685 | 6117 | 23482 | 18471 | 17161 | 34629 | 24122 | 28579 | 28492 | 13041 | 15504 | 4732 |
| MEAN | 22.1 | 204 | 757 | 596 | 613 | 1117 | 804 | 922 | 950 | 421 | 500 | 158 |
| MAX | 159 | 404 | 851 | 819 | 1130 | 1210 | 926 | 1300 | 1270 | 642 | 733 | 357 |
| MIN | 14 | 157 | 427 | 498 | 500 | 654 | 450 | 718 | 643 | 239 | 322 | 92 |
| ACFT | 1360 | 12130 | 46580 | 36640 | 34040 | 68690 | 47850 | 56690 | 56510 | 25870 | 30750 | 9390 |
| CAL YR 1985 | TOTAL | 253971 | MEAN | 696 | MAX | 2070 | MIN | 14 | ACFT | 503800 | | |
| WTR YR 1986 | TOTAL | 215015 | MEAN | 589 | MAX | 1300 | MIN | 14 | ACFT | 426500 | | |

SEVIER LAKE BASIN

329

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 mi².

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, a reliable stage-discharge relationship could not be maintained.

AVERAGE DISCHARGE.--24 years, 9.65 ft³/s, 6,990 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 390 ft³/s Sept. 8, 1981, gage height, 5.70 ft, from rating curve extended above 250 ft³/s on basis of velocity-area study; no flow Feb. 11, 14, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 15 ft³/s not determined. Maximum daily discharge, 57 ft³/s Apr. 23; minimum daily discharge 2.1 ft³/s Feb. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|------|------|-------|-------|------|------|------|-------|-------|-------|
| 1 | e4.0 | 3.1 | e3.2 | e2.4 | e2.5 | 11 | 44 | e50 | e32 | 11 | e7.2 | e4.8 |
| 2 | e3.9 | e3.2 | e3.3 | e2.4 | e2.5 | 11 | 45 | e52 | e30 | e10 | e7.0 | e4.8 |
| 3 | e3.8 | e3.2 | e3.4 | e2.4 | e2.5 | 11 | 41 | e52 | e28 | e11 | e6.8 | e4.5 |
| 4 | e3.8 | e3.2 | e3.3 | e2.4 | e2.5 | 11 | 42 | e52 | e27 | e11 | e6.6 | e4.3 |
| 5 | e3.6 | e3.3 | e3.3 | e2.5 | 2.5 | 11 | 44 | e52 | e25 | e9.8 | e6.6 | e4.2 |
| 6 | e4.0 | e3.2 | e3.3 | e2.4 | e2.5 | 10 | 47 | e52 | e24 | e9.8 | e6.6 | e4.0 |
| 7 | e4.3 | e3.2 | e3.2 | e2.2 | e2.2 | 10 | 45 | e51 | e23 | e9.7 | e6.5 | e4.1 |
| 8 | 4.0 | e3.1 | e3.3 | e2.3 | e2.2 | 11 | 43 | e50 | e22 | e9.2 | e6.4 | e4.4 |
| 9 | 4.0 | e3.1 | e3.3 | e2.4 | e2.1 | 14 | 42 | e49 | e22 | 8.5 | e6.2 | e4.7 |
| 10 | 4.0 | e3.1 | 3.4 | e2.4 | e2.3 | 11 | 43 | e48 | e21 | e8.2 | e6.0 | e4.2 |
| 11 | 3.8 | e3.2 | 2.7 | e2.4 | e2.5 | 11 | 41 | e47 | e20 | e8.0 | e6.1 | 3.9 |
| 12 | 3.9 | e3.3 | 2.6 | e2.4 | e2.8 | 9.4 | 43 | e47 | e19 | e8.0 | e6.0 | 3.8 |
| 13 | e3.9 | e3.0 | 2.7 | e2.4 | 3.4 | 7.5 | 47 | e46 | e19 | e8.0 | e5.9 | 3.8 |
| 14 | e3.5 | e3.5 | 2.7 | e2.4 | 3.1 | 7.3 | 42 | e46 | e18 | e9.0 | e5.8 | 4.0 |
| 15 | e3.4 | e3.3 | 2.9 | e2.5 | 3.5 | 7.1 | 44 | e47 | e18 | e10 | e5.6 | 4.0 |
| 16 | e3.4 | 3.4 | 3.0 | e2.4 | 3.6 | 8.5 | 46 | e48 | e17 | e9.7 | e5.4 | 4.0 |
| 17 | e3.3 | e3.4 | e3.1 | e2.4 | 4.0 | 8.4 | 47 | e49 | e17 | e8.5 | e5.2 | 4.0 |
| 18 | e3.3 | e3.2 | e3.0 | e2.4 | 5.6 | 7.9 | 46 | e50 | e16 | e8.3 | e5.3 | 4.0 |
| 19 | e3.3 | e3.0 | e3.0 | e2.5 | 10 | 7.2 | 47 | e52 | e16 | e8.2 | e5.4 | 4.0 |
| 20 | e3.3 | e3.2 | e3.0 | e2.5 | 12 | 7.8 | 51 | e54 | 15 | e8.0 | e6.0 | 3.9 |
| 21 | e3.3 | e3.2 | e3.0 | e2.4 | 8.8 | 9.7 | 55 | e54 | e15 | e8.0 | e5.7 | 3.6 |
| 22 | e3.5 | e3.1 | e3.0 | e2.5 | 7.4 | 13 | 54 | e54 | e15 | e9.0 | e5.5 | 3.3 |
| 23 | e3.4 | e3.2 | e3.0 | e2.5 | 6.6 | 17 | 57 | e52 | e14 | e8.5 | e5.3 | 3.2 |
| 24 | e3.4 | e3.4 | e3.1 | e2.4 | 8.5 | 18 | 55 | e48 | e14 | e8.0 | e5.2 | 4.6 |
| 25 | e3.4 | e3.4 | e3.2 | e2.3 | 11 | 17 | 54 | e46 | e13 | e7.8 | e5.0 | 5.7 |
| 26 | e3.3 | e3.3 | e3.0 | e2.4 | 13 | 17 | 53 | e43 | e13 | e7.8 | e5.0 | 5.2 |
| 27 | e3.3 | e3.2 | e2.8 | e2.4 | 14 | 18 | 50 | e42 | 12 | e7.7 | e4.9 | 4.3 |
| 28 | e3.3 | 3.2 | e2.2 | e2.5 | 12 | 23 | 46 | e40 | e12 | e7.6 | e4.8 | 4.2 |
| 29 | e3.3 | e3.3 | e2.3 | e2.5 | --- | 26 | 48 | e39 | 12 | e7.5 | e4.9 | 4.0 |
| 30 | e3.2 | e3.4 | e2.4 | e2.6 | --- | 28 | 48 | e37 | 11 | e7.4 | e5.0 | 3.6 |
| 31 | e3.2 | --- | e2.5 | e2.6 | --- | 44 | --- | e37 | --- | e7.3 | e4.8 | --- |
| TOTAL | 111.1 | 96.9 | 92.2 | 75.2 | 155.6 | 423.8 | 1410 | 1486 | 560 | 270.5 | 178.7 | 125.1 |
| MEAN | 3.58 | 3.23 | 2.97 | 2.43 | 5.56 | 13.7 | 47.0 | 47.9 | 18.7 | 8.73 | 5.76 | 4.17 |
| MAX | 4.3 | 3.5 | 3.4 | 2.6 | 14 | 44 | 57 | 54 | 32 | 11 | 7.2 | 5.7 |
| MIN | 3.2 | 3.0 | 2.2 | 2.2 | 2.1 | 7.1 | 41 | 37 | 11 | 7.3 | 4.8 | 3.2 |
| ACFT | 220 | 192 | 183 | 149 | 309 | 841 | 2800 | 2950 | 1110 | 537 | 354 | 248 |
| CAL YR 1985 | TOTAL | 3971.0 | MEAN | 10.9 | MAX | 65 | MIN | 1.2 | ACFT | 7880 | | |
| WTR YR 1986 | TOTAL | 4985.1 | MEAN | 13.7 | MAX | 57 | MIN | 2.1 | ACFT | 9890 | | |

e Estimated.

SEVIER LAKE BASIN

10224000 SEVIER RIVER NEAR LYNN DY, 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 mi².

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.--No estimated daily discharges, records fair. Flow regulated by Sevier Bridge Reservoir about 35 mi upstream (see station 10218500). Several diversions for irrigation between reservoir and station.

AVERAGE DISCHARGE.--49 years, 251 ft³/s, 181,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,020 ft³/s June 15-17, 1983; minimum, 2.4 ft³/s Jan. 26, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,190 ft³/s Mar. 10, gage height, 7.55 ft; minimum discharge, 46 ft³/s Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|------|
| 1 | 107 | 176 | 519 | 622 | 710 | 1110 | 841 | 733 | 737 | 505 | 175 | 304 |
| 2 | 112 | 256 | 532 | 620 | 647 | 1130 | 689 | 741 | 731 | 511 | 368 | 317 |
| 3 | 105 | 243 | 553 | 619 | 653 | 1160 | 652 | 805 | 726 | 458 | 525 | 318 |
| 4 | 105 | 247 | 550 | 617 | 653 | 1170 | 636 | 985 | 723 | 460 | 543 | 298 |
| 5 | 104 | 248 | 552 | 617 | 648 | 1170 | 630 | 1010 | 720 | 457 | 547 | 240 |
| 6 | 106 | 248 | 636 | 614 | 650 | 1170 | 673 | 1010 | 723 | 469 | 539 | 183 |
| 7 | 116 | 248 | 658 | 611 | 647 | 1170 | 791 | 1010 | 724 | 478 | 561 | 164 |
| 8 | 123 | 251 | 700 | 611 | 646 | 1170 | 787 | 1040 | 718 | 469 | 589 | 148 |
| 9 | 122 | 253 | 816 | 617 | 645 | 1180 | 794 | 1090 | 706 | 445 | 596 | 138 |
| 10 | 120 | 253 | 827 | 678 | 643 | 1190 | 864 | 974 | 716 | 450 | 618 | 139 |
| 11 | 116 | 256 | 838 | 683 | 645 | 1180 | 885 | 746 | 690 | 458 | 594 | 103 |
| 12 | 112 | 263 | 869 | 683 | 647 | 1180 | 893 | 729 | 843 | 463 | 560 | 66 |
| 13 | 112 | 266 | 875 | 680 | 666 | 1170 | 943 | 727 | 878 | 450 | 435 | 63 |
| 14 | 113 | 266 | 879 | 669 | 934 | 1170 | 955 | 712 | 892 | 413 | 435 | 62 |
| 15 | 113 | 266 | 880 | 647 | 759 | 1170 | 953 | 680 | 898 | 418 | 439 | 71 |
| 16 | 114 | 266 | 880 | 646 | 936 | 1170 | 901 | 690 | 899 | 429 | 442 | 80 |
| 17 | 115 | 278 | 836 | 646 | 931 | 1160 | 907 | 666 | 897 | 364 | 441 | 96 |
| 18 | 114 | 295 | 799 | 645 | 901 | 1150 | 901 | 659 | 905 | 212 | 434 | 81 |
| 19 | 113 | 295 | 801 | 646 | 793 | 1140 | 883 | 673 | 883 | 182 | 420 | 74 |
| 20 | 113 | 296 | 799 | 654 | 806 | 1140 | 864 | 676 | 709 | 171 | 343 | 78 |
| 21 | 113 | 300 | 797 | 665 | 813 | 1140 | 847 | 686 | 685 | 161 | 267 | 87 |
| 22 | 118 | 302 | 793 | 652 | 808 | 1140 | 838 | 784 | 686 | 143 | 255 | 94 |
| 23 | 120 | 303 | 781 | 650 | 806 | 1140 | 822 | 812 | 678 | 154 | 264 | 107 |
| 24 | 121 | 342 | 780 | 651 | 802 | 1140 | 805 | 810 | 651 | 144 | 261 | 119 |
| 25 | 118 | 359 | 765 | 650 | 801 | 1140 | 785 | 793 | 515 | 145 | 255 | 133 |
| 26 | 116 | 354 | 670 | 641 | 816 | 1120 | 777 | 786 | 498 | 156 | 252 | 148 |
| 27 | 115 | 352 | 620 | 617 | 905 | 1030 | 757 | 779 | 471 | 152 | 255 | 137 |
| 28 | 114 | 354 | 614 | 616 | 1060 | 1020 | 745 | 771 | 448 | 160 | 256 | 139 |
| 29 | 113 | 364 | 646 | 618 | --- | 966 | 733 | 771 | 437 | 161 | 263 | 136 |
| 30 | 113 | 405 | 671 | 623 | --- | 883 | 727 | 767 | 438 | 163 | 273 | 173 |
| 31 | 112 | --- | 638 | 652 | --- | 870 | --- | 738 | --- | 155 | 268 | --- |
| TOTAL | 3528 | 8605 | 22574 | 19860 | 21371 | 34839 | 24278 | 24853 | 21225 | 9956 | 12473 | 4296 |
| MEAN | 114 | 287 | 728 | 641 | 763 | 1124 | 809 | 802 | 708 | 321 | 402 | 143 |
| MAX | 123 | 405 | 880 | 683 | 1060 | 1190 | 955 | 1090 | 905 | 511 | 618 | 318 |
| MIN | 104 | 176 | 519 | 611 | 643 | 870 | 630 | 659 | 437 | 143 | 175 | 62 |
| ACFT | 7000 | 17070 | 44780 | 39390 | 42390 | 69100 | 48160 | 49300 | 42100 | 19750 | 24740 | 8520 |
| CAL YR 1985 | TOTAL | 252686 | MEAN | 692 | MAX | 1810 | MIN | 46 | ACFT | 501200 | | |
| WTR YR 1986 | TOTAL | 207858 | MEAN | 569 | MAX | 1190 | MIN | 62 | ACFT | 412300 | | |

SEVIER LAKE BASIN

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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 microsiemens Dec. 27, 1962; minimum daily, 395 microsiemens 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 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | PH (STAND- ARD UNITS) | TEMPER- ATURE, AIR (DEG C) | TEMPER- ATURE (DEG C) | TUR- BID- ITY (NTU) | OXYGEN, DIS- SOLVED (MG/L) | BARO- METRIC PRES- SURE (MM OF HG) | COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) | STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) |
|----------|------|---|---|--------------------------------|-------------------------------------|-----------------------------|------------------------------|-------------------------------------|--|--|--|
| NOV 1985 | | | | | | | | | | | |
| 20... | 0930 | 293 | 1600 | 8.40 | 3.5 | 1.5 | 17 | 11.5 | 634 | <1 | 48 |
| JAN 1986 | | | | | | | | | | | |
| 14... | 1200 | 650 | 1620 | 8.30 | -5.0 | 2.0 | 12 | 12.0 | 634 | K2 | 29 |
| MAR | | | | | | | | | | | |
| 25... | 1045 | 1150 | 1590 | 8.40 | 12.5 | 9.0 | 31 | 9.4 | 635 | <1 | K19 |
| APR | | | | | | | | | | | |
| 29... | 1430 | 734 | 1600 | 8.40 | 21.5 | 14.0 | -- | 8.7 | 628 | -- | -- |
| MAY | | | | | | | | | | | |
| 27... | 1350 | 792 | 1560 | 8.40 | 31.5 | 18.0 | 38 | 7.4 | 629 | 27 | 39 |
| JUN | | | | | | | | | | | |
| 24... | 1230 | 661 | 1460 | 8.40 | 29.0 | 20.0 | -- | -- | -- | -- | -- |
| JUL | | | | | | | | | | | |
| 30... | 1250 | 174 | 1740 | 8.40 | 30.0 | 22.5 | 60 | 7.9 | 634 | 30 | 53 |
| AUG | | | | | | | | | | | |
| 28... | 1525 | 251 | 1530 | 8.40 | 24.0 | 23.0 | -- | -- | -- | -- | -- |
| SEP | | | | | | | | | | | |
| 11... | 1540 | 91 | 1930 | 8.40 | 23.0 | 20.0 | 24 | 8.5 | 646 | -- | -- |

| 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) | BICAR- BONATE IT-FLD (MG/L AS HCO3) | CAR- BONATE IT-FLD (MG/L AS CO3) | ALKA- LITY, CARBON- ATE IT-FLD (MG/L - CACO3) |
|----------|--|---|--|--|--|-------------------|---|---|--|---|---|
| NOV 1985 | | | | | | | | | | | |
| 20... | 450 | 454 | 71 | 67 | 170 | 45 | 4 | 5.7 | 333 | 10 | 289 |
| JAN 1986 | | | | | | | | | | | |
| 14... | 440 | 440 | 69 | 65 | 180 | 47 | 4 | 5.3 | 352 | 0 | 289 |
| MAR | | | | | | | | | | | |
| 25... | 450 | 453 | 72 | 66 | 180 | 46 | 4 | 4.9 | 316 | 14 | 282 |
| APR | | | | | | | | | | | |
| 29... | 440 | 442 | 68 | 66 | 170 | 45 | 4 | 5.3 | -- | -- | -- |
| MAY | | | | | | | | | | | |
| 27... | 440 | 439 | 67 | 66 | 170 | 45 | 4 | 5.1 | 298 | 16 | 271 |
| JUN | | | | | | | | | | | |
| 24... | 390 | 392 | 58 | 60 | 150 | 45 | 3 | 5.0 | -- | -- | -- |
| JUL | | | | | | | | | | | |
| 30... | 450 | 451 | 65 | 70 | 190 | 47 | 4 | 5.8 | 311 | 14 | 278 |
| AUG | | | | | | | | | | | |
| 28... | 420 | 419 | 59 | 66 | 170 | 46 | 4 | 5.5 | -- | -- | -- |
| SEP | | | | | | | | | | | |
| 11... | 500 | 502 | 72 | 78 | 230 | 50 | 5 | 6.3 | 338 | 10 | 293 |

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 1985 TO SEPTEMBER 1986

| DATE | SULFATE DIS- SOLVED (MG/L AS S04) | 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, NITRATE DIS- SOLVED (MG/L AS N) | NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) | NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) |
|----------|---|---|--|---|--|---|---|---|---|---|---|
| NOV 1985 | | | | | | | | | | | |
| 20... | 220 | 220 | 0.4 | 16 | 936 | 960 | 1.3 | 740 | -- | <0.01 | 0.43 |
| JAN 1986 | | | | | | | | | | | |
| 14... | 260 | 250 | 0.3 | 17 | 996 | 1000 | 1.4 | 1750 | -- | -- | -- |
| MAR | | | | | | | | | | | |
| 25... | 260 | 220 | 0.4 | 19 | 983 | 1000 | 1.3 | 3050 | -- | <0.01 | 0.77 |
| APR | | | | | | | | | | | |
| 29... | 260 | 220 | 0.3 | 16 | 978 | 970 | 1.3 | 1940 | -- | -- | 0.65 |
| MAY | | | | | | | | | | | |
| 27... | 260 | 210 | 0.4 | 16 | 958 | 970 | 1.3 | 2050 | -- | <0.01 | 0.53 |
| JUN | | | | | | | | | | | |
| 24... | 220 | 190 | 0.4 | 15 | 870 | 850 | 1.2 | 1550 | -- | -- | 0.53 |
| JUL | | | | | | | | | | | |
| 30... | 250 | 250 | 0.3 | 17 | 1040 | 1000 | 1.4 | 489 | 0.40 | 0.01 | 0.41 |
| AUG | | | | | | | | | | | |
| 28... | 240 | 220 | 0.4 | 16 | 929 | 910 | 1.3 | 630 | -- | -- | 0.39 |
| SEP | | | | | | | | | | | |
| 11... | 300 | 300 | 0.4 | 17 | 1300 | 1200 | 1.8 | 320 | 0.43 | 0.01 | 0.44 |

| DATE | NITRO- GEN, AMMONIA (MG/L AS N) | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) | NITRO- GEN, ORGANIC TOTAL (MG/L AS N) | NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) | PHOS- PHORUS, TOTAL (MG/L AS P) | PHOS- PHORUS TOTAL (MG/L AS P04) | 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 P04) |
|----------|---|---|---|--|---|---|--|--|--|---|
| NOV 1985 | | | | | | | | | | |
| 20... | 0.06 | 0.04 | 0.05 | 0.34 | 0.4 | 0.08 | 0.25 | 0.01 | 0.01 | 0.03 |
| JAN 1986 | | | | | | | | | | |
| 14... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | | | |
| 25... | 0.06 | 0.03 | 0.04 | 0.54 | 0.6 | 0.09 | -- | <0.01 | <0.01 | -- |
| APR | | | | | | | | | | |
| 29... | -- | 0.05 | 0.06 | -- | -- | -- | -- | -- | <0.01 | -- |
| MAY | | | | | | | | | | |
| 27... | 0.05 | 0.04 | 0.05 | 0.45 | 0.5 | 0.11 | -- | <0.10 | <0.01 | -- |
| JUN | | | | | | | | | | |
| 24... | -- | 0.01 | 0.01 | -- | -- | -- | -- | -- | 0.02 | 0.06 |
| JUL | | | | | | | | | | |
| 30... | <0.01 | <0.01 | -- | -- | 0.4 | 0.06 | -- | <0.01 | <0.01 | -- |
| AUG | | | | | | | | | | |
| 28... | -- | <0.01 | -- | -- | -- | -- | -- | -- | 0.01 | 0.03 |
| SEP | | | | | | | | | | |
| 11... | 0.07 | 0.01 | 0.01 | 0.73 | 0.8 | 0.03 | -- | 0.03 | <0.01 | -- |

| 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 1985 | | | | | | | | | | | |
| 20... | 0930 | <10 | 5 | 96 | <0.5 | <1 | <1 | <3 | 3 | <3 | 2 |
| MAR 1986 | | | | | | | | | | | |
| 25... | 1045 | 10 | 6 | 94 | <0.5 | <1 | 20 | <3 | 2 | 4 | <1 |
| SEP | | | | | | | | | | | |
| 11... | 1540 | 10 | 8 | 100 | 1 | 6 | 20 | <3 | 1 | 6 | <5 |

| 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 1985 | | | | | | | | | | |
| 20... | 56 | 10 | <0.1 | <10 | <1 | 1 | 1 | 890 | <6 | 12 |
| MAR 1986 | | | | | | | | | | |
| 25... | 58 | 3 | <0.1 | 10 | 1 | 1 | <1 | 1100 | <6 | 47 |
| SEP | | | | | | | | | | |
| 11... | 70 | 9 | <0.1 | <10 | 4 | 1 | <1 | 970 | <6 | 12 |

SEVIER LAKE BASIN

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10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | BORON, DIS- SOLVED (UG/L AS B) |
|----------|------|--|
| APR 1986 | | |
| 29... | 1430 | 230 |
| JUN | | |
| 24... | 1230 | 220 |
| AUG | | |
| 28... | 1525 | 240 |

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM | SEDI- MENT, SUS- PENDE (MG/L) | SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) |
|----------|------|---|-----------------------------|--|---|---|
| NOV 1985 | | | | | | |
| 20... | 0930 | 293 | 1.5 | 54 | 86 | 68 |
| JAN 1986 | | | | | | |
| 14... | 1200 | 650 | 2.0 | 46 | 88 | 154 |
| MAR | | | | | | |
| 25... | 1045 | 1150 | 9.0 | 54 | 347 | 1080 |
| MAY | | | | | | |
| 27... | 1350 | 792 | 18.0 | 59 | 301 | 644 |
| JUL | | | | | | |
| 30... | 1250 | 174 | 22.5 | 77 | 164 | 77 |
| SEP | | | | | | |
| 11... | 1540 | 91 | 20.0 | 82 | 74 | 18 |

SEVIER LAKE BASIN

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 mi².

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.--22 years, 3.38 ft³/s, 2,450 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 120 ft³/s Apr. 29, 1973, gage height, 2.21 ft; minimum, 0.03 ft³/s Dec. 31, 1967, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--|------|-----------------------------------|---------------------|--|------|-----------------------------------|---------------------|
| Apr. 1 | 1900 | *19 | *1.45 | No other peak greater than base discharge. | | | |
| Minimum daily, 0.53 ft ³ /s Oct. 3. | | | | | | | |

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|------|-------|------|------|-------|-------|-------|-------|
| 1 | .57 | .80 | .97 | e1.1 | 1.5 | 7.3 | 14 | 13 | 11 | 1.8 | .89 | .74 |
| 2 | .55 | .82 | .99 | e1.2 | 1.6 | 7.3 | 17 | 14 | 10 | 1.6 | .87 | .72 |
| 3 | .53 | .83 | .99 | e1.2 | 1.8 | 7.3 | 17 | 14 | 9.4 | 1.4 | .84 | .71 |
| 4 | .55 | .79 | .98 | e1.2 | 1.7 | 7.3 | 17 | 15 | 9.4 | 1.4 | .83 | .70 |
| 5 | .54 | .88 | .97 | e1.2 | 1.7 | 7.3 | 17 | 14 | 8.8 | 1.4 | .81 | .68 |
| 6 | .57 | .80 | .97 | e1.2 | 1.7 | 7.3 | 17 | 14 | 8.3 | 1.4 | .83 | .65 |
| 7 | 1.0 | .80 | .98 | e1.1 | 1.7 | 7.3 | 17 | 13 | 7.9 | 1.4 | .82 | .63 |
| 8 | .87 | .84 | e.97 | e1.1 | e1.6 | 7.6 | 17 | 12 | 7.8 | 1.4 | .79 | .63 |
| 9 | .91 | .86 | 1.0 | e1.2 | e1.5 | 8.5 | 16 | 12 | 7.7 | 1.3 | .82 | .75 |
| 10 | .84 | .87 | e.98 | e1.1 | e1.4 | 8.5 | 15 | 12 | 7.2 | 1.3 | .84 | .79 |
| 11 | .77 | .92 | e.94 | e1.1 | e1.5 | 8.5 | 15 | 14 | 6.5 | 1.3 | .83 | .72 |
| 12 | .77 | e.89 | e.90 | e1.1 | e1.6 | 8.3 | 15 | 15 | 6.1 | 1.2 | .81 | .69 |
| 13 | .81 | e.86 | e1.0 | e1.0 | e1.6 | 8.0 | 15 | 15 | 5.7 | 1.2 | .79 | .68 |
| 14 | .73 | .91 | e.98 | e1.0 | e1.6 | 7.9 | 14 | 15 | 5.5 | 1.2 | .79 | .66 |
| 15 | .72 | .91 | e.97 | e1.0 | e1.7 | 7.5 | 14 | 15 | 5.1 | 1.2 | .77 | .65 |
| 16 | .67 | .92 | e.99 | e.99 | e2.1 | 7.3 | 13 | 15 | 5.0 | 1.2 | .76 | .64 |
| 17 | .69 | .91 | e1.0 | e1.0 | e3.0 | 7.1 | 13 | 15 | 4.8 | 1.2 | .72 | .65 |
| 18 | .70 | e.90 | e1.0 | 1.1 | e3.4 | 6.9 | 13 | 15 | 4.6 | 1.2 | .72 | .67 |
| 19 | .68 | e.87 | e1.1 | 1.2 | e5.6 | 6.6 | 13 | 15 | 4.5 | 1.2 | .74 | .68 |
| 20 | .65 | e.90 | e1.1 | 1.4 | 6.6 | 6.7 | 12 | 15 | 4.4 | 1.2 | .81 | .67 |
| 21 | .70 | e.92 | e1.1 | 1.4 | 6.2 | 6.8 | 13 | 15 | 4.1 | 1.2 | .88 | .67 |
| 22 | .91 | .93 | e1.1 | 1.4 | 6.0 | 7.3 | 13 | 15 | 3.8 | 1.2 | .79 | .66 |
| 23 | .87 | e.92 | e1.1 | 1.4 | 6.1 | 8.0 | 14 | 15 | 3.5 | 1.1 | .76 | .74 |
| 24 | .80 | .98 | e1.2 | 1.4 | 6.4 | 8.5 | 15 | 15 | 3.3 | 1.1 | .77 | .82 |
| 25 | .77 | 1.0 | e1.2 | 1.6 | 6.6 | 8.7 | 15 | 14 | 3.1 | 1.0 | .76 | 1.0 |
| 26 | .75 | .98 | e1.2 | 1.3 | 7.1 | 9.2 | 15 | 13 | 2.8 | .97 | .74 | .87 |
| 27 | .75 | .97 | e1.2 | 1.3 | 7.2 | 9.2 | 15 | 13 | 2.6 | .95 | .73 | .89 |
| 28 | .75 | 1.0 | e1.1 | 1.3 | 7.3 | 9.6 | 14 | 13 | 2.4 | .92 | .76 | .92 |
| 29 | .77 | 1.1 | e1.0 | 1.3 | --- | 11 | 13 | 13 | 2.2 | .93 | .76 | .84 |
| 30 | .78 | .98 | e1.1 | 1.2 | --- | 11 | 13 | 12 | 2.0 | .94 | .74 | .84 |
| 31 | .80 | --- | e1.2 | 1.6 | --- | 13 | --- | 11 | --- | .91 | .72 | --- |
| TOTAL | 22.77 | 27.06 | 32.28 | 37.69 | 97.8 | 252.8 | 441 | 431 | 169.5 | 37.72 | 24.49 | 21.96 |
| MEAN | .73 | .90 | 1.04 | 1.22 | 3.49 | 8.15 | 14.7 | 13.9 | 5.65 | 1.22 | .79 | .73 |
| MAX | 1.0 | 1.1 | 1.2 | 1.6 | 7.3 | 13 | 17 | 15 | 11 | 1.8 | .89 | 1.0 |
| MIN | .53 | .79 | .90 | .99 | 1.4 | 6.6 | 12 | 11 | 2.0 | .91 | .72 | .63 |
| ACFT | 45 | 54 | 64 | 75 | 194 | 501 | 875 | 855 | 336 | 75 | 49 | 44 |
| CAL YR 1985 | TOTAL | 945.12 | MEAN | 2.59 | MAX | 15 | MIN | .39 | ACFT | 1870 | | |
| WTR YR 1986 | TOTAL | 1596.07 | MEAN | 4.37 | MAX | 17 | MIN | .53 | ACFT | 3170 | | |

e Estimated.

SEVIER LAKE BASIN

335

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 boundary, 3.2 mi east of Oak City along road to Forest Camp.

DRAINAGE AREA.--17.8 mi².

PERIOD OF RECORD.--June 1979 to September 1986 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,640 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--7 years, 16.0 ft³/s, 11,590 acre ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 190 ft³/s May 23, 1983; minimum daily, 1.7 ft³/s Oct. 1-3, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|-------|-------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| May 4 | daily | *85 | -- | | | | |

Minimum daily discharge, 3.2 ft³/s Oct. 1-4, Nov. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|------|------|------|------|-------|-------|-------|
| 1 | 3.2 | 4.5 | 7.1 | 5.4 | 7.1 | 21 | 43 | e51 | e33 | 13 | 7.7 | 6.1 |
| 2 | 3.2 | 4.5 | 8.1 | 5.4 | e8.2 | 23 | 52 | e53 | e39 | 12 | 7.6 | 6.1 |
| 3 | 3.2 | 4.5 | 8.0 | 6.5 | e8.0 | e22 | 55 | e70 | e33 | 12 | 7.3 | 6.1 |
| 4 | 3.2 | 4.5 | 8.1 | 6.2 | 7.1 | e25 | 54 | e85 | e32 | 11 | 7.4 | 6.1 |
| 5 | 3.4 | 4.7 | 7.8 | 5.4 | 6.6 | 23 | 51 | e79 | e30 | 11 | 7.3 | 6.1 |
| 6 | 3.7 | 4.3 | 7.5 | 4.9 | 6.9 | 23 | 57 | e70 | e28 | 11 | 7.4 | 6.1 |
| 7 | 4.3 | 4.2 | 6.4 | 3.9 | 6.3 | 24 | e53 | e61 | e26 | 11 | 7.7 | 6.1 |
| 8 | 3.9 | 4.2 | 6.1 | 4.0 | e5.8 | e20 | e63 | e57 | e27 | 11 | 7.5 | 6.1 |
| 9 | 3.9 | 4.2 | 5.9 | 4.2 | e5.8 | e23 | e54 | e47 | 23 | 10 | 7.3 | 6.1 |
| 10 | 3.7 | 4.2 | 5.5 | 4.2 | e6.0 | e23 | e40 | e41 | 20 | 11 | 7.2 | 6.0 |
| 11 | 3.7 | 4.3 | e5.2 | 4.4 | 6.4 | 28 | e42 | e47 | 18 | 11 | 6.9 | 5.8 |
| 12 | 3.7 | 4.2 | e4.6 | 4.5 | 6.2 | 22 | e42 | e53 | 18 | 11 | 6.9 | 5.8 |
| 13 | 3.7 | 3.8 | e4.9 | 4.5 | 6.6 | 28 | e48 | e63 | 18 | 11 | 6.9 | 5.8 |
| 14 | 3.7 | 3.9 | e5.3 | 4.5 | 6.6 | 25 | e41 | e63 | 19 | 10 | 6.9 | 5.8 |
| 15 | 3.7 | 3.8 | e5.8 | 5.6 | 8.7 | 22 | e41 | e67 | 19 | 10 | 6.9 | 5.8 |
| 16 | 3.7 | 3.7 | e5.6 | 7.0 | 9.5 | 20 | e37 | e63 | e18 | 10 | 6.9 | 5.7 |
| 17 | 3.7 | 3.7 | e5.2 | e8.1 | 11 | 19 | e45 | 58 | e21 | 10 | 6.9 | 5.4 |
| 18 | 3.7 | 3.7 | e5.1 | e8.7 | 12 | 21 | e35 | e59 | e22 | 9.9 | 6.9 | 5.4 |
| 19 | 3.7 | 3.2 | e4.9 | e9.1 | 15 | 17 | e35 | 58 | e20 | 8.9 | 6.5 | 5.4 |
| 20 | 3.7 | 3.5 | e4.6 | e10 | 15 | 17 | e31 | 50 | e20 | 8.6 | 6.5 | 5.4 |
| 21 | 4.0 | 3.8 | e4.6 | e10 | 15 | 18 | e36 | e49 | e20 | 8.6 | 6.5 | 5.4 |
| 22 | 4.9 | 3.8 | e4.5 | e8.4 | 14 | 18 | e40 | e47 | e21 | 8.6 | 6.5 | 5.4 |
| 23 | 4.8 | 3.9 | e4.6 | e9.4 | 14 | 21 | e42 | e39 | e19 | 8.6 | 6.1 | 5.5 |
| 24 | 4.5 | 4.7 | e4.7 | e8.8 | 15 | 25 | e44 | e44 | e19 | 9.1 | 6.1 | 5.7 |
| 25 | 4.5 | 5.0 | e4.7 | e9.0 | 16 | 27 | e51 | e42 | e19 | 9.1 | 6.1 | 5.4 |
| 26 | 4.5 | 4.7 | e4.6 | e10 | e18 | 26 | e67 | e39 | 16 | 9.0 | 6.1 | 5.2 |
| 27 | 4.6 | 4.9 | e4.5 | e9.0 | e21 | 28 | e59 | 41 | 14 | 8.6 | 6.0 | 5.8 |
| 28 | 4.4 | 6.0 | e4.9 | e13 | 23 | 30 | e55 | 40 | 16 | 8.6 | 5.8 | 6.0 |
| 29 | 4.5 | 7.7 | e4.7 | 14 | --- | 32 | e51 | 33 | 15 | 7.8 | 5.8 | 5.5 |
| 30 | 4.5 | 7.2 | e5.1 | e12 | --- | 36 | e55 | 34 | 15 | 7.7 | 5.8 | 5.4 |
| 31 | 4.5 | --- | 5.6 | e12 | --- | e36 | --- | 36 | --- | 7.7 | 5.9 | --- |
| TOTAL | 122.4 | 133.3 | 174.2 | 232.1 | 300.8 | 743 | 1419 | 1639 | 658 | 306.8 | 209.3 | 172.5 |
| MEAN | 3.95 | 4.44 | 5.62 | 7.49 | 10.7 | 24.0 | 47.3 | 52.9 | 21.9 | 9.90 | 6.75 | 5.75 |
| MAX | 4.9 | 7.7 | 8.1 | 14 | 23 | 36 | 67 | 85 | 39 | 13 | 7.7 | 6.1 |
| MIN | 3.2 | 3.2 | 4.5 | 3.9 | 5.8 | 17 | 31 | 33 | 14 | 7.7 | 5.8 | 5.2 |
| ACFT | 243 | 264 | 346 | 460 | 597 | 1470 | 2810 | 3250 | 1310 | 609 | 415 | 342 |

| | | | | | | | | | | |
|-------------|-------|--------|------|------|-----|----|-----|-----|------|-------|
| CAL YR 1985 | TOTAL | 3699.5 | MEAN | 10.1 | MAX | 44 | MIN | 2.9 | ACFT | 7340 |
| WTR YR 1986 | TOTAL | 6110.4 | MEAN | 16.7 | MAX | 85 | MIN | 3.2 | ACFT | 12120 |

e Estimated.

BEAVER RIVER BASIN

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 mi².

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, non-recording 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, except for estimated daily discharges, which are poor. No diversion for irrigation above station. Water diverted for hydroelectric power, but returned to stream above station. Some regulation by powerplants and several small reservoirs.

AVERAGE DISCHARGE.--72 years, 53.3 ft³/s, 38,620 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,080 ft³/s July 22, 1936, gage height, 7.27 ft, site and datum then in use, from rating curve extended above 500 ft³/s; minimum, 1.8 ft³/s Dec. 6, 1976, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| May 3 | 2130 | *444 | *2.35 | July 15 | 2200 | 182 | 1.55 |
| May 23 | 1330 | 369 | 2.24 | | | | |

Minimum daily discharge, 14 ft³/s Dec. 15-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|-------|------|-------|------|------|
| 1 | 25 | 22 | 25 | 21 | 23 | 36 | 102 | 202 | 278 | 95 | 78 | 56 |
| 2 | 28 | 24 | 25 | 24 | 23 | 39 | 100 | 229 | 255 | 92 | 76 | 54 |
| 3 | 25 | 23 | 25 | 23 | 23 | 39 | 84 | 313 | 248 | 91 | 74 | 52 |
| 4 | 24 | 23 | 25 | 23 | 22 | 40 | 73 | 295 | 250 | 96 | 75 | 51 |
| 5 | 17 | 22 | 25 | 23 | 21 | 41 | 68 | 238 | 235 | 96 | 80 | 50 |
| 6 | 23 | 21 | 25 | 24 | 21 | 46 | 68 | 209 | 228 | 92 | 79 | 50 |
| 7 | 24 | 22 | 24 | e23 | 21 | 49 | 74 | 190 | 193 | 89 | 77 | 48 |
| 8 | 29 | e22 | 25 | e23 | e20 | 47 | 71 | 185 | 169 | 88 | 73 | 47 |
| 9 | 28 | e22 | 24 | e23 | e20 | 45 | 70 | 177 | 139 | 85 | 72 | 47 |
| 10 | 28 | e22 | e22 | 24 | e20 | 44 | 65 | e188 | 119 | 88 | 73 | 48 |
| 11 | 27 | e22 | e19 | 23 | e20 | 37 | 70 | e200 | 115 | 94 | 73 | 51 |
| 12 | 26 | e23 | e17 | 23 | e20 | 35 | 79 | e210 | 112 | 90 | 86 | 48 |
| 13 | 26 | e26 | e16 | 23 | e21 | 37 | 86 | e225 | 120 | 90 | 87 | 46 |
| 14 | 23 | e22 | e15 | 23 | 22 | 34 | 81 | e235 | 116 | 89 | 74 | 45 |
| 15 | 24 | e20 | e14 | 24 | 24 | 30 | 77 | e247 | 114 | 106 | 71 | 44 |
| 16 | e24 | e19 | e14 | 24 | 23 | 32 | 81 | e255 | 126 | 101 | 73 | 43 |
| 17 | e26 | e18 | e14 | 23 | 23 | 29 | 77 | e262 | e123 | 90 | 72 | 42 |
| 18 | 24 | e18 | e14 | 22 | 24 | 29 | 71 | e270 | e123 | 86 | 71 | 40 |
| 19 | 25 | e17 | e14 | 23 | 25 | 25 | 68 | e275 | e123 | 83 | 72 | 36 |
| 20 | 24 | e18 | e15 | 23 | 23 | 28 | 70 | e280 | e123 | 82 | 73 | 36 |
| 21 | 24 | e19 | 15 | 23 | 23 | 32 | 89 | e280 | e123 | 83 | 85 | 35 |
| 22 | 25 | e20 | 15 | 23 | 24 | 36 | 127 | e275 | e123 | 91 | 76 | 32 |
| 23 | 25 | e20 | 16 | 22 | 22 | 43 | 140 | e270 | e123 | 95 | 71 | 34 |
| 24 | 25 | e21 | 18 | 21 | 24 | 47 | 139 | 257 | e120 | 90 | 73 | 42 |
| 25 | 25 | e21 | 19 | 21 | 28 | 47 | 125 | 261 | e112 | 87 | 71 | 40 |
| 26 | 25 | e22 | 17 | 21 | 32 | 50 | 115 | 255 | e108 | 88 | 69 | 41 |
| 27 | 24 | 22 | e18 | 21 | 34 | 62 | 107 | 276 | e106 | 80 | 66 | 40 |
| 28 | 25 | 23 | 19 | 21 | 35 | 74 | 111 | 268 | e103 | 79 | 65 | 38 |
| 29 | 24 | 24 | 19 | 21 | --- | 79 | 137 | 272 | e98 | 79 | 59 | 38 |
| 30 | 24 | 24 | e20 | 22 | --- | 79 | 168 | 238 | e97 | 79 | 57 | 38 |
| 31 | 25 | --- | e20 | 23 | --- | 100 | --- | 251 | --- | 79 | 57 | --- |
| TOTAL | 771 | 642 | 593 | 701 | 661 | 1391 | 2793 | 7588 | 4422 | 2753 | 2258 | 1312 |
| MEAN | 24.9 | 21.4 | 19.1 | 22.6 | 23.6 | 44.9 | 93.1 | 245 | 147 | 88.8 | 72.8 | 43.7 |
| MAX | 29 | 26 | 25 | 24 | 35 | 100 | 168 | 313 | 278 | 106 | 87 | 56 |
| MIN | 17 | 17 | 14 | 21 | 20 | 25 | 65 | 177 | 97 | 79 | 57 | 32 |
| ACFT | 1530 | 1270 | 1180 | 1390 | 1310 | 2760 | 5540 | 15050 | 8770 | 5460 | 4480 | 2600 |
| CAL YR 1985 | TOTAL | 23426 | MEAN | 64.2 | MAX | 306 | MIN | 14 | ACFT | 46470 | | |
| WTR YR 1986 | TOTAL | 25885 | MEAN | 70.9 | MAX | 313 | MIN | 14 | ACFT | 51340 | | |

e Estimated.

BEAVER RIVER BASIN

337

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 mi².

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 good except for estimated daily discharges, which are fair. One small diversion between station and Minersville Reservoir. Several ditches above station divert practically entire flow during irrigation season to supply Adamsville and Beaver districts.

AVERAGE DISCHARGE.--72 years (1914-86), 39.7 ft³/s, 28,760 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,700 ft³/s June 19, 20, 1983; no flow during summer and fall months in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 445 ft³/s June 4, gage height, 5.22 ft; no flow July 11-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|----------|------|------|------|------|------|------|--------|--------|-------|------|
| 1 | 13 | 58 | 74 | 58 | 50 | 65 | 125 | 46 | 358 | 4.4 | 9.0 | 20 |
| 2 | 13 | 63 | 82 | 57 | 49 | 67 | 144 | 63 | 335 | 9.8 | 8.8 | 18 |
| 3 | 13 | 65 | 87 | 58 | 52 | 66 | 143 | 76 | 292 | 7.7 | 8.2 | 17 |
| 4 | 13 | 60 | 70 | 56 | 51 | 66 | 121 | 92 | 364 | 4.8 | 8.2 | 17 |
| 5 | 12 | 59 | 69 | 56 | 48 | 68 | 108 | 81 | 400 | 5.8 | 5.6 | 16 |
| 6 | 13 | 55 | 66 | 55 | 48 | 71 | 111 | 68 | 304 | 5.7 | 4.9 | 16 |
| 7 | 16 | 56 | 64 | e54 | e45 | 75 | 120 | 61 | 258 | 5.3 | 5.0 | 17 |
| 8 | 38 | 61 | 64 | e54 | e44 | 75 | 112 | 60 | 215 | 4.6 | 6.5 | 18 |
| 9 | 68 | 58 | 59 | e54 | e44 | 80 | 100 | 54 | 178 | 3.9 | 7.6 | 17 |
| 10 | 86 | 52 | 57 | 55 | e44 | 76 | 79 | 50 | 129 | 1.1 | 4.5 | 19 |
| 11 | 60 | 56 | 58 | 54 | e45 | 75 | 82 | 40 | 82 | .20 | 6.3 | 19 |
| 12 | 42 | 59 | 56 | 54 | 48 | 71 | 75 | 36 | 65 | .00 | 8.0 | 22 |
| 13 | 40 | 59 | e56 | 53 | 53 | 73 | 71 | 40 | 53 | .00 | 7.5 | 23 |
| 14 | 38 | 63 | e56 | 52 | 55 | 74 | 65 | 50 | 43 | 1.4 | 4.8 | 20 |
| 15 | 37 | 61 | e56 | 53 | 56 | 67 | 62 | 59 | 38 | 3.3 | 3.9 | 19 |
| 16 | 38 | 66 | e56 | 55 | 52 | 72 | 46 | 58 | 36 | 2.6 | 3.7 | 18 |
| 17 | 38 | 70 | e56 | 55 | 50 | 68 | 47 | 49 | 33 | 3.1 | 2.9 | 18 |
| 18 | 37 | 65 | e56 | 53 | 49 | 65 | 53 | 49 | 28 | 1.7 | 3.8 | 19 |
| 19 | 37 | 54 | e56 | 53 | 51 | 59 | 47 | 66 | 26 | 1.4 | 4.9 | 19 |
| 20 | 37 | 59 | e56 | 53 | 50 | 57 | 45 | 84 | 25 | 1.6 | 6.1 | 18 |
| 21 | 37 | 62 | e55 | 51 | 47 | 62 | 43 | 97 | 17 | 2.7 | 23 | 18 |
| 22 | 47 | 62 | e54 | 51 | 48 | 70 | 51 | 115 | 16 | 5.4 | 21 | 19 |
| 23 | 47 | 65 | e53 | 51 | 45 | 85 | 62 | 110 | 17 | 8.9 | 15 | 23 |
| 24 | 47 | 67 | e53 | 50 | 46 | 97 | 61 | 137 | 14 | 8.3 | 16 | 31 |
| 25 | 46 | 67 | e52 | 49 | 48 | 96 | 51 | 165 | 11 | 8.6 | 16 | 55 |
| 26 | 46 | 62 | e52 | 50 | 55 | 100 | 60 | 212 | 5.4 | 7.7 | 15 | 75 |
| 27 | 47 | 58 | e52 | 50 | 63 | 111 | 56 | 269 | 1.7 | 11 | 17 | 51 |
| 28 | 49 | 63 | e52 | 49 | 64 | 119 | 45 | 326 | 1.8 | 10 | 17 | 46 |
| 29 | 50 | 68 | e53 | 49 | --- | 118 | 29 | 379 | 1.4 | 9.3 | 18 | 46 |
| 30 | 48 | 86 | 59 | 50 | --- | 118 | 31 | 317 | 2.2 | 9.8 | 17 | 43 |
| 31 | 50 | --- | 70 | 52 | --- | 130 | --- | 321 | --- | 10 | 17 | --- |
| TOTAL | 1203 | 1859 | 1859 | 1644 | 1400 | 2496 | 2245 | 3630 | 3349.5 | 160.10 | 312.2 | 777 |
| MEAN | 38.8 | 62.0 | 60.0 | 53.0 | 50.0 | 80.5 | 74.8 | 117 | 112 | 5.16 | 10.1 | 25.9 |
| MAX | 86 | 86 | 87 | 58 | 64 | 130 | 144 | 379 | 400 | 11 | 23 | 75 |
| MIN | 12 | 52 | 52 | 49 | 44 | 57 | 29 | 36 | 1.4 | .00 | 2.9 | 16 |
| ACFT | 2390 | 3690 | 3690 | 3260 | 2780 | 4950 | 4450 | 7200 | 6640 | 318 | 619 | 1540 |
| CAL YR 1985 | TOTAL | 20792.48 | MEAN | 57.0 | MAX | 301 | MIN | .55 | ACFT | 41240 | | |
| WTR YR 1986 | TOTAL | 20934.80 | MEAN | 57.4 | MAX | 400 | MIN | .00 | ACFT | 41520 | | |

e Estimated.

BEAVER RIVER BASIN

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 mi².

PERIOD OF RECORD.--April to August 1915, November 1915 to September 1917, December 1917 to March 1921, June to September 1922, October 1937 to current year. Month-end contents only for some periods, published in WSP 1314. Published as Rockyford Reservoir near Minersville prior to October 1, 1967.

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

GAGE.--Staff gage. Datum of gage is at 5,452.0 ft NGVD of 1929 (levels by topographic survey).

REMARKS.--Reservoir is formed by earthfill dam completed in 1914. Capacity, 23,260 acre-ft between gage height, 8.0 ft (bottom of outlet tunnel) and 51.0 ft (spillway crest). Prior to fall of 1937, the spillway crest was at elevation 52.5 ft; capacity, 24,910 acre-ft. Dead storage negligible. Figures given herein represent total contents. Water is used for irrigation in vicinity of Minersville and Milford.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 26,330 acre-ft June 24-29, 1969, gage height, 53.8 ft. No contents at times in 1915, 1918-19, 1939, 1956, and 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 24,730 acre-ft June 10, gage height, 53.8 ft; minimum observed, 7,750 acre-ft, Sept. 24, gage height, 33.8 ft.

MONTHEND ELEVATION, IN FEET, AND CONTENTS AT 2400, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| Date | Elevation (feet) | Contents (acre-feet) | Change in contents (acre-feet) |
|-----------------------|---------------------|-------------------------|-----------------------------------|
| Sept. 30 | - | *7,340 | - |
| Oct. 31 | - | *10,620 | +3,280 |
| Nov. 30 | - | *12,770 | +2,150 |
| Dec. 31 | - | *15,730 | +2,960 |
| CAL YR 1985 | - | - | -5,340 |
| Jan. 31 | - | *18,280 | +2,550 |
| Feb. 28 | - | *20,280 | +2,000 |
| Mar. 31 | - | *23,850 | +3,570 |
| Apr. 30 | - | *23,620 | -230 |
| May 31 | - | *23,370 | -250 |
| June 30 | - | *21,280 | -2,090 |
| July 31 | - | *15,240 | -6,040 |
| Aug. 31 | - | *9,620 | -5,620 |
| Sept. 30 | - | *8,520 | -1,100 |
| WTR YR 1986 | - | - | +1,180 |

(*) No gage height reading, contents interpolated.

BEAVER RIVER BASIN

339

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 mi².

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 good except for estimated daily discharges, which are poor. One small diversion between dam and station. Flow regulated by Minersville Reservoir (formerly published as Rockyford Reservoir). Numerous diversions for irrigation and municipal use above reservoir.

AVERAGE DISCHARGE.--71 years (1914-36, 1937-86), 41.5 ft³/s, 30,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,220 ft³/s June 12, 1983, gage height, 4.74 ft, from rating curve extended above 500 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 0.4 ft³/s Mar. 20, 1914.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 225 ft³/s June 8, gage height, 2.10 ft; minimum daily, 6.2 ft³/s Nov. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|-------|-------|-------|------|------|------|------|-------|------|--------|
| 1 | 7.1 | 6.5 | e7.1 | e7.1 | 9.8 | 12 | 13 | 94 | 159 | 161 | 118 | 144 |
| 2 | 7.4 | 6.3 | e7.1 | e7.1 | 9.7 | 11 | 47 | 122 | 154 | 147 | 123 | 144 |
| 3 | 7.1 | 6.2 | e7.1 | 7.1 | 10 | 11 | 98 | 114 | 162 | 138 | 96 | 144 |
| 4 | 7.1 | 6.6 | e7.1 | 7.1 | 9.0 | 12 | 99 | 115 | 164 | 126 | 130 | 139 |
| 5 | 7.1 | 7.1 | e7.1 | 7.1 | 9.0 | 12 | 101 | 120 | 200 | 112 | 140 | 130 |
| 6 | 7.5 | 7.0 | e7.1 | 7.1 | 9.0 | 12 | 101 | 119 | 209 | 122 | 138 | 120 |
| 7 | 7.5 | 7.1 | e7.1 | 7.1 | 9.0 | 13 | 102 | 109 | 211 | 124 | 158 | 120 |
| 8 | 8.2 | 7.0 | e7.1 | 7.1 | 9.0 | 13 | 105 | 99 | 215 | 122 | 156 | 116 |
| 9 | 7.6 | 7.0 | e7.1 | 7.1 | 9.0 | 13 | 107 | 98 | 218 | 118 | 157 | 103 |
| 10 | 7.2 | 6.9 | e7.1 | 7.3 | 9.0 | 13 | 105 | 96 | 209 | 131 | 161 | 103 |
| 11 | 7.0 | 7.0 | e7.1 | 7.7 | 8.3 | 13 | 103 | 94 | 201 | 136 | 162 | 99 |
| 12 | 7.1 | 7.1 | e7.1 | 7.7 | 8.3 | 12 | 105 | 86 | 179 | 136 | 171 | 83 |
| 13 | 6.9 | 7.0 | e7.1 | 7.7 | 8.3 | 12 | 113 | 93 | 103 | 136 | 93 | 83 |
| 14 | 6.5 | 6.5 | e7.1 | 7.7 | 8.3 | 13 | 111 | 95 | 20 | 135 | 57 | 83 |
| 15 | 6.5 | 6.5 | e7.1 | 8.0 | 8.3 | 13 | 113 | 95 | 34 | 138 | 157 | 83 |
| 16 | 6.5 | 6.6 | e7.1 | 8.3 | 8.3 | 13 | 120 | 96 | 82 | 145 | 168 | 67 |
| 17 | 6.5 | 6.5 | e7.1 | 8.3 | 9.7 | 12 | 120 | 98 | 87 | 142 | 166 | 67 |
| 18 | 7.1 | 6.5 | e7.1 | 8.3 | 9.7 | 12 | 103 | 117 | 103 | 139 | 165 | 64 |
| 19 | 7.1 | 6.5 | e7.1 | 8.6 | 9.0 | 12 | 91 | 124 | 117 | 140 | 163 | 48 |
| 20 | 7.1 | 6.5 | e7.1 | 9.0 | 9.0 | 12 | 94 | 125 | 117 | 144 | 162 | 44 |
| 21 | 7.1 | 6.5 | e7.1 | 9.0 | 9.0 | 11 | 86 | 124 | 121 | 148 | 161 | 8.0 |
| 22 | 7.2 | 6.6 | e7.1 | 9.0 | 9.0 | 12 | 24 | 124 | 123 | 152 | 159 | 7.7 |
| 23 | 7.1 | 6.8 | e7.1 | 9.2 | 9.7 | 12 | 24 | 58 | 129 | 136 | 155 | 7.9 |
| 24 | 7.1 | 6.6 | e7.1 | 9.7 | 9.7 | 12 | 24 | 120 | 153 | 128 | 149 | 7.7 |
| 25 | 7.1 | 7.1 | e7.1 | 9.7 | 10 | 12 | 98 | 146 | 158 | 118 | 136 | 8.0 |
| 26 | 7.1 | 7.1 | e7.1 | 9.7 | 11 | 12 | 124 | 155 | 161 | 103 | 142 | 7.9 |
| 27 | 7.1 | 7.1 | e7.1 | 9.7 | 11 | 12 | 123 | 156 | 178 | 104 | 145 | 7.7 |
| 28 | 6.9 | 7.1 | e7.1 | 9.8 | 11 | 12 | 124 | 156 | 174 | 110 | 145 | 7.6 |
| 29 | 6.5 | e7.1 | e7.1 | 10 | --- | 13 | 124 | 170 | 174 | 119 | 140 | 7.5 |
| 30 | 6.4 | e7.1 | e7.1 | 10 | --- | 13 | 121 | 173 | 173 | 117 | 137 | 7.7 |
| 31 | 6.4 | --- | e7.1 | 10 | --- | 13 | --- | 168 | --- | 116 | 137 | --- |
| TOTAL | 218.1 | 203.5 | 220.1 | 258.3 | 260.1 | 380 | 2823 | 3659 | 4488 | 4043 | 4447 | 2061.7 |
| MEAN | 7.04 | 6.78 | 7.10 | 8.33 | 9.29 | 12.3 | 94.1 | 118 | 150 | 130 | 143 | 68.7 |
| MAX | 8.2 | 7.1 | 7.1 | 10 | 11 | 13 | 124 | 173 | 218 | 161 | 171 | 144 |
| MIN | 6.4 | 6.2 | 7.1 | 7.1 | 8.3 | 11 | 13 | 58 | 20 | 103 | 57 | 7.5 |
| ACFT | 433 | 404 | 437 | 512 | 516 | 754 | 5600 | 7260 | 8900 | 8020 | 8820 | 4090 |
| CAL YR 1985 | TOTAL | 28775.3 | MEAN | 78.8 | MAX | 323 | MIN | 6.2 | ACFT | 57080 | | |
| WTR YR 1986 | TOTAL | 23061.8 | MEAN | 63.2 | MAX | 218 | MIN | 6.2 | ACFT | 45740 | | |

e Estimated.

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 Parowan Creek and 3.5 mi south of Parowan.

DRAINAGE AREA.--11.6 mi².

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

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

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

REMARKS.--Records fair except for estimated daily discharges, which are poor. No diversion or regulation above station.

AVERAGE DISCHARGE.--22 years, 6.60 ft³/s, 4,780 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 353 ft³/s Aug. 10, 1965, gage height, 4.96 ft from floodmarks, from rating curve extended above 18 ft³/s on basis of slope-area measurements at gage height 4.96 ft; minimum recorded, 1.4 ft³/s July 16, 1972 and Jan. 24, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
|------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|

| | | | | | | | |
|---------|----|-----|--------|--|--|--|--|
| June 19 | -- | *12 | *daily | | | | |
|---------|----|-----|--------|--|--|--|--|

Minimum daily discharge, 4.3 ft³/s Feb. 8, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 6.8 | 5.6 | 5.4 | 4.9 | 4.6 | 4.9 | 6.1 | 8.1 | 9.2 | 10 | 5.6 | 5.3 |
| 2 | 6.6 | 5.5 | 5.6 | 5.0 | 4.6 | 5.1 | 6.1 | 8.4 | 9.3 | 9.9 | 6.2 | 5.1 |
| 3 | 6.6 | 5.5 | 5.4 | 4.8 | 4.7 | 5.1 | 5.9 | 8.6 | 9.3 | 9.6 | 6.2 | 5.0 |
| 4 | 6.4 | 5.5 | 5.3 | 4.8 | 4.7 | 5.0 | 6.1 | 8.7 | 9.6 | 9.6 | 6.1 | 4.9 |
| 5 | 6.4 | 5.5 | 5.3 | 4.9 | 4.7 | 4.9 | 6.5 | 8.2 | 9.7 | 9.5 | 6.2 | 4.9 |
| 6 | 6.4 | 5.4 | 5.3 | 4.8 | e4.7 | 4.8 | 6.8 | 7.8 | 9.8 | 8.8 | 6.6 | 4.7 |
| 7 | 6.6 | 5.5 | 5.3 | e4.6 | e4.5 | 4.8 | 6.5 | 7.8 | 9.9 | 8.3 | 6.8 | 4.6 |
| 8 | 7.2 | 5.3 | 5.3 | e4.6 | e4.3 | 5.1 | 6.1 | 7.8 | 10 | 8.3 | 6.4 | 4.7 |
| 9 | 7.0 | 5.3 | 5.2 | e4.6 | e4.4 | 5.5 | 6.0 | 7.8 | 10 | 7.8 | 6.3 | 4.7 |
| 10 | 6.9 | 5.3 | e5.0 | 4.7 | e4.3 | 5.2 | 5.9 | 8.2 | 11 | 7.7 | 6.3 | 4.8 |
| 11 | 6.6 | 5.2 | e4.7 | 4.7 | e4.4 | 5.2 | 6.2 | 7.8 | 11 | 7.7 | 6.2 | 4.8 |
| 12 | 6.7 | e5.3 | e4.6 | 4.7 | e4.5 | 5.1 | 6.2 | 7.6 | 11 | 7.6 | 6.1 | 4.7 |
| 13 | 6.7 | e5.6 | e4.7 | 4.7 | e4.5 | 5.2 | 6.2 | 7.6 | 11 | 7.4 | 6.1 | 4.7 |
| 14 | 6.5 | e5.6 | e4.7 | 4.7 | 4.6 | 5.2 | 5.9 | 7.7 | 11 | 7.4 | 6.0 | 4.6 |
| 15 | 6.5 | e5.4 | e4.8 | 4.8 | 4.7 | 5.1 | 6.0 | 8.1 | 11 | 7.4 | 5.9 | 4.6 |
| 16 | 6.5 | 5.6 | e4.8 | 4.7 | 4.5 | 5.2 | 6.2 | 8.0 | 11 | 7.4 | 5.7 | 4.6 |
| 17 | 6.5 | 5.6 | e4.9 | 4.7 | 4.6 | 5.1 | 5.9 | 7.8 | 11 | 7.0 | 5.6 | 4.6 |
| 18 | 6.2 | 5.5 | e4.9 | 4.7 | 4.9 | 5.0 | 6.5 | 7.8 | 11 | 6.7 | 5.7 | 4.6 |
| 19 | 5.8 | e5.3 | 5.0 | 4.7 | 5.9 | 5.1 | 6.8 | 8.2 | 12 | 6.5 | 5.7 | 4.6 |
| 20 | 5.8 | e5.2 | 5.0 | 4.7 | 5.4 | 5.2 | 7.5 | 8.4 | 11 | 6.6 | 5.7 | 4.5 |
| 21 | 5.7 | 5.3 | 5.0 | 4.7 | 5.0 | 5.5 | 7.9 | 8.6 | 11 | 6.6 | 5.6 | 4.6 |
| 22 | 5.8 | 5.6 | 5.0 | 4.7 | 4.9 | 5.7 | 8.2 | 8.6 | 11 | 6.7 | 5.6 | 4.6 |
| 23 | 5.6 | 5.4 | 5.0 | 4.7 | 4.8 | 5.6 | 8.1 | 8.5 | 11 | 6.2 | 6.1 | 4.9 |
| 24 | 5.6 | 5.5 | 5.0 | 4.7 | 4.9 | 5.5 | 7.8 | 8.6 | 11 | 5.9 | 5.5 | 4.9 |
| 25 | 5.5 | 5.5 | 5.0 | 5.0 | 4.9 | 5.4 | 7.8 | 8.6 | 11 | 5.7 | 5.2 | 5.2 |
| 26 | 5.5 | 5.5 | 4.9 | 4.8 | 4.9 | 5.3 | 7.7 | 8.8 | 11 | 5.7 | 5.1 | 5.2 |
| 27 | 5.5 | 5.4 | 4.9 | 4.7 | 5.0 | 5.5 | 7.4 | 8.9 | 11 | 5.5 | 4.9 | 5.0 |
| 28 | 5.5 | 5.5 | 4.9 | 4.7 | 4.9 | 5.6 | 7.6 | 9.2 | 11 | 5.3 | 4.9 | 5.1 |
| 29 | 5.6 | 5.6 | 5.1 | 4.7 | --- | 6.0 | 7.8 | 9.2 | 11 | 5.2 | 5.8 | 5.0 |
| 30 | 5.6 | 5.5 | 5.2 | 4.6 | --- | 6.1 | 8.1 | 9.2 | 10 | 5.1 | 5.4 | 4.9 |
| 31 | 5.6 | --- | 5.0 | 4.6 | --- | 6.0 | --- | 9.2 | --- | 5.0 | 5.3 | --- |
| TOTAL | 192.2 | 163.5 | 156.2 | 146.7 | 132.8 | 164.0 | 203.8 | 257.8 | 317.8 | 224.1 | 180.8 | 144.4 |
| MEAN | 6.20 | 5.45 | 5.04 | 4.73 | 4.74 | 5.29 | 6.79 | 8.32 | 10.6 | 7.23 | 5.83 | 4.81 |
| MAX | 7.2 | 5.6 | 5.6 | 5.0 | 5.9 | 6.1 | 8.2 | 9.2 | 12 | 10 | 6.8 | 5.3 |
| MIN | 5.5 | 5.2 | 4.6 | 4.6 | 4.3 | 4.8 | 5.9 | 7.6 | 9.2 | 5.0 | 4.9 | 4.5 |
| ACFT | 381 | 324 | 310 | 291 | 263 | 325 | 404 | 511 | 630 | 445 | 359 | 286 |

| | | | | | | | | | | |
|-------------|-------|--------|------|------|-----|----|-----|-----|------|------|
| CAL YR 1985 | TOTAL | 2806.2 | MEAN | 7.69 | MAX | 17 | MIN | 3.1 | ACFT | 5570 |
| WTR YR 1986 | TOTAL | 2284.1 | MEAN | 6.26 | MAX | 12 | MIN | 4.3 | ACFT | 4530 |

e Estimated.

PAROWAN VALLEY

341

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 mi².

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

REVISED RECORDS.--WDR UT-78-1: Drainage area. WDR UT-84-1: 1971, 1983 (M).

GAGE.--Water-stage recorder. Altitude of gage is 6,313 ft (levels by U.S. Geological Survey). Prior to July 15, 1971, at site 600 ft downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--22 years, 4.71 ft³/s, 3,410 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 795 ft³/s July 28, 1969, gage height, 5.20 ft from rating curve extended on basis of slope-area measurement of peak flow; minimum, 0.05 ft³/s Feb. 5-7, 1971.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|-------|------|--------------------------------|------------------|--|------|--------------------------------|------------------|
| May 4 | 0100 | *20 | *2.76 | No other peak greater than base discharge. | | | |

Minimum daily discharge, 1.0 ft³/s Feb. 8, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|-------|------|-------|------|------|------|
| 1 | 2.2 | 2.4 | 2.3 | 1.9 | 1.8 | 1.8 | 6.7 | 13 | 12 | 2.9 | 1.7 | 2.1 |
| 2 | 2.1 | 2.5 | 2.4 | 1.9 | 1.7 | 1.8 | 6.4 | 15 | 12 | 2.9 | 1.7 | 2.0 |
| 3 | 2.2 | 2.6 | 2.7 | 1.8 | 1.7 | 1.8 | 5.7 | 16 | 12 | 2.9 | 1.6 | 1.9 |
| 4 | 2.1 | 2.5 | 2.2 | 1.7 | 1.6 | 1.9 | 5.5 | 16 | 12 | 2.8 | 1.6 | 1.9 |
| 5 | 2.1 | 2.6 | 2.5 | 1.7 | e1.5 | 1.9 | 5.3 | 14 | 12 | 2.7 | 1.6 | 1.8 |
| 6 | 2.1 | 2.5 | 2.6 | 1.7 | e1.4 | 1.9 | 5.3 | 14 | 10 | 2.7 | 2.1 | 1.7 |
| 7 | 2.3 | 2.3 | 2.3 | e1.6 | e1.2 | 2.1 | 5.5 | 13 | 9.2 | 2.6 | 3.8 | 1.7 |
| 8 | 3.1 | 2.5 | 2.6 | e1.5 | e1.0 | 2.1 | 5.2 | 13 | 8.8 | 2.5 | 2.1 | 1.7 |
| 9 | 2.9 | 2.5 | 2.1 | e1.6 | e1.1 | 2.5 | 4.9 | 12 | 8.5 | 2.4 | 1.9 | 1.8 |
| 10 | 2.8 | 2.3 | 2.2 | 1.7 | e1.0 | 2.3 | 5.0 | 13 | 7.7 | 2.3 | 2.0 | 1.9 |
| 11 | 2.5 | 2.5 | e2.5 | 1.7 | e1.3 | 2.4 | 5.5 | 13 | 7.3 | 2.2 | 2.1 | 1.9 |
| 12 | 2.6 | 1.5 | e2.5 | 1.7 | 1.9 | 2.1 | 5.8 | 14 | 6.9 | 2.2 | 3.0 | 1.8 |
| 13 | 2.7 | 2.2 | e1.4 | 1.7 | 2.0 | 2.4 | 6.1 | 14 | 6.6 | 2.1 | 2.3 | 1.8 |
| 14 | 2.4 | 1.8 | e1.7 | 1.7 | 2.0 | 2.4 | 5.4 | 15 | 6.3 | 2.1 | 2.1 | 1.8 |
| 15 | 2.4 | e2.1 | 2.1 | 1.7 | 2.3 | 2.1 | 5.9 | 15 | 5.9 | 2.4 | 2.0 | 1.7 |
| 16 | 2.6 | 2.2 | 2.0 | 1.7 | 1.9 | 2.6 | 6.7 | 15 | 5.6 | 2.4 | 1.9 | 1.6 |
| 17 | 2.6 | 2.5 | 2.0 | 1.6 | 1.9 | 2.3 | 6.3 | 14 | 5.4 | 2.1 | 1.7 | 1.5 |
| 18 | 2.6 | 2.4 | 2.0 | 1.5 | 2.1 | 2.3 | 6.1 | 14 | 5.1 | 2.0 | 1.7 | 1.5 |
| 19 | 2.5 | e2.1 | 2.0 | 1.5 | 2.4 | 2.2 | 5.9 | 14 | 4.7 | 1.9 | 1.7 | 1.5 |
| 20 | 2.6 | e2.2 | 2.1 | 1.5 | 2.0 | 2.3 | 6.4 | 14 | 4.5 | 1.9 | 1.8 | 1.5 |
| 21 | 2.6 | e2.3 | 2.1 | 1.5 | 1.7 | 2.6 | 7.8 | 14 | 4.2 | 2.2 | 1.9 | 1.5 |
| 22 | 2.8 | e2.4 | 2.1 | 1.6 | 1.7 | 2.8 | 11 | 14 | 4.0 | 3.1 | 1.9 | 1.6 |
| 23 | 2.7 | 2.5 | 2.1 | 1.6 | 2.1 | 3.1 | 12 | 14 | 3.8 | 2.8 | 3.4 | 2.4 |
| 24 | 2.7 | 2.6 | 2.1 | 1.6 | 1.9 | 3.1 | 12 | 14 | 3.8 | 2.7 | 2.9 | 2.6 |
| 25 | 2.7 | 2.5 | 2.0 | e1.5 | 1.8 | 2.9 | 12 | 14 | 3.8 | 2.3 | 2.1 | 3.1 |
| 26 | 2.6 | 2.5 | 2.0 | 1.5 | 1.8 | 3.2 | 11 | 14 | 3.4 | 2.2 | 2.0 | 2.7 |
| 27 | 2.6 | 2.2 | 2.0 | 1.8 | 1.8 | 3.8 | 10 | 14 | 3.2 | 2.1 | 2.2 | 2.5 |
| 28 | 2.6 | 2.5 | 2.0 | 1.8 | 1.8 | 4.8 | 11 | 14 | 3.0 | 2.0 | 2.6 | 2.5 |
| 29 | 2.6 | 2.6 | 2.1 | 1.9 | --- | 5.4 | 12 | 14 | 3.0 | 1.9 | 4.3 | 2.4 |
| 30 | 2.6 | 2.5 | 2.2 | 1.8 | --- | 5.9 | 13 | 13 | 3.1 | 1.9 | 2.4 | 2.4 |
| 31 | 2.7 | --- | 2.1 | 1.8 | --- | 6.4 | --- | 13 | --- | 1.8 | 2.1 | --- |
| TOTAL | 78.6 | 70.8 | 67.0 | 51.8 | 48.4 | 87.2 | 227.4 | 433 | 197.8 | 73.0 | 68.2 | 58.8 |
| MEAN | 2.54 | 2.36 | 2.16 | 1.67 | 1.73 | 2.81 | 7.58 | 14.0 | 6.59 | 2.35 | 2.20 | 1.96 |
| MAX | 3.1 | 2.6 | 2.7 | 1.9 | 2.4 | 6.4 | 13 | 16 | 12 | 3.1 | 4.3 | 3.1 |
| MIN | 2.1 | 1.5 | 1.4 | 1.5 | 1.0 | 1.8 | 4.9 | 12 | 3.0 | 1.8 | 1.6 | 1.5 |
| ACFT | 156 | 140 | 133 | 103 | 96 | 173 | 451 | 859 | 392 | 145 | 135 | 117 |

| | | | | | | | | | | |
|-------------|-------|--------|------|------|-----|----|-----|-----|------|------|
| CAL YR 1985 | TOTAL | 1779.1 | MEAN | 4.87 | MAX | 26 | MIN | 1.3 | ACFT | 3530 |
| WTR YR 1986 | TOTAL | 1462.0 | MEAN | 4.01 | MAX | 16 | MIN | 1.0 | ACFT | 2900 |

e Estimated.

CEDAR CITY VALLEY

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 mi².

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 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 fair except for estimated daily discharges, which are poor. No diversion above station for irrigation. Diversion above station for municipal supply at Cedar City.

AVERAGE DISCHARGE.--50 years (1935-37, 1938-86), 33.9 ft³/s, 24,560 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,620 ft³/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 ft³/s Nov. 5, 14, 17, 26, 1959, Feb. 17, 1960, Feb. 24, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 550 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|-------|------|--------------------------------|------------------|------|------|--------------------------------|------------------|
| May 3 | 2000 | *364 | *6.70 | | | | |

Minimum discharge, 5.7 ft³/s Nov. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|---------|------|------|-------|------|------|------|------|-------|-------|------|
| 1 | 15 | 15 | 16 | 15 | 13 | 24 | 71 | 188 | 95 | 18 | 9.2 | 15 |
| 2 | 15 | 14 | 19 | 15 | 13 | 24 | 66 | 212 | 86 | 17 | 9.2 | 15 |
| 3 | 14 | 14 | 19 | 15 | 13 | 23 | 52 | 224 | 81 | 17 | 8.8 | 14 |
| 4 | 14 | 14 | 17 | 14 | 12 | 23 | 48 | 174 | 87 | 17 | 8.7 | 13 |
| 5 | 13 | 14 | 20 | 14 | 9.2 | 24 | 56 | 144 | 76 | 16 | 8.8 | 12 |
| 6 | 13 | 14 | 20 | 14 | 10 | 25 | 62 | 126 | 69 | 16 | 19 | 12 |
| 7 | 14 | 14 | 17 | e12 | 9.5 | 29 | 58 | 115 | 60 | 16 | 21 | 12 |
| 8 | 18 | 14 | 19 | e11 | e9.0 | 31 | 49 | 101 | 54 | 15 | 12 | 12 |
| 9 | 24 | 14 | 13 | 12 | e8.6 | 34 | 45 | 94 | 53 | 14 | 11 | 12 |
| 10 | 25 | 14 | 12 | 16 | e8.6 | 27 | 49 | 102 | 49 | 14 | 20 | 12 |
| 11 | 26 | 13 | 14 | 17 | 9.1 | 25 | 55 | 109 | 45 | 14 | 31 | 12 |
| 12 | 27 | 9.7 | e13 | 17 | 12 | 23 | 65 | 111 | 43 | 13 | 48 | 12 |
| 13 | 24 | 12 | e12 | 16 | 13 | 24 | 67 | 121 | 39 | 13 | 38 | 11 |
| 14 | 20 | 13 | 13 | 16 | 12 | 23 | 56 | 129 | 37 | 13 | 33 | 11 |
| 15 | 17 | 13 | 15 | 16 | 14 | 20 | 65 | 128 | 34 | 14 | 25 | 11 |
| 16 | 16 | 18 | 15 | 15 | 14 | 21 | 77 | 115 | 32 | 17 | 13 | 11 |
| 17 | 16 | 19 | 16 | 14 | 13 | 21 | 63 | 105 | 31 | 13 | 12 | 11 |
| 18 | 15 | 15 | 17 | 14 | 14 | 19 | 59 | 114 | 30 | 12 | 12 | 11 |
| 19 | 15 | e10 | 18 | 15 | 18 | 21 | 60 | 129 | 29 | 11 | 13 | 11 |
| 20 | 15 | 11 | 19 | 16 | 23 | 27 | 74 | 134 | 27 | 12 | 13 | 11 |
| 21 | 15 | 16 | 20 | 14 | 17 | 46 | 97 | 119 | 25 | 14 | 13 | 11 |
| 22 | 16 | 14 | 20 | 13 | 14 | 57 | 125 | 107 | 24 | 29 | 14 | 11 |
| 23 | 16 | 17 | 21 | 13 | 14 | 57 | 142 | 101 | 23 | 20 | 36 | 38 |
| 24 | 17 | 18 | 20 | 12 | 17 | 49 | 132 | 105 | 23 | 15 | 51 | 54 |
| 25 | 16 | 17 | 19 | e11 | 23 | 49 | 118 | 109 | 23 | 13 | 38 | 51 |
| 26 | 16 | 16 | 18 | 12 | 25 | 59 | 99 | 108 | 21 | 12 | 33 | 46 |
| 27 | 15 | 15 | 18 | 13 | 27 | 60 | 96 | 107 | 20 | 11 | 30 | 34 |
| 28 | 15 | 17 | 18 | 13 | 25 | 59 | 120 | 105 | 19 | 11 | 28 | 31 |
| 29 | 16 | 18 | 17 | 14 | --- | 58 | 157 | 100 | 19 | 10 | 59 | 36 |
| 30 | 16 | 19 | 19 | 13 | --- | 64 | 179 | 109 | 19 | 9.9 | 18 | 36 |
| 31 | 16 | --- | 19 | 14 | --- | 69 | --- | 99 | --- | 9.5 | 14 | --- |
| TOTAL | 530 | 441.7 | 533 | 436 | 410.0 | 1115 | 2462 | 3844 | 1273 | 446.4 | 699.7 | 589 |
| MEAN | 17.1 | 14.7 | 17.2 | 14.1 | 14.6 | 36.0 | 82.1 | 124 | 42.4 | 14.4 | 22.6 | 19.6 |
| MAX | 27 | 19 | 21 | 17 | 27 | 69 | 179 | 224 | 95 | 29 | 59 | 54 |
| MIN | 13 | 9.7 | 12 | 11 | 8.6 | 19 | 45 | 94 | 19 | 9.5 | 8.7 | 11 |
| ACFT | 1050 | 876 | 1060 | 865 | 813 | 2210 | 4880 | 7620 | 2520 | 885 | 1390 | 1170 |
| CAL YR 1985 | TOTAL | 15538.7 | MEAN | 42.6 | MAX | 352 | MIN | 9.7 | ACFT | 30820 | | |
| WTR YR 1986 | TOTAL | 12779.8 | MEAN | 35.0 | MAX | 224 | MIN | 8.6 | ACFT | 25350 | | |

e Estimated.

RAFT RIVER BASIN

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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 mi².

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, including estimated daily discharges.

AVERAGE DISCHARGE.--27 years, 8.19 ft³/s, 5,930 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 295 ft³/s May 30, 1983, gage height, 1.78 ft; minimum, 1.0 ft³/s July 14-19, 1976, Feb. 5, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 108 ft³/s June 2, 3, gage height, 1.39 ft; minimum daily, 1.8 ft³/s Jan. 7-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | | |
|-------------|-------|------|--------|------|------|-------|-------|------|------|-------|-------|-------|------|--|------|
| 1 | 2.5 | 2.9 | 2.5 | 2.0 | 2.1 | 2.9 | 8.1 | 19 | 104 | 15 | 5.5 | 3.8 | | | |
| 2 | 2.5 | 2.9 | 2.6 | 2.0 | 2.1 | 2.9 | 8.0 | 20 | 107 | 15 | 5.5 | 3.8 | | | |
| 3 | 2.5 | 2.9 | 2.7 | 2.0 | 2.2 | 2.9 | 8.0 | 25 | 106 | 13 | 5.5 | 3.8 | | | |
| 4 | 2.5 | 2.9 | 2.7 | 2.0 | 2.3 | 2.9 | 8.1 | 31 | 104 | 12 | 5.5 | 3.8 | | | |
| 5 | 2.5 | 2.9 | 2.7 | 2.0 | 2.1 | 2.9 | 8.5 | 31 | 102 | 11 | 5.2 | 3.8 | | | |
| 6 | 2.5 | 2.9 | 2.7 | 1.9 | 2.1 | 3.0 | 8.3 | 31 | 91 | 11 | 5.2 | 3.8 | | | |
| 7 | 3.0 | 2.9 | 2.7 | 1.8 | 2.1 | 3.1 | 8.0 | 27 | 73 | 10 | 6.1 | 3.8 | | | |
| 8 | 3.4 | 2.9 | 2.7 | 1.8 | 2.1 | 3.1 | 8.4 | 23 | 63 | 9.8 | 5.5 | 3.8 | | | |
| 9 | 3.4 | 2.8 | 2.7 | 1.8 | 2.1 | 3.1 | 8.5 | 20 | 58 | 9.3 | 5.2 | 4.0 | | | |
| 10 | 3.4 | 2.5 | e2.5 | 1.8 | 2.2 | 3.1 | 8.5 | 18 | 57 | 8.9 | 5.2 | 3.8 | | | |
| 11 | 3.4 | 2.5 | e2.3 | 1.8 | 2.3 | 3.1 | 8.4 | 17 | 53 | 8.9 | 4.9 | 3.8 | | | |
| 12 | 3.4 | 2.5 | e2.1 | 1.8 | 2.3 | 3.1 | 8.6 | 16 | 51 | 8.5 | 4.9 | 3.5 | | | |
| 13 | 3.2 | 2.5 | e2.0 | 1.8 | 2.3 | 3.1 | 9.1 | 16 | 51 | 8.0 | 4.9 | 3.5 | | | |
| 14 | 3.1 | 2.5 | e2.0 | 2.0 | 2.3 | 3.1 | 9.1 | 16 | 50 | 8.0 | 4.9 | 3.8 | | | |
| 15 | 3.1 | 2.5 | e2.0 | 2.0 | 2.3 | 3.0 | 9.6 | 16 | 48 | 7.6 | 4.6 | 3.5 | | | |
| 16 | 3.1 | 2.5 | e2.0 | 2.0 | 2.3 | 3.1 | 9.2 | 16 | 47 | 7.6 | 4.3 | 3.5 | | | |
| 17 | 3.1 | 2.5 | e2.0 | 2.0 | 2.6 | 3.1 | 9.1 | 16 | 44 | 6.9 | 4.3 | 3.3 | | | |
| 18 | 3.1 | 2.5 | e2.0 | 2.0 | 3.5 | 3.1 | 9.4 | 15 | 42 | 6.5 | 4.3 | 4.0 | | | |
| 19 | 3.1 | 2.5 | e2.0 | 2.0 | 3.4 | 3.1 | 9.6 | 19 | 42 | 6.1 | 4.3 | 3.8 | | | |
| 20 | 3.1 | 2.5 | 2.0 | 2.0 | 3.0 | 3.0 | 9.6 | 29 | 41 | 6.1 | 4.9 | 3.8 | | | |
| 21 | 3.1 | 2.5 | 2.0 | 2.0 | 2.9 | 3.0 | 9.3 | 39 | 37 | 5.8 | 5.5 | 3.5 | | | |
| 22 | 3.1 | 2.5 | 2.0 | 2.1 | 2.9 | 3.3 | 13 | 41 | 33 | 5.8 | 4.6 | 3.5 | | | |
| 23 | 3.1 | 2.5 | 2.0 | 2.1 | 2.9 | 3.1 | 23 | 41 | 30 | 9.8 | 4.3 | 3.5 | | | |
| 24 | 3.1 | 2.5 | 2.0 | 2.1 | 2.9 | 3.1 | 27 | 38 | 28 | 8.9 | 4.3 | 3.8 | | | |
| 25 | 3.1 | 2.5 | 2.0 | 2.0 | 2.9 | 3.2 | 27 | 38 | 26 | 8.5 | 4.3 | 3.8 | | | |
| 26 | 3.1 | 2.5 | 2.0 | 2.0 | 2.9 | 3.4 | 23 | 41 | 26 | 8.5 | 4.3 | 3.8 | | | |
| 27 | 2.9 | 2.5 | 2.0 | 2.0 | 2.9 | 3.4 | 22 | 61 | 24 | 7.2 | 4.3 | 3.8 | | | |
| 28 | 2.9 | 2.5 | 2.0 | 2.1 | 2.9 | 3.9 | 21 | 84 | 20 | 6.5 | 4.0 | 3.5 | | | |
| 29 | 2.9 | 2.5 | 2.0 | 2.1 | --- | 5.2 | 20 | 86 | 19 | 6.1 | 4.3 | 3.5 | | | |
| 30 | 2.9 | 2.5 | 2.0 | 2.1 | --- | 6.3 | 19 | 88 | 18 | 6.1 | 4.3 | 4.0 | | | |
| 31 | 2.9 | --- | 2.0 | 2.1 | --- | 8.0 | --- | 96 | --- | 5.8 | 4.0 | --- | | | |
| TOTAL | 93.0 | 78.5 | 68.9 | 61.2 | 70.9 | 106.6 | 378.4 | 1074 | 1595 | 268.2 | 148.9 | 111.4 | | | |
| MEAN | 3.00 | 2.62 | 2.22 | 1.97 | 2.53 | 3.44 | 12.6 | 34.6 | 53.2 | 8.65 | 4.80 | 3.71 | | | |
| MAX | 3.4 | 2.9 | 2.7 | 2.1 | 3.5 | 8.0 | 27 | 96 | 107 | 15 | 6.1 | 4.0 | | | |
| MIN | 2.5 | 2.5 | 2.0 | 1.8 | 2.1 | 2.9 | 8.0 | 15 | 18 | 5.8 | 4.0 | 3.3 | | | |
| ACFT | 184 | 156 | 137 | 121 | 141 | 211 | 751 | 2130 | 3160 | 532 | 295 | 221 | | | |
| CAL YR 1985 | TOTAL | | 2150.2 | MEAN | | 5.89 | MAX | | 44 | MIN | | 1.5 | ACFT | | 4260 |
| WTR YR 1986 | TOTAL | | 4055.0 | MEAN | | 11.1 | MAX | | 107 | MIN | | 1.8 | ACFT | | 8040 |

e Estimated.

DISCHARGE MEASUREMENTS AT SOUTHERN PACIFIC TRANSPORTATION CO. CAUSEWAY

Compilation of data for flow through the two 15-ft culverts

GREAT SALT LAKE BASIN

| 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 | | | | |
|--|-----------------------------------|---------------------|---------------------|--|--|-----------------------------------|---------------------|---------------------|--|
| Date of observation | Discharge (ft ³ /s) | Specific gravity | Temperature (°C) | | Date of observation | Discharge (ft ³ /s) | Specific gravity | Temperature (°C) | |
| Nov. 14 | (a) 0 (b) 310 | -- 1.145 | -- 5.0 | | Nov. 14 | (a) 0 (b) 231 | -- 1.144 | -- 5.0 | |
| May 20 | (a) 0 (b) 282 | -- 1.126 | -- 15.0 | | May 20 | (a) 0 (b) 369 | -- 1.121 | -- 20.0 | |

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) | |
|------------------------|-----------------------------------|---------------------|---------------------|--|
| Oct. 29, 1985 | (a) 3,710 (b) 474 | 1.044 1.146 | 12.0 13.0 | |
| Dec. 10 | (a) 6,240 (b) 0 | 1.045 -- | 1.0 -- | |
| Jan. 7, 1986 | (a) 3,800 (b) 481 | 1.043 1.146 | -1.0 -1.0 | |
| Feb. 25 | (a) 7,110 (b) 296 | 1.030 1.136 | 8.5 5.5 | |
| Apr. 1 | (a) 6,220 (b) 322 | 1.038 1.131 | 10.0 10.0 | |
| May 14 | (a) 6,820 (b) 538 | 1.037 1.127 | 13.5 12.5 | |
| 27 | (a) 9,450 (b) 120 | 1.033 1.124 | 20.5 17.0 | |
| June 10 | (a) 2,860 (b) 2,820 | 1.034 1.120 | 19.5 21.0 | |
| 24 | (a) 6,450 (b) 864 | 1.035 1.121 | 23.5 24.0 | |
| July 29 | (a) 3,720 (b) 1,800 | 1.035 1.123 | 24.5 24.5 | |
| Sep. 23 | (a) 5,470 (b) 489 | 1.040 1.128 | 17.5 17.5 | |

(a) indicates flow from south to north
(b) indicates flow from north to south

measurements of the East and West culverts discontinued

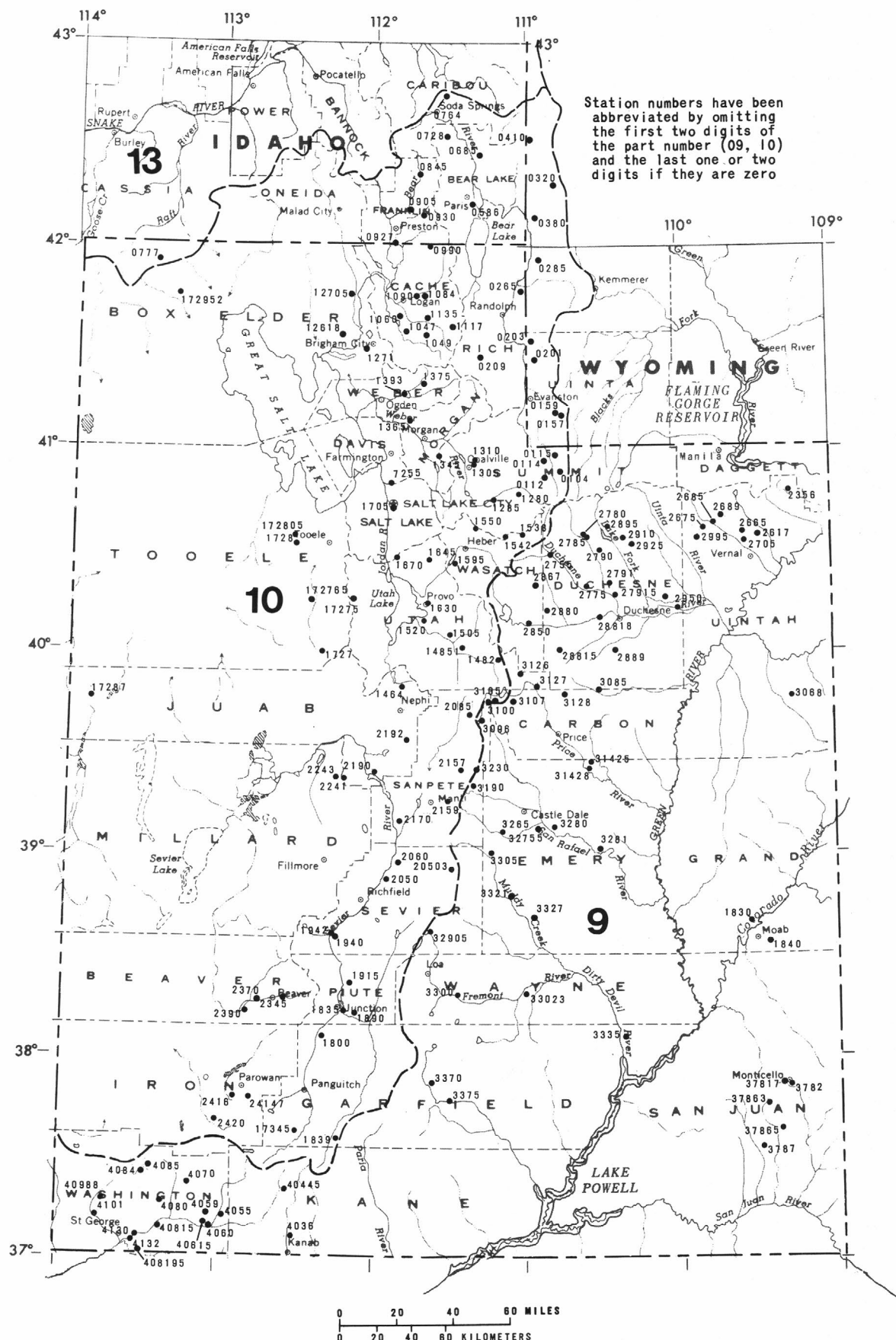


Figure 18 —Map showing location of sites in Utah where data were obtained on the specific conductance and temperature of surface water.

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) |
|------|------|---|-----------------------------|---|------|------|---|-----------------------------|---|
|------|------|---|-----------------------------|---|------|------|---|-----------------------------|---|

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 , 1985 | | | | | MAY , 1986 | | | | |
| 16... | 0955 | .24 | 6.5 | 960 | 09... | 0945 | 1.33 | 11.0 | 870 |
| DEC | | | | | JUN | | | | |
| 05... | 1010 | .73 | 4.5 | 820 | 09... | 0910 | .13 | 16.0 | 830 |
| JAN , 1986 | | | | | JUL | | | | |
| 09... | 1005 | .65 | 1.0 | 910 | 10... | 0900 | .08 | 18.0 | 800 |
| FEB | | | | | AUG | | | | |
| 06... | 0920 | .93 | 3.0 | 860 | 12... | 0900 | .08 | 20.5 | 810 |
| MAR | | | | | SEP | | | | |
| 06... | 0940 | .56 | 5.5 | 880 | 09... | 0855 | .10 | 15.5 | 800 |
| APR | | | | | | | | | |
| 09... | 1300 | .27 | 23.5 | 860 | | | | | |

09184000 MILL CREEK NEAR MOAB, UT (Lat 38°33'44", Long 109°30'48")

| | | | | | | | | | |
|------------|------|-----|------|-----|------------|------|-----|------|-----|
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 16... | 1255 | 8.9 | 10.5 | 240 | 09... | 1140 | 7.1 | 12.5 | 230 |
| DEC | | | | | JUN | | | | |
| 05... | 1230 | 7.4 | 6.5 | 270 | 09... | 1150 | 49 | 13.0 | 130 |
| JAN , 1986 | | | | | JUL | | | | |
| 09... | 1250 | 6.4 | 2.5 | 260 | 10... | 1020 | 7.1 | 20.0 | 200 |
| FEB | | | | | AUG | | | | |
| 06... | 1115 | 5.5 | 3.5 | 280 | 12... | 1020 | 9.8 | 21.0 | 220 |
| MAR | | | | | SEP | | | | |
| 06... | 1225 | 3.5 | 11.5 | 260 | 09... | 1145 | 14 | 17.5 | 210 |
| APR | | | | | | | | | |
| 09... | 0905 | 7.4 | 10.0 | 330 | | | | | |

GREEN RIVER BASIN
 09235600 POT CREEK ABOVE DIVERSIONS, NEAR VERNAL, UT (Lat 40°46'05", Long 109°19'06")

| | | | | | | | | | |
|------------|------|-----|------|-----|------------|------|-----|------|-----|
| OCT , 1985 | | | | | JUN , 1986 | | | | |
| 01... | 1450 | .53 | 12.0 | -- | 04... | 1000 | 8.0 | 14.0 | 120 |
| 30... | 0845 | .64 | 3.0 | 280 | JUL | | | | |
| FEB , 1986 | | | | | 08... | 1800 | .84 | 20.0 | 185 |
| 14... | 1010 | .15 | .0 | 450 | AUG | | | | |
| APR | | | | | 14... | 0940 | .22 | 12.0 | 220 |
| 10... | 0930 | 17 | 3.0 | 215 | | | | | |
| MAY | | | | | | | | | |
| 22... | 1545 | 28 | 9.0 | 115 | | | | | |

09261700 BIG BRUSH CREEK ABOVE RED FLEET RESERVOIR, NEAR VERNAL, UT
 (Lat 40°35'20", Long 109°27'53")

| | | | | | | | | | |
|------------|------|----|------|-----|------------|------|-----|------|-----|
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 01... | 1730 | 29 | 11.0 | 350 | 23... | 0855 | 167 | 6.0 | 185 |
| 28... | 1650 | 24 | 9.5 | 370 | MAY | | | | |
| NOV | | | | | 20... | 0820 | 222 | 6.0 | 130 |
| 21... | 1510 | 20 | 2.0 | 380 | JUN | | | | |
| DEC | | | | | 04... | 0815 | 288 | 9.0 | 90 |
| 19... | 1510 | 18 | 1.0 | 430 | JUL | | | | |
| JAN , 1986 | | | | | 07... | 1825 | 49 | 12.0 | 280 |
| 16... | 1355 | 20 | 2.0 | 390 | AUG | | | | |
| FEB | | | | | 12... | 0905 | 41 | 10.0 | 290 |
| 13... | 1550 | 17 | 3.0 | 470 | SEP | | | | |
| MAR | | | | | 24... | 1215 | 30 | 5.5 | 365 |
| 24... | 1210 | 23 | 9.0 | 410 | | | | | |

09266500 ASHLEY CREEK NEAR VERNAL, UT (Lat 40°34'39", Long 109°37'17")

| | | | | | | | | | |
|------------|------|----|------|-----|------------|------|-----|------|-----|
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 22... | 1545 | 67 | 7.0 | -- | 15... | 1610 | 316 | 5.0 | 73 |
| 24... | 1400 | 58 | 7.5 | 150 | 20... | 1105 | 596 | 4.5 | -- |
| NOV | | | | | JUN | | | | |
| 18... | 1620 | 44 | 5.5 | 84 | 07... | 1655 | 519 | 11.0 | 46 |
| JAN , 1986 | | | | | 26... | 1750 | 210 | 12.0 | 69 |
| 27... | 1450 | 26 | 6.0 | 170 | AUG | | | | |
| FEB | | | | | 01... | 1325 | 88 | 12.5 | 125 |
| 24... | 1440 | 19 | 11.0 | 165 | 26... | 1910 | 121 | 12.0 | 85 |
| APR | | | | | | | | | |
| 10... | 1320 | 63 | 6.5 | 135 | | | | | |

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) |
|---|------|---|-----------------------------|---|------------|------|---|-----------------------------|---|
| GREEN RIVER BASIN--Continued | | | | | | | | | |
| 09267500 MOSBY CANAL NEAR LAPOINT, UT (Lat 40°36'30", Long 109°53'00") | | | | | | | | | |
| OCT , 1985 | | | | | JUL , 1986 | | | | |
| 16... | 1630 | .17 | 7.0 | <50 | 30... | 1730 | 17 | 14.5 | <50 |
| JUN , 1986 | | | | | AUG | | | | |
| 06... | 1450 | 16 | 12.0 | <50 | 26... | | 13 | 13.5 | <50 |
| 26... | 1110 | 20 | 13.0 | <50 | | | | | |
| 09268500 NORTH FORK OF DRY FORK NEAR DRY FORK, UT (Lat 40°38'34", Long 109°48'37") | | | | | | | | | |
| OCT , 1985 | | | | | JUN , 1986 | | | | |
| 15... | 1545 | 3.9 | 3.0 | 51 | 07... | 1225 | 58 | 6.5 | <50 |
| NOV | | | | | 27... | 1705 | 21 | 10.5 | <50 |
| 19... | 1640 | 2.0 | .0 | <50 | JUL | | | | |
| JAN , 1986 | | | | | 31... | 1600 | 6.1 | 10.5 | <50 |
| 28... | 1550 | 1.4 | 1.5 | 51 | AUG | | | | |
| FEB | | | | | 27... | 1315 | 4.4 | 9.5 | <50 |
| 25... | 1435 | 1.0 | 3.0 | -- | | | | | |
| MAY | | | | | | | | | |
| 16... | 1410 | 17 | 2.0 | <50 | | | | | |
| 09268900 BROWNIE CANYON ABOVE SINKS, NEAR DRY FORK, UT (Lat 40°39'34", Long 109°45'01") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 16... | 1135 | 6.3 | 1.0 | <50 | 16... | 1025 | 18 | 1.5 | <50 |
| NOV | | | | | JUN | | | | |
| 19... | 1240 | 5.2 | .0 | <50 | 27... | 1200 | 39 | 7.0 | <50 |
| JAN , 1986 | | | | | JUL | | | | |
| 28... | 1325 | 2.4 | .0 | <50 | 31... | 1115 | 19 | 6.0 | <50 |
| FEB | | | | | AUG | | | | |
| 25... | 1030 | 2.0 | 6.5 | <50 | 27... | 1050 | 7.5 | 7.0 | <50 |
| APR | | | | | | | | | |
| 10... | -- | 5.2 | -- | -- | | | | | |
| 09270500 DRY FORK AT MOUTH, NEAR DRY FORK, UT (Lat 40°31'35", Long 109°36'18") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 02... | 1745 | 4.8 | 14.5 | 700 | 15... | 1350 | 64 | 9.5 | 180 |
| NOV | | | | | JUN | | | | |
| 18... | 1810 | 4.3 | 5.0 | -- | 07... | 0830 | 620 | 7.0 | 78 |
| JAN , 1986 | | | | | 27... | 0920 | 136 | 10.5 | 145 |
| 27... | 1730 | 2.4 | .0 | 880 | AUG | | | | |
| FEB | | | | | 01... | 0755 | 19 | 13.5 | 300 |
| 24... | 1750 | 7.4 | 9.5 | 450 | 27... | 1440 | 5.7 | 23.0 | 580 |
| APR | | | | | | | | | |
| 10... | 1730 | 2.6 | 10.5 | 830 | | | | | |
| 09275500 WEST FORK DUCHESNE RIVER NEAR HANNA, UT (Lat 40°27'01", Long 110°53'01") | | | | | | | | | |
| OCT , 1985 | | | | | JUN , 1986 | | | | |
| 18... | 1030 | 23 | 2.5 | 475 | 04... | 0730 | 274 | 5.0 | 310 |
| JAN , 1986 | | | | | 11... | 2020 | 147 | 10.0 | 355 |
| 08... | 1145 | 17 | .0 | 250 | JUL | | | | |
| MAR | | | | | 16... | 1300 | 75 | 13.0 | 440 |
| 31... | 1200 | 54 | 3.0 | -- | SEP | | | | |
| APR | | | | | 03... | 1630 | 30 | 16.5 | 460 |
| 22... | 0850 | 81 | 5.0 | 440 | | | | | |
| MAY | | | | | | | | | |
| 13... | 1100 | 75 | 7.0 | 460 | | | | | |
| 09277500 DUCHESNE RIVER NEAR TABIONA, UT (Lat 40°08'01", Long 110°36'06") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 24... | 1330 | 141 | 10.5 | 445 | 14... | 1850 | 353 | 12.0 | 320 |
| NOV | | | | | JUN | | | | |
| 26... | 1330 | 128 | 5.0 | 540 | 04... | 1245 | 2340 | 9.0 | 195 |
| DEC | | | | | 06... | 1345 | 2390 | 10.0 | 185 |
| 18... | 1015 | 114 | .5 | 560 | 11... | -- | 1220 | -- | -- |
| JAN , 1986 | | | | | 26... | 1715 | 836 | 15.0 | 245 |
| 22... | 1710 | 96 | 3.0 | 560 | JUL | | | | |
| FEB | | | | | 16... | 1610 | 215 | 16.5 | 500 |
| 19... | 1550 | 197 | 4.0 | 485 | 29... | 1750 | 150 | 18.0 | -- |
| MAR | | | | | SEP | | | | |
| 25... | 1115 | 158 | 9.5 | 440 | 03... | 1750 | 139 | 18.0 | 520 |
| APR | | | | | | | | | |
| 22... | 1120 | 337 | 10.0 | 340 | | | | | |

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) |
|---|------|---|-----------------------------|---|------------|------|---|-----------------------------|---|
| GREEN RIVER BASIN--Continued | | | | | | | | | |
| 09278000 SOUTH FORK ROCK CREEK NEAR HANNA, UT (Lat 40°32'54", Long 110°41'37") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 23... | 1715 | 6.7 | 3.5 | 190 | 17... | 0805 | 21 | .5 | 150 |
| NOV | | | | | JUN | | | | |
| 22... | 1430 | 4.9 | .0 | 210 | 02... | 1030 | 151 | 4.0 | 120 |
| JAN , 1986 | | | | | 23... | 1205 | 115 | 6.5 | 140 |
| 07... | 1630 | 4.0 | .0 | 125 | JUL | | | | |
| FEB | | | | | 28... | 1305 | 25 | 8.0 | 160 |
| 27... | 1230 | 3.9 | 5.0 | 215 | | | | | |
| APR | | | | | | | | | |
| 12... | 1620 | 8.6 | 2.0 | 160 | | | | | |
| 09278500 ROCK CREEK NEAR HANNA, UT (Lat 40°32'44", Long 110°39'20") | | | | | | | | | |
| OCT , 1985 | | | | | JUN , 1986 | | | | |
| 23... | 1345 | 61 | 5.0 | 57 | 02... | 1935 | 2110 | 5.0 | <50 |
| JAN , 1986 | | | | | 23... | 1515 | 1080 | 9.0 | <50 |
| 30... | 1055 | 33 | .5 | 68 | JUL | | | | |
| FEB | | | | | 28... | 1335 | 275 | 11.0 | <50 |
| 27... | 0845 | 45 | .5 | 55 | AUG | | | | |
| APR | | | | | 28... | 1110 | 96 | 10.5 | -- |
| 12... | 1445 | 77 | 5.5 | 65 | | | | | |
| MAY | | | | | | | | | |
| 17... | 1040 | 180 | 3.0 | 52 | | | | | |
| 09279000 ROCK CREEK NEAR MOUNTAIN HOME, UT (Lat 40°29'36", Long 110°34'39") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 23... | 1050 | 85 | 5.0 | 115 | 17... | 1335 | 204 | 6.5 | 62 |
| NOV | | | | | JUN | | | | |
| 21... | 1415 | 70 | .0 | 57 | 02... | 1400 | 1880 | 9.0 | <50 |
| JAN , 1986 | | | | | 05... | 1410 | 2130 | 8.0 | -- |
| 09... | 1150 | 55 | .5 | 150 | 25... | 0740 | 1080 | 7.0 | <50 |
| FEB | | | | | JUL | | | | |
| 26... | 1700 | 73 | 9.0 | 130 | 28... | 1820 | 293 | 14.5 | 63 |
| APR | | | | | AUG | | | | |
| 12... | 0905 | 105 | 2.0 | 120 | 28... | 1005 | 139 | 11.5 | -- |
| 09279100 ROCK CREEK NEAR TALMAGE, UT (Lat 40°18'40", Long 110°29'36") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 24... | 1620 | 84 | 10.5 | 195 | 22... | 1345 | 174 | 11.0 | -- |
| NOV | | | | | MAY | | | | |
| 26... | 1520 | 110 | .5 | 240 | 14... | 2010 | 237 | 12.0 | -- |
| DEC | | | | | JUN | | | | |
| 18... | 1415 | 63 | .0 | 295 | 04... | 1545 | 2180 | 10.0 | 110 |
| JAN , 1986 | | | | | 11... | 1535 | 1340 | 10.5 | -- |
| 22... | 1355 | 57 | .0 | 315 | 27... | 1520 | 968 | 13.5 | 65 |
| FEB | | | | | JUL | | | | |
| 19... | 1140 | 131 | .0 | 320 | 30... | 1910 | 242 | 18.0 | -- |
| MAR | | | | | SEP | | | | |
| 04... | 1740 | 91 | 8.0 | -- | 04... | 1640 | 109 | 19.0 | -- |
| APR | | | | | | | | | |
| 01... | 1645 | 172 | 6.0 | 320 | | | | | |
| 09279150 DUCHESNE RIVER ABOVE KNIGHT DIVERSION, NEAR DUCHESNE, UT (Lat 40°16'14", Long 110°26'31") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 24... | 1030 | 233 | 6.0 | 465 | 10... | 1620 | 336 | 11.0 | 390 |
| NOV | | | | | 22... | 1000 | 634 | 10.0 | 300 |
| 27... | 1210 | 196 | 2.5 | 530 | MAY | | | | |
| DEC | | | | | 15... | 0840 | 605 | 7.0 | 275 |
| 18... | 1630 | 217 | .5 | 510 | JUN | | | | |
| JAN , 1986 | | | | | 10... | 1630 | 2440 | 11.0 | -- |
| 22... | 1445 | 214 | .5 | 455 | 26... | 1945 | 1630 | 15.0 | 160 |
| 24... | 1215 | 192 | .5 | -- | JUL | | | | |
| FEB | | | | | 30... | 1300 | 414 | 15.5 | -- |
| 19... | 1400 | 323 | 4.0 | 415 | SEP | | | | |
| APR | | | | | 09... | 1825 | 254 | 15.5 | 435 |
| 01... | 0710 | 464 | 6.0 | 320 | | | | | |

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) |
|---|------|---|-----------------------------|---|------------|------|---|-----------------------------|---|
| GREEN RIVER BASIN--Continued | | | | | | | | | |
| 09285000 STRAWBERRY RIVER NEAR SOLDIER SPRINGS, UT (Lat 40°08'00", Long 111°01'27") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 21... | 1300 | 13 | 9.5 | 315 | 15... | 1650 | 26 | 6.0 | 370 |
| JAN , 1986 | | | | | JUL | | | | |
| 09... | 1425 | 14 | 4.0 | 395 | 09... | 1000 | 27 | 7.5 | 385 |
| APR | | | | | SEP | | | | |
| 21... | 1130 | 27 | 5.0 | 410 | 05... | 1100 | 27 | 8.0 | 380 |
| 09286700 CURRANT CREEK BELOW CURRANT CREEK DAM NEAR FRUITLAND, UT (Lat 40°19'51", Long 111°02'56") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 25... | 1050 | 8.3 | 8.5 | 310 | 01... | 1110 | 21 | 2.5 | 335 |
| NOV | | | | | MAY | | | | |
| 22... | 1120 | 8.8 | 5.0 | 365 | 14... | 1410 | 14 | 13.0 | 345 |
| DEC | | | | | JUN | | | | |
| 17... | 1130 | 8.4 | 2.5 | 390 | 26... | 1305 | 3.7 | 17.0 | 290 |
| JAN , 1986 | | | | | JUL | | | | |
| 21... | 1125 | 8.0 | 4.0 | 435 | 17... | 1730 | 5.0 | 20.0 | 270 |
| MAR | | | | | SEP | | | | |
| 04... | 1320 | 7.8 | 7.0 | 450 | 04... | 1115 | 8.8 | 13.0 | 270 |
| 09288000 CURRANT CREEK NEAR FRUITLAND, UT (Lat 40°12'01", Long 110°54'25") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 25... | 1400 | 41 | 8.5 | 440 | 23... | 1430 | 103 | 11.0 | 480 |
| NOV | | | | | MAY | | | | |
| 22... | 1555 | 49 | .5 | 540 | 14... | 1455 | 108 | 13.0 | 460 |
| DEC | | | | | JUN | | | | |
| 17... | 1410 | 43 | 1.0 | 540 | 09... | 1720 | 98 | 11.0 | 460 |
| JAN , 1986 | | | | | JUL | | | | |
| 23... | 0910 | 28 | 1.5 | 560 | 09... | 1355 | 57 | 17.5 | 440 |
| FEB | | | | | SEP | | | | |
| 20... | 1130 | 55 | 2.0 | 500 | 04... | 1355 | 42 | 15.5 | 435 |
| APR | | | | | | | | | |
| 01... | 1440 | 87 | 6.0 | 460 | | | | | |
| 09288150 WEST FORK AVINTAQUIN CREEK NEAR FRUITLAND, UT (Lat 39°59'35", Long 110°48'51") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 21... | 1625 | 2.3 | 12.5 | 355 | 14... | 0930 | 83 | 5.0 | 610 |
| NOV | | | | | JUN | | | | |
| 20... | 1430 | 2.0 | 4.0 | 610 | 12... | 0750 | 47 | 6.0 | 540 |
| JAN , 1986 | | | | | JUL | | | | |
| 09... | 1530 | 2.7 | 5.0 | 360 | 17... | 1200 | 11 | 14.0 | 620 |
| MAR | | | | | SEP | | | | |
| 31... | 1615 | 67 | 10.0 | 640 | 10... | 1420 | 4.2 | 14.0 | 620 |
| APR | | | | | | | | | |
| 21... | 1650 | 66 | 13.0 | 660 | | | | | |
| 09288180 STRAWBERRY RIVER NEAR DUCHESNE, UT (Lat 40°09'17", Long 110°33'15") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 22... | 0945 | 110 | 6.5 | 790 | 21... | 1925 | 332 | 11.0 | 740 |
| NOV | | | | | MAY | | | | |
| 25... | 1640 | 120 | 3.0 | 870 | 13... | 1945 | 490 | 11.5 | 700 |
| DEC | | | | | JUN | | | | |
| 17... | 1615 | 98 | .0 | 800 | 03... | 2045 | 673 | 15.5 | 670 |
| JAN , 1986 | | | | | 09... | 1630 | 514 | 10.5 | 650 |
| 23... | 1710 | 124 | .0 | 770 | 27... | 1745 | 227 | 20.5 | 650 |
| FEB | | | | | AUG | | | | |
| 20... | 1320 | 215 | 3.0 | 920 | 01... | 1000 | 129 | 15.0 | 740 |
| MAR | | | | | SEP | | | | |
| 25... | 1645 | 157 | 10.0 | 850 | 09... | 1445 | 144 | 15.5 | 800 |

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) |
|--|------|---|-----------------------------|---|------------|------|---|-----------------------------|---|
| GREEN RIVER BASIN--Continued | | | | | | | | | |
| 09288900 SOWERS CREEK NEAR DUCHESNE, UT (Lat 39°59'22", Long 110°27'33") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 22... | 1255 | 2.7 | 5.0 | 1290 | 22... | 1810 | 14 | 11.0 | 1250 |
| NOV | | | | | MAY | | | | |
| 21... | 1510 | 1.3 | .5 | 1580 | 13... | 1615 | 17 | 6.0 | 1100 |
| DEC | | | | | JUN | | | | |
| 16... | 1250 | 1.8 | .0 | 1400 | 06... | 1800 | 12 | 19.5 | 1140 |
| JAN , 1986 | | | | | JUL | | | | |
| 22... | 0910 | .77 | .0 | 1520 | 16... | 2045 | 9.0 | 15.0 | 1350 |
| FEB | | | | | SEP | | | | |
| 18... | 1500 | 16 | .0 | 1530 | 10... | 0920 | 5.3 | 12.5 | 1350 |
| 21... | 0930 | 1.8 | .0 | 1530 | | | | | |
| MAR | | | | | | | | | |
| 28... | 1905 | 4.1 | 12.0 | 1500 | | | | | |
| 09289500 LAKE FORK RIVER ABOVE MOON LAKE, NEAR MOUNTAIN HOME, UT (Lat 40°36'24", Long 110°31'35") | | | | | | | | | |
| OCT , 1985 | | | | | JUN , 1986 | | | | |
| 17... | 1415 | 51 | 5.0 | <50 | 03... | 1250 | 1210 | 5.0 | <50 |
| DEC | | | | | 24... | 1200 | 540 | 7.0 | -- |
| 04... | 1615 | 40 | .5 | -- | JUL | | | | |
| JAN , 1986 | | | | | 29... | 1630 | 173 | 11.5 | <50 |
| 09... | 1045 | 35 | .5 | <50 | AUG | | | | |
| MAY | | | | | 27... | 1100 | 79 | 9.0 | -- |
| 18... | 1140 | 103 | 4.0 | -- | | | | | |
| 09291000 LAKE FORK RIVER BELOW MOON LAKE, NEAR MOUNTAIN HOME, UT (Lat 40°33'23", Long 110°29'02") | | | | | | | | | |
| OCT , 1985 | | | | | JUN , 1986 | | | | |
| 17... | -- | .00 | -- | -- | 03... | 0845 | 610 | 8.0 | <50 |
| NOV | | | | | 24... | 0805 | 620 | 9.0 | <50 |
| 01... | -- | .00 | -- | -- | JUL | | | | |
| JAN , 1986 | | | | | 29... | 0830 | 340 | 13.5 | <50 |
| 09... | -- | .00 | -- | -- | AUG | | | | |
| APR | | | | | 27... | 1350 | 226 | 12.0 | -- |
| 10... | -- | 20 | -- | -- | | | | | |
| MAY | | | | | | | | | |
| 19... | 1145 | 519 | 5.0 | <50 | | | | | |
| 09292500 YELLOWSTONE RIVER NEAR ALTONAH, UT (Lat 40°30'43", Long 110°20'27") | | | | | | | | | |
| OCT , 1985 | | | | | JUN , 1986 | | | | |
| 21... | 1720 | 90 | 7.0 | 92 | 05... | 1620 | 1620 | 8.0 | <50 |
| NOV | | | | | 24... | 1545 | 564 | -- | <50 |
| 20... | 1610 | 90 | .0 | 77 | JUL | | | | |
| JAN , 1986 | | | | | 30... | 0850 | 218 | 8.5 | 51 |
| 09... | 0940 | 61 | .0 | 61 | AUG | | | | |
| APR | | | | | 27... | 1555 | 170 | 16.0 | -- |
| 11... | 1315 | 74 | 8.0 | 100 | | | | | |
| MAY | | | | | | | | | |
| 19... | 1525 | 166 | 12.0 | 64 | | | | | |
| 09295000 DUCHESNE RIVER AT MYTON, UT (Lat 40°12'01", Long 110°03'47") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 22... | 1725 | 48 | 10.5 | 1630 | 22... | 1620 | 272 | 11.0 | -- |
| NOV | | | | | MAY | | | | |
| 25... | 1330 | 459 | 2.0 | 700 | 15... | 1545 | 930 | 11.0 | 740 |
| DEC | | | | | JUN | | | | |
| 16... | 1630 | 429 | .0 | 690 | 05... | 1920 | 5810 | 9.0 | 270 |
| JAN , 1986 | | | | | 11... | 0900 | 3090 | 11.0 | 370 |
| 21... | 1445 | 439 | .0 | 710 | 27... | 0940 | 1840 | 15.5 | 340 |
| FEB | | | | | JUL | | | | |
| 20... | 1800 | 905 | 3.5 | 800 | 31... | 1220 | 201 | 20.5 | -- |
| MAR | | | | | SEP | | | | |
| 28... | 1700 | 519 | 11.0 | 780 | 10... | 1830 | 391 | 16.0 | 920 |

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) |
|---|------|---|-----------------------------|---|------------|------|---|-----------------------------|---|
| GREEN RIVER BASIN--Continued | | | | | | | | | |
| 09299500 WHITEROCKS RIVER NEAR WHITEROCKS, UT (Lat 40°35'13", Long 109°55'37") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 31... | 1620 | 59 | 5.5 | <50 | 20... | 1315 | 386 | 8.0 | <50 |
| NOV | | | | | JUN | | | | |
| 20... | 1050 | 41 | .0 | 77 | 06... | 0930 | 1220 | 7.0 | <50 |
| JAN , 1986 | | | | | 26... | 0750 | 335 | 8.5 | <50 |
| 29... | 1445 | 28 | .0 | 52 | JUL | | | | |
| FEB | | | | | 30... | 1450 | 126 | 16.0 | <50 |
| 26... | 0810 | 35 | 1.0 | 61 | AUG | | | | |
| APR | | | | | 26... | 1130 | 159 | 12.5 | <50 |
| 11... | 1045 | 56 | 3.0 | 54 | | | | | |
| 09306800 BITTER CREEK NEAR BONANZA, UT (Lat 39°45'12", Long 109°21'15") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 10... | 1545 | 18 | 7.0 | -- | 22... | 1625 | 24 | 18.0 | 2700 |
| 29... | 1450 | 15 | 10.0 | 3100 | MAY | | | | |
| NOV | | | | | 21... | 1430 | 23 | 18.0 | 2600 |
| 19... | 1440 | 17 | .5 | 2910 | JUN | | | | |
| DEC | | | | | 03... | 1310 | 21 | 21.0 | 2600 |
| 17... | 1410 | 4.1 | .0 | 4350 | JUL | | | | |
| JAN , 1986 | | | | | 10... | 1550 | 16 | 22.5 | -- |
| 15... | 1440 | 6.1 | .0 | 2350 | SEP | | | | |
| MAR | | | | | 25... | 1045 | 15 | 8.0 | -- |
| 25... | 1545 | 18 | 13.0 | 3250 | | | | | |
| 09308500 MINNIE MAUD CREEK NEAR MYTON, UT (Lat 39°47'55", Long 110°33'55") | | | | | | | | | |
| OCT , 1985 | | | | | JUN , 1986 | | | | |
| 11... | 1025 | 2.9 | 6.0 | 650 | 18... | 1130 | 14 | 17.5 | 700 |
| JAN , 1986 | | | | | JUL | | | | |
| 09... | 1430 | 1.2 | .5 | 840 | 16... | 1215 | 8.9 | 15.5 | 770 |
| APR | | | | | AUG | | | | |
| 22... | 0935 | 40 | 6.0 | 630 | 13... | 0950 | 5.3 | 13.5 | 850 |
| MAY | | | | | SEP | | | | |
| 14... | 1225 | 41 | 9.0 | 580 | 19... | 0930 | 3.1 | 5.0 | 550 |
| 09309600 FAIRVIEW IUNNEL NEAR FAIRVIEW, UT (Lat 39°40'03", Long 111°18'41") | | | | | | | | | |
| OCT , 1985 | | | | | JUN , 1986 | | | | |
| 03... | -- | .00 | -- | -- | 25... | 1440 | 12 | 13.0 | 325 |
| APR , 1986 | | | | | JUL | | | | |
| 15... | -- | .00 | -- | -- | 31... | 1450 | 16 | 19.5 | 280 |
| JUN | | | | | SEP | | | | |
| 04... | 1150 | 32 | 7.5 | -- | 11... | 1210 | 9.3 | 12.0 | 170 |
| 09310000 GOOSEBERRY CREEK NEAR SCOFIELD, UT (Lat 39°42'57", Long 111°17'58") | | | | | | | | | |
| OCT , 1985 | | | | | JUN , 1986 | | | | |
| 03... | 1510 | 4.8 | 11.0 | 140 | 04... | 1020 | 272 | 9.0 | 305 |
| DEC | | | | | 25... | 1115 | 33 | 15.0 | 330 |
| 05... | 1510 | 6.7 | .5 | -- | JUL | | | | |
| JAN , 1986 | | | | | 31... | 1220 | 9.3 | 19.0 | 160 |
| 10... | 1155 | 5.0 | .5 | -- | SEP | | | | |
| APR | | | | | 11... | 1430 | 6.4 | 15.5 | 140 |
| 15... | 1410 | 18 | 4.0 | -- | | | | | |
| 09310500 FISH CREEK ABOVE RESERVOIR, NEAR SCOFIELD, UT (Lat 39°46'28", Long 111°11'25") | | | | | | | | | |
| OCT , 1985 | | | | | JUN , 1986 | | | | |
| 02... | -- | 13 | 8.0 | 350 | 17... | 0920 | 173 | 9.5 | 350 |
| DEC | | | | | JUL | | | | |
| 06... | 1450 | 15 | .0 | 420 | 15... | 1435 | 46 | 15.0 | 270 |
| JAN , 1986 | | | | | AUG | | | | |
| 10... | 1410 | 17 | .0 | 420 | 12... | 1040 | 21 | 16.0 | 330 |
| APR | | | | | SEP | | | | |
| 15... | 1530 | 100 | 5.0 | -- | 18... | 0940 | 16 | 9.5 | 290 |
| MAY | | | | | | | | | |
| 13... | 1015 | 260 | 3.5 | 370 | | | | | |

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCTI- ANCE (US/CM) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCTI- ANCE (US/CM) |
|--|------|---|-----------------------------|--|------------|------|---|-----------------------------|--|
| GREEN RIVER BASIN--Continued | | | | | | | | | |
| 09310700 MUD CREEK BELOW WINTER QUARTERS CANYON, AT SCOFIELD, UT (Lat 39°43'18", Long 111°09'38") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 02... | -- | 9.5 | 10.0 | 570 | 04... | 1200 | 37 | 4.0 | 530 |
| 15... | -- | 10 | 2.5 | 580 | MAY | | | | |
| NOV | | | | | 13... | 1240 | 55 | 15.0 | 410 |
| 13... | -- | 12 | .0 | 500 | JUN | | | | |
| DEC | | | | | 17... | 1115 | 76 | 7.5 | 360 |
| 06... | 1120 | 7.4 | .0 | 630 | JUL | | | | |
| JAN , 1986 | | | | | 15... | 1250 | 20 | 16.5 | 460 |
| 09... | 1610 | 9.0 | .0 | -- | AUG | | | | |
| FEB | | | | | 12... | 1155 | 16 | 15.5 | 570 |
| 07... | 1150 | 4.8 | .0 | 1050 | SEP | | | | |
| MAR | | | | | 18... | 1110 | 14 | 9.0 | 530 |
| 07... | 1220 | 16 | 3.0 | 640 | | | | | |
| 09312600 WHITE RIVER BELOW TABBYUNE CREEK, NEAR SOLDIER SUMMIT, UT (Lat 39°52'33", Long 111°02'12') | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 02... | 0920 | 5.7 | 6.0 | 650 | 03... | 1730 | 151 | 5.5 | 580 |
| NOV | | | | | MAY | | | | |
| 13... | 1520 | 8.0 | .0 | 690 | 13... | 1435 | 192 | 10.0 | 570 |
| DEC | | | | | JUN | | | | |
| 11... | 1650 | 5.3 | .0 | 690 | 17... | 1250 | 60 | 13.5 | 550 |
| JAN , 1986 | | | | | JUL | | | | |
| 10... | 1330 | 5.3 | .0 | 670 | 15... | 1050 | 22 | 15.5 | 240 |
| FEB | | | | | AUG | | | | |
| 06... | 1730 | 6.0 | .0 | 670 | 12... | 1330 | 10 | 17.0 | 710 |
| MAR | | | | | SEP | | | | |
| 06... | 1810 | 60 | .0 | 590 | 18... | 1240 | 7.4 | 11.0 | 620 |
| 09312700 BEAVER CREEK NEAR SOLDIER SUMMIT, UT (Lat 39°49'50", Long 110°58'07") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 02... | 1910 | 1.2 | 10.0 | 460 | 03... | 1520 | 17 | 4.5 | 350 |
| NOV | | | | | MAY | | | | |
| 13... | 1620 | 1.4 | .0 | 480 | 13... | 1540 | 32 | 13.0 | 350 |
| DEC | | | | | JUN | | | | |
| 11... | 1500 | 1.9 | .0 | 530 | 17... | 1405 | 16 | 19.5 | 380 |
| JAN , 1986 | | | | | JUL | | | | |
| 10... | 0930 | 1.1 | .0 | 485 | 15... | 0925 | 3.6 | 20.0 | 470 |
| FEB | | | | | AUG | | | | |
| 06... | 1310 | 1.5 | .0 | 470 | 12... | 1430 | 1.8 | 20.0 | 430 |
| MAR | | | | | SEP | | | | |
| 06... | 1600 | 4.5 | 6.0 | 405 | 18... | 1340 | 1.3 | 11.0 | 450 |
| 09312800 WILLOW CREEK NEAR CASTLE GATE, UT (Lat 39°46'37", Long 110°47'30") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 03... | -- | 2.0 | 3.5 | 1040 | 03... | 1140 | 62 | 5.0 | 770 |
| NOV | | | | | MAY | | | | |
| 14... | -- | 1.8 | .0 | 1360 | 14... | 1005 | 43 | 5.0 | 660 |
| DEC | | | | | JUN | | | | |
| 11... | 1120 | 1.9 | .0 | 1240 | 18... | 0835 | 17 | 12.5 | 790 |
| JAN , 1986 | | | | | JUL | | | | |
| 09... | 1040 | 1.6 | .0 | 1140 | 16... | 0925 | 8.4 | 14.5 | 890 |
| FEB | | | | | AUG | | | | |
| 06... | 1030 | 1.6 | .0 | 1130 | 12... | 1540 | 11 | 22.0 | 1020 |
| MAR | | | | | SEP | | | | |
| 06... | 1130 | 31 | .0 | 1010 | 18... | 1435 | 3.1 | 11.5 | 900 |
| 09314250 PRICE RIVER BELOW MILLER CREEK, NEAR WELLINGTON, UT (Lat 39°26'59", Long 110°37'38") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 10... | 1200 | 72 | 7.5 | 2580 | 12... | 1105 | 557 | 11.0 | 850 |
| NOV | | | | | JUN | | | | |
| 13... | 1200 | 58 | 3.5 | 1200 | 16... | 1000 | 400 | 19.0 | 1000 |
| JAN , 1986 | | | | | JUL | | | | |
| 13... | 1500 | 59 | .0 | 1900 | 14... | 1120 | 82 | 24.5 | 1970 |
| FEB | | | | | AUG | | | | |
| 10... | 1235 | 44 | .0 | 3160 | 11... | 1120 | 78 | 21.5 | 2420 |
| MAR | | | | | SEP | | | | |
| 10... | 1515 | 363 | 9.0 | 970 | 17... | 1050 | 68 | 14.5 | 2100 |
| APR | | | | | | | | | |
| 15... | 1335 | 659 | 9.0 | 740 | | | | | |

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) |
|---|------|---|-----------------------------|---|------------|------|---|-----------------------------|---|
| GREEN RIVER BASIN--Continued | | | | | | | | | |
| 09314280 DESERT SEEP WASH NEAR WELLINGTON, UT (Lat 39°25'16", Long 110°38'44") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 10... | 0945 | 49 | 10.0 | 1800 | 12... | 1320 | 64 | 15.0 | 3000 |
| NOV | | | | | JUN | | | | |
| 13... | 0915 | 58 | 2.0 | 4400 | 16... | 1155 | 65 | 25.0 | 2900 |
| DEC | | | | | JUL | | | | |
| 17... | 0920 | 17 | .0 | 5400 | 14... | 1400 | 35 | 24.5 | 2750 |
| FEB , 1986 | | | | | AUG | | | | |
| 10... | 1325 | 19 | .0 | 6500 | 11... | 1315 | 30 | 21.0 | 2600 |
| MAR | | | | | SEP | | | | |
| 10... | 1125 | 49 | 9.5 | 1940 | 17... | 1235 | 46 | 15.0 | 2360 |
| APR | | | | | | | | | |
| 16... | 0900 | 69 | 9.5 | 1500 | | | | | |
| 09319000 EPHRAIM TUNNEL NEAR EPHRAIM, UT (Lat 39°19'4", Long 111°25'51") | | | | | | | | | |
| OCT , 1985 | | | | | JUN , 1986 | | | | |
| 04... | -- | 0.0 | -- | -- | 24... | 1245 | 15 | 9.5 | 255 |
| APR , 1986 | | | | | JUL | | | | |
| 15... | -- | 0.0 | -- | -- | 30... | 1310 | 1.7 | 15.5 | 285 |
| JUN | | | | | SEP | | | | |
| 04... | 1500 | 38 | 3.0 | -- | 09... | 1145 | .01 | 10.0 | 285 |
| 09323000 SPRING CITY TUNNEL NEAR SPRING CITY, UT (Lat 39°25'34", Long 111°21'51") | | | | | | | | | |
| OCT , 1985 | | | | | JUL , 1986 | | | | |
| 04... | 1300 | 1.0 | 4.0 | 350 | 30... | 1750 | 2.7 | 13.5 | 325 |
| JUN , 1986 | | | | | SEP | | | | |
| 04... | 1255 | 13 | 3.0 | 250 | 09... | 1430 | 1.3 | 8.0 | 330 |
| JUL | | | | | | | | | |
| 09... | 1150 | 7.2 | 8.0 | 320 | | | | | |
| 09326500 FERRON CREEK (UPPER STATION) NEAR FERRON, UT (Lat 39°06'15", Long 111°12'47") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 10... | 1310 | 26 | 5.5 | 650 | 13... | 1135 | 138 | 5.0 | 480 |
| NOV | | | | | JUN | | | | |
| 13... | 1015 | 5.2 | 3.0 | 530 | 17... | 1150 | 389 | 10.0 | 405 |
| JAN , 1986 | | | | | JUL | | | | |
| 14... | 1030 | 10 | .0 | 660 | 15... | 1350 | 86 | 16.0 | 430 |
| FEB | | | | | AUG | | | | |
| 12... | 0955 | 7.6 | .0 | 650 | 12... | 1335 | 39 | 17.5 | 450 |
| MAR | | | | | SEP | | | | |
| 11... | 0955 | 18 | 1.5 | 570 | 18... | 1340 | 21 | 10.5 | 560 |
| APR | | | | | | | | | |
| 16... | 1400 | 48 | 9.0 | 580 | | | | | |
| 09327550 FERRON CREEK BELOW PARADISE RANCH, NEAR CLAWSON, UT (Lat 39°07'09", Long 110°59'20") | | | | | | | | | |
| OCT , 1985 | | | | | JUN , 1986 | | | | |
| 10... | 1050 | 20 | 8.0 | 3240 | 17... | 0920 | 345 | 14.0 | 670 |
| DEC | | | | | JUL | | | | |
| 17... | 1145 | 11 | .0 | 3200 | 15... | 1020 | 18 | 20.0 | 2430 |
| FEB , 1986 | | | | | AUG | | | | |
| 11... | 1430 | 13 | .0 | 3620 | 12... | 0945 | 33 | 18.5 | 1180 |
| APR | | | | | SEP | | | | |
| 16... | 1225 | 6.2 | 13.0 | 2940 | 18... | 0940 | 7.2 | 12.5 | 3030 |
| MAY | | | | | | | | | |
| 13... | 1400 | 18 | 18.0 | 2680 | | | | | |
| 09328000 SAN RAFAEL RIVER NEAR CASTLE DALE, UT (Lat 39°08'37", Long 110°53'50") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 09... | 1330 | 149 | 8.5 | 3110 | 12... | 1330 | 335 | 14.0 | 1180 |
| DEC | | | | | JUN | | | | |
| 16... | 1300 | 107 | .0 | 2300 | 16... | 1340 | 1420 | 16.5 | 650 |
| JAN , 1986 | | | | | JUL | | | | |
| 13... | 1155 | 73 | .0 | 2050 | 14... | 1410 | 79 | 26.0 | 2280 |
| FEB | | | | | AUG | | | | |
| 11... | 1200 | 105 | .0 | 2390 | 11... | 1305 | 94 | 22.0 | 2300 |
| MAR | | | | | SEP | | | | |
| 10... | 1400 | 68 | 7.0 | 1960 | 17... | 1315 | 43 | 16.0 | 2560 |
| APR | | | | | | | | | |
| 18... | 0930 | 134 | 7.5 | 1700 | | | | | |

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) |
|---|------|---|-----------------------------|---|------------|------|---|-----------------------------|---|
| GREEN RIVER BASIN--Continued | | | | | | | | | |
| 09328100 SAN RAFAEL RIVER AT SAN RAFAEL BRIDGE CAMPGROUND, NEAR CASTLE DALE, UT (Lat 39°04'51", Long 110°39'56") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 09... | 1135 | 148 | 9.0 | 2800 | 12... | 1105 | 238 | 13.5 | 1450 |
| DEC | | | | | JUN | | | | |
| 16... | 1050 | 83 | .0 | 2070 | 16... | 1230 | 1300 | 16.5 | 670 |
| FEB , 1986 | | | | | JUL | | | | |
| 11... | 1010 | 74 | .0 | 2930 | 14... | 1125 | 85 | 23.0 | 2360 |
| MAR | | | | | AUG | | | | |
| 10... | 1120 | 78 | 7.0 | 3010 | 11... | 1100 | 93 | 22.0 | 2350 |
| APR | | | | | SEP | | | | |
| 18... | 1130 | 141 | 9.5 | 1640 | 17... | 1110 | 53 | 15.5 | 2600 |
| DIRTY DEVIL RIVER BASIN | | | | | | | | | |
| 09329050 SEVEN MILE CREEK NEAR FISH LAKE, UT (Lat 38°37'40", Long 111°38'50") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 14... | 1340 | 18 | 2.5 | 155 | 20... | 1240 | 70 | 5.0 | 100 |
| DEC | | | | | JUN | | | | |
| 19... | 1125 | 10 | .5 | 135 | 11... | 1020 | 37 | 9.0 | -- |
| JAN , 1986 | | | | | JUL | | | | |
| 29... | 1135 | 8.4 | 1.0 | -- | 02... | 1345 | 17 | 13.0 | 135 |
| MAR | | | | | AUG | | | | |
| 25... | 1150 | 9.3 | 2.0 | 170 | 19... | 1335 | 15 | 15.0 | 125 |
| 09330000 FREMONT RIVER NEAR BICKNELL, UT (Lat 38°18'25", Long 111°31'03") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 10... | 1250 | 115 | 7.5 | 660 | 21... | 1110 | 89 | 9.0 | 510 |
| DEC | | | | | JUL | | | | |
| 04... | 1340 | 118 | 5.0 | -- | 02... | 1100 | 77 | 17.0 | 520 |
| JAN , 1986 | | | | | AUG | | | | |
| 16... | 1430 | 111 | 6.0 | 490 | 19... | 1105 | 76 | 15.5 | 490 |
| MAR | | | | | SEP | | | | |
| 12... | 1145 | 103 | 6.0 | 550 | 11... | 1155 | 101 | 10.0 | 450 |
| 09330230 FREMONT RIVER NEAR CAINEVILLE, UT (Lat 38°16'40", Long 111°04'00") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 10... | 1505 | 130 | 10.0 | 770 | 21... | 0850 | 63 | 12.0 | 590 |
| DEC | | | | | JUL | | | | |
| 04... | 1200 | 145 | 4.5 | 610 | 10... | 0850 | 32 | 15.0 | 730 |
| JAN , 1986 | | | | | AUG | | | | |
| 16... | 1235 | 103 | 3.0 | 560 | 19... | 0855 | 38 | 19.0 | 750 |
| MAR | | | | | SEP | | | | |
| 12... | 0910 | 114 | 4.0 | 620 | 11... | 0925 | 90 | 10.0 | 590 |
| APR | | | | | | | | | |
| 25... | 0810 | 151 | 9.0 | 500 | | | | | |
| 09330500 MUDDY CREEK NEAR EMERY, UT (Lat 38°58'55", Long 111°14'55") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 09... | 1400 | 25 | 6.5 | 410 | 13... | 0950 | 85 | 4.0 | 430 |
| NOV | | | | | JUN | | | | |
| 12... | 1400 | 18 | 1.0 | 415 | 17... | 1500 | 172 | 14.0 | 410 |
| JAN , 1986 | | | | | JUL | | | | |
| 14... | 1315 | 11 | .0 | 500 | 15... | 1150 | 80 | 12.5 | 430 |
| FEB | | | | | AUG | | | | |
| 12... | 1130 | 8.3 | .0 | 470 | 12... | 1210 | 41 | 16.0 | 350 |
| MAR | | | | | SEP | | | | |
| 11... | 1005 | 19 | 3.5 | 480 | 18... | 1145 | 36 | 8.0 | 450 |
| APR | | | | | | | | | |
| 17... | 1230 | 37 | 5.0 | 440 | | | | | |
| 09332100 MUDDY CREEK BELOW INTERSTATE HIGHWAY I-70, NEAR EMERY, UT (Lat 38°48'44", Long 111°11'53") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 09... | 1225 | 23 | 7.0 | 2500 | 14... | 1025 | 44 | 11.5 | 1680 |
| NOV | | | | | JUN | | | | |
| 12... | 1205 | 31 | 4.5 | 2260 | 18... | 0955 | 68 | 17.0 | 850 |
| DEC | | | | | JUL | | | | |
| 17... | 1400 | 25 | .0 | 2070 | 16... | 1020 | 35 | 18.0 | 2270 |
| FEB , 1986 | | | | | AUG | | | | |
| 12... | 1230 | 36 | 7.5 | 1780 | 13... | 1025 | 3.7 | 18.0 | 2420 |
| APR | | | | | SEP | | | | |
| 17... | 1005 | 30 | 8.5 | 1710 | 19... | 1015 | 6.6 | 10.5 | 3320 |

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) |
|------|------|---|-----------------------------|---|------|------|---|-----------------------------|---|
|------|------|---|-----------------------------|---|------|------|---|-----------------------------|---|

DIRTY DEVIL RIVER BASIN--Continued

09332700 MUDDY CREEK AT DELTA MINE, NEAR HANKSVILLE, UT (Lat 38°33'41", Long 110°57'13")

| | | | | | | | | | |
|------------|------|-----|------|------|------------|------|-----|------|------|
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 11... | 1200 | 56 | 12.5 | 2060 | 18... | 1000 | 20 | 8.5 | 1920 |
| NOV | | | | | MAY | | | | |
| 26... | 1255 | 26 | 6.5 | 2460 | 29... | 1245 | 93 | 19.5 | 1100 |
| DEC | | | | | JUN | | | | |
| 20... | 1010 | 17 | .0 | 2960 | 27... | 1015 | 53 | 20.5 | 2510 |
| JAN , 1986 | | | | | JUL | | | | |
| 17... | 1020 | 20 | .0 | 2630 | 30... | 1030 | 5.3 | 19.0 | 3220 |
| FEB | | | | | AUG | | | | |
| 12... | 1020 | 8.7 | .0 | 3890 | 26... | 1030 | 16 | 21.5 | 3390 |
| MAR | | | | | | | | | |
| 12... | 0955 | 28 | 5.5 | 2520 | | | | | |

09333500 DIRTY DEVIL RIVER ABOVE POISON SPRING WASH, NEAR HANKSVILLE, UT
(Lat 38°05'39", Long 110°24'24")

| | | | | | | | | | |
|------------|------|-----|------|------|------------|------|-----|------|------|
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 25... | 1115 | 118 | 11.0 | 1660 | 13... | 0910 | 126 | 7.5 | 1440 |
| NOV | | | | | APR | | | | |
| 14... | 1200 | 159 | 5.0 | 1580 | 17... | 1205 | 157 | 14.0 | 1210 |
| DEC | | | | | MAY | | | | |
| 19... | 1045 | 150 | .0 | 1210 | 28... | 1225 | 112 | 21.0 | 1990 |
| JAN , 1986 | | | | | JUN | | | | |
| 16... | 1130 | 169 | 3.0 | 1350 | 26... | 1230 | 29 | 27.5 | 1990 |
| FEB | | | | | JUL | | | | |
| 11... | 1120 | 69 | .0 | 1190 | 29... | 1300 | 26 | 36.0 | 2850 |

ESCALANTE RIVER BASIN

09337000 PINE CREEK NEAR ESCALANTE, UT (Lat 37°51'45", Long 111°38'07")

| | | | | | | | | | |
|------------|------|-----|-----|-----|------------|------|-----|------|-----|
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 16... | 1445 | 5.3 | 8.0 | 385 | 24... | 1350 | 7.6 | 6.5 | 310 |
| NOV | | | | | JUN | | | | |
| 29... | 1325 | 5.5 | .5 | 370 | 02... | 1310 | 5.8 | 15.0 | 320 |
| JAN , 1986 | | | | | JUL | | | | |
| 17... | 0930 | 5.0 | 1.0 | 390 | 01... | 1630 | 6.1 | -- | 275 |
| MAR | | | | | AUG | | | | |
| 11... | 1340 | 4.6 | 5.0 | 415 | 18... | 1525 | 6.3 | 20.0 | 235 |

09337500 ESCALANTE RIVER NEAR ESCALANTE, UT (Lat 37°46'41", Long 111°34'26")

| | | | | | | | | | |
|------------|------|-----|------|------|------------|------|-----|------|------|
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 16... | 1250 | 8.3 | 12.0 | 1040 | 24... | 1220 | 19 | 16.0 | 1220 |
| NOV | | | | | JUN | | | | |
| 29... | 1200 | 6.6 | -- | 1080 | 02... | 1040 | 3.0 | 15.0 | 1040 |
| JAN , 1986 | | | | | JUL | | | | |
| 17... | 1110 | 14 | 3.0 | 940 | 01... | 1445 | 5.7 | 18.0 | 2810 |
| MAR | | | | | AUG | | | | |
| 11... | 1220 | 19 | 9.0 | 930 | 18... | 1355 | .97 | 27.0 | 1810 |

SAN JUAN RIVER BASIN

09378170 SOUTH CREEK ABOVE RESERVOIR NEAR MONTICELLO, UT (Lat 37°50'48", Long 109°22'08")

| | | | | | | | | | |
|------------|------|-----|-----|-----|------------|------|------|------|-----|
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 04... | 1240 | .10 | 5.5 | 315 | 10... | 1300 | 7.3 | 11.5 | 230 |
| NOV | | | | | MAY | | | | |
| 14... | 1500 | .21 | .5 | 340 | 01... | 1215 | 7.1 | 10.0 | 220 |
| DEC | | | | | 15... | 1800 | 3.7 | 10.0 | 240 |
| 18... | 1400 | .14 | .0 | 330 | JUN | | | | |
| JAN , 1986 | | | | | 23... | 1650 | 1.60 | 16.0 | 220 |
| 15... | 1435 | .26 | .0 | 340 | JUL | | | | |
| FEB | | | | | 21... | 1605 | .50 | 15.5 | 300 |
| 13... | 1430 | .37 | .0 | 320 | AUG | | | | |
| MAR | | | | | 14... | 1535 | .47 | 15.5 | 280 |
| 06... | 1540 | 3.0 | 8.0 | -- | | | | | |

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) |
|---|------|---|-----------------------------|---|------------|------|---|-----------------------------|---|
| SAN JUAN RIVER BASIN | | | | | | | | | |
| 09378200 MONTEZUMA CREEK AT GOLF COURSE, AT MONTICELLO, UT (Lat 37°51'38", Long 109°20'30") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 03... 0810 | .14 | 4.0 | 570 | 10... 1225 | .56 | 11.0 | 720 | | |
| NOV 14... 1415 | .21 | .5 | 370 | MAY 15... 1850 | 1.0 | 9.5 | 700 | | |
| DEC 18... 1230 | .13 | .0 | 700 | JUN 23... 1445 | 1.4 | 11.0 | 440 | | |
| JAN , 1986 | | | | JUL 21... 1450 | 1.6 | 18.0 | 430 | | |
| 15... 1400 | .13 | .0 | 760 | AUG 14... 1425 | 1.1 | 15.5 | 410 | | |
| FEB 13... 1330 | .14 | .0 | 650 | | | | | | |
| MAR 12... 1730 | .29 | 7.0 | 690 | | | | | | |
| 09378630 RECAPTURE CREEK NEAR BLANDING, UT (Lat 37°45'20", Long 109°28'33") | | | | | | | | | |
| OCT , 1985 | | | | APR , 1986 | | | | | |
| 03... 0810 | .14 | 4.0 | 570 | 10... 1225 | .56 | 11.0 | 720 | | |
| NOV 14... 1415 | .21 | .5 | 370 | MAY 15... 1850 | 1.0 | 9.5 | 700 | | |
| DEC 18... 1230 | .13 | .0 | 700 | JUN 23... 1445 | 1.4 | 11.0 | 440 | | |
| JAN , 1986 | | | | JUL 21... 1450 | 1.6 | 18.0 | 430 | | |
| 15... 1400 | .13 | .0 | 760 | AUG 14... 1425 | 1.1 | 15.5 | 410 | | |
| FEB 13... 1330 | .14 | .0 | 650 | | | | | | |
| MAR 12... 1730 | .29 | 7.0 | 690 | | | | | | |
| 09378650 RECAPTURE CREEK BELOW JOHNSON CREEK, NEAR BLANDING, UT (Lat 37°40'51", Long 109°27'43") | | | | | | | | | |
| OCT , 1985 | | | | APR , 1986 | | | | | |
| 03... 1220 | .00 | -- | -- | 10... 1425 | 52 | 13.5 | 200 | | |
| NOV 15... 0745 | .00 | -- | -- | MAY 15... 1410 | 21 | 14.5 | 200 | | |
| DEC 20... 0810 | .00 | -- | -- | JUN 25... 1030 | .25 | 15.0 | 210 | | |
| JAN , 1986 | | | | JUL 23... 1110 | .08 | 19.5 | 200 | | |
| 17... 0910 | .00 | -- | -- | AUG 05... 1040 | .00 | -- | -- | | |
| FEB 14... 0830 | .00 | -- | -- | | | | | | |
| MAR 12... 1455 | 14 | 6.5 | 290 | | | | | | |
| 09378700 COTTONWOOD WASH NEAR BLANDING, UT (Lat 37°33'38", Long 109°34'41") | | | | | | | | | |
| OCT , 1985 | | | | APR , 1986 | | | | | |
| 02... 1545 | 1.1 | 20.5 | 570 | 11... 1250 | 14 | 20.0 | 510 | | |
| NOV 15... 1310 | 3.3 | 5.5 | 500 | MAY 16... 1300 | 5.9 | 14.0 | 580 | | |
| DEC 20... 1200 | 7.8 | .0 | 580 | JUN 24... 1450 | .00 | -- | -- | | |
| JAN , 1986 | | | | JUL 23... 0830 | 38 | 16.5 | 240 | | |
| 17... 1030 | 7.1 | .0 | 560 | AUG 15... 1040 | 3.7 | 23.0 | 170 | | |
| FEB 14... 1210 | 3.2 | 6.0 | 540 | | | | | | |
| MAR 13... 1325 | 14 | 9.0 | 290 | | | | | | |
| KANAB CREEK BASIN | | | | | | | | | |
| 09403600 KANAB CREEK NEAR KANAB, UT (Lat 37°06'02", Long 112°32'50") | | | | | | | | | |
| OCT , 1985 | | | | APR , 1986 | | | | | |
| 07... 1440 | 11 | 14.0 | 500 | 09... 1300 | 14 | 8.0 | 770 | | |
| NOV 01... 1325 | 8.4 | 12.0 | 640 | MAY 16... 1055 | 8.0 | 17.0 | 500 | | |
| DEC 02... 1410 | 16 | 5.0 | 1080 | JUN 26... 1050 | 6.8 | 20.0 | 475 | | |
| JAN , 1986 | | | | JUL 30... 1500 | 6.3 | 30.0 | 500 | | |
| 03... 1425 | 16 | 8.0 | 1010 | AUG 25... 1615 | 7.0 | 28.0 | 520 | | |
| FEB 04... 1340 | 15 | 9.0 | 830 | | | | | | |
| MAR 06... 1205 | 19 | 14.0 | 790 | | | | | | |

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) |
|---|------|---|-----------------------------|---|------------|------|---|-----------------------------|---|
| VIRGIN RIVER BASIN | | | | | | | | | |
| 09404450 EAST FORK VIRGIN RIVER NEAR GLENDALE, UT (Lat 37°20'19", Long 112°36'13") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 07... 1305 | 13 | 11.0 | 540 | | 09... 1130 | 26 | 8.0 | 560 | |
| NOV | | | | | MAY | | | | |
| 01... 1330 | 17 | 10.0 | 610 | | 16... 1350 | 14 | 10.0 | 540 | |
| DEC | | | | | JUN | | | | |
| 02... 1200 | 22 | 2.0 | 570 | | 26... 0825 | 8.7 | 12.0 | 500 | |
| JAN , 1986 | | | | | JUL | | | | |
| 03... 1210 | 18 | 4.0 | 530 | | 30... 1100 | 7.0 | 14.0 | 495 | |
| FEB | | | | | AUG | | | | |
| 04... 1150 | 19 | 3.0 | 530 | | 25... 1305 | 11 | 16.0 | 475 | |
| MAR | | | | | | | | | |
| 06... 1040 | 24 | 6.0 | 550 | | | | | | |
| 09405500 NORTH FORK VIRGIN RIVER NEAR SPRINGDALE, UT (Lat 37°12'35", Long 112°58'40") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 29... 1250 | 44 | 12.5 | 770 | | 09... 1355 | 159 | 11.0 | 500 | |
| DEC | | | | | JUN | | | | |
| 09... 1515 | 34 | 5.5 | 850 | | 19... 1120 | 53 | 16.0 | 710 | |
| JAN , 1986 | | | | | JUL | | | | |
| 16... 1130 | 44 | 6.0 | 780 | | 24... 1200 | 44 | 18.5 | 730 | |
| FEB | | | | | SEP | | | | |
| 21... 1345 | 98 | 5.0 | 690 | | 03... 1125 | 34 | 16.0 | 740 | |
| APR | | | | | | | | | |
| 10... 1650 | 195 | 10.5 | 520 | | | | | | |
| 09405900 NORTH CREEK NEAR VIRGIN, UT (Lat 37°14'14", Long 113°09'01") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 08... 1450 | 14 | 13.0 | 395 | | 11... 1510 | 14 | 18.5 | 550 | |
| NOV | | | | | MAY | | | | |
| 13... 1400 | 8.9 | 7.0 | 640 | | 15... 1530 | 2.7 | 21.5 | 900 | |
| DEC | | | | | JUL | | | | |
| 11... 1350 | 5.7 | 5.0 | 700 | | 23... 1500 | 5.2 | 26.5 | 530 | |
| JAN , 1986 | | | | | SEP | | | | |
| 17... 1535 | 4.2 | 9.5 | 730 | | 03... 1940 | .64 | 23.5 | 690 | |
| FEB | | | | | | | | | |
| 18... 1620 | 24 | 9.5 | 460 | | | | | | |
| 09406000 VIRGIN RIVER AT VIRGIN, UT (Lat 37°10'22", Long 113°10'48") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 24... 1315 | 118 | 14.0 | 850 | | 09... 1810 | 213 | 17.5 | 580 | |
| DEC | | | | | JUN | | | | |
| 03... 1415 | 230 | 10.0 | 660 | | 19... 1715 | 78 | 27.0 | 740 | |
| JAN , 1986 | | | | | JUL | | | | |
| 17... 1130 | 131 | 6.5 | 800 | | 24... 1450 | 111 | 24.0 | 750 | |
| 22... 1345 | 127 | 7.5 | 820 | | SEP | | | | |
| FEB | | | | | 03... 1705 | 76 | 25.5 | 780 | |
| 18... 1110 | 256 | 6.5 | 770 | | | | | | |
| APR | | | | | | | | | |
| 03... 1305 | 403 | 10.5 | 550 | | | | | | |
| 09406150 LAVERKIN CREEK NEAR LAVERKIN, UT (Lat 37°12'17", Long 113°17'03") | | | | | | | | | |
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 07... 1215 | 5.1 | 19.0 | 1180 | | 11... 1135 | 46 | -- | 710 | |
| NOV | | | | | APR | | | | |
| 13... 1150 | 10 | 7.0 | 800 | | 22... 1015 | 19 | 17.0 | 860 | |
| DEC | | | | | MAY | | | | |
| 11... 1300 | 4.3 | -- | 1230 | | 28... 1055 | 3.4 | 22.0 | 1160 | |
| JAN , 1986 | | | | | JUL | | | | |
| 09... 1310 | 3.1 | 9.0 | 1240 | | 03... 1625 | .54 | 23.0 | 1490 | |
| FEB | | | | | AUG | | | | |
| 10... 1300 | 2.4 | 9.0 | 1400 | | 13... 1610 | 3.0 | 29.0 | 1370 | |
| 09407000 ASH CREEK ABOVE TOQUERVILLE, UT (Lat 37°16'00", Long 113°16'43") | | | | | | | | | |
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 07... -- | .00 | -- | -- | | 11... 0955 | 3.0 | 7.0 | 185 | |
| NOV | | | | | APR | | | | |
| 13... -- | .00 | -- | -- | | 22... -- | .00 | -- | -- | |
| DEC | | | | | MAY | | | | |
| 05... 1635 | 4.2 | 7.0 | 740 | | 28... -- | .00 | -- | -- | |
| JAN , 1986 | | | | | JUL | | | | |
| 09... -- | .00 | -- | -- | | 03... -- | .00 | -- | -- | |
| FEB | | | | | AUG | | | | |
| 10... -- | .00 | -- | -- | | 14... 1625 | 1.5 | 31.0 | 340 | |

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) |
|--|------|---|-----------------------------|---|------------|------|---|-----------------------------|---|
| VIRGIN RIVER BASIN--Continued | | | | | | | | | |
| 09408000 LEEDS CREEK NEAR LEEDS, UT (Lat 37°16'03", Long 113°22'12") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 25... | 1200 | 3.1 | 9.0 | 285 | 10... | 1200 | 8.6 | 10.5 | 245 |
| NOV | | | | | MAY | | | | |
| 22... | 1055 | 3.3 | 2.0 | 305 | 22... | 1155 | 7.8 | 12.0 | 235 |
| DEC | | | | | JUL | | | | |
| 18... | 1645 | 3.6 | 1.0 | 310 | 01... | 0825 | 8.5 | 14.0 | 215 |
| JAN , 1986 | | | | | AUG | | | | |
| 15... | 1530 | 3.9 | 6.0 | 300 | 11... | 1015 | 5.3 | 17.5 | 275 |
| FEB | | | | | | | | | |
| 13... | 1050 | 4.1 | 2.5 | 305 | | | | | |
| 09408150 VIRGIN RIVER NEAR HURRICANE, UT (Lat 37°09'45", Long 113°23'42") | | | | | | | | | |
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 07... | 1345 | 76 | 20.0 | 3750 | 11... | 1245 | 435 | 10.0 | 1060 |
| NOV | | | | | APR | | | | |
| 13... | 1010 | 201 | 9.5 | 1880 | 22... | 1220 | 254 | 22.0 | 1540 |
| DEC | | | | | MAY | | | | |
| 11... | 1415 | 156 | 6.0 | 2170 | 27... | 1300 | 205 | 22.0 | 1850 |
| JAN , 1986 | | | | | JUL | | | | |
| 09... | 1455 | 136 | 6.0 | 1900 | 03... | 1435 | 88 | 28.0 | -- |
| FEB | | | | | AUG | | | | |
| 10... | 1450 | 50 | 9.0 | 3680 | 13... | 1400 | 90 | 26.0 | -- |
| 09408195 FORT PIERCE WASH NEAR ST. GEORGE, UT (Lat 37°00'03", Long 113°28'05") | | | | | | | | | |
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 08... | 1410 | .05 | 13.5 | 2530 | 11... | -- | .00 | -- | -- |
| NOV | | | | | APR | | | | |
| 12... | -- | .00 | -- | -- | 10... | -- | .00 | -- | -- |
| JAN , 1986 | | | | | MAY | | | | |
| 09... | -- | .00 | -- | -- | 22... | -- | .00 | -- | -- |
| FEB | | | | | AUG | | | | |
| 11... | -- | .00 | -- | -- | 04... | -- | .00 | -- | -- |
| 09408400 SANTA CLARA RIVER NEAR PINE VALLEY, UT (Lat 37°23'00", Long 113°28'57") | | | | | | | | | |
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 11... | 1130 | 3.2 | 5.0 | 105 | 26... | 1250 | 13 | 6.0 | 76 |
| NOV | | | | | APR | | | | |
| 14... | 1050 | 2.1 | 1.0 | 110 | 23... | 1400 | 23 | 8.0 | 57 |
| DEC | | | | | MAY | | | | |
| 17... | 1455 | 2.5 | .5 | 110 | 30... | 1640 | 13 | 18.0 | 64 |
| JAN , 1986 | | | | | JUL | | | | |
| 16... | 1245 | 2.1 | 1.0 | 110 | 02... | 1525 | 6.0 | 16.0 | 86 |
| FEB | | | | | AUG | | | | |
| 14... | 1435 | 2.5 | 4.5 | 105 | 12... | 1505 | 2.8 | 21.0 | 90 |
| 09408500 SANTA CLARA-PINTO DIVERSION NEAR PINTO, UT (Lat 37°28'04", Long 113°28'21") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 11... | -- | .00 | -- | -- | 23... | 1240 | 16 | 10.5 | 135 |
| DEC | | | | | MAY | | | | |
| 19... | -- | .00 | -- | -- | 30... | 1725 | 4.2 | 19.0 | 180 |
| JAN , 1986 | | | | | JUL | | | | |
| 16... | -- | e.20 | -- | -- | 02... | -- | .00 | -- | -- |
| FEB | | | | | AUG | | | | |
| 26... | 0945 | .76 | 2.0 | 230 | 12... | -- | .00 | -- | -- |
| MAR | | | | | | | | | |
| 26... | 1100 | 19 | 4.0 | 125 | | | | | |
| 09409880 SANTA CLARA RIVER AT GUNLOCK, UT (Lat 37°16'55", Long 113°46'00") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 03... | 1540 | 5.0 | 23.0 | 465 | 10... | 1600 | 24 | 11.0 | 345 |
| NOV | | | | | MAY | | | | |
| 14... | 1315 | 10 | 11.0 | 560 | 22... | 1730 | 13 | 20.0 | -- |
| DEC | | | | | JUL | | | | |
| 17... | 1255 | 14 | 5.0 | 530 | 01... | 1325 | 8.7 | 28.0 | 370 |
| JAN , 1986 | | | | | AUG | | | | |
| 15... | 1250 | 8.2 | 10.0 | 600 | 11... | 1420 | 4.5 | 29.5 | 405 |
| FEB | | | | | | | | | |
| 13... | 1500 | 8.9 | 12.0 | 580 | | | | | |

e Estimated.

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) |
|--|------|---|-----------------------------|---|------------|------|---|-----------------------------|---|
| VIRGIN RIVER BASIN--Continued | | | | | | | | | |
| 09410100 SANTA CLARA RIVER BELOW WINDSOR DAM, NEAR SANTA CLARA, UT (Lat 37°11'24", Long 113°46'03") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 03... | 1410 | 6.6 | 17.0 | 530 | 22... | 1600 | 25 | 12.0 | 465 |
| NOV | | | | | JUL | | | | |
| 14... | 1435 | 9.4 | 11.0 | 570 | 01... | 1155 | 17 | 18.0 | 465 |
| MAR , 1986 | | | | | AUG | | | | |
| 21... | 1600 | 17 | 15.0 | 530 | 04... | 1500 | 14 | 26.0 | 460 |
| APR | | | | | | | | | |
| 23... | 1555 | 23 | 16.5 | 485 | | | | | |
| 09413000 SANTA CLARA RIVER AT ST. GEORGE, UT (Lat 37°04'26", Long 113°34'56") | | | | | | | | | |
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 08... | 1240 | 7.2 | 15.0 | 1260 | 12... | 0925 | 7.1 | 10.0 | 1780 |
| NOV | | | | | APR | | | | |
| 12... | 1130 | 11 | 7.5 | 1330 | 22... | 1650 | 5.2 | 23.0 | 1720 |
| DEC | | | | | MAY | | | | |
| 12... | 1105 | 6.7 | 4.5 | 1770 | 28... | 1650 | 5.5 | 24.0 | 1680 |
| JAN , 1986 | | | | | JUL | | | | |
| 10... | 1120 | 4.5 | 5.0 | 1810 | 03... | 1310 | 3.6 | 22.0 | 1780 |
| FEB | | | | | AUG | | | | |
| 11... | 1110 | 3.7 | 5.0 | 1940 | 13... | 1200 | 4.8 | 29.0 | -- |
| 09413200 VIRGIN RIVER NEAR BLOOMINGTON, UT (Lat 37°04'14", Long 113°34'55") | | | | | | | | | |
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 08... | 1110 | 74 | 15.0 | 3880 | 12... | 1040 | 391 | 10.5 | 1630 |
| NOV | | | | | APR | | | | |
| 12... | 1340 | 285 | 10.0 | 2300 | 22... | 1430 | 83 | 23.0 | 2540 |
| DEC | | | | | MAY | | | | |
| 12... | 1400 | 179 | 5.0 | 2270 | 27... | 1540 | 120 | 27.5 | 2270 |
| JAN , 1986 | | | | | JUL | | | | |
| 10... | 0940 | 177 | 3.0 | 2290 | 03... | 1005 | 31 | 22.0 | 4100 |
| FEB | | | | | AUG | | | | |
| 11... | 1310 | 66 | 7.0 | 3660 | 13... | 1010 | 48 | 29.0 | 3730 |
| BEAR RIVER BASIN | | | | | | | | | |
| 10010400 EAST FORK BEAR RIVER NEAR EVANSTON, WY (Lat 40°52'25", Long 110°47'00") | | | | | | | | | |
| OCT , 1985 | | | | | JUN , 1986 | | | | |
| 08... | 1140 | 20 | .5 | 230 | 02... | 1610 | 456 | 4.0 | 105 |
| DEC | | | | | JUL | | | | |
| 11... | 1120 | 13 | .0 | 190 | 08... | 1525 | 157 | 11.5 | 51 |
| JAN , 1986 | | | | | AUG | | | | |
| 08... | 1300 | 11 | .0 | 165 | 05... | 1745 | 45 | 16.0 | 75 |
| APR | | | | | | | | | |
| 10... | 1300 | 25 | 2.0 | 240 | | | | | |
| 10011200 WEST FORK BEAR RIVER AT WHITNEY DAM, NEAR OAKLEY, UT (Lat 40°50'30", Long 110°55'35") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 07... | 1250 | 1.5 | 5.0 | 300 | 10... | 1115 | 1.4 | 3.0 | 225 |
| NOV | | | | | JUL | | | | |
| 27... | 1250 | 1.9 | .0 | -- | 08... | 1640 | 19 | 7.0 | 165 |
| JAN , 1986 | | | | | AUG | | | | |
| 08... | 1630 | 2.2 | .5 | 270 | 08... | 1350 | 3.2 | 7.0 | 205 |
| 10011400 WEST FORK BEAR RIVER BELOW DEER CREEK, NEAR EVANSTON, WY (Lat 40°56'26", Long 110°51'30") | | | | | | | | | |
| OCT , 1985 | | | | | JUN , 1986 | | | | |
| 07... | 1440 | 40 | 2.0 | 140 | 03... | 1035 | 435 | 5.5 | 250 |
| JAN , 1986 | | | | | JUL | | | | |
| 08... | 1525 | 16 | .0 | 380 | 08... | 1200 | 91 | 10.5 | 320 |
| APR | | | | | AUG | | | | |
| 10... | 1210 | 30 | .0 | 255 | 05... | 1450 | 30 | 16.5 | 345 |
| MAY | | | | | | | | | |
| 06... | 1525 | 144 | .0 | 300 | | | | | |

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) |
|--|------|---|-----------------------------|---|------------|------|---|-----------------------------|---|
| BEAR RIVER BASIN--Continued | | | | | | | | | |
| 10011500 BEAR RIVER NEAR UIAH-WYOMING STATE LINE (Lat 40°57'55", Long 110°51'10") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 08... | 1310 | 83 | 3.0 | 215 | 06... | 1710 | 425 | 3.0 | 220 |
| NOV | | | | | JUN | | | | |
| 14... | 1310 | 82 | .0 | 280 | 03... | 1340 | 2380 | 11.0 | 150 |
| JAN , 1986 | | | | | JUL | | | | |
| 08... | 1400 | 59 | .0 | 245 | 08... | 1400 | 520 | 13.0 | 180 |
| FEB | | | | | AUG | | | | |
| 25... | 1535 | 62 | 2.0 | 350 | 05... | 1630 | 159 | 17.0 | 215 |
| APR | | | | | | | | | |
| 16... | 0950 | 138 | 2.5 | 220 | | | | | |
| 10015700 SULPHUR CREEK ABOVE RESERVOIR, NEAR EVANSTON, WY (Lat 41°08'38", Long 110°48'19") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 08... | 1015 | 5.4 | 3.0 | 760 | 16... | 1235 | 50 | 4.0 | 420 |
| NOV | | | | | MAY | | | | |
| 14... | 1045 | 12 | .0 | 730 | 09... | 1530 | 112 | 7.5 | 370 |
| DEC | | | | | JUN | | | | |
| 11... | -- | 4.1 | .0 | 650 | 04... | 0905 | 138 | 7.0 | 350 |
| JAN , 1986 | | | | | JUL | | | | |
| 20... | 1150 | 2.6 | .0 | 460 | 07... | 1405 | 26 | 18.0 | 520 |
| FEB | | | | | AUG | | | | |
| 25... | -- | 94 | 1.0 | 410 | 08... | 1200 | 7.8 | 15.0 | 680 |
| MAR | | | | | | | | | |
| 11... | 1140 | 40 | 2.0 | 460 | | | | | |
| 10015900 SULPHUR CREEK BELOW RESERVOIR, NEAR EVANSTON, WY (Lat 41°09'21", Long 110°50'05") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 08... | 0845 | 7.5 | 7.5 | 520 | 09... | 1405 | 110 | 9.5 | 460 |
| NOV | | | | | JUN | | | | |
| 14... | 0910 | 8.1 | 2.5 | 600 | 03... | 1515 | 191 | 10.0 | 345 |
| DEC | | | | | JUL | | | | |
| 11... | 1550 | 7.1 | 1.0 | 390 | 07... | 1250 | 19 | 14.0 | 480 |
| FEB , 1986 | | | | | AUG | | | | |
| 25... | 1130 | 73 | 3.0 | 390 | 05... | 1135 | 6.7 | 18.5 | 450 |
| MAR | | | | | | | | | |
| 11... | 0940 | 197 | 2.0 | 540 | | | | | |
| 10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT (Lat 41°26'04" Long 111°01'01") | | | | | | | | | |
| OCT , 1985 | | | | | JUN , 1986 | | | | |
| 08... | 1510 | 181 | 2.0 | 530 | 04... | 1340 | 3780 | 8.5 | 350 |
| MAR , 1986 | | | | | JUL | | | | |
| 12... | 1255 | 635 | 4.0 | -- | 09... | 1230 | 460 | 14.5 | 400 |
| APR | | | | | AUG | | | | |
| 17... | 1120 | 627 | 6.0 | 365 | 07... | 1940 | 81 | 18.0 | 415 |
| MAY | | | | | | | | | |
| 05... | 1630 | 1530 | 5.0 | 340 | | | | | |
| 10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT (Lat 41°30'20", Long 111°00'50") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 02... | 1510 | 32 | 12.0 | 460 | 16... | 1615 | 562 | 7.5 | 530 |
| NOV | | | | | MAY | | | | |
| 14... | 1545 | 37 | 3.0 | 480 | 07... | 1355 | 1360 | 6.5 | 550 |
| DEC | | | | | JUN | | | | |
| 18... | 1205 | 40 | 3.0 | 420 | 11... | 1240 | 2240 | 7.5 | 520 |
| JAN , 1986 | | | | | JUL | | | | |
| 18... | 1425 | 43 | 2.5 | 475 | 09... | 1025 | 658 | 11.0 | 440 |
| FEB | | | | | AUG | | | | |
| 12... | 1640 | 44 | 2.0 | 410 | 06... | 1155 | 173 | 16.0 | 435 |
| MAR | | | | | | | | | |
| 11... | 1710 | 737 | 3.0 | 640 | | | | | |

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) |
|---|------|---|-----------------------------|---|------------|------|---|-----------------------------|---|
| BEAR RIVER BASIN--Continued | | | | | | | | | |
| 10020900 WOODRUFF CREEK BELOW RESERVOIR, NEAR WOODRUFF, UT (Lat 41°28'06", Long 111°18'50") | | | | | | | | | |
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 09... | 1110 | 21 | 8.0 | 330 | 12... | 1655 | 36 | 2.0 | 520 |
| NOV | | | | | APR | | | | |
| 15... | 1005 | 16 | 1.5 | 450 | 17... | 1430 | 74 | 4.5 | 380 |
| DEC | | | | | MAY | | | | |
| 12... | -- | .00 | -- | -- | 09... | 1210 | 120 | 6.0 | 175 |
| JAN , 1986 | | | | | JUL | | | | |
| 20... | -- | .00 | -- | -- | 09... | 1355 | 84 | 7.5 | 320 |
| FEB | | | | | AUG | | | | |
| 12... | -- | .00 | -- | -- | 04... | 1215 | 35 | 14.0 | 180 |
| 10026500 BEAR RIVER NEAR RANDOLPH, UT (Lat 41°48'02", Long 111°04'20") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 09... | 1325 | 89 | 5.0 | 520 | 18... | 1415 | 734 | 6.0 | 520 |
| NOV | | | | | MAY | | | | |
| 12... | 1455 | 121 | 1.5 | 660 | 08... | 1640 | 1830 | 3.0 | 485 |
| DEC | | | | | JUN | | | | |
| 19... | -- | 52 | .0 | 350 | 10... | 2110 | 2690 | 12.0 | 395 |
| FEB , 1986 | | | | | JUL | | | | |
| 12... | 1140 | 78 | .0 | 320 | 16... | 1820 | 447 | 18.5 | 710 |
| MAR | | | | | AUG | | | | |
| 13... | -- | 845 | 9.0 | 380 | 07... | 1200 | 237 | 14.5 | 475 |
| 10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY (Lat 41°56'20", Long 110°59'05") | | | | | | | | | |
| OCT , 1985 | | | | | JUL , 1986 | | | | |
| 09... | 1520 | 137 | 5.0 | -- | 16... | 1530 | 481 | 8.0 | 580 |
| MAY , 1986 | | | | | AUG | | | | |
| 08... | -- | 1350 | -- | -- | 07... | 1530 | 221 | 17.0 | 530 |
| JUN | | | | | | | | | |
| 09... | -- | 1310 | -- | -- | | | | | |
| 10032000 SMITHS FORK NEAR BORDER, WY (Lat 42°17'16", Long 110°52'14") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 11... | 1055 | 91 | 4.0 | 360 | 08... | 1120 | 545 | 4.0 | 310 |
| DEC | | | | | JUN | | | | |
| 19... | 1240 | 81 | .0 | 420 | 10... | 1730 | 1560 | 6.0 | 235 |
| JAN , 1986 | | | | | JUL | | | | |
| 19... | 1050 | 56 | .0 | 235 | 16... | 1230 | 486 | 8.0 | 430 |
| FEB | | | | | AUG | | | | |
| 11... | 1520 | 53 | .0 | 260 | 07... | 1400 | 241 | 10.0 | 345 |
| 10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY (Lat 42°07'36", Long 110°58'21") | | | | | | | | | |
| OCT , 1985 | | | | | JUL , 1986 | | | | |
| 11... | 1240 | 217 | 2.0 | 320 | 16... | 1200 | 1230 | 15.0 | 560 |
| JAN , 1986 | | | | | AUG | | | | |
| 19... | 1255 | 194 | .0 | -- | 07... | 1205 | 672 | 14.0 | 480 |
| FEB | | | | | | | | | |
| 11... | -- | 181 | -- | -- | | | | | |
| 10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE (Lat 42°24'10", Long 111°01'30") | | | | | | | | | |
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 11... | 0905 | 24 | 2.0 | 670 | 14... | 0940 | 38 | 2.0 | 570 |
| NOV | | | | | MAY | | | | |
| 13... | 1225 | 20 | .0 | 1040 | 07... | 1810 | 618 | 5.5 | 250 |
| DEC | | | | | JUL | | | | |
| 12... | 1110 | 7.7 | .0 | 820 | 15... | 1500 | 80 | 14.0 | 890 |
| JAN , 1986 | | | | | AUG | | | | |
| 19... | 1435 | 16 | .0 | 260 | 07... | 1100 | 49 | 17.0 | 340 |
| FEB | | | | | | | | | |
| 11... | 0915 | 12 | .0 | 450 | | | | | |

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) |
|---|------|---|-----------------------------|---|------------|------|---|-----------------------------|---|
| BEAR RIVER BASIN--Continued | | | | | | | | | |
| 10058600 BLOOMINGTON CREEK AT BLOOMINGTON, ID (Lat 42°11'05", Long 111°25'30") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 11... | 1030 | 23 | 4.0 | 355 | 17... | 1700 | 49 | 7.5 | 315 |
| NOV | | | | | MAY | | | | |
| 13... | 1045 | 21 | 2.5 | 395 | 08... | 1820 | 70 | 3.0 | 280 |
| DEC | | | | | JUN | | | | |
| 12... | 0950 | 19 | .5 | 345 | 04... | 1950 | 229 | 5.0 | 285 |
| JAN , 1986 | | | | | JUL | | | | |
| 19... | 1730 | 18 | 1.0 | 270 | 09... | 1700 | 80 | 9.5 | 315 |
| FEB | | | | | AUG | | | | |
| 10... | 1510 | 18 | 3.0 | 345 | 07... | 1710 | 49 | 16.0 | 220 |
| MAR | | | | | | | | | |
| 13... | 1040 | 31 | 2.0 | 325 | | | | | |
| 10068500 BEAR RIVER AT PESCADERO, ID (Lat 42°24'06", Long 111°21'22") | | | | | | | | | |
| OCT , 1985 | | | | | JUN , 1986 | | | | |
| 11... | 1355 | 619 | 7.5 | 620 | 05... | 0930 | 2530 | 12.0 | 570 |
| NOV | | | | | 12... | 1445 | 3430 | 20.0 | 520 |
| 13... | 1015 | 640 | 2.0 | 730 | JUL | | | | |
| MAR , 1986 | | | | | 10... | 1005 | 2500 | 21.0 | 570 |
| 13... | 0930 | 1760 | 2.0 | 930 | AUG | | | | |
| APR | | | | | 07... | 0915 | 1810 | 18.0 | 620 |
| 17... | 1915 | 1650 | 4.0 | 720 | | | | | |
| MAY | | | | | | | | | |
| 09... | 0920 | 1990 | 4.0 | 850 | | | | | |
| 10072800 EIGHTMILE CREEK NEAR SODA SPRINGS, ID (Lat 42°32'15", Long 111°34'20") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 08... | 1035 | 6.0 | 3.0 | 300 | 21... | 1415 | 67 | 12.5 | 250 |
| NOV | | | | | MAY | | | | |
| 13... | 1500 | 5.7 | 3.0 | 300 | 27... | 1630 | 176 | 12.5 | 240 |
| JAN , 1986 | | | | | JUL | | | | |
| 08... | 1400 | 4.5 | 1.5 | -- | 02... | 1700 | 54 | 15.0 | 220 |
| 28... | 1030 | 4.2 | 2.0 | 290 | 21... | 1755 | 28 | 14.5 | 270 |
| FEB | | | | | SEP | | | | |
| 24... | 1620 | 19 | 1.0 | 170 | 08... | 1515 | 11 | 13.0 | 315 |
| MAR | | | | | | | | | |
| 27... | 1430 | 28 | 8.5 | 240 | | | | | |
| 10076400 SODA CREEK AT FIVEMILE MEADOWS, NEAR SODA SPRINGS, ID (Lat 42°43'45", Long 111°36'55") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 08... | 0840 | 23 | 2.5 | 850 | 21... | 1200 | 34 | 15.5 | 860 |
| NOV | | | | | MAY | | | | |
| 13... | 1115 | 19 | 4.0 | 920 | 27... | 1335 | 39 | 17.5 | 880 |
| JAN , 1986 | | | | | JUL | | | | |
| 08... | 1130 | 14 | 1.0 | -- | 02... | 1900 | 31 | 17.0 | 870 |
| 27... | 1700 | 12 | 6.5 | 870 | 21... | 1540 | 31 | 19.5 | 870 |
| FEB | | | | | SEP | | | | |
| 24... | 1230 | 24 | 10.0 | 950 | 08... | 1300 | 31 | 14.5 | 870 |
| MAR | | | | | | | | | |
| 27... | 1100 | 34 | 10.0 | 830 | | | | | |
| 10084500 COTTONWOOD CREEK NEAR CLEVELAND, ID (Lat 42°19'5"/", Long 111°46'27") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 08... | 1600 | 16 | 7.0 | 335 | 21... | 1710 | 200 | 14.0 | 215 |
| NOV | | | | | MAY | | | | |
| 21... | 1540 | 10 | 4.5 | 335 | 27... | 1935 | 189 | 16.5 | 210 |
| DEC | | | | | JUL | | | | |
| 23... | 1340 | 17 | 1.0 | 355 | 02... | 1330 | 33 | 18.5 | 280 |
| JAN , 1986 | | | | | 21... | 1155 | 25 | 16.5 | 285 |
| 27... | 1400 | 14 | 3.0 | 340 | SEP | | | | |
| FEB | | | | | 08... | 1755 | 12 | 14.0 | 255 |
| 25... | 1100 | 130 | 3.5 | -- | | | | | |
| MAR | | | | | | | | | |
| 26... | 1715 | 161 | 9.0 | 220 | | | | | |

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) |
|--|------|---|-----------------------------|---|------------|------|---|-----------------------------|---|
| BEAR RIVER BASIN--Continued 10090500 BEAR RIVER NEAR PRESTON, ID (Lat 42°10'05", Long 111°50'59") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 07... | 1450 | 1010 | 10.5 | 770 | 22... | 1030 | 3020 | 11.5 | 560 |
| NOV | | | | | MAY | | | | |
| 19... | 1455 | 1520 | 3.0 | 730 | 28... | 1005 | 3960 | 16.5 | 510 |
| DEC | | | | | JUL | | | | |
| 20... | 1200 | 1530 | .0 | 780 | 03... | 1100 | 3660 | 22.5 | 530 |
| JAN , 1986 | | | | | 22... | 1100 | 1810 | 20.0 | 640 |
| 28... | 1515 | 1280 | 2.0 | 760 | SEP | | | | |
| FEB | | | | | 09... | 1420 | 2670 | 18.0 | 690 |
| 25... | 1430 | 2850 | 6.5 | 580 | | | | | |
| MAR | | | | | | | | | |
| 28... | 1530 | 2880 | 11.5 | 650 | | | | | |
| 10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE (Lat 42°00'47", Long 111°55'14") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 09... | 0910 | 1140 | 7.0 | 860 | 29... | 1100 | 4030 | 16.5 | 540 |
| NOV | | | | | JUL | | | | |
| 12... | 1200 | 342 | 4.0 | 910 | 01... | 2020 | 3900 | 25.5 | 580 |
| FEB , 1986 | | | | | 22... | 2000 | 1220 | 21.5 | 640 |
| 19... | 1515 | 4760 | 3.0 | 540 | SEP | | | | |
| MAR | | | | | 09... | 1845 | 2630 | 17.5 | 710 |
| 28... | 1250 | 3120 | 10.0 | 690 | | | | | |
| APR | | | | | | | | | |
| 22... | 1630 | 3270 | 13.0 | 610 | | | | | |
| 10093000 CUB RIVER NEAR PRESTON, ID (Lat 42°08'28", Long 111°41'19") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 09... | 1240 | 36 | 6.0 | 300 | 22... | 1230 | 120 | 10.0 | 305 |
| NOV | | | | | MAY | | | | |
| 12... | 1500 | 26 | 4.5 | 295 | 28... | 1300 | 598 | 18.5 | 200 |
| DEC | | | | | JUL | | | | |
| 19... | 1500 | 21 | 2.0 | 285 | 02... | 1045 | 284 | 8.0 | 265 |
| JAN , 1986 | | | | | 22... | 1415 | 119 | 9.5 | 275 |
| 28... | 1715 | 18 | 5.0 | 275 | SEP | | | | |
| FEB | | | | | 09... | 0945 | 47 | 8.5 | 290 |
| 25... | 1730 | 71 | 6.0 | 200 | | | | | |
| MAR | | | | | | | | | |
| 26... | 1415 | 66 | 10.0 | 295 | | | | | |
| 10099000 HIGH CREEK NEAR RICHMOND, UT (Lat 41°58'40", Long 111°44'40") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 09... | 1420 | 10 | 4.0 | 305 | 23... | 0745 | 96 | 7.0 | 265 |
| NOV | | | | | MAY | | | | |
| 21... | 1300 | 11 | 1.5 | 280 | 29... | 1500 | 229 | 8.5 | 300 |
| DEC | | | | | JUL | | | | |
| 18... | 1000 | 9.8 | 1.5 | 280 | 01... | 2100 | 94 | 8.0 | 280 |
| JAN , 1986 | | | | | 23... | 1200 | 42 | 9.0 | 285 |
| 23... | 1410 | 12 | 3.5 | 250 | SEP | | | | |
| FEB | | | | | 10... | 1100 | 14 | 9.0 | 300 |
| 26... | -- | 52 | 5.5 | -- | | | | | |
| MAR | | | | | | | | | |
| 26... | 0845 | 41 | 6.0 | 260 | | | | | |
| 10104700 LITTLE BEAR RIVER BELOW DAVENPORT CREEK, NEAR AVON, UT (Lat 41°30'45", Long 111°48'40") | | | | | | | | | |
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 10... | 0830 | 38 | 6.0 | 435 | 24... | 1445 | 124 | 10.0 | 300 |
| 30... | 0910 | 37 | 6.5 | 415 | APR | | | | |
| NOV | | | | | 23... | 1140 | 235 | 8.0 | 280 |
| 18... | 1435 | 38 | 3.5 | 400 | MAY | | | | |
| DEC | | | | | 30... | 1900 | 368 | 12.5 | 240 |
| 16... | 1430 | 41 | 2.5 | 405 | JUN | | | | |
| JAN , 1986 | | | | | 25... | 1630 | 138 | 16.5 | 330 |
| 30... | 1115 | 43 | 5.0 | 375 | JUL | | | | |
| FEB | | | | | 25... | 1100 | 74 | 12.5 | 400 |
| 18... | 1230 | 875 | 2.0 | 125 | SEP | | | | |
| 27... | 1300 | 168 | 7.0 | 240 | 10... | 1945 | 48 | 13.0 | 405 |

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) |
|--|------|---|-----------------------------|---|------------|------|---|-----------------------------|---|
| BEAR RIVER BASIN--Continued | | | | | | | | | |
| 10104900 EAST FORK LITTLE BEAR RIVER ABOVE RESERVOIR, NEAR AVON, UT (Lat 41°31'06", Long 111°42'49") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 10... | 1005 | 10 | 6.0 | 385 | 25... | 1300 | 226 | 8.0 | 265 |
| 30... | 1130 | 9.3 | 7.5 | 385 | MAY | | | | |
| DEC | | | | | 30... | 1540 | 141 | 13.5 | 340 |
| 12... | 1215 | 10 | 1.0 | 390 | JUN | | | | |
| JAN , 1986 | | | | | 25... | 1350 | 37 | 15.0 | 385 |
| 23... | 1045 | 13 | 3.0 | 330 | JUL | | | | |
| FEB | | | | | 24... | 1715 | 21 | 15.0 | 395 |
| 27... | 1100 | 143 | 5.0 | 240 | | | | | |
| MAR | | | | | | | | | |
| 24... | 1730 | 128 | 7.5 | 285 | | | | | |
| 10106000 LITTLE BEAR RIVER NEAR PARADISE, UT (Lat 41°35'26", Long 111°51'16") | | | | | | | | | |
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 01... | 0925 | 86 | 8.0 | 490 | 25... | 0845 | 328 | 6.0 | 390 |
| 29... | 1700 | 72 | 10.0 | 470 | APR | | | | |
| NOV | | | | | 25... | 1230 | 808 | 7.0 | 270 |
| 18... | 1215 | 79 | 2.5 | 445 | JUN | | | | |
| DEC | | | | | 26... | 1500 | 150 | 18.5 | 405 |
| 16... | 1120 | 75 | .0 | 480 | JUL | | | | |
| JAN , 1986 | | | | | 24... | 1500 | 77 | 19.0 | 510 |
| 30... | 1000 | 77 | 4.5 | 375 | SEP | | | | |
| FEB | | | | | 03... | 1700 | 70 | 18.5 | 640 |
| 27... | 1500 | 253 | 8.5 | 240 | | | | | |
| 10108400 LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UT (Lat 41°44'35", Long 111°45'40") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 01... | 1245 | 6.6 | 6.5 | 360 | 29... | 1745 | 54 | 10.5 | 290 |
| 29... | 0900 | 5.6 | 5.5 | 370 | JUN | | | | |
| DEC | | | | | 26... | 1800 | 61 | 11.5 | 295 |
| 17... | 1520 | .16 | .0 | -- | JUL | | | | |
| FEB , 1986 | | | | | 23... | 1515 | 55 | 11.0 | 340 |
| 26... | -- | .00 | -- | -- | SEP | | | | |
| MAR | | | | | 03... | 0955 | 54 | 9.5 | 360 |
| 25... | 1655 | .88 | 7.5 | 360 | | | | | |
| APR | | | | | | | | | |
| 24... | -- | .00 | -- | -- | | | | | |
| 10109000 LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UT (Lat 41°44'40", Long 111°47'00") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 01... | 1420 | 166 | 7.0 | 370 | 24... | 1345 | 931 | 7.5 | 310 |
| 29... | 1145 | 163 | 6.0 | 375 | MAY | | | | |
| NOV | | | | | 29... | 2040 | 1290 | 10.5 | 295 |
| 19... | 1020 | 151 | 3.0 | 375 | JUN | | | | |
| DEC | | | | | 03... | 1230 | 1790 | 18.5 | 215 |
| 17... | 1730 | 132 | 3.0 | 385 | 07... | 1235 | 1710 | 7.0 | 300 |
| JAN , 1986 | | | | | 27... | 0930 | 1000 | 11.5 | 280 |
| 29... | 0930 | 122 | 5.0 | 385 | JUL | | | | |
| FEB | | | | | 23... | 1730 | 515 | 12.0 | 345 |
| 26... | 1750 | 311 | 8.0 | 370 | SEP | | | | |
| MAR | | | | | 11... | 0915 | 267 | 9.5 | 445 |
| 25... | 1900 | 340 | 8.0 | 365 | | | | | |
| 10111700 BLACKSMITHS FORK BELOW MILL CREEK NEAR HYRUM, UT (Lat 41°35'40", Long 111°30'00") | | | | | | | | | |
| DEC , 1985 | | | | | JUN , 1986 | | | | |
| 17... | 1045 | 67 | 4.5 | 405 | 26... | 1215 | 123 | 11.5 | 405 |
| MAR , 1986 | | | | | JUL | | | | |
| 25... | 1115 | 97 | 8.5 | 350 | 24... | 1030 | 134 | 10.0 | 405 |
| APR | | | | | SEP | | | | |
| 24... | 1610 | 112 | 11.5 | 335 | 10... | 1400 | 110 | 11.0 | 395 |
| MAY | | | | | | | | | |
| 30... | 0945 | 118 | 9.5 | 395 | | | | | |

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) |
|---|------|---|-----------------------------|---|------------|------|---|-----------------------------|---|
| BEAR RIVER BASIN--Continued | | | | | | | | | |
| 10113500 BLACKSMITH FORK ABOVE UTAH POWER & LIGHT CO.'S DAM, NEAR HYRUM, UT (Lat 41°37'18", Long 111°44'22") | | | | | | | | | |
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 01... | 1145 | 128 | 7.0 | 410 | 25... | 1345 | 315 | 8.0 | 360 |
| 10... | 1210 | 138 | 7.0 | 415 | APR | | | | |
| 29... | 1430 | 120 | 7.5 | 405 | 24... | 1840 | 674 | 9.0 | 290 |
| NOV | | | | | MAY | | | | |
| 18... | 1700 | 120 | 3.5 | 405 | 30... | 1140 | 568 | 10.0 | 350 |
| DEC | | | | | JUN | | | | |
| 17... | 1300 | 109 | 2.0 | 420 | 26... | 1440 | 296 | 14.0 | 405 |
| JAN , 1986 | | | | | JUL | | | | |
| 29... | 1335 | 104 | 6.0 | 400 | 24... | 1245 | 235 | 12.0 | 410 |
| FEB | | | | | SEP | | | | |
| 20... | 1005 | 546 | .0 | -- | 03... | 1120 | 190 | 10.5 | 410 |
| 26... | 1535 | 392 | 7.0 | 330 | | | | | |
| 10126180 SULPHUR CREEK NEAR CORINNE, UT (Lat 41°34'25", Long 112°13'07") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 09... | 1450 | 44 | 8.5 | 2740 | 05... | 1250 | 16 | 14.5 | 5880 |
| NOV | | | | | JUN | | | | |
| 19... | 1415 | 42 | 4.0 | 3270 | 11... | 1230 | 20 | 22.5 | 1830 |
| JAN , 1986 | | | | | JUL | | | | |
| 27... | 1140 | 39 | .0 | 3290 | 02... | 1350 | 29 | 27.0 | 1350 |
| FEB | | | | | SEP | | | | |
| 20... | 1700 | 231 | 3.5 | 1260 | 04... | 1345 | 29 | 22.0 | 1090 |
| MAR | | | | | | | | | |
| 25... | 1230 | 15 | 12.0 | 4430 | | | | | |
| 10127050 SALT CREEK BELOW SALT SPRING, NEAR TREMONTON, UT (Lat 41°42'41", Long 112°13'36") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 10... | 0930 | 94 | 9.5 | 1490 | 06... | 1205 | 30 | 19.0 | 3600 |
| NOV | | | | | JUN | | | | |
| 22... | 1255 | 30 | 17.0 | 3400 | 10... | 1425 | 33 | 19.5 | 4160 |
| JAN , 1986 | | | | | JUL | | | | |
| 15... | 1135 | 27 | 18.0 | 3480 | 03... | 0950 | 36 | 20.5 | 3020 |
| MAR | | | | | SEP | | | | |
| 24... | 1125 | 29 | 19.0 | 3560 | 05... | 1010 | 52 | 19.0 | 1880 |
| 10127100 BLACK SLOUGH NEAR BRIGHAM CITY, UT (Lat 41°30'36", Long 112°03'34") | | | | | | | | | |
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 09... | 1115 | 69 | 7.0 | 1220 | 24... | 1510 | 137 | 13.0 | 1300 |
| NOV | | | | | MAY | | | | |
| 19... | 1205 | 80 | 3.0 | 1020 | 05... | 1045 | 184 | 9.5 | 1210 |
| DEC | | | | | JUN | | | | |
| 11... | 1320 | 86 | .5 | 1220 | 11... | 0930 | 41 | 17.5 | 1260 |
| JAN , 1986 | | | | | JUL | | | | |
| 24... | 1425 | 65 | 4.0 | 1000 | 02... | 1110 | 26 | 21.5 | 1390 |
| FEB | | | | | SEP | | | | |
| 20... | 1110 | 320 | 4.0 | 900 | 04... | 1040 | 24 | 18.0 | 1270 |
| WEBER RIVER BASIN | | | | | | | | | |
| 10128000 SMITH AND MOREHOUSE CREEK NEAR OAKLEY, UT (Lat 40°47'09", Long 111°06'42") | | | | | | | | | |
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 03... | 1235 | 21 | 8.5 | 230 | 27... | 0915 | 36 | 2.0 | 175 |
| 29... | 1300 | 36 | 5.0 | 175 | APR | | | | |
| NOV | | | | | 23... | 1530 | 124 | 7.5 | 120 |
| 21... | 1005 | 28 | .0 | -- | MAY | | | | |
| DEC | | | | | 29... | 1025 | 584 | 5.0 | 70 |
| 18... | 1315 | 25 | -- | 220 | JUN | | | | |
| JAN , 1986 | | | | | 25... | 1215 | 251 | 7.5 | 75 |
| 30... | 1300 | 21 | 3.0 | 235 | JUL | | | | |
| FEB | | | | | 29... | 1135 | 50 | 10.5 | 170 |
| 27... | 0930 | 28 | 1.0 | 220 | | | | | |

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) |
|---|------|---|-----------------------------|---|------------|------|---|-----------------------------|---|
| WEBER RIVER BASIN--Continued | | | | | | | | | |
| 10128500 WEBER RIVER NEAR OAKLEY, UT (Lat 40°44'14", Long 111°14'50") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 03... | 1455 | 83 | 10.5 | 295 | 29... | 1405 | 1880 | 9.5 | -- |
| 29... | 1540 | 122 | 9.5 | 225 | JUN | | | | |
| JAN , 1986 | | | | | 25... | 0945 | 1180 | 8.0 | 130 |
| 30... | 1520 | 80 | .5 | 295 | JUL | | | | |
| FEB | | | | | 29... | 1000 | 235 | 9.5 | 240 |
| 27... | 1145 | 98 | 2.0 | 300 | AUG | | | | |
| MAR , 1986 | | | | | 27... | 1200 | 139 | 13.5 | 280 |
| 27... | 1215 | 171 | 7.0 | 275 | | | | | |
| APR | | | | | | | | | |
| 23... | 1845 | 698 | 6.5 | 230 | | | | | |
| 10130500 WEBER RIVER NEAR COALVILLE, UT (Lat 40°53'45", Long 111°24'04") | | | | | | | | | |
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 04... | 1155 | 270 | 11.5 | 380 | 27... | 1600 | 485 | 10.0 | 365 |
| 31... | 1130 | 265 | 10.0 | 380 | APR | | | | |
| NOV | | | | | 24... | 0935 | 715 | 10.5 | 340 |
| 22... | 1200 | 224 | -- | -- | MAY | | | | |
| DEC | | | | | 30... | 1305 | 917 | 11.5 | 280 |
| 19... | -- | 245 | -- | 385 | JUN | | | | |
| JAN , 1986 | | | | | 26... | 1320 | 1200 | 18.5 | 251 |
| 31... | -- | 246 | 3.0 | -- | JUL | | | | |
| FEB | | | | | 30... | 1115 | 258 | 14.0 | 265 |
| 27... | 1440 | 291 | 5.5 | 440 | | | | | |
| 10131000 CHALK CREEK AT COALVILLE, UT (Lat 40°55'14", Long 111°24'03") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 04... | 0900 | 33 | 8.5 | 710 | 24... | 1230 | 628 | 8.5 | 500 |
| 31... | 0900 | 42 | 7.0 | 640 | MAY | | | | |
| DEC | | | | | 30... | 1005 | 1120 | 8.5 | 630 |
| 19... | 1200 | 36 | -- | 640 | JUN | | | | |
| JAN , 1986 | | | | | 26... | 1000 | 259 | 7.5 | 590 |
| 31... | 1135 | 57 | 1.5 | -- | JUL | | | | |
| FEB | | | | | 30... | 0855 | 74 | 13.0 | 620 |
| 27... | 1630 | 162 | 3.0 | -- | | | | | |
| MAR | | | | | | | | | |
| 27... | 1720 | 162 | 11.0 | 670 | | | | | |
| 10134500 EAST CANYON CREEK NEAR MORGAN, UT (Lat 40°55'21", Long 111°36'23") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 07... | 1135 | 8.5 | 9.5 | 490 | 24... | 1430 | 90 | 8.0 | 520 |
| NOV | | | | | MAY | | | | |
| 01... | 1240 | 7.7 | 9.5 | 550 | 30... | 1530 | 218 | 10.5 | 470 |
| JAN , 1986 | | | | | JUN | | | | |
| 31... | -- | 56 | 5.0 | -- | 26... | 1600 | 130 | 18.5 | 460 |
| MAR | | | | | JUL | | | | |
| 28... | 1100 | 335 | 8.5 | 430 | 30... | 1350 | 90 | 11.5 | 475 |
| 10136500 WEBER RIVER AT GATEWAY, UT (Lat 41°08'13", Long 111°49'54") | | | | | | | | | |
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 07... | 1730 | 551 | 10.0 | 460 | 26... | 1620 | 2550 | 8.0 | 440 |
| NOV | | | | | APR | | | | |
| 15... | 1115 | 198 | 4.5 | -- | 25... | 1300 | 3540 | 6.5 | 385 |
| DEC | | | | | JUN | | | | |
| 10... | 0925 | 143 | .0 | 650 | 04... | 1315 | 3050 | 14.0 | 355 |
| JAN , 1986 | | | | | JUL | | | | |
| 17... | 1145 | 571 | 3.0 | 550 | 01... | 1400 | 1390 | 17.0 | 375 |
| FEB | | | | | AUG | | | | |
| 18... | -- | 4080 | -- | 520 | 29... | 1420 | 631 | 18.0 | 465 |

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) |
|--|------|---|-----------------------------|---|------------|------|---|-----------------------------|---|
| WEBER RIVER BASIN--Continued | | | | | | | | | |
| 10137500 SOUTH FORK OGDEN RIVER NEAR HUNTSVILLE, UT (Lat 41°16'07", Long 111°40'24") | | | | | | | | | |
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 07... | 1030 | 49 | 9.0 | 365 | 26... | 1015 | 302 | 4.0 | 225 |
| NOV | | | | | MAY | | | | |
| 21... | 1030 | 57 | 2.0 | 385 | 07... | 1235 | 922 | 5.5 | 225 |
| DEC | | | | | JUN | | | | |
| 10... | 1310 | 94 | 2.5 | 375 | 05... | 1230 | 741 | 10.0 | 230 |
| JAN , 1986 | | | | | JUL | | | | |
| 16... | 1055 | 58 | 3.5 | 375 | 01... | 1030 | 157 | 9.0 | 365 |
| FEB | | | | | SEP | | | | |
| 19... | 1055 | 898 | 1.5 | 130 | 02... | 1110 | 99 | 14.0 | 360 |
| 10139300 WHEELER CREEK NEAR HUNTSVILLE, UT (Lat 41°15'14", Long 111°50'32") | | | | | | | | | |
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 07... | 1330 | 24 | 7.0 | 345 | 26... | 1220 | 30 | 5.5 | 285 |
| NOV | | | | | MAY | | | | |
| 21... | 1325 | 3.4 | 3.0 | 420 | 07... | 2000 | 66 | 6.5 | 275 |
| JAN , 1986 | | | | | JUL | | | | |
| 16... | 1225 | 1.7 | 6.0 | 450 | 01... | 1700 | 9.9 | 14.5 | 265 |
| FEB | | | | | SEP | | | | |
| 21... | 1520 | 46 | 3.0 | 255 | 02... | 1250 | .25 | 15.5 | 370 |
| JORDAN RIVER BASIN | | | | | | | | | |
| 10146400 CURRANT CREEK NEAR MONA, UT (Lat 39°48'09", Long 111°51'44") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 07... | 1200 | 55 | 11.0 | 2350 | 02... | 1450 | 498 | 5.5 | 1610 |
| NOV | | | | | 28... | 1410 | 96 | 16.0 | 1340 |
| 15... | 1320 | 53 | 4.0 | 2140 | MAY | | | | |
| DEC | | | | | 28... | 1540 | 42 | 22.0 | 1180 |
| 09... | 1250 | 61 | 2.5 | 2270 | JUN | | | | |
| JAN , 1986 | | | | | 26... | 1745 | 16 | 23.0 | 1260 |
| 07... | 1440 | 52 | 2.0 | 2290 | JUL | | | | |
| FEB | | | | | 29... | 1710 | 20 | 20.0 | 1280 |
| 04... | 1530 | 83 | 4.5 | 2630 | SEP | | | | |
| MAR | | | | | 10... | 1550 | 24 | 15.5 | 1500 |
| 04... | 1450 | 102 | 14.0 | 1390 | | | | | |
| 10148200 TIE FORK NEAR SOLDIER SUMMIT, UT (Lat 39°57'00", Long 111°12'58") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 01... | 1730 | 5.1 | 10.0 | 650 | 04... | 1440 | 20 | 7.5 | 710 |
| NOV | | | | | 30... | 1030 | 28 | 6.0 | 690 |
| 12... | 1640 | 4.6 | .5 | 890 | MAY | | | | |
| DEC | | | | | 30... | 1630 | 20 | 15.5 | 670 |
| 12... | 1150 | .79 | .0 | 860 | JUN | | | | |
| JAN , 1986 | | | | | 27... | 1600 | 13 | 18.5 | 690 |
| 10... | 1650 | 3.9 | 4.0 | 700 | AUG | | | | |
| FEB | | | | | 01... | 1450 | 8.3 | 19.0 | 640 |
| 07... | 1530 | 4.0 | .0 | 730 | SEP | | | | |
| MAR | | | | | 08... | 1840 | 5.0 | 14.0 | 630 |
| 05... | 1810 | 8.1 | 7.0 | 700 | | | | | |
| 10148510 SPANISH FORK BELOW HALLS FALLS NEAR SPANISH FORK, UT (Lat 40°00'34", Long 111°29'34") | | | | | | | | | |
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 01... | 1630 | 87 | 12.5 | 790 | 31... | 1650 | 471 | 11.0 | 560 |
| NOV | | | | | APR | | | | |
| 12... | 1510 | 108 | 3.5 | 770 | 30... | 1830 | 553 | 13.0 | 590 |
| DEC | | | | | MAY | | | | |
| 12... | 1600 | 61 | .0 | 760 | 30... | 1330 | 553 | 13.0 | 560 |
| JAN , 1986 | | | | | JUN | | | | |
| 06... | 1540 | 78 | 1.5 | -- | 23... | 1800 | 177 | 21.5 | 710 |
| FEB | | | | | JUL | | | | |
| 03... | 1600 | 108 | 6.0 | 790 | 28... | 1700 | 106 | 21.0 | 720 |
| MAR | | | | | SEP | | | | |
| 03... | 1630 | 196 | 10.5 | 780 | 08... | 1615 | 78 | 17.0 | 690 |

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) |
|---|------|---|-----------------------------|---|------------|------|---|-----------------------------|---|
| JORDAN RIVER BASIN--Continued | | | | | | | | | |
| 10150500 SPANISH FORK AT CASTILLA, UT (Lat 40°02'59", Long 111°32'50") | | | | | | | | | |
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 01... | 1240 | 151 | 8.5 | 850 | 31... | 1420 | 750 | 11.0 | 560 |
| NOV | | | | | MAY | | | | |
| 12... | 1110 | 157 | 4.5 | 850 | 01... | 1400 | 926 | 11.0 | 600 |
| DEC | | | | | 27... | 1320 | 926 | 13.0 | 530 |
| 12... | 1730 | 100 | 1.5 | -- | JUN | | | | |
| JAN , 1986 | | | | | 23... | 1300 | 604 | 16.0 | 520 |
| 06... | 1340 | 117 | 3.0 | 880 | JUL | | | | |
| FEB | | | | | 28... | 1450 | 377 | 18.0 | 560 |
| 03... | 1350 | 146 | 6.0 | 890 | SEP | | | | |
| MAR | | | | | 08... | 1340 | 277 | 17.0 | 590 |
| 03... | 1250 | 302 | 7.5 | 810 | | | | | |
| 10152000 SPANISH FORK NEAR LAKESHORE, UT (Lat 40°09'30", Long 111°43'50") | | | | | | | | | |
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 01... | 1120 | 68 | 9.0 | 850 | 24... | 1230 | 361 | 22.0 | -- |
| 28... | 1145 | 161 | 10.5 | 840 | APR | | | | |
| NOV | | | | | 21... | 1230 | 680 | 10.5 | 640 |
| 18... | 1210 | 172 | 4.0 | 870 | MAY | | | | |
| DEC | | | | | 27... | 1130 | 509 | 12.0 | 610 |
| 16... | 1130 | 138 | .0 | 630 | JUN | | | | |
| JAN , 1986 | | | | | 23... | 1155 | 31 | 20.0 | 770 |
| 28... | 1100 | 152 | 1.5 | 880 | JUL | | | | |
| FEB | | | | | 28... | 1045 | 66 | 17.0 | 720 |
| 24... | 1300 | 324 | 7.5 | 1990 | | | | | |
| 10153800 NORTH FORK PROVO RIVER NEAR KAMAS, UT (Lat 40°35'48", Long 111°05'48") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 03... | 1005 | 7.5 | 5.5 | <50 | 23... | 1300 | 99 | 6.5 | <50 |
| 29... | 0930 | 19 | 2.0 | <50 | MAY | | | | |
| NOV | | | | | 29... | 1710 | 371 | 7.5 | <50 |
| 20... | 1450 | 15 | .0 | <50 | JUN | | | | |
| FEB , 1986 | | | | | 25... | 1455 | 194 | 9.5 | <50 |
| 26... | 1600 | 17 | 5.0 | <50 | JUL | | | | |
| MAR | | | | | 29... | 1430 | 66 | 14.5 | <50 |
| 26... | 1630 | 34 | 3.5 | -- | | | | | |
| 10154200 PROVO RIVER NEAR WOODLAND, UT (Lat 40°33'28", Long 111°10'05") | | | | | | | | | |
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 02... | -- | 66 | 9.5 | 275 | 26... | 1410 | 214 | 6.0 | 140 |
| 30... | 1335 | 97 | 8.0 | 195 | APR | | | | |
| NOV | | | | | 23... | 1010 | 475 | 5.0 | 115 |
| 19... | 1030 | 83 | 2.0 | 195 | MAY | | | | |
| DEC | | | | | 28... | -- | 1850 | 18.5 | -- |
| 17... | 1600 | 94 | -- | 200 | JUN | | | | |
| JAN , 1986 | | | | | 24... | -- | 943 | 24.0 | -- |
| 29... | 1325 | 82 | 4.5 | 195 | JUL | | | | |
| FEB | | | | | 23... | -- | 401 | 14.5 | 115 |
| 26... | 1325 | 130 | 4.0 | 160 | | | | | |
| 10155000 PROVO RIVER NEAR HAILSTONE, UT (Lat 40°36'03", Long 111°21'35") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 30... | 1600 | 150 | 9.5 | 210 | 28... | 1445 | 1780 | 11.0 | 98 |
| NOV | | | | | JUN | | | | |
| 19... | 1310 | 130 | .0 | 255 | 24... | 1630 | 884 | 15.0 | 99 |
| FEB , 1986 | | | | | JUL | | | | |
| 26... | 1025 | 256 | 3.0 | 190 | 23... | 1440 | 396 | 16.0 | 130 |
| MAR | | | | | | | | | |
| 25... | 1415 | 300 | 4.5 | -- | | | | | |

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (US/CM) |
|---|------|---|-----------------------------|---|------------|------|---|-----------------------------|---|
| JORDAN RIVER BASIN--Continued | | | | | | | | | |
| 10159500 PROVO RIVER BELOW DEER CREEK DAM, UT (Lat 40°24'12", Long 111°31'44") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 02... | 1130 | 211 | 15.0 | 355 | 22... | 1010 | 1100 | 8.0 | 385 |
| 30... | 1030 | 126 | 11.5 | 455 | MAY | | | | |
| NOV | | | | | 28... | 1750 | 1300 | 13.5 | 305 |
| 20... | 1040 | 113 | 6.0 | 470 | JUN | | | | |
| DEC | | | | | 24... | 1030 | 1100 | 14.5 | 245 |
| 17... | -- | 133 | -- | 450 | JUL | | | | |
| FEB , 1986 | | | | | 23... | 1130 | 642 | 12.0 | 240 |
| 25... | 1100 | 1720 | 3.0 | 450 | | | | | |
| MAR | | | | | | | | | |
| 25... | 1000 | 1160 | 5.0 | 445 | | | | | |
| 10163000 PROVO RIVER AT PROVO, UT (Lat 40°14'16", Long 111°41'55") | | | | | | | | | |
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 01... | 1335 | 123 | 12.5 | 630 | 24... | 1600 | 1180 | 9.0 | 415 |
| 28... | 1345 | 191 | 10.5 | 430 | APR | | | | |
| NOV | | | | | 21... | 1610 | 1320 | 11.5 | 520 |
| 18... | 1405 | 176 | 5.0 | 465 | MAY | | | | |
| DEC | | | | | 27... | 1535 | 1270 | 14.5 | 320 |
| 16... | 1350 | 202 | 3.5 | -- | JUN | | | | |
| JAN , 1986 | | | | | 23... | 1520 | 564 | 17.5 | 260 |
| 28... | 1330 | 300 | 4.5 | 460 | JUL | | | | |
| FEB | | | | | 28... | 1245 | 213 | 14.5 | 290 |
| 24... | 1630 | 1660 | 5.5 | 405 | | | | | |
| 10164500 AMERICAN FORK ABOVE UPPER POWERPLANT, NEAR AMERICAN FORK, UT (Lat 40°26'52", Long 111°40'53") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 01... | 1030 | 28 | 4.0 | -- | 24... | 1905 | 66 | 8.5 | 440 |
| 01... | 1550 | 32 | 9.0 | 500 | 28... | 1130 | 75 | 6.0 | -- |
| 28... | 1630 | 33 | 9.0 | 490 | MAY | | | | |
| NOV | | | | | 27... | -- | 185 | 5.0 | -- |
| 04... | 1130 | 29 | 6.0 | -- | 27... | 1815 | 417 | 5.0 | 300 |
| 18... | 1650 | 28 | 3.0 | 520 | JUN | | | | |
| DEC | | | | | 23... | 1800 | 346 | 11.0 | 275 |
| 16... | 1725 | 26 | 3.0 | -- | JUL | | | | |
| JAN , 1986 | | | | | 28... | 1530 | 102 | 12.5 | 355 |
| 28... | 1600 | 24 | 5.0 | 530 | SEP | | | | |
| FEB | | | | | 12... | 1230 | 45 | 9.0 | -- |
| 11... | 0945 | 21 | 2.0 | -- | | | | | |
| 10167000 JORDAN RIVER AT NARROWS, NEAR LEHI, UT (Lat 40°26'38", Long 111°55'17") | | | | | | | | | |
| NOV , 1985 | | | | | MAY , 1986 | | | | |
| 01... | 0955 | 594 | 11.0 | 1200 | 01... | 1010 | 2260 | 13.0 | 1060 |
| DEC | | | | | 30... | 0905 | 1850 | 17.0 | 1040 |
| 02... | 1040 | 944 | 3.0 | 1250 | JUN | | | | |
| 31... | 1005 | 1070 | 2.0 | 1380 | 30... | 0915 | 1620 | 22.5 | 1380 |
| JAN , 1986 | | | | | JUL | | | | |
| 18... | -- | 127 | 4.5 | -- | 31... | 1015 | 1220 | 22.0 | 1050 |
| 20... | 1120 | 40 | 4.5 | 1700 | AUG | | | | |
| 31... | 1230 | 1150 | 5.0 | 1280 | 31... | 1635 | 794 | 21.0 | 1100 |
| FEB | | | | | SEP | | | | |
| 28... | 1530 | 1350 | 6.0 | 1180 | 29... | 1520 | 881 | 12.0 | 1080 |
| 10170500 SURPLUS CANAL AT SALT LAKE CITY, UT (Lat 40°43'37", Long 111°55'33") | | | | | | | | | |
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 17... | 1600 | 828 | 13.0 | 1430 | 04... | 1550 | 229 | 11.5 | 1700 |
| NOV | | | | | MAY | | | | |
| 22... | 1445 | 966 | 4.0 | 1900 | 02... | 1110 | 2880 | 14.0 | 1060 |
| DEC | | | | | 31... | 1310 | 3260 | 15.0 | 890 |
| 11... | 1515 | 1160 | 3.0 | 1450 | JUL | | | | |
| JAN , 1986 | | | | | 01... | 1320 | 2210 | 20.0 | 1060 |
| 02... | 1510 | 1200 | 4.0 | 1510 | AUG | | | | |
| FEB | | | | | 01... | 1120 | 1350 | 22.0 | 1200 |
| 06... | 1510 | 1400 | 6.0 | 1400 | | | | | |

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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--Continued

10172550 JORDAN RIVER AT 500 NORTH, AT SALT LAKE CITY, UT (Lat 40°46'49", Long 111°56'16")

| | | | | | | | | | |
|------------|------|-----|------|------|------------|------|-----|------|------|
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 16... | 1100 | 269 | 11.0 | 1320 | 01... | 1045 | 129 | 8.0 | 1080 |
| NOV | | | | | MAY | | | | |
| 15... | 1535 | 257 | 7.0 | 1320 | 02... | 1610 | 392 | 11.0 | 650 |
| DEC | | | | | 31... | 1050 | 454 | 14.0 | 680 |
| 10... | 1500 | 251 | 3.0 | 1490 | JUL | | | | |
| JAN , 1986 | | | | | 01... | 1555 | 301 | 20.0 | 950 |
| 02... | 1310 | 239 | 3.0 | 1500 | AUG | | | | |
| FEB | | | | | 01... | 1345 | 245 | 21.0 | 980 |
| 06... | 1220 | 329 | 6.0 | 1350 | SEP | | | | |
| MAR | | | | | 30... | 1550 | 313 | 11.5 | 1110 |
| 04... | 1210 | 317 | 10.0 | 1280 | | | | | |

RUSH VALLEY

10172700 VERNON CREEK NEAR VERNON, UT (Lat 39°58'46", Long 112°22'46")

| | | | | | | | | | |
|------------|------|-----|-----|-----|------------|------|-----|------|-----|
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 01... | 1115 | 6.8 | 8.0 | 530 | 31... | 1230 | 12 | 11.5 | 480 |
| 30... | 0935 | 6.8 | 8.0 | 490 | APR | | | | |
| DEC | | | | | 23... | 1900 | 13 | 10.0 | 490 |
| 04... | 0950 | 6.3 | 4.0 | 480 | MAY | | | | |
| JAN , 1986 | | | | | 06... | 1405 | 12 | 7.0 | 470 |
| 03... | 1045 | 6.2 | 4.0 | 480 | 30... | 1555 | 9.4 | 17.0 | 520 |
| FEB | | | | | JUL | | | | |
| 05... | 1150 | 6.2 | 4.0 | 510 | 03... | 1535 | 7.6 | 19.0 | 540 |
| MAR | | | | | AUG | | | | |
| 03... | 1015 | 6.9 | 6.0 | 540 | 04... | 1815 | 6.7 | 16.5 | 540 |

10172750 OPHIR CREEK NEAR STOCKTON, UT (Lat 40°22'34", Long 112°14'28")

| | | | | | | | | | |
|------------|------|-----|------|-----|------------|------|-----|------|-----|
| FEB , 1986 | | | | | JUN , 1986 | | | | |
| 27... | -- | 2.7 | -- | -- | 03... | 1935 | 28 | 9.0 | 510 |
| MAR | | | | | 24... | 1130 | 15 | 11.0 | 450 |
| 20... | 1330 | 3.3 | 11.0 | 390 | AUG | | | | |
| APR | | | | | 05... | 1645 | 7.9 | 17.5 | 360 |
| 07... | -- | 10 | -- | -- | | | | | |
| MAY | | | | | | | | | |
| 05... | 1005 | 30 | 5.0 | 440 | | | | | |

TOOELE VALLEY

10172765 CLOVER CREEK ABOVE BIG HOLLOW NEAR CLOVER, UT (Lat 40°19'58", Long 112°31'24")

| | | | | | | | | | |
|------------|------|-----|------|-----|------------|------|-----|------|-----|
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 02... | 1055 | 3.6 | 9.0 | 350 | 04... | 1230 | 10 | 11.0 | 420 |
| 04... | 1015 | 3.6 | 7.0 | 340 | MAY | | | | |
| 30... | 1310 | 3.2 | 10.0 | 330 | 05... | 1215 | 15 | 9.0 | 410 |
| DEC | | | | | JUN | | | | |
| 04... | 1150 | 2.6 | 6.0 | 345 | 03... | 1355 | 31 | 9.0 | 380 |
| 30... | 0815 | 2.4 | 3.5 | 375 | 24... | 1330 | 15 | 10.0 | 350 |
| FEB , 1986 | | | | | AUG | | | | |
| 03... | 1255 | 2.4 | 7.0 | 375 | 06... | 1545 | 7.7 | 13.5 | 360 |
| MAR | | | | | | | | | |
| 10... | 1010 | 7.0 | 8.5 | -- | | | | | |

10172800 SOUTH WILLOW CREEK NEAR GRANTSVILLE, UT (Lat 40°29'47", Long 112°34'25")

| | | | | | | | | | |
|------------|------|-----|-----|-----|------------|------|-----|------|-----|
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 04... | 1415 | 4.6 | 8.0 | 380 | 07... | 1315 | 13 | 7.0 | 310 |
| 30... | 1505 | 4.3 | 8.0 | 340 | MAY | | | | |
| DEC | | | | | 07... | 1405 | 21 | 5.0 | 390 |
| 04... | 1335 | 3.7 | 4.0 | 335 | JUN | | | | |
| JAN , 1986 | | | | | 03... | 1555 | 41 | 9.0 | 370 |
| 07... | 1130 | 3.6 | 2.0 | 340 | JUL | | | | |
| FEB | | | | | 03... | 1330 | 16 | 10.5 | 270 |
| 21... | 1100 | 4.1 | 4.5 | 360 | AUG | | | | |
| MAR | | | | | 05... | 1315 | 7.9 | 11.0 | 340 |
| 12... | 1345 | 6.5 | 6.5 | 370 | | | | | |

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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) |
|---|------|---|-----------------------------|---|------------|------|---|-----------------------------|---|
| TOOELE VALLEY--Continued | | | | | | | | | |
| 10172805 NORTH WILLOW CREEK NEAR GRANTSVILLE, UT (Lat 40°31'58", Long 112°34'19") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 02... | 0920 | 2.5 | 8.0 | 370 | 07... | 1110 | 14 | 6.5 | 275 |
| 30... | 1615 | 2.6 | 10.0 | 340 | MAY | | | | |
| DEC | | | | | 13... | 1030 | 21 | 7.0 | 275 |
| 04... | 1455 | 2.5 | 5.5 | 325 | JUN | | | | |
| JAN , 1986 | | | | | 03... | 1715 | 28 | 10.0 | 210 |
| 03... | 1255 | 2.6 | 4.5 | 370 | 25... | 1520 | 8.9 | 11.0 | 275 |
| FEB | | | | | AUG | | | | |
| 21... | 0930 | 4.5 | 4.5 | -- | 05... | 1105 | 3.9 | 12.5 | 310 |
| MAR | | | | | | | | | |
| 20... | 1020 | 5.2 | 6.0 | 440 | | | | | |

| | | | | | | | | | |
|---|------|-----|-----|-----|------------|------|-----|------|-----|
| GREAT SALT LAKE DESERT | | | | | | | | | |
| 10172870 TROUT CREEK NEAR CALLAO, UT (Lat 39°44'39", Long 113°53'21") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 02... | 1620 | 1.6 | 9.5 | 90 | 05... | 1825 | 19 | 5.0 | 85 |
| NOV | | | | | JUN | | | | |
| 29... | 1300 | 1.6 | 2.0 | 95 | 02... | 1945 | 56 | 7.5 | 105 |
| DEC | | | | | 24... | 1840 | 9.0 | 11.0 | 80 |
| 30... | 1440 | 1.7 | 1.0 | 115 | JUL | | | | |
| FEB , 1986 | | | | | 02... | 1410 | 6.3 | 14.0 | 85 |
| 03... | 1740 | 1.3 | 2.0 | 110 | AUG | | | | |
| MAR | | | | | 07... | 1445 | 2.7 | 16.5 | 85 |
| 11... | 1600 | 2.1 | 4.5 | 105 | | | | | |
| APR | | | | | | | | | |
| 03... | 1600 | 5.8 | 5.0 | 95 | | | | | |

| | | | | | | | | | |
|---|------|-----|-----|-----|------------|------|-----|------|-----|
| 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 , 1985 | | | | | APR , 1986 | | | | |
| 07... | -- | 2.1 | 7.0 | -- | 22... | 1245 | 18 | 12.0 | 160 |
| NOV | | | | | MAY | | | | |
| 15... | 1105 | 1.5 | 1.5 | -- | 22... | 1120 | 40 | 5.5 | 120 |
| DEC | | | | | JUN | | | | |
| 19... | 1240 | 1.4 | 3.0 | -- | 02... | 1105 | 70 | 9.5 | 81 |
| JAN , 1986 | | | | | 17... | 1100 | 24 | 12.0 | 120 |
| 10... | 1130 | 1.6 | 3.0 | 210 | JUL | | | | |
| FEB | | | | | 01... | 1345 | 14 | 18.0 | 130 |
| 20... | 1110 | 4.4 | 3.5 | 200 | AUG | | | | |
| MAR | | | | | 06... | 1230 | 5.5 | 18.0 | 135 |
| 20... | -- | 4.4 | 4.0 | -- | | | | | |

| | | | | | | | | | |
|--|------|----|-----|-----|------------|------|-----|------|-----|
| SEVIER LAKE BASIN | | | | | | | | | |
| 10173450 MAMMOTH CREEK ABOVE WEST HATCH DITCH, NEAR HATCH, UT (Lat 37°37'19", Long 112°31'07") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 25... | 1410 | 25 | 7.5 | 215 | 15... | 1725 | 27 | 11.0 | 225 |
| NOV | | | | | MAY | | | | |
| 25... | 1445 | 22 | 3.5 | 215 | 14... | 1720 | 141 | 11.0 | 175 |
| DEC | | | | | JUN | | | | |
| 16... | 1140 | 13 | .0 | 235 | 12... | 1620 | 121 | 14.5 | 180 |
| JAN , 1986 | | | | | JUL | | | | |
| 29... | 1215 | 14 | 2.0 | 230 | 17... | 1540 | 45 | 16.0 | 200 |
| FEB | | | | | AUG | | | | |
| 24... | 1430 | 17 | 8.5 | 235 | 25... | 1730 | 29 | 15.0 | 200 |

| | | | | | | | | | |
|---|------|-----|------|-----|------------|------|-----|------|-----|
| 10180000 SEVIER RIVER NEAR CIRCLEVILLE, UT (Lat 38°06'15", Long 112°20'08") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 03... | 1305 | 115 | 12.0 | 385 | 09... | 1035 | 170 | 6.0 | 420 |
| NOV | | | | | MAY | | | | |
| 17... | 1505 | 154 | 2.0 | -- | 16... | 1020 | 202 | 7.0 | 370 |
| JAN , 1986 | | | | | JUN | | | | |
| 02... | 1235 | 137 | 1.0 | 450 | 25... | 1035 | 107 | 13.5 | 470 |
| FEB | | | | | AUG | | | | |
| 20... | -- | 625 | -- | 280 | 05... | 1050 | 64 | 14.0 | 480 |

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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--Continued | | | | | | | | | |
| 10183500 SEVIER RIVER NEAR KINGSTON, UT (Lat 38°12'22", Long 112°12'25") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 01... | 1120 | 116 | 10.5 | 550 | 30... | 1235 | 33 | 10.0 | -- |
| NOV | | | | | JUN | | | | |
| 01... | 1050 | 170 | 6.0 | 500 | 03... | 1135 | 126 | 15.0 | 405 |
| DEC | | | | | JUL | | | | |
| 03... | 1035 | 213 | 3.0 | 560 | 08... | 0950 | 38 | -- | 650 |
| JAN , 1986 | | | | | AUG | | | | |
| 08... | 1220 | 174 | .5 | 485 | 05... | 1225 | 26 | 17.0 | 590 |
| FEB | | | | | SEP | | | | |
| 20... | 1235 | 628 | 4.5 | 350 | 02... | 1035 | 66 | 15.0 | 570 |
| APR | | | | | | | | | |
| 09... | 1135 | 194 | 7.0 | 435 | | | | | |
| 10183900 EAST FORK SEVIER RIVER NEAR RUBYS INN, UT (Lat 37°34'33", Long 112°15'54") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 07... | 1215 | 21 | 8.0 | 470 | 30... | -- | 15 | -- | 440 |
| NOV | | | | | JUL | | | | |
| 20... | 1050 | 17 | .5 | 520 | 01... | 1150 | 8.4 | 15.0 | 405 |
| DEC | | | | | AUG | | | | |
| 27... | 1100 | 7.0 | .5 | 530 | 18... | 1100 | 7.3 | 18.0 | 415 |
| FEB , 1986 | | | | | SEP | | | | |
| 24... | 1030 | 25 | .5 | 500 | 04... | 1120 | 8.7 | 13.0 | 440 |
| APR | | | | | | | | | |
| 24... | 1005 | 33 | 6.0 | 455 | | | | | |
| 10189000 EAST FORK SEVIER RIVER NEAR KINGSTON, UT (Lat 38°11'49", Long 112°09'01") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 01... | 1230 | 19 | 13.0 | 560 | 30... | 1130 | 94 | 10.0 | -- |
| NOV | | | | | JUN | | | | |
| 01... | 1110 | 20 | 8.0 | 540 | 03... | 1235 | 49 | 15.0 | -- |
| DEC | | | | | JUL | | | | |
| 03... | 1145 | 121 | 4.0 | 470 | 08... | 1035 | 107 | 17.0 | 470 |
| JAN , 1986 | | | | | AUG | | | | |
| 08... | 1120 | 90 | 1.0 | 435 | 05... | 1305 | 97 | 17.0 | 445 |
| FEB | | | | | SEP | | | | |
| 20... | 1335 | 204 | 5.0 | -- | 02... | 1115 | 44 | 16.0 | 450 |
| APR | | | | | | | | | |
| 09... | 1220 | 163 | 6.0 | 415 | | | | | |
| 10191500 SEVIER RIVER BELOW PIUTE DAM, NEAR MARYSVALE, UT (Lat 38°19'45", Long 112°11'30") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 01... | 0950 | 191 | 7.0 | 540 | 09... | 1415 | 401 | 8.0 | -- |
| NOV | | | | | MAY | | | | |
| 11... | 1000 | e2.0 | 1.0 | -- | 16... | 1205 | 234 | 12.0 | -- |
| DEC | | | | | JUN | | | | |
| 03... | 1230 | e2.0 | 5.0 | -- | 25... | 1255 | 531 | 17.0 | 450 |
| JAN , 1986 | | | | | AUG | | | | |
| 02... | 1035 | e3.0 | 1.0 | -- | 12... | 1235 | 582 | 22.0 | 475 |
| FEB | | | | | SEP | | | | |
| 20... | 1455 | 387 | 8.0 | 470 | 02... | 1235 | 232 | 17.0 | 490 |
| MAR | | | | | | | | | |
| 27... | 1220 | 18 | 14.0 | 450 | | | | | |
| 10194000 SEVIER RIVER ABOVE CLEAR CREEK, NEAR SEVIER, UT (Lat 38°34'20", Long 112°15'27") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 17... | 1255 | 38 | 9.0 | 580 | 22... | 1045 | 391 | 12.5 | 435 |
| NOV | | | | | MAY | | | | |
| 14... | 1100 | 30 | 2.0 | -- | 29... | 1000 | 367 | 10.0 | 195 |
| DEC | | | | | JUL | | | | |
| 26... | 1205 | 19 | 1.0 | 590 | 08... | 1235 | 552 | 17.0 | 450 |
| JAN , 1986 | | | | | AUG | | | | |
| 23... | 0950 | 36 | 4.0 | 540 | 20... | 0935 | 501 | 17.0 | 495 |
| MAR | | | | | | | | | |
| 04... | 1110 | 331 | 9.0 | 470 | | | | | |

e Estimated.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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--Continued

10194200 CLEAR CREEK ABOVE DIVERSIONS, NEAR SEVIER, UT (Lat 38°34'45", Long 112°17'22")

| | | | | | | | | | |
|------------|------|----|-----|-----|------------|------|-----|------|-----|
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 17... | 1155 | 20 | 8.0 | 280 | 23... | 1120 | 133 | 9.0 | 240 |
| NOV | | | | | MAY | | | | |
| 14... | 1205 | 17 | 2.0 | -- | 29... | 1140 | 399 | 9.0 | 115 |
| DEC | | | | | JUN | | | | |
| 26... | 1050 | 16 | .5 | 300 | 25... | 1420 | 84 | 14.5 | 140 |
| JAN , 1986 | | | | | JUL | | | | |
| 23... | 1045 | 18 | 3.0 | 295 | 23... | -- | 41 | -- | -- |
| MAR | | | | | AUG | | | | |
| 04... | 1235 | 28 | 8.0 | 265 | 27... | 1215 | 26 | 13.0 | 240 |

10205000 SEVIER RIVER NEAR SIGURD, UT (Lat 38°52'13", Long 111°57'14")

| | | | | | | | | | |
|------------|------|-----|------|------|------------|------|-----|------|------|
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 14... | 1550 | 159 | 11.0 | 1060 | 20... | 1450 | 153 | 18.0 | 1080 |
| DEC | | | | | JUN | | | | |
| 03... | 1500 | 241 | 8.0 | 1280 | 11... | 0820 | 40 | 15.0 | -- |
| JAN , 1986 | | | | | JUL | | | | |
| 08... | 1500 | 142 | 4.0 | 1040 | 08... | 1430 | 4.9 | 19.0 | 950 |
| FEB | | | | | AUG | | | | |
| 21... | -- | 426 | -- | 710 | 07... | 1005 | 4.8 | 14.0 | 1150 |
| APR | | | | | SEP | | | | |
| 23... | 1450 | 44 | 12.0 | 960 | 10... | 1440 | 83 | 17.0 | 1200 |

10205030 SALINA CREEK NEAR EMERY, UT (Lat 38°54'45", Long 111°31'47")

| | | | | | | | | | |
|------------|------|-----|-----|-----|------------|------|----|------|-----|
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 15... | 1050 | 12 | 2.0 | 520 | 13... | 1345 | 72 | 7.0 | 500 |
| DEC | | | | | JUN | | | | |
| 18... | 1310 | 8.5 | 1.5 | 610 | 04... | 1450 | 93 | 12.0 | 410 |
| JAN , 1986 | | | | | JUL | | | | |
| 28... | 1135 | 12 | .5 | 570 | 09... | 0930 | 22 | 13.0 | 490 |
| MAR | | | | | AUG | | | | |
| 26... | 1050 | 13 | 4.0 | 600 | 07... | 0830 | 18 | 9.0 | 485 |

10206000 SALINA CREEK AT SALINA, UT (Lat 38°57'24", Long 111°51'58")

| | | | | | | | | | |
|------------|------|-----|-----|------|------------|------|-----|------|------|
| OCT , 1985 | | | | | JUN , 1986 | | | | |
| 15... | -- | 23 | -- | 1280 | 04... | 1325 | 221 | 14.0 | 570 |
| JAN , 1986 | | | | | JUL | | | | |
| 08... | 1030 | 31 | .5 | 1380 | 09... | 0810 | 6.9 | 17.0 | 1580 |
| FEB | | | | | AUG | | | | |
| 21... | 1115 | 41 | -- | 1180 | 06... | 1310 | .86 | 20.0 | 3230 |
| APR | | | | | SEP | | | | |
| 23... | 1400 | 124 | 9.0 | 800 | 10... | 1255 | 1.4 | 16.0 | 3010 |
| MAY | | | | | | | | | |
| 13... | 1505 | 214 | 8.0 | 690 | | | | | |

10208500 OAK CREEK NEAR FAIRVIEW, UT (Lat 39°40'26", Long 111°24'30")

| | | | | | | | | | |
|------------|------|-----|-----|-----|------------|------|-----|------|-----|
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 08... | 1010 | 4.0 | 4.5 | 520 | 01... | 1550 | 28 | 4.5 | 500 |
| NOV | | | | | 29... | 1610 | 46 | 7.5 | 500 |
| 14... | 1500 | 3.7 | 1.0 | 540 | MAY | | | | |
| DEC | | | | | 29... | 1810 | 265 | 8.0 | 380 |
| 10... | 1410 | 3.4 | .0 | 570 | JUN | | | | |
| JAN , 1986 | | | | | 27... | 1150 | 15 | 12.0 | 550 |
| 08... | 1640 | 3.2 | 1.0 | 550 | AUG | | | | |
| FEB | | | | | 01... | 1215 | 5.2 | 13.5 | 570 |
| 05... | 1750 | 3.4 | 1.5 | 550 | SEP | | | | |
| MAR | | | | | 12... | 1240 | 3.8 | 10.5 | 560 |
| 05... | 1500 | 7.1 | 5.0 | 540 | | | | | |

10215700 OAK CREEK NEAR SPRING CITY, UT (Lat 39°26'52", Long 111°25'29")

| | | | | | | | | | |
|------------|------|-----|-----|-----|------------|------|-----|------|-----|
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 04... | 1520 | 6.1 | 6.5 | 440 | 29... | 1120 | 10 | 4.5 | 430 |
| DEC | | | | | MAY | | | | |
| 10... | 1110 | 5.1 | .0 | 460 | 29... | 1230 | 58 | 7.0 | 365 |
| JAN , 1986 | | | | | JUN | | | | |
| 08... | 1130 | 4.9 | .0 | 460 | 24... | 1800 | 36 | 9.0 | 350 |
| FEB | | | | | JUL | | | | |
| 05... | 1330 | 5.1 | 1.0 | 460 | 31... | 1830 | 9.5 | 13.0 | 390 |
| MAR | | | | | SEP | | | | |
| 05... | 1030 | 4.6 | 2.0 | 455 | 09... | 1705 | 6.4 | 9.0 | 415 |
| APR | | | | | | | | | |
| 01... | 1140 | 6.5 | 4.5 | 435 | | | | | |

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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--Continued | | | | | | | | | |
| 10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UT (Lat 39°15'33", Long 111°34'45") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 15... | 1640 | 9.0 | 6.0 | 630 | 14... | 1135 | 56 | 5.0 | 530 |
| NOV | | | | | JUL | | | | |
| 26... | 1300 | 7.2 | 1.0 | 640 | 09... | 1120 | 46 | 11.0 | 500 |
| JAN , 1986 | | | | | AUG | | | | |
| 08... | 1150 | 6.6 | .0 | 690 | 06... | 1005 | 19 | 10.0 | 550 |
| FEB | | | | | SEP | | | | |
| 14... | 1215 | 5.8 | .0 | 680 | 03... | -- | 13 | -- | 550 |
| MAR | | | | | | | | | |
| 20... | 1240 | 11 | 1.5 | 650 | | | | | |
| 10217000 SEVIER RIVER BELOW SAN PITCH RIVER, NEAR GUNNISON, UT (Lat 39°09'19", Long 111°52'37") | | | | | | | | | |
| OCT , 1985 | | | | | MAY , 1986 | | | | |
| 16... | 1040 | 367 | 9.0 | 1280 | 14... | 0910 | 850 | 9.0 | 1290 |
| NOV | | | | | JUN | | | | |
| 26... | 1600 | 610 | 6.5 | 1570 | 05... | 0845 | 1390 | 15.0 | 1220 |
| JAN , 1986 | | | | | JUL | | | | |
| 08... | -- | 453 | 3.0 | 1630 | 09... | 1415 | 71 | 20.0 | 2520 |
| FEB | | | | | AUG | | | | |
| 14... | -- | 846 | 3.5 | 1640 | 06... | 1200 | 89 | 20.0 | 2350 |
| MAR | | | | | | | | | |
| 21... | 1545 | 913 | 7.5 | 1240 | | | | | |
| 10219000 SEVIER RIVER NEAR JUAB, UT (Lat 39°22'29", Long 112°02'20") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 15... | 1410 | 15 | 15.0 | 1100 | 22... | 1730 | 903 | 11.0 | 1450 |
| NOV | | | | | MAY | | | | |
| 26... | 1015 | 268 | 6.0 | 1390 | 22... | 1310 | 880 | 14.5 | 1360 |
| JAN , 1986 | | | | | JUL | | | | |
| 07... | 1500 | 573 | 2.0 | 1440 | 02... | 1520 | 625 | 16.5 | 1380 |
| FEB | | | | | AUG | | | | |
| 13... | 1515 | 533 | 5.0 | 1520 | 13... | 1450 | 511 | 20.0 | 1320 |
| MAR | | | | | | | | | |
| 20... | 1010 | 1170 | 7.0 | 1570 | | | | | |
| 10219200 CHICKEN CREEK NEAR LEVAN, UT (Lat 39°33'08", Long 111°49'45") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 07... | 1700 | 4.3 | 10.5 | 1080 | 28... | 1610 | 49 | 11.0 | 610 |
| NOV | | | | | MAY | | | | |
| 15... | 1130 | 3.2 | 7.0 | 1110 | 28... | 1235 | 39 | 13.0 | 670 |
| DEC | | | | | JUN | | | | |
| 09... | 1540 | 3.3 | 6.0 | 1110 | 19... | 1700 | 16 | 20.0 | 660 |
| JAN , 1986 | | | | | 26... | 1400 | 13 | 19.5 | 800 |
| 07... | 1100 | 2.2 | 4.0 | 1220 | JUL | | | | |
| FEB | | | | | 08... | 1525 | 9.3 | 19.0 | 880 |
| 04... | 1200 | 2.5 | 7.0 | 1170 | 29... | 1425 | 7.5 | 20.0 | 910 |
| MAR | | | | | SEP | | | | |
| 04... | 1025 | 10 | 7.5 | 760 | 10... | 1230 | 4.4 | 13.0 | 980 |
| APR | | | | | | | | | |
| 02... | 1210 | 44 | 3.0 | 510 | | | | | |
| 10224100 OAK CREEK ABOVE LITTLE CREEK, NEAR OAK CITY, UT (Lat 39°21'23", Long 112°13'55") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 17... | 1040 | .70 | 5.0 | 285 | 23... | 1805 | 14 | 7.0 | 135 |
| NOV | | | | | MAY | | | | |
| 25... | 1150 | 1.0 | 3.0 | 275 | 23... | 1815 | 14 | 9.0 | 135 |
| JAN , 1986 | | | | | JUL | | | | |
| 06... | 1500 | 1.4 | 1.0 | 235 | 02... | 1845 | 1.4 | 16.5 | 270 |
| FEB | | | | | AUG | | | | |
| 12... | 1220 | 1.8 | 1.0 | 210 | 14... | 1010 | .89 | 13.0 | 310 |
| MAR | | | | | | | | | |
| 19... | 1350 | 6.5 | 5.0 | 155 | | | | | |

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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--Continued

10224300 OAK CREEK BELOW BIG SPRING, NEAR OAK CITY, UT (Lat 39°21'11", Long 112°17'07")

| | | | | | | | | | |
|------------|------|-----|-----|-----|------------|------|-----|------|-----|
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 17... | 0930 | 3.7 | 6.0 | 465 | 24... | 1215 | 44 | 9.0 | 295 |
| NOV | | | | | MAY | | | | |
| 25... | 1310 | 4.5 | 6.0 | 465 | 23... | 1535 | 39 | 11.5 | 320 |
| JAN , 1986 | | | | | JUL | | | | |
| 06... | 1345 | 5.0 | 4.5 | 420 | 03... | 1155 | 12 | 13.5 | 440 |
| FEB | | | | | AUG | | | | |
| 12... | 1410 | 6.0 | 4.0 | 410 | 13... | 1640 | 6.3 | 15.5 | 455 |
| MAR | | | | | | | | | |
| 19... | 1510 | 17 | 7.0 | 335 | | | | | |

BEAVER RIVER BASIN

10234500 BEAVER RIVER NEAR BEAVER, UT (Lat 38°16'50", Long 112°34'25")

| | | | | | | | | | |
|------------|------|----|-----|-----|------------|------|-----|------|-----|
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 29... | 1300 | 27 | 8.0 | -- | 24... | 1055 | 140 | 12.0 | 89 |
| NOV | | | | | MAY | | | | |
| 27... | 1310 | 21 | 2.0 | 135 | 23... | 1320 | 282 | -- | 74 |
| JAN , 1986 | | | | | JUN | | | | |
| 03... | 1340 | 23 | 2.0 | 140 | 23... | 1400 | 126 | 17.0 | 100 |
| 27... | 1350 | 22 | 3.0 | 140 | JUL | | | | |
| FEB | | | | | 28... | 1225 | 75 | 12.0 | 115 |
| 25... | 1305 | 28 | 7.0 | -- | AUG | | | | |
| MAR | | | | | 26... | 1105 | 68 | 14.0 | 125 |
| 25... | 1015 | 44 | 7.0 | 125 | | | | | |

10237000 BEAVER RIVER AT ADAMSVILLE, UT (Lat 38°15'13", Long 112°45'56")

| | | | | | | | | | |
|------------|------|----|-----|-----|------------|------|-----|------|-----|
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 29... | -- | 49 | -- | 420 | 25... | 1315 | 97 | 11.0 | 255 |
| NOV | | | | | JUN | | | | |
| 27... | 1115 | 59 | 4.0 | 385 | 10... | 1445 | 128 | 15.0 | 280 |
| JAN , 1986 | | | | | JUL | | | | |
| 03... | 1240 | 56 | 4.0 | 380 | 28... | 1405 | 12 | 22.0 | 650 |
| 27... | 1230 | 51 | 4.0 | 390 | AUG | | | | |
| FEB | | | | | 26... | 1345 | 17 | 24.0 | 660 |
| 25... | 1145 | 48 | 8.0 | 380 | | | | | |

10239000 BEAVER RIVER AT ROCKY FORD DAM, NEAR MINERSVILLE, UT (Lat 38°13'03", Long 112°50'22")

| | | | | | | | | | |
|------------|------|-----|------|-----|------------|------|-----|------|-----|
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 10... | 1010 | 6.2 | 11.0 | 570 | 24... | 1440 | 24 | 22.0 | 530 |
| NOV | | | | | JUN | | | | |
| 27... | 1000 | 7.0 | 9.0 | 580 | 10... | 1245 | 207 | 17.0 | 420 |
| JAN , 1986 | | | | | JUL | | | | |
| 03... | 1050 | 8.1 | 8.0 | 590 | 28... | 1545 | 104 | 20.0 | 450 |
| 27... | 1110 | 9.7 | 10.0 | 580 | AUG | | | | |
| FEB | | | | | 26... | 1500 | 145 | 20.0 | 495 |
| 25... | 1030 | 10 | 10.5 | 580 | | | | | |
| MAR | | | | | | | | | |
| 25... | 1445 | 12 | 15.0 | 560 | | | | | |

PAROWAN VALLEY

10241470 CENTER CREEK ABOVE PAROWAN CREEK, NEAR PAROWAN, UT (Lat 37°47'35", Long 112°48'55")

| | | | | | | | | | |
|------------|------|-----|-----|-----|------------|------|-----|------|-----|
| OCT , 1985 | | | | | MAR , 1986 | | | | |
| 11... | 1410 | 6.7 | 9.0 | 285 | 31... | 1225 | 5.8 | -- | 340 |
| NOV | | | | | MAY | | | | |
| 14... | 1340 | 5.6 | 4.5 | 315 | 05... | 1250 | 8.2 | 8.5 | 320 |
| DEC | | | | | JUN | | | | |
| 13... | 1435 | 4.7 | .5 | 330 | 18... | 1405 | 11 | 15.0 | 230 |
| JAN , 1986 | | | | | AUG | | | | |
| 23... | 1400 | 4.6 | 5.0 | 325 | 01... | 1400 | 5.7 | 16.0 | 275 |
| FEB | | | | | SEP | | | | |
| 19... | 1045 | 5.4 | 5.0 | 325 | 08... | 1400 | 4.7 | 14.5 | 290 |

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (UMHOS) | DATE | TIME | STREAM- FLOW, INSTAN- TANEOUS (CFS) | TEMPER- ATURE (DEG C) | SPE- CIFIC CON- DUCT- ANCE (UMHOS) |
|--|------|---|-----------------------------|---|------------|------|---|-----------------------------|---|
| PAROWAN VALLEY--Continued | | | | | | | | | |
| 10241600 SUMMIT CREEK NEAR SUMMIT, UT (Lat 37°47'13", Long 112°54'56") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 15... | 1240 | 1.7 | 7.5 | 480 | 11... | 0955 | 4.9 | 6.5 | 475 |
| NOV | | | | | MAY | | | | |
| 15... | 1310 | 2.1 | 1.0 | 465 | 05... | 1540 | 14 | 8.5 | 370 |
| DEC | | | | | JUN | | | | |
| 12... | 1500 | 2.7 | .5 | 495 | 18... | 1610 | 4.8 | 21.5 | 370 |
| JAN , 1986 | | | | | AUG | | | | |
| 24... | 1240 | 1.5 | 3.5 | 480 | 01... | 1650 | 1.6 | 22.5 | 365 |
| FEB | | | | | SEP | | | | |
| 19... | 1415 | 2.2 | 8.5 | 440 | 08... | 1140 | 1.7 | 15.0 | 420 |
| CEDAR CITY VALLEY | | | | | | | | | |
| 10242000 COAL CREEK NEAR CEDAR CITY, UT (Lat 37°40'20", Long 113°02'02") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 18... | 1430 | 15 | 12.0 | 630 | 01... | 1900 | 80 | 7.0 | 410 |
| NOV | | | | | MAY | | | | |
| 18... | 1630 | 14 | .5 | 640 | 02... | 1230 | 161 | 8.0 | 315 |
| DEC | | | | | JUN | | | | |
| 17... | 1400 | 16 | .5 | 650 | 11... | 1705 | 46 | 19.0 | 420 |
| JAN , 1986 | | | | | JUL | | | | |
| 29... | 1710 | 14 | 5.0 | 620 | 16... | 1200 | 31 | 18.0 | 460 |
| FEB | | | | | SEP | | | | |
| 20... | 0950 | 22 | 1.5 | 590 | 02... | 1435 | 14 | 20.0 | 510 |
| MAR | | | | | | | | | |
| 06... | 1855 | 27 | 6.5 | 530 | | | | | |
| RAFT RIVER BASIN | | | | | | | | | |
| 13077700 GEORGE CREEK NEAR YOST, UT (Lat 41°55'0"/", Long 113°28'51") | | | | | | | | | |
| OCT , 1985 | | | | | APR , 1986 | | | | |
| 07... | 1425 | 3.2 | 7.0 | 160 | 23... | 1300 | 23 | 6.5 | -- |
| NOV | | | | | MAY | | | | |
| 15... | 1400 | 2.4 | 4.0 | 175 | 22... | 1350 | 41 | 6.0 | 105 |
| DEC | | | | | JUN | | | | |
| 19... | 1610 | 2.0 | 3.0 | -- | 02... | 1340 | 106 | 8.0 | 73 |
| JAN , 1986 | | | | | 17... | 1345 | 42 | 11.0 | 78 |
| 10... | 1430 | 2.0 | 5.0 | 170 | JUL | | | | |
| FEB | | | | | 01... | 1135 | 15 | 11.0 | 100 |
| 20... | 1425 | 2.9 | 4.0 | 160 | AUG | | | | |
| MAR | | | | | 07... | 1130 | 5.8 | 12.5 | 130 |
| 20... | 1210 | 3.0 | 7.0 | 165 | | | | | |

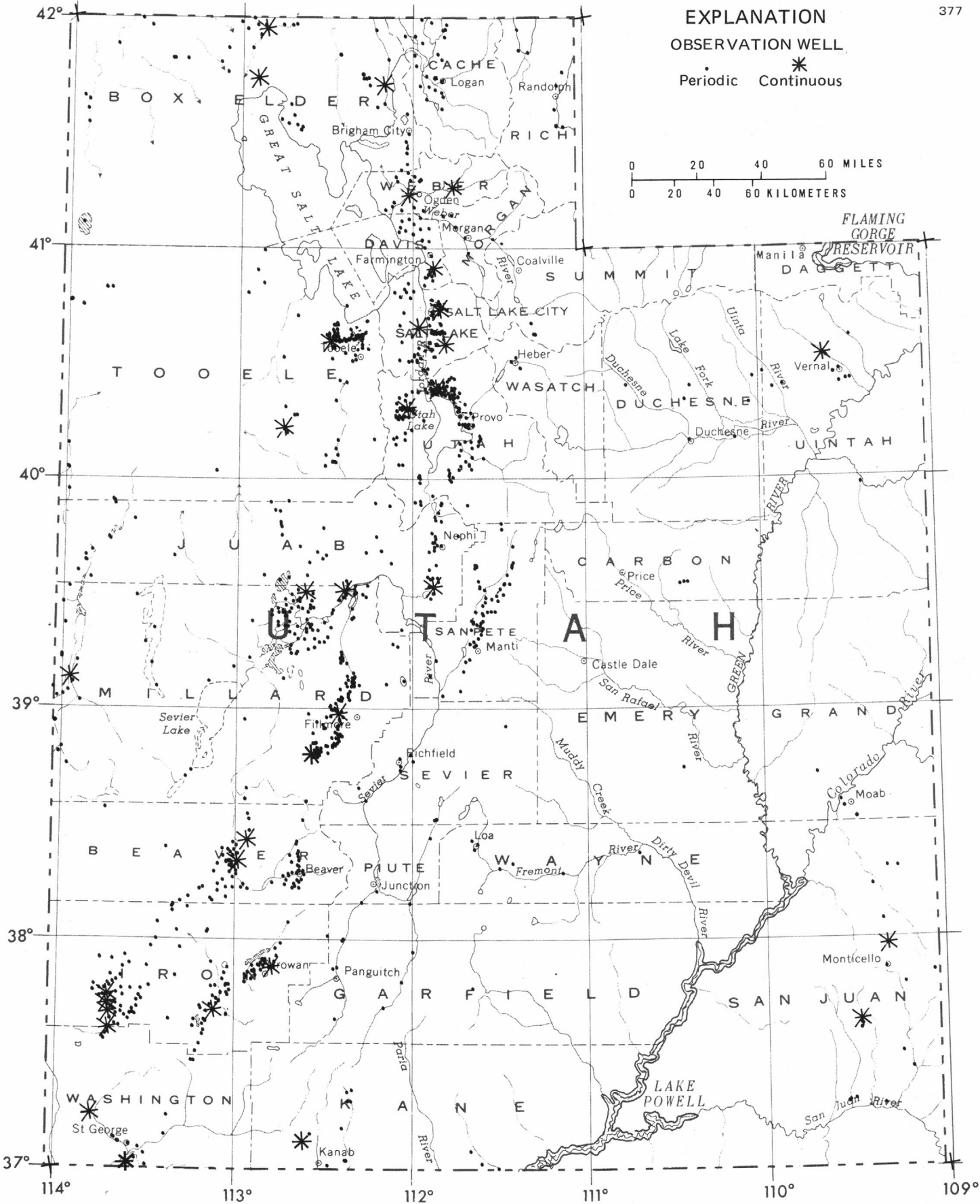


Figure 19.—Location of observation wells in Utah where data were obtained on ground-water levels.

GROUND-WATER LEVELS

BEAVER COUNTY

38255112555101. 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.--Records 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, 327.42 ft below land-surface datum, Oct. 6, 1985.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5 | 327.18 | 326.88 | 326.73 | 326.76 | 326.67 | 326.71 | 326.68 | 326.70 | 326.85 | 326.32 | 326.60 | 326.65 |
| 10 | 327.00 | 326.92 | 326.73 | 326.70 | 326.68 | 326.71 | 326.74 | 326.87 | 326.63 | 326.48 | 326.57 | 326.49 |
| 15 | 327.07 | 326.73 | 326.71 | 326.69 | 326.78 | 326.57 | 326.75 | 326.87 | 326.74 | 326.51 | 326.62 | 326.66 |
| 20 | 327.16 | 326.86 | 326.76 | 326.69 | 326.56 | 326.54 | 326.66 | 327.01 | 326.64 | 326.52 | 326.61 | 326.56 |
| 25 | 327.07 | 326.73 | 326.69 | 326.58 | 326.69 | 326.62 | 326.71 | 326.92 | 326.62 | 326.55 | 326.63 | 326.59 |
| EOM | 326.96 | 326.49 | 326.66 | 326.72 | 326.71 | 326.67 | 326.62 | 326.90 | 326.49 | 326.57 | 326.62 | 326.67 |

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.--Records 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, Oct. 1, 1984; lowest, 59.26 below land-surface datum, Oct. 8, 1965.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 17.02 | 17.15 | 17.98 | 18.74 | 19.42 | 20.03 | 20.56 | 22.49 | 27.11 | 26.71 | 23.85 | 23.17 |
| 10 | 16.85 | 17.25 | 18.07 | 18.89 | 19.52 | 20.07 | 20.59 | 22.01 | 25.69 | 27.53 | 23.96 | 22.44 |
| 15 | 16.87 | 17.46 | 18.28 | 18.95 | 19.61 | 20.16 | 20.29 | 24.09 | 24.04 | 28.77 | 26.09 | 19.29 |
| 20 | 16.88 | 17.52 | 18.43 | 19.06 | 19.70 | 20.31 | 19.95 | 24.31 | 23.58 | 29.56 | 28.25 | 17.80 |
| 25 | 16.94 | 17.65 | 18.53 | 19.22 | 19.87 | 20.40 | 19.69 | 28.01 | 22.21 | 28.67 | 29.10 | 17.05 |
| EOM | 17.01 | 17.69 | 18.61 | 19.28 | 19.92 | 20.51 | 19.86 | 29.20 | 23.49 | 25.10 | 26.25 | 16.76 |

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.--Records good.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.00 ft below land-surface datum, July 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 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 16.72 | 16.78 | 17.05 | 17.53 | 17.82 | 18.06 | 17.53 | 17.14 | 16.97 | 16.59 | 16.24 | 16.01 |
| 10 | 16.62 | 16.74 | 17.06 | 17.64 | 17.89 | 17.84 | 17.49 | 17.11 | 16.94 | 16.59 | 16.19 | 15.96 |
| 15 | 16.67 | 16.85 | 17.25 | 17.64 | 17.90 | 17.75 | 17.40 | 17.13 | 16.90 | 16.52 | 16.14 | 15.96 |
| 20 | 16.69 | 16.88 | 17.40 | 17.67 | 16.86 | 17.78 | 17.41 | 17.11 | 16.85 | 16.50 | 16.12 | 15.93 |
| 25 | 16.69 | 16.84 | 17.46 | 16.80 | 18.05 | 17.75 | 17.23 | 17.13 | 16.78 | 16.42 | 16.06 | 15.79 |
| EOM | 16.73 | 16.83 | 17.47 | 17.78 | 18.08 | 17.67 | 17.22 | 17.05 | 16.70 | 16.31 | 16.03 | 15.77 |

GROUND-WATER LEVELS

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BOX ELDER COUNTY--Continued

414411112543701. LOCAL NUMBER, (B-12-9)30cda-1.

LOCATION.--Lat 41°44'11"N, long 112°54'37", Hydrologic Unit 16020309.

Owners: 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.--Records good.

PERIOD OF RECORD.--August 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 23.28 ft below land-surface datum, June 5, 15, 1986; lowest, 25.53 ft below land-surface datum, Oct. 15, 20, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 24.03 | 24.05 | 24.03 | 23.99 | 23.90 | 23.79 | 23.66 | 23.45 | 23.28 | 23.35 | 23.45 | 23.58 |
| 10 | 24.06 | 24.02 | 24.00 | 23.99 | 23.89 | 23.72 | 23.63 | 23.38 | 23.33 | 23.36 | 23.47 | 23.60 |
| 15 | 24.07 | 24.07 | 24.03 | 23.96 | 23.84 | 23.71 | 23.58 | 23.37 | 23.28 | 23.35 | 23.48 | 23.62 |
| 20 | 24.04 | 24.02 | 24.05 | 23.95 | 23.84 | 23.77 | 23.54 | 23.32 | 23.30 | 23.38 | 23.53 | 23.64 |
| 25 | 24.07 | 23.99 | 24.04 | 23.96 | 23.85 | 23.72 | 23.48 | 23.37 | 23.30 | 23.41 | 23.52 | 23.63 |
| EOM | 24.06 | 23.99 | 24.01 | 23.91 | 23.81 | 23.67 | 23.52 | 23.34 | 23.32 | 23.45 | 23.57 | 23.68 |

415703112514501. LOCAL NUMBER, (B-14-9)9add-1.

LOCATION.--Lat 41°57'03"N, 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.--Records good.

PERIOD OF RECORD.--July 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 161.77 below land-surface datum, May 3, 1986; lowest, 177.03 below land-surface datum, Oct. 1, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|--------|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5 | 169.85 | 166.41 | 165.26 | e164.51 | 163.57 | 163.08 | 162.33 | 161.86 | 167.24 | 170.51 | 172.14 | 171.13 |
| 10 | 168.84 | 165.92 | 165.00 | 164.38 | 163.51 | 162.70 | 162.19 | 161.82 | 166.63 | 171.07 | 172.32 | 171.66 |
| 15 | 168.53 | 166.02 | 165.08 | 164.03 | 163.23 | 162.69 | 162.07 | 161.87 | 169.03 | 170.59 | 172.41 | 169.77 |
| 20 | 167.66 | 165.57 | 164.88 | 163.86 | 163.28 | 162.95 | 162.25 | 161.98 | 170.14 | 171.05 | 172.82 | 169.00 |
| 25 | 167.26 | 165.28 | 164.78 | 164.11 | 163.33 | 162.62 | 161.94 | 162.85 | 170.90 | 170.80 | 171.21 | 167.94 |
| EOM | 166.75 | 165.15 | e164.65 | 163.69 | 163.14 | 162.39 | 162.05 | 165.90 | 171.58 | 170.07 | 171.00 | 167.32 |

DAVIS COUNTY

405447111524301. LOCAL NUMBER, (A-2-1)18abd-12.

LOCATION.--Lat 40°54'47"N, long 111°52'43". Hydrologic Unit 16020102.

Owner: T. Q. Williams.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Jettied 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.--Records 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 1985 TO SEPTEMBER 1986
MAXIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 20.40 | 20.40 | 19.50 | 17.70 | 18.50 | 16.70 | 17.70 | 17.50 | 16.80 | 18.10 | 21.50 | 23.90 |
| 10 | 20.90 | 20.40 | 19.50 | 18.00 | 17.00 | 17.50 | 17.80 | 17.80 | 18.40 | 20.20 | 22.10 | 23.10 |
| 15 | 20.70 | 20.50 | 19.00 | 17.80 | 19.00 | 17.00 | 17.40 | 17.90 | 17.60 | 20.60 | 22.20 | 23.70 |
| 20 | 20.60 | 19.40 | 18.10 | 18.80 | 18.70 | 17.00 | 17.80 | 19.50 | 17.80 | 21.30 | 21.50 | 22.00 |
| 25 | 19.90 | 19.70 | 17.50 | 18.00 | 18.00 | 17.00 | 17.00 | 17.00 | 18.20 | 21.50 | 23.20 | 23.00 |
| EOM | 20.20 | 19.50 | 17.00 | 18.50 | 17.70 | 16.60 | 18.60 | 17.60 | 18.20 | 22.00 | 22.80 | 24.00 |

e Estimated.

GROUND-WATER LEVELS

IRON COUNTY

375241112471001. LOCAL NUMBER, (C-34-8)5bca-1.

LOCATION.--Lat 37°52'41", long 112°47'10", Hydrologic Unit 16030006.

Owner: Paragonah Canal Company.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., 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.--Records 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 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 29.33 | 28.84 | 28.73 | 29.16 | 29.16 | 29.27 | 29.34 | 29.31 | 29.40 | 29.49 | 29.83 | 30.19 |
| 10 | 29.18 | 28.81 | 28.75 | 29.24 | 29.20 | 29.20 | 29.34 | 29.39 | 29.51 | 29.73 | 30.15 | 30.12 |
| 15 | 29.11 | 28.98 | 28.96 | 29.19 | 29.19 | 29.25 | 29.32 | 29.36 | 29.42 | 29.85 | 30.35 | 30.07 |
| 20 | 28.68 | 28.84 | 29.03 | 29.18 | 29.22 | 29.35 | 29.39 | 29.25 | 29.42 | 29.94 | 30.49 | 29.98 |
| 25 | 28.75 | 28.80 | 29.08 | 29.28 | 29.27 | 29.27 | 29.33 | 29.32 | 29.54 | 29.99 | 30.58 | 29.98 |
| EOM | 28.76 | 28.66 | 29.12 | 29.25 | 29.24 | 29.29 | 29.39 | 29.34 | 29.24 | 30.01 | 30.41 | 30.20 |

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 tile, at land-surface datum.

REMARKS.--Records good. Float hung up June 5-Sept. 14.

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, 82.83 ft below land-surface datum, July 4, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-------|
| 5 | 78.45 | 76.94 | 76.16 | 75.59 | 75.06 | 74.75 | 74.35 | 79.44 | | | | --- |
| 10 | 78.11 | 76.70 | 76.04 | 75.54 | 75.02 | 74.58 | 74.26 | 79.19 | | | | --- |
| 15 | 77.81 | 76.69 | 76.01 | 75.39 | 74.91 | 74.55 | 74.20 | 80.21 | | | | 82.78 |
| 20 | 77.50 | 76.41 | 75.88 | 75.29 | 74.90 | 74.67 | 74.22 | 81.16 | | | | 81.45 |
| 25 | 77.31 | 76.33 | 75.78 | 75.35 | 74.87 | 74.49 | 76.58 | 81.87 | | | | 80.69 |
| EOM | 77.08 | 76.10 | 75.69 | 75.19 | 74.80 | 74.42 | 78.00 | 82.67 | | | | 80.11 |

374132113063601. LOCAL NUMBER, (C-36-11)8aab-1.

LOCATION.--Lat 37°41'32", long 113°06'36", Hydrologic Unit 16030006.

Owner: Cedar City Corporation.

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.--Records 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. 21, 1943; lowest, 100.08 ft below land-surface datum, Sept. 10, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|--------|--------|--------|-------|-------|-------|-------|--------|-------|
| 5 | 57.23 | 54.70 | 52.94 | 51.70 | e50.51 | e49.78 | 48.95 | 48.70 | 56.20 | 59.97 | 61.26 | 59.53 |
| 10 | 56.57 | 54.26 | 52.71 | 51.55 | e50.38 | e49.64 | 48.78 | 49.12 | 55.58 | 60.82 | 62.09 | 58.59 |
| 15 | 56.06 | 54.06 | 52.62 | 51.26 | e50.24 | e49.51 | 48.70 | 51.41 | 55.21 | 60.48 | e62.66 | 57.83 |
| 20 | 55.56 | 53.59 | 52.42 | 51.02 | e50.11 | e49.37 | 48.72 | 51.89 | 56.84 | 60.58 | 63.88 | 58.34 |
| 25 | 55.54 | 53.40 | 52.17 | 51.03 | e49.98 | e49.23 | 48.43 | 54.33 | 57.70 | 61.00 | 63.07 | 57.43 |
| EOM | 55.02 | 53.07 | 51.92 | e50.64 | e49.91 | 49.05 | 48.71 | 55.64 | 59.44 | 60.66 | 60.08 | 56.68 |

e Estimated.

GROUND-WATER LEVELS

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IRON COUNTY--Continued

374053113415101. LOCAL NUMBER, (C-36-16)6cbc-1.

LOCATION.--Lat 37°40'53", long 113°41'51", Hydrologic Unit 16030006.

Owner: RedCo Silver, Inc.

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.--Records 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, 146.94 ft below land-surface datum, Aug. 28, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 5 | 141.44 | 139.88 | 137.86 | 135.82 | 133.63 | 132.56 | 131.59 | 132.60 | 137.43 | 142.28 | 144.89 | 146.29 |
| 10 | 141.16 | 139.48 | 137.52 | 135.53 | 133.43 | 132.26 | 131.39 | 132.97 | 138.21 | 143.20 | e145.55 | 146.03 |
| 15 | 141.00 | 139.28 | 137.24 | 135.19 | 133.16 | 132.16 | 131.24 | 134.07 | 138.73 | 143.66 | e146.16 | 145.71 |
| 20 | 140.70 | 138.84 | 136.91 | 134.79 | 133.09 | 132.20 | 131.16 | 134.71 | 139.54 | 144.27 | 146.77 | 145.53 |
| 25 | 140.46 | 138.56 | 136.55 | 134.53 | 132.85 | 131.96 | 131.08 | 135.81 | 140.31 | 143.93 | 146.61 | 145.29 |
| EOM | 140.13 | 138.24 | 136.15 | 134.03 | 132.72 | 131.78 | 131.61 | 136.75 | 141.24 | 144.36 | 146.66 | 144.93 |

374306113422501. LOCAL NUMBER, (C-36-17)1acc-1.

LOCATION.--Lat 37°43'06", long 113°42'25", Hydrologic Unit 16030006.

Owner: RedCo Silver, Inc.

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.--Records good. Well caved in June 27.

PERIOD OF RECORD.--April 1975 to June 1986 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 111.11 ft below land-surface datum, Apr. 11, 1975; lowest, 156.58 ft below land-surface datum, Sept. 7, 1985.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|
| 5 | 155.73 | 154.66 | 152.81 | 151.45 | 150.01 | 149.01 | 148.07 | 147.90 | 150.63 | | | |
| 10 | 155.44 | 154.66 | 152.65 | 151.31 | 149.78 | 148.74 | 147.89 | 148.18 | 151.14 | | | |
| 15 | 155.43 | 153.75 | 152.45 | 151.03 | 149.57 | 148.59 | 147.74 | 148.58 | 151.59 | | | |
| 20 | 154.88 | 153.43 | 152.21 | 150.75 | 149.49 | 148.58 | 147.75 | 148.88 | 152.00 | | | |
| 25 | 154.67 | 153.30 | 151.94 | 150.59 | 149.27 | 148.42 | 147.59 | 149.59 | 152.61 | | | |
| EOM | 154.66 | 153.01 | 151.67 | 150.31 | 149.16 | 148.26 | 147.58 | 150.17 | --- | | | |

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. Records 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, 184.41 ft below land-surface datum, Aug. 21, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5 | 174.62 | 173.34 | e171.87 | 171.60 | 170.97 | 170.71 | 169.91 | 170.79 | 174.81 | 180.98 | 183.55 | 182.21 |
| 10 | 174.40 | 173.09 | e171.87 | 171.52 | 170.99 | 170.42 | 169.73 | 171.74 | 175.61 | 181.77 | 183.21 | 181.61 |
| 15 | 174.13 | 173.11 | e171.88 | 171.27 | 170.85 | 170.35 | 169.60 | 172.14 | 176.56 | 182.67 | 183.61 | 181.08 |
| 20 | 173.87 | 172.82 | e171.88 | 171.22 | 170.94 | 170.54 | 169.63 | 172.74 | 177.95 | 182.49 | 184.34 | 180.99 |
| 25 | 173.69 | e171.86 | 171.88 | 171.38 | 170.86 | 170.24 | 169.44 | 173.35 | 178.68 | 181.15 | 183.80 | 180.34 |
| EOM | 173.46 | e171.87 | 171.73 | 171.14 | 170.76 | 170.08 | 169.65 | 173.63 | 179.24 | 182.67 | 183.06 | 179.80 |

e Estimated.

GROUND-WATER LEVELS

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.--Records good.

PERIOD OF RECORD.--August 1935 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 28.41 ft below land-surface datum, May 21, 1985; lowest, 62.16 ft below land-surface datum, June 20, 1936.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 5 | 32.29 | 32.93 | 33.47 | 33.87 | 34.04 | 34.24 | 34.25 | 33.78 | 33.11 | e33.45 | 33.31 | 33.51 |
| 10 | 32.33 | 32.97 | 33.46 | 33.96 | 34.09 | 34.15 | 34.24 | 33.62 | 32.95 | e33.45 | 33.38 | 33.52 |
| 15 | 32.51 | 33.22 | 33.66 | 33.94 | 34.05 | 34.24 | 34.19 | 33.37 | 32.95 | e33.47 | 33.44 | 33.63 |
| 20 | 32.68 | 33.17 | 33.69 | 34.00 | 34.05 | 34.35 | 34.22 | 33.12 | 32.85 | e33.49 | 33.65 | 33.67 |
| 25 | 32.77 | 33.23 | 33.74 | 34.14 | 34.15 | 34.25 | 34.08 | 32.95 | 32.91 | e33.51 | 33.69 | 33.67 |
| EOM | 32.81 | 33.23 | 33.80 | 34.04 | 34.14 | 34.26 | 33.99 | 32.78 | 33.31 | 33.02 | 33.51 | 33.81 |

KANE COUNTY

370523112334702. LOCAL NUMBER, (C-42-6)30dcc-2.

LOCATION.--Lat 37°05'23", long 112°33'47", Hydrologic Unit 15010003.

Owner: Kanab City.

AQUIFER.--Consolidated Navajo Sandstone.

WELL CHARACTERISTICS.--Drilled well, diameter 6 in., depth 230 ft.

DATUM.--Land-surface datum is 5,280.00 ft above mean sea level. Measuring point: Top of casing, 2.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--December 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 53.30 ft below land-surface datum, Apr. 25, 1986; lowest, 57.35 ft below land-surface datum, Sept. 30, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | | | 54.76 | 54.33 | 53.95 | 53.73 | 53.54 | 54.51 | 56.11 | 56.02 | 56.05 | 55.07 |
| 10 | | | 54.65 | 54.31 | 53.95 | 54.04 | 53.48 | 55.19 | 55.77 | 55.78 | 55.78 | 55.01 |
| 15 | | | 54.59 | 54.23 | 53.86 | 53.89 | 53.42 | 55.26 | 56.18 | 55.51 | 55.55 | 55.96 |
| 20 | | | 54.53 | 54.13 | 53.85 | 53.86 | 53.40 | 54.88 | 56.58 | 55.40 | 55.38 | 56.58 |
| 25 | | | 54.48 | 54.13 | 53.83 | 53.72 | 53.30 | 55.66 | 56.77 | 55.30 | 55.25 | 57.06 |
| EOM | | | 54.40 | 54.02 | 53.80 | 53.63 | 54.08 | 56.17 | 56.21 | 56.49 | 55.15 | 57.35 |

MILLARD COUNTY

393046112231301. LOCAL NUMBER, (C-15-5)15dad-1.

LOCATION.--Lat 39°30'46", long 112°23'13", Hydrologic Unit 16030005.

Owner: Anaconda Copper Co.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 1,190 ft, cased to 1,115 ft, perforated 860-1,050 ft.

DATUM.--Land-surface datum is 4,780 ft above mean sea level. Measuring point: Top of 12-in. casing, 2.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--January 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 99.03 ft below land-surface datum, Apr. 2, 1986; lowest, 174.62 ft below land-surface datum, Aug. 24, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 99.73 | 99.48 | 99.55 | 99.41 | 99.40 | 99.56 | 99.21 | 99.25 | 99.32 | 99.42 | 99.44 | 99.73 |
| 10 | 99.63 | 99.43 | 99.30 | 99.57 | 99.31 | 99.17 | 99.35 | 99.19 | 99.37 | 99.47 | 99.39 | 99.83 |
| 15 | 99.77 | 99.73 | 99.55 | 99.32 | 99.32 | 99.29 | 99.19 | 99.27 | 99.37 | 99.46 | 99.34 | 99.75 |
| 20 | 99.63 | 99.47 | 99.69 | 99.35 | 99.47 | 99.48 | 99.45 | 99.27 | 99.43 | 99.57 | 99.53 | 99.84 |
| 25 | 99.51 | 99.48 | 99.52 | 99.58 | 99.49 | 99.43 | 99.21 | 99.30 | 99.41 | 99.53 | 99.64 | 99.75 |
| EOM | 99.51 | 99.30 | 99.29 | 99.37 | 99.50 | 99.27 | 99.31 | 99.29 | 99.46 | 99.55 | 99.69 | 99.73 |

e Estimated.

GROUND-WATER LEVELS

383

MILLARD COUNTY--Continued

393020112362201. LOCAL NUMBER, (C-15-7)23bac-1.

LOCATION.--Lat 39°30'20", long 112°36'22", Hydrologic Unit 16030007.

Owner: U.S. Geological Survey.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., 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.--Records good.

PERIOD OF RECORD.--August 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.61 ft below land-surface datum, May 26, 1986; lowest, 15.91 ft below land-surface datum, Oct. 16, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|------|------|------|------|-------|-------|-------|------|------|------|------|------|
| 5 | 9.28 | 9.40 | 9.28 | 9.17 | 8.93 | e8.81 | e8.71 | 8.66 | 8.74 | 9.07 | 9.30 | 9.45 |
| 10 | 9.37 | 9.39 | 9.24 | 9.22 | 8.91 | e8.79 | e8.70 | 8.63 | 8.83 | 9.13 | 9.34 | 9.43 |
| 15 | 9.48 | 9.45 | 9.28 | 9.17 | e8.87 | e8.78 | e8.68 | 8.66 | 8.84 | 9.19 | 9.37 | 9.45 |
| 20 | 9.44 | 9.39 | 9.29 | 9.15 | e8.86 | e8.76 | e8.67 | 8.63 | 8.89 | 9.21 | 9.43 | 9.46 |
| 25 | 9.42 | 9.25 | 9.22 | 9.09 | e8.84 | e8.75 | 8.65 | 8.68 | 8.98 | 9.24 | 9.41 | 9.36 |
| EOM | 9.36 | 9.19 | 9.18 | 9.04 | e8.82 | e8.73 | 8.69 | 8.70 | 9.01 | 9.27 | 9.42 | 9.38 |

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 14 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. Recorder removed Oct. 9, 1986.

REMARKS.--Records good.

PERIOD OF RECORD.--April 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.99 ft below land-surface datum, Apr. 12, 1986; lowest, 20.81 ft below land-surface datum, Sept. 21-24, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 5 | 16.04 | 15.91 | 15.72 | e15.51 | 15.28 | e15.14 | 15.02 | 15.08 | 15.34 | 15.57 | 15.99 | 16.03 |
| 10 | 16.00 | e15.88 | e15.70 | e15.47 | 15.25 | e15.11 | 15.01 | 15.10 | 15.41 | 15.64 | 16.01 | 16.02 |
| 15 | 15.94 | e15.85 | e15.67 | e15.43 | 15.21 | e15.10 | 15.00 | 15.11 | 15.43 | 15.71 | 16.02 | 16.00 |
| 20 | 15.88 | e15.81 | e15.63 | e15.40 | e15.19 | e15.08 | 15.02 | 15.14 | 15.44 | 15.80 | 16.03 | 15.97 |
| 25 | 15.88 | e15.77 | e15.59 | e15.36 | e15.17 | e15.06 | 15.03 | 15.20 | 15.41 | 15.88 | 16.04 | 15.92 |
| EOM | 15.92 | 15.73 | e15.55 | e15.32 | e15.16 | e15.04 | 15.06 | 15.27 | 15.51 | 15.96 | 16.04 | 15.89 |

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.--Records 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 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| 5 | 7.12 | 5.03 | 4.24 | 3.89 | 3.87 | 4.07 | 4.97 | 9.55 | 11.20 | 12.92 | 15.16 | 15.07 |
| 10 | 6.95 | 4.88 | 4.13 | 3.99 | 3.87 | 3.95 | 5.70 | 7.65 | 12.27 | 14.22 | 16.05 | 12.32 |
| 15 | 6.05 | 4.77 | 4.29 | 3.87 | 3.83 | 4.01 | 5.81 | 8.55 | 13.41 | 15.68 | 14.17 | 11.21 |
| 20 | 5.69 | 4.47 | 4.26 | 3.87 | 3.99 | 4.24 | 5.65 | 7.42 | 14.78 | 14.17 | 17.00 | 11.29 |
| 25 | 5.34 | 4.35 | 4.12 | 3.87 | 4.00 | 4.13 | 8.69 | 7.41 | 15.38 | 14.34 | 12.77 | 10.46 |
| EOM | 5.16 | 4.15 | 3.91 | 3.87 | 3.95 | 4.83 | 9.88 | 8.89 | 13.36 | 14.94 | 14.20 | 8.97 |

e Estimated.

GROUND-WATER LEVELS

MILLARD COUNTY--Continued

384906112330601. LOCAL NUMBER, (C-23-6)17baa-1.

LOCATION.--Lat 38°49'06", long 112°33'06", Hydrologic Unit 16030005.

Owner: Boyd Watts.

AQUIFER.--

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 18 in., depth 262 ft, cased to 140 ft.

DATUM.--Land-surface datum is 4,711.00 ft above mean sea level. Measuring point: Top of casing, 2.0 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--June 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 29.92 ft below land-surface datum, Sept. 30, 1986; lowest, 54.03 ft below land-surface datum, Sept. 6, 1979.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 33.19 | 32.64 | 32.38 | 32.00 | 31.58 | 31.49 | 31.19 | 33.19 | 34.89 | 36.31 | 33.38 | 31.15 |
| 10 | 33.07 | 32.42 | 32.22 | 32.03 | 31.60 | 31.26 | 31.95 | 32.23 | 34.28 | 36.25 | 33.72 | 31.26 |
| 15 | 32.90 | 32.64 | 32.32 | 31.82 | 31.49 | 31.28 | 32.19 | 32.34 | 35.15 | 34.66 | 32.94 | 30.55 |
| 20 | 32.77 | 32.33 | 32.27 | 31.71 | 31.56 | 31.52 | 32.86 | 32.32 | 35.23 | 33.82 | 32.42 | 30.29 |
| 25 | 32.81 | 32.26 | 32.17 | 31.96 | 31.60 | 31.30 | 32.88 | 32.44 | 35.91 | 33.58 | 31.35 | 30.04 |
| EOM | 32.70 | 32.17 | 32.07 | 31.70 | 31.50 | 31.22 | 33.15 | 34.08 | 35.98 | 33.31 | 30.97 | 29.92 |

SALT LAKE COUNTY

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.--Records 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 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 85.08 | 83.50 | 76.65 | 70.05 | 66.77 | 65.18 | 63.81 | 63.07 | 70.33 | 76.49 | 70.85 | 68.26 |
| 10 | 85.00 | 83.13 | 75.14 | 69.46 | 66.43 | 64.78 | 63.67 | 62.87 | 71.86 | 75.63 | 70.37 | 68.04 |
| 15 | 85.04 | 83.39 | 73.95 | 68.77 | 66.05 | 64.55 | 63.52 | 62.84 | 73.10 | 74.21 | 69.97 | 67.78 |
| 20 | 85.01 | 81.60 | 72.87 | e68.30 | 65.77 | 64.51 | 63.50 | 64.17 | 74.23 | 73.14 | 69.63 | 67.59 |
| 25 | 85.02 | 80.19 | 71.89 | e67.80 | 65.30 | 64.30 | 63.28 | 66.05 | 75.21 | 72.26 | 69.22 | 66.92 |
| EOM | 85.01 | 78.29 | 70.82 | e67.20 | 64.98 | 64.10 | 63.24 | 68.46 | 76.00 | 71.42 | 68.61 | 66.30 |

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.--Records 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 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|
| 5 | 51.62 | 51.88 | 52.32 | 52.65 | 52.85 | 52.79 | 52.17 | 50.76 | e49.00 | 48.59 | 48.89 | 49.32 |
| 10 | 51.65 | 51.94 | 52.38 | 52.70 | 52.87 | 52.72 | 52.01 | 50.53 | 48.78 | 48.60 | 48.97 | 49.35 |
| 15 | 51.69 | 52.01 | 52.46 | 52.73 | 52.89 | 52.69 | 51.82 | e50.26 | 48.63 | 48.63 | 49.09 | 49.38 |
| 20 | 51.73 | 52.12 | 52.51 | 52.75 | 52.81 | 52.67 | 51.55 | e49.95 | 48.58 | 48.69 | 49.20 | 49.44 |
| 25 | 51.78 | 52.18 | 52.56 | 52.77 | 52.83 | 52.51 | 51.28 | e49.66 | 48.55 | 48.72 | 49.22 | 49.47 |
| EOM | 51.83 | 52.25 | 52.60 | 52.80 | 52.80 | 52.35 | 51.04 | e49.30 | 48.56 | 48.79 | 49.28 | 49.51 |

e Estimated.

GROUND-WATER LEVELS

385

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.--Records 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 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5 | 550.87 | 546.71 | 543.60 | 541.43 | 539.74 | 539.27 | 538.80 | 539.53 | 543.92 | 552.90 | 555.91 | 556.36 |
| 10 | 550.03 | 545.73 | 543.04 | 541.42 | 539.60 | 538.75 | 538.74 | 539.81 | 545.14 | 554.04 | 556.56 | 556.03 |
| 15 | 549.40 | 545.62 | 542.98 | 540.77 | 539.21 | 538.88 | 538.58 | 540.18 | 546.24 | 555.00 | 557.11 | 554.95 |
| 20 | 548.47 | 544.68 | 542.66 | 540.44 | 539.21 | 539.36 | 539.18 | 540.58 | 548.08 | 555.45 | 557.82 | 554.41 |
| 25 | 547.95 | 544.03 | 542.23 | 540.71 | 539.37 | 539.03 | 538.99 | 541.41 | 549.90 | 555.25 | 556.87 | 553.56 |
| EOM | 547.21 | 543.52 | 541.73 | 540.02 | 539.23 | 538.91 | 539.45 | 542.63 | 551.41 | 555.34 | 556.62 | 553.04 |

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.--Records 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 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5 | 166.22 | 165.82 | 165.69 | 165.40 | 164.80 | 164.85 | 164.35 | 164.05 | 164.10 | 164.34 | 164.93 | 165.02 |
| 10 | 165.96 | 165.53 | 165.26 | 165.54 | 164.70 | 164.40 | 164.31 | 164.03 | 164.18 | 164.54 | 165.05 | 164.74 |
| 15 | 166.16 | 165.85 | 165.63 | 165.20 | 164.70 | 164.37 | 164.32 | 163.98 | 164.27 | 164.67 | 164.96 | 164.90 |
| 20 | 166.07 | 165.59 | 165.67 | 165.07 | 164.64 | 164.69 | 164.43 | 164.06 | 164.28 | 164.84 | 165.12 | 164.78 |
| 25 | 166.02 | 165.45 | 165.53 | 165.26 | 164.99 | 164.54 | 163.98 | 164.15 | 164.44 | 164.83 | 165.03 | 164.56 |
| EOM | 165.68 | 165.12 | 165.35 | 165.03 | 164.90 | 164.51 | 164.14 | 164.10 | 164.41 | 164.82 | 164.97 | 164.71 |

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.--Records good.

PERIOD OF RECORD.--October 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 38.04 ft below land-surface datum, July 31, Aug. 8, 1986; lowest, 57.23 ft below land-surface datum, Oct. 20, 1960.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 39.22 | 39.22 | 39.63 | 39.70 | 39.45 | 39.95 | 39.99 | 39.60 | 38.68 | 38.15 | 38.06 | 38.48 |
| 10 | 39.04 | 39.05 | 39.22 | 39.93 | 39.53 | 39.56 | 39.96 | 39.52 | 38.70 | 38.17 | 38.09 | 38.28 |
| 15 | 39.34 | 39.52 | 39.74 | 39.60 | 39.60 | 39.68 | 40.03 | 39.33 | 38.47 | 38.15 | 38.10 | 38.52 |
| 20 | 39.26 | 39.29 | 39.80 | 39.49 | 39.60 | 40.15 | 40.21 | 39.24 | 38.37 | 38.27 | 38.33 | 38.54 |
| 25 | 39.30 | 39.20 | 39.68 | 39.84 | 40.02 | 39.98 | 39.80 | 39.16 | 38.37 | 38.16 | 38.28 | 38.45 |
| EOM | 38.98 | 38.90 | 39.58 | 39.62 | 39.95 | 40.01 | 39.98 | 38.80 | 38.27 | 38.04 | 38.33 | 38.72 |

GROUND-WATER LEVELS

TOOELE COUNTY

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.--Records 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 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 82.19 | 82.42 | 82.73 | 83.01 | 83.33 | 83.71 | 83.98 | 83.37 | 82.93 | 84.98 | 85.42 | 84.87 |
| 10 | 82.26 | 82.36 | 82.76 | 83.16 | 83.44 | 83.67 | 83.91 | 82.94 | 82.78 | 85.08 | 85.48 | 84.90 |
| 15 | 82.32 | 82.55 | 82.88 | 83.17 | 83.39 | 83.75 | 83.85 | 82.81 | 83.12 | 85.18 | 85.60 | 84.93 |
| 20 | 82.26 | 82.47 | 82.95 | 83.25 | 83.54 | 83.91 | 83.91 | 82.45 | 83.74 | 85.41 | 85.58 | 84.91 |
| 25 | 82.36 | 82.50 | 82.98 | 83.33 | 83.63 | 83.97 | 83.81 | 82.63 | 84.08 | 85.35 | 85.16 | 84.70 |
| EOM | 82.37 | 82.60 | 83.03 | 83.33 | 83.64 | 83.99 | 83.80 | 82.71 | 84.66 | 85.38 | 84.98 | 84.53 |

401312112442301. LOCAL NUMBER, (C-7-8)10cbd-1.

LOCATION.--Lat 40°13'12", long 112°44'23", Hydrologic Unit 16020305.

Owner: Dugway Proving Ground.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., 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.--Records 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 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 78.07 | 77.69 | 77.38 | 77.19 | 76.73 | 76.65 | 76.45 | 76.14 | 76.38 | 77.07 | 77.31 | 77.52 |
| 10 | 78.06 | 77.48 | 77.26 | 77.12 | 76.78 | 76.49 | 76.33 | 76.15 | 76.58 | 77.15 | 77.34 | 77.54 |
| 15 | 78.01 | 77.63 | 77.36 | 76.94 | 76.66 | 76.50 | 76.28 | 76.17 | 76.62 | 77.15 | 77.40 | 77.43 |
| 20 | 77.85 | 77.41 | 77.26 | 76.86 | 76.75 | 76.68 | 76.38 | 76.10 | 76.78 | 77.17 | 77.47 | 77.46 |
| 25 | 77.83 | 77.34 | 77.18 | 77.06 | 76.74 | 76.55 | 76.21 | 76.24 | 76.79 | 77.18 | 77.45 | 77.38 |
| EOM | 77.75 | 77.31 | 77.17 | 76.85 | 76.65 | 76.45 | 76.28 | 76.21 | 76.92 | 77.28 | 77.48 | 77.37 |

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.--Records 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 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| 5 | 5.80 | 5.95 | 6.00 | 6.33 | 6.26 | 5.43 | 5.68 | 6.11 | 4.10 | 5.40 | 4.71 | 5.36 |
| 10 | 5.40 | 5.89 | 6.06 | 6.37 | 6.33 | 5.26 | 5.92 | 5.23 | 3.79 | 5.49 | 4.63 | 5.24 |
| 15 | 5.53 | 5.59 | 6.14 | 6.40 | 6.25 | 5.23 | 6.01 | 5.78 | 4.55 | 4.65 | 4.84 | 5.59 |
| 20 | 5.75 | 5.85 | 6.20 | 6.34 | 4.16 | 5.37 | 5.76 | 5.92 | 4.78 | 4.20 | 5.02 | 5.72 |
| 25 | 5.76 | 5.92 | 6.24 | 6.39 | 5.04 | 5.69 | 5.73 | 5.82 | 5.06 | 3.98 | 5.01 | 5.12 |
| EOM | 5.82 | 6.01 | 6.30 | 6.36 | 5.19 | 5.95 | 5.98 | 5.03 | 5.21 | 4.67 | 4.88 | 5.51 |

GROUND-WATER LEVELS

387

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.--Records 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 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5 | 114.38 | 114.18 | 114.04 | 113.85 | 113.58 | 113.60 | 113.35 | 113.25 | 113.24 | 113.25 | 113.21 | 113.22 |
| 10 | 114.29 | 114.06 | 113.91 | 113.87 | 113.58 | 113.40 | 113.38 | 113.23 | 113.31 | 113.27 | 113.19 | 113.16 |
| 15 | 114.33 | 114.17 | 114.01 | 113.73 | 113.49 | 113.42 | 113.37 | 113.27 | 113.25 | 113.23 | 113.17 | 113.13 |
| 20 | 114.26 | 114.06 | 114.05 | 113.69 | 113.49 | 113.54 | 113.40 | 113.23 | 113.25 | 113.26 | 113.05 | 113.10 |
| 25 | 114.24 | 113.95 | 113.98 | 113.78 | 113.64 | 113.48 | 113.26 | 113.29 | 113.26 | 113.24 | 113.14 | 112.99 |
| EOM | 114.18 | 113.88 | 113.86 | 113.56 | 113.60 | 113.44 | 113.32 | 113.26 | 113.24 | 113.23 | 113.18 | 113.06 |

402333111513401. LOCAL NUMBER, (D-5-1)8dcc-1.

LOCATION.--Lat 40°23'33", long 111°51'34", Hydrologic Unit 16020201.

Owner: Lehl 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.--Records 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 LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|------|------|------|-------|-------|-------|------|
| 5 | 4.43 | e3.80 | e3.50 | e2.95 | e2.14 | 2.34 | 2.74 | 3.33 | 9.71 | 12.06 | 10.35 | 5.70 |
| 10 | e4.10 | e3.75 | 3.57 | e2.90 | e2.05 | 2.50 | 2.69 | 2.52 | 9.72 | 11.62 | 10.42 | 5.45 |
| 15 | e4.05 | e3.70 | 3.53 | e2.85 | e2.15 | 2.46 | 2.82 | 2.51 | 10.74 | 11.78 | 10.35 | 6.22 |
| 20 | e4.00 | e3.65 | 3.64 | 2.82 | e2.25 | 2.54 | 2.50 | 4.33 | 11.62 | 10.07 | 10.23 | 5.29 |
| 25 | e3.95 | e3.60 | 3.35 | 2.67 | 2.34 | 2.62 | 2.83 | 6.19 | 12.38 | 7.92 | 7.57 | 3.92 |
| EOM | e3.90 | e3.55 | e3.00 | 2.40 | 2.36 | 3.54 | 2.27 | 8.61 | 12.46 | 9.65 | 6.60 | 2.90 |

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.--Records 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, 233.90 ft below land-surface datum, Sept. 11, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|---------|--------|
| 5 | 231.87 | 230.83 | 228.99 | 227.30 | 226.12 | e225.66 | 226.51 | 226.92 | 229.33 | 231.29 | e232.73 | 233.73 |
| 10 | 231.93 | 230.62 | 228.66 | 227.14 | 225.98 | e225.68 | 226.32 | 227.39 | 229.70 | 231.58 | e232.91 | 233.82 |
| 15 | 231.51 | 230.49 | 228.40 | 226.94 | 225.97 | e225.71 | 226.32 | 227.64 | 229.81 | 231.76 | e233.08 | 233.81 |
| 20 | 231.21 | 230.09 | 228.01 | 226.59 | 225.60 | e225.73 | 226.32 | 228.14 | 230.31 | 232.27 | e233.25 | 233.66 |
| 25 | 231.11 | 229.62 | 227.79 | 226.66 | e225.62 | 225.80 | 226.32 | 228.62 | 230.60 | 232.35 | 233.42 | 233.54 |
| EOM | 230.94 | 229.48 | 227.48 | 226.31 | e225.64 | 226.23 | 226.61 | 228.82 | 230.80 | 232.55 | 233.61 | 233.47 |

e Estimated.

GROUND-WATER LEVELS

WASHINGTON COUNTY--Continued

370231113320301. LOCAL NUMBER, (C-43-15)16dac-1.

LOCATION.--Lat 37°02'31", long 113°32'03", Hydrologic Unit 15010009.

Owner: Kent Bentley.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 14 in., depth unknown.

DATUM.--Land-surface datum is 2,678.00 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--September 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 41.80 ft below land-surface datum, Apr. 25, 1986; lowest, 42.80 ft below land-surface datum, Sept. 27, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 41.84 | 42.14 | 42.11 | 42.28 | 42.10 | 42.14 | 41.92 | 41.82 | 42.11 | 42.54 | 42.56 | 42.67 |
| 10 | 42.03 | 42.00 | 42.10 | 42.32 | 42.15 | 42.03 | 41.91 | 41.85 | 42.24 | 42.56 | 42.60 | 42.68 |
| 15 | 41.98 | 42.15 | 42.21 | 42.27 | 42.07 | 42.05 | 41.89 | 41.90 | 42.24 | 42.58 | 42.61 | 42.73 |
| 20 | 41.99 | 42.22 | 42.23 | 42.22 | 42.15 | 42.21 | 41.93 | 41.88 | 42.34 | 42.64 | 42.71 | 42.69 |
| 25 | 42.10 | 42.16 | 42.24 | 42.32 | 42.16 | 42.04 | 41.80 | 41.99 | 42.36 | 42.59 | 42.66 | 42.72 |
| EOM | 42.12 | 42.05 | 42.25 | 42.18 | 42.12 | 41.97 | 41.93 | 42.00 | 42.46 | 42.52 | 42.65 | 42.74 |

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.--Records good.

PERIOD OF RECORD.--January 1956 to March 1966, October 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.93 ft below land-surface datum, June 5, 1985; lowest, 34.96 ft below land-surface datum, Nov. 30, 1956.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 18.15 | 21.11 | 19.18 | 18.96 | 17.55 | 14.04 | 18.59 | 15.16 | 16.10 | 13.18 | 14.16 | 15.61 |
| 10 | 17.03 | 21.19 | 18.75 | 18.83 | 17.61 | 13.54 | 18.32 | 14.81 | 11.51 | 13.26 | 14.82 | 16.03 |
| 15 | 20.95 | 21.07 | 20.69 | 18.64 | 17.40 | 14.04 | 18.47 | 15.12 | 11.95 | 13.66 | 15.54 | 15.59 |
| 20 | 20.69 | 20.60 | 20.80 | 18.25 | 12.67 | 15.26 | 19.03 | 17.54 | 13.02 | 13.71 | 17.20 | 16.09 |
| 25 | 21.24 | 20.26 | 19.55 | 18.53 | 12.77 | 16.81 | 18.20 | 16.08 | 12.81 | 11.93 | 14.77 | 17.88 |
| EOM | 20.88 | 20.31 | 19.21 | 18.10 | 13.23 | 20.07 | 16.69 | 16.26 | 13.06 | 14.64 | 15.54 | 17.51 |

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.--Records 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 ft below land-surface datum, Sept. 10, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MINIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-------|------|------|------|-------|------|------|-------|-------|------|------|-------|
| 5 | 6.94 | 6.04 | 5.31 | 4.97 | e4.35 | 4.22 | 3.71 | 3.14 | e2.96 | 3.80 | 4.87 | 5.44 |
| 10 | e6.80 | 5.80 | 5.19 | 4.92 | e4.18 | 4.09 | 3.68 | e3.03 | 3.04 | 4.11 | 5.00 | 5.32 |
| 15 | e6.65 | 5.67 | 5.19 | 4.78 | e4.02 | 4.08 | 3.58 | e2.94 | 3.11 | 4.30 | 5.13 | 5.17 |
| 20 | e6.50 | 5.52 | 5.15 | 4.69 | e4.08 | 3.97 | 3.58 | e2.86 | 3.18 | 4.47 | 5.28 | 4.97 |
| 25 | e6.35 | 5.39 | 5.09 | 4.68 | 4.12 | 3.82 | 3.38 | e2.78 | 3.34 | 4.57 | 5.33 | e4.66 |
| EOM | 6.14 | 5.30 | 5.00 | 4.52 | 4.15 | 3.82 | 3.28 | e2.87 | 3.53 | 4.74 | 5.40 | e4.32 |

e Estimated.

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| STATION NUMBER | LOCAL IDENTIFIER | GEOLOGIC UNIT | TOTAL DEPTH OF WELL (FT) | DATE OF SAMPLE | SPECIFIC CONDUCTANCE (MICRO-MHOS) | PH (UNITS) | TEMPERATURE (DEG C) | HARDNESS (CA, MG/L) | NON-CARBONATE HARDNESS (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | DISSOLVED MAGNESIUM (MG/L) |
|------------------|------------------|---------------|--------------------------|----------------|-----------------------------------|------------|---------------------|---------------------|-------------------------------|-------------------------------|----------------------------|
| BEAVER COUNTY | | | | | | | | | | | |
| 382336112592601 | (C-28-10) 8AAD- | 1 | 200 | 07-10-86 | 1540 | 7.4 | 15.0 | 530 | 350 | 140 | 44 |
| 382019112591701 | (C-28-10) 28CCC- | 1 | 100VLFL | 07-09-86 | 910 | 7.6 | 17.0 | 340 | 220 | 70 | 41 |
| 382020113015701 | (C-28-11) 25DCD- | 1 | 100VLFL | 07-11-86 | 2260 | 7.0 | 15.0 | 1100 | 780 | 300 | 77 |
| 381625112412901 | (C-29- 7) 19BCD- | 1 | 100VLFL | 08-06-86 | 445 | 7.0 | 12.5 | 160 | -- | 48 | 9.3 |
| 381516112422201 | (C-29- 8) 25CAC- | 1 | 100VLFL | 07-09-86 | 295 | - | 19.5 | -- | -- | -- | -- |
| 381835113000001 | (C-29-10) 5CDD- | 2 | 100VLFL | 07-08-86 | 880 | 7.3 | 13.5 | 430 | 170 | 130 | 26 |
| 381901113014101 | (C-29-11) 1ADD- | 1 | 100VLFL | 07-09-86 | 790 | 7.3 | 15.0 | 340 | 140 | 100 | 21 |
| 381700113033401 | (C-29-11) 14CDB- | 1 | 100VLFL | 07-08-86 | 410 | 7.7 | 17.5 | 150 | 47 | 41 | 11 |
| 381543113035501 | (C-29-11) 27AAD- | 1 | 100VLFL | 07-08-86 | 830 | 7.4 | 14.5 | 300 | 120 | 90 | 18 |
| BOX ELDER COUNTY | | | | | | | | | | | |
| 412214112023301 | (B- 7- 2) 2CBA- | 5 | 100VLFL | 09-02-86 | 440 | - | 12.5 | -- | -- | -- | -- |
| 412405112022501 | (B- 8- 2) 26BCD- | 1 | 100VLFL | 09-02-86 | 450 | - | 12.5 | -- | -- | -- | -- |
| 413300113543001 | (B-10-18) 33AAA- | 1 | 84 | 08-13-86 | 3190 | 7.6 | 11.0 | -- | -- | -- | -- |
| 413306113543801 | (B-10-18) 33ABA- | 1 | 100VLFL | 08-13-86 | 2140 | - | 11.0 | -- | -- | -- | -- |
| 413806113543401 | (B-11-18) 33ADB- | 1 | 200 | 08-13-86 | 980 | 7.4 | 8.5 | -- | -- | -- | -- |
| 414452112173401 | (B-12- 4) 27BDB- | 1 | 500 | 06-04-86 | 1270 | - | 17.5 | -- | -- | -- | -- |
| 414454112173101 | (B-12- 4) 27DBD- | 1 | 478 | 06-04-86 | 1660 | - | 15.5 | -- | -- | -- | -- |
| 414405112165701 | (B-12- 4) 34ADB- | 1 | 333 | 06-04-86 | 2510 | - | 16.0 | -- | -- | -- | -- |
| 414339112173401 | (B-12- 4) 34CCA- | 1 | 100VLFL | 06-04-86 | 1760 | - | 16.5 | -- | -- | -- | -- |
| 414745113063901 | (B-12-11) 4BCC- | 1 | 100VLFL | 07-22-86 | 3450 | 7.7 | 18.0 | 800 | 630 | 170 | 90 |
| 414813113075401 | (B-12-11) 5BBB- | 1 | 100VLFL | 07-22-86 | 1740 | - | 14.5 | -- | -- | -- | -- |
| 414747113073701 | (B-12-11) 5BDC- | 1 | 190 | 07-22-86 | 2830 | - | 15.0 | -- | -- | -- | -- |
| 414811113081701 | (B-12-11) 6ABA- | 1 | 150 | 07-22-86 | 760 | - | 15.5 | -- | -- | -- | -- |
| 414720113071601 | (B-12-11) 8ABB- | 1 | 275 | 07-22-86 | 2280 | - | 14.0 | -- | -- | -- | -- |
| 414458113272401 | (B-12-14) 21CAB- | 1 | 250 | 08-06-86 | 730 | - | 12.5 | -- | -- | -- | -- |
| 414439113274201 | (B-12-14) 21CCC- | 1 | 100VLFL | 08-06-86 | 460 | - | 15.5 | -- | -- | -- | -- |
| 414437113272201 | (B-12-14) 21CDC- | 1 | 100VLFL | 08-06-86 | 620 | - | 13.0 | -- | -- | -- | -- |
| 414434113271701 | (B-12-14) 28BAB- | 1 | 375 | 08-06-86 | 570 | - | 14.5 | -- | -- | -- | -- |
| 414553113301201 | (B-12-15) 13ADD- | 1 | 168 | 08-06-86 | 670 | - | 12.5 | -- | -- | -- | -- |
| 415721112262301 | (B-14- 5) 8DDD- | 1 | 105 | 07-22-86 | 740 | 7.5 | 11.0 | 270 | -- | 84 | 14 |
| 415800112462601 | (B-14- 8) 5CDD- | 1 | 180 | 06-04-86 | 2100 | - | 16.0 | -- | -- | -- | -- |
| 415825112470501 | (B-14- 8) 6ADD- | 1 | 460 | 06-05-86 | 2080 | - | 20.0 | -- | -- | -- | -- |
| 415737112431601 | (B-14- 8) 11BCA- | 1 | 100VLFL | 08-10-86 | 2850 | 7.5 | 11.5 | 750 | 500 | 170 | 80 |
| 415800112525301 | (B-14- 9) 4CCC- | 1 | 100VLFL | 08-09-86 | 3320 | - | 21.0 | -- | -- | -- | -- |
| 415847112532901 | (B-14- 9) 5BAA- | 1 | 100VLFL | 07-02-86 | 1080 | - | 19.0 | -- | -- | -- | -- |
| 415847112540401 | (B-14- 9) 5BBB- | 1 | 100VLFL | 06-06-86 | 720 | - | 16.5 | -- | -- | -- | -- |
| 415759112534701 | (B-14- 9) 5CCD- | 1 | 100VLFL | 08-09-86 | 2590 | - | 17.0 | -- | -- | -- | -- |
| 415754112551301 | (B-14- 9) 7BBB- | 1 | 608 | 06-06-86 | 780 | - | 19.0 | -- | -- | -- | -- |
| 415703112513501 | (B-14- 9) 16AAA- | 1 | 400 | 06-05-86 | 2240 | - | 14.0 | -- | -- | -- | -- |
| 415637112544101 | (B-14- 9) 18BDD- | 1 | 400 | 08-09-86 | 1760 | - | 17.0 | -- | -- | -- | -- |
| 415845112554801 | (B-14-10) 1ABB- | 1 | 100VLFL | 08-06-86 | 650 | - | 16.5 | -- | -- | -- | -- |
| 415845112562201 | (B-14-10) 1BBB- | 1 | 100VLFL | 06-06-86 | 525 | - | 16.0 | -- | -- | -- | -- |
| 415723112562201 | (B-14-10) 12CBB- | 1 | 395 | 08-09-86 | 1040 | - | 17.5 | -- | -- | -- | -- |
| 415654112573301 | (B-14-10) 14BBC- | 1 | 100VLFL | 08-07-86 | 1210 | - | 23.0 | -- | -- | -- | -- |
| 415605112570401 | (B-14-10) 23BBB- | 1 | 840 | 08-09-86 | 1300 | - | 19.5 | -- | -- | -- | -- |
| 415850112481201 | (B-15- 8) 31CCC- | 1 | 550 | 07-22-86 | 1440 | 7.6 | 19.5 | 400 | 240 | 91 | 43 |
| 415955112540301 | (B-15- 9) 29CBC- | 1 | 400 | 08-10-86 | 3760 | - | 21.5 | -- | -- | -- | -- |
| 415927112543801 | (B-15- 9) 31ABC- | 1 | 100VLFL | 07-21-86 | 600 | - | 17.0 | -- | -- | -- | -- |
| 415941112495801 | (B-15- 9) 35ABB- | 1 | 404 | 06-25-86 | 2650 | - | 23.0 | -- | -- | -- | -- |
| 415908112484801 | (B-15- 9) 36CAD- | 1 | 255 | 06-05-86 | 1440 | - | 19.5 | -- | -- | -- | -- |
| 415954112555201 | (B-15-10) 25CAD- | 1 | -- | 07-02-86 | 510 | - | 15.5 | -- | -- | -- | -- |
| 415939112562201 | (B-15-10) 36BBB- | 1 | 613 | 06-06-86 | 450 | 7.5 | 16.0 | -- | -- | -- | -- |
| CACHE COUNTY | | | | | | | | | | | |
| 414216111511001 | (A-11- 1) 8DDA- | 3 | 100VLFL | 03-14-86 | 500 | - | 10.5 | 270 | 75 | 64 | 26 |

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
 110ALVM - QUATERNARY ALLUVIUM, QUATERNARY AGE.
 111ALVM - HOLOCENE ALLUVIUM, HOLOCENE AGE.
 112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

391

| DIS- SOLVED SODIUM (NA) (MG/L) | DIS- SOLVED PO- TAS- SIUM (K) (MG/L) | ALKA- LINITY (CACO3) (MG/L) | DIS- SOLVED SULFATE (SO4) (MG/L) | DIS- SOLVED CHLO- RIDE (CL) (MG/L) | DIS- SOLVED FLUO- RIDE (F) (MG/L) | DIS- SOLVED SILICA (SIO2) (MG/L) | DIS- SOLVED (SUM OF CONSTI- TUENTS) (MG/L) | DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) | DIS- SOLVED PHOS- PHORUS (P) (MG/L) | DIS- SOLVED IRON (FE) (UG/L) | DIS- SOLVED MAN- GANESE (MN) (UG/L) | DIS- SOLVED BORON (B) (UG/L) |
|--|--|--------------------------------------|--|---|--|--|---|---|--|--|--|--|
| BEAVER COUNTY | | | | | | | | | | | | |
| 130 | 5.2 | 179 | 430 | 180 | 0.5 | 38 | 1100 | 1.30 | 0.01 | 11 | 1 | 650 |
| 56 | 3.9 | 127 | 190 | 120 | 0.5 | 34 | 590 | 1.80 | 0.01 | 10 | <1 | 150 |
| 100 | 11 | 282 | 700 | 250 | 0.2 | 46 | 1700 | 3.70 | 0.03 | 30 | <10 | 210 |
| 28 | 5.6 | 161 | 36 | 19 | 0.9 | 42 | 290 | 2.40 | 0.02 | 7 | 3 | 70 |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 30 | 5.3 | 263 | 110 | 91 | 0.3 | 34 | 580 | 4.20 | 0.04 | 4 | <1 | 80 |
| 36 | 5.2 | 201 | 79 | 110 | 0.3 | 37 | 510 | 2.30 | 0.30 | 10 | <1 | 70 |
| 26 | 4.9 | 101 | 47 | 41 | 0.5 | 42 | 270 | 1.90 | 0.02 | 8 | 1 | 80 |
| 57 | 6.4 | 174 | 87 | 130 | 0.4 | 41 | 530 | 3.60 | 0.03 | 14 | 3 | 130 |
| BOX ELDER COUNTY | | | | | | | | | | | | |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 350 | 22 | 170 | 52 | 1100 | 0.3 | 47 | 1900 | 0.80 | 0.01 | 30 | <10 | 240 |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 64 | 1.6 | 271 | 28 | 23 | 0.1 | 36 | 410 | 29.0 | 0.04 | 68 | 4 | 100 |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 300 | 20 | 257 | 300 | 660 | 0.7 | 48 | 1700 | 1.00 | 0.03 | 50 | <10 | 140 |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 120 | 4.6 | 160 | 30 | 380 | 0.2 | 19 | 780 | 0.35 | <0.01 | 5 | <1 | 50 |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CACHE COUNTY | | | | | | | | | | | | |
| 6.6 | 1.9 | 192 | 18 | 7.0 | 0.1 | 9.1 | 250 | 0.62 | 0.02 | 10 | 1 | -- |

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-TRIASSIC AGE.

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| STATION NUMBER | LOCAL IDENTIFIER | GEOLOGIC UNIT | TOTAL DEPTH OF WELL (FT) | DATE OF SAMPLE | SPECIFIC CONDUCTANCE (MICRO-MHOS) | PH (UNITS) | TEMPERATURE (DEG C) | HARDNESS (CA, MG) (MG/L) | NON-CARBONATE HARDNESS (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) |
|-----------------|------------------|---------------|--------------------------|----------------|-----------------------------------|------------|---------------------|--------------------------|-------------------------------|-------------------------------|---------------------------------|
| DAVIS COUNTY | | | | | | | | | | | |
| 405535111525101 | (A- 2- 1) 7ABA- | 4 | 100VLFL | 450 | 09-08-86 | 280 | - | 17.0 | -- | -- | -- |
| 405019111560001 | (B- 1- 1) 10AAC- | 1 | 231 | 09-05-86 | 2730 | - | 17.0 | -- | -- | -- | -- |
| 405258111544101 | (B- 2- 1) 26AAD- | 3 | 100VLFL | -- | 09-08-86 | 910 | - | 11.5 | -- | -- | -- |
| 405305111550001 | (B- 2- 1) 26ABA- | 1 | 100VLFL | 300 | 09-08-86 | 880 | - | 14.5 | -- | -- | -- |
| 410430112054001 | (B- 4- 2) 17CDD- | 1 | 100VLFL | 583 | 09-04-86 | 470 | - | 16.5 | -- | -- | -- |
| 410340112030001 | (B- 4- 2) 27ABA- | 1 | 100VLFL | 304 | 09-04-86 | 720 | - | 13.5 | -- | -- | -- |
| | | | 304 | 09-23-86 | 680 | - | 13.5 | -- | -- | -- | -- |
| 410830111584001 | (B- 5- 1) 29BDC- | 1 | 627 | 09-23-86 | 560 | - | 12.0 | -- | -- | -- | -- |
| 410835111591501 | (B- 5- 1) 30ADA- | 1 | 900 | 09-08-86 | 600 | - | 12.0 | -- | -- | -- | -- |
| GARFIELD COUNTY | | | | | | | | | | | |
| 375924112234001 | (C-32- 5) 35BAB- | 1 | 456 | 08-13-86 | 310 | 7.9 | 17.0 | 120 | 2 | 35 | 7.9 |
| GRAND COUNTY | | | | | | | | | | | |
| 383539109340901 | (D-25-21) 26DCC- | 1 | 112ALVM | 55 | 03-04-86 | 590 | - | 17.0 | -- | -- | -- |
| | | | 112ALVM | 55 | 09-03-86 | 600 | - | 24.0 | -- | -- | -- |
| IRON COUNTY | | | | | | | | | | | |
| 375257112483501 | (C-33- 8) 31CCC- | 2 | 450 | 06-13-86 | 530 | - | 17.0 | -- | -- | -- | -- |
| 375151112525002 | (C-34- 9) 9BBD- | 2 | 324 | 07-10-86 | 620 | 7.5 | 12.0 | 260 | 28 | 55 | 31 |
| 375006112554801 | (C-34-10) 24ABC- | 1 | 135 | 07-10-86 | 590 | 7.4 | 13.5 | 260 | 37 | 50 | 33 |
| 374834113384301 | (C-34-16) 28DCC- | 2 | 100VLFL | 148 | 06-12-86 | 1040 | 7.6 | 13.0 | 420 | 290 | 130 |
| 374753113464601 | (C-34-17) 32CCA- | 1 | 100VLFL | 306 | 06-12-86 | 560 | - | 19.5 | -- | -- | -- |
| 374619113053101 | (C-35-11) 9DBA- | 1 | -- | 06-27-86 | 610 | 8.1 | 18.0 | 300 | 150 | 60 | 37 |
| 374248113075201 | (C-35-11) 31DBB- | 1 | -- | 06-27-86 | 620 | 7.6 | 15.0 | 310 | 160 | 62 | 38 |
| 374304113052901 | (C-35-11) 33AAC- | 1 | 136 | 06-13-86 | 1090 | 7.4 | 11.0 | -- | -- | -- | -- |
| 374649113305801 | (C-35-15) 3DCC- | 3 | 316 | 06-12-86 | 1770 | - | 14.0 | -- | -- | -- | -- |
| 374623113381301 | (C-35-16) 9ADD- | 1 | 150 | 07-11-86 | 930 | - | 12.0 | -- | -- | -- | -- |
| 374412113384503 | (C-35-16) 21DCC- | 3 | 100VLFL | 300 | 06-12-86 | 480 | - | 14.0 | -- | -- | -- |
| 374227113394101 | (C-35-16) 32DCD- | 1 | 100VLFL | 140 | 07-10-86 | 1530 | 7.3 | 13.0 | 660 | 320 | 200 |
| 374105113084901 | (C-36-12) 12DBA- | 1 | 600 | 06-24-86 | 590 | 7.4 | 15.0 | 270 | 120 | 53 | 34 |
| 374209113322203 | (C-36-15) 4BAD- | 3 | 100VLFL | 320 | 06-12-86 | 750 | - | 21.5 | -- | -- | -- |
| 374014113391101 | (C-36-16) 9BDC- | 2 | -- | 06-12-86 | 440 | 7.5 | 14.0 | -- | -- | -- | -- |
| 373656113415201 | (C-36-17) 36AAD- | 1 | 100VLFL | 363 | 07-11-86 | 480 | 7.4 | 11.0 | 190 | 6 | 58 |
| 373234113111601 | (C-37-12) 34ABB- | 1 | 100VLFL | 190 | 06-27-86 | 870 | - | 16.0 | -- | -- | -- |
| JUBA COUNTY | | | | | | | | | | | |
| 394545111531001 | (C-12- 1) 24BAA- | 1 | 100VLFL | 66 | 07-15-86 | 1240 | 7.4 | 12.5 | 360 | 150 | 86 |
| 394215111530501 | (C-13- 1) 1CDD- | 1 | 150 | 07-16-86 | 1040 | 7.7 | 12.0 | 320 | 91 | 71 | 35 |
| 393342111534501 | (C-14- 1) 26DBD- | 1 | 100VLFL | -- | 07-16-86 | 1190 | - | 17.5 | -- | -- | -- |
| 393249111532601 | (C-14- 1) 35DDA- | 1 | 100VLFL | -- | 07-16-86 | 1110 | - | 13.0 | -- | -- | -- |
| 393235111525201 | (C-15- 1) 1BAA- | 1 | 100VLFL | 280 | 07-16-86 | 1170 | - | 12.0 | -- | -- | -- |
| 393142111523501 | (C-15- 1) 12ABA- | 2 | 100VLFL | -- | 07-16-86 | 1840 | - | 13.0 | -- | -- | -- |
| 395244111502501 | (D-11- 1) 9BBB- | 1 | 83 | 07-15-86 | 440 | - | 12.5 | -- | -- | -- | -- |
| 395207111501401 | (D-11- 1) 9CCA- | 1 | 100VLFL | 304 | 07-15-86 | 2130 | - | 13.5 | -- | -- | -- |
| 395100111503501 | (D-11- 1) 20AAB- | 1 | 100VLFL | -- | 07-15-86 | 570 | - | 12.0 | -- | -- | -- |
| 394518111515801 | (D-12- 1) 19DBB- | 1 | 100VLFL | 248 | 07-15-86 | 1250 | 7.6 | 13.0 | 310 | 100 | 73 |
| 394130111512601 | (D-12- 1) 30ADD- | 1 | -- | 07-15-86 | 1450 | - | 11.5 | -- | -- | -- | -- |
| 394225111495701 | (D-13- 1) 4CCA- | 1 | 100VLFL | 375 | 07-16-86 | 1460 | - | 11.5 | -- | -- | -- |
| 394203111521701 | (D-13- 1) 7BBD- | 2 | 100VLFL | 158 | 07-16-86 | 1500 | - | 10.5 | -- | -- | -- |
| 394132111512001 | (D-13- 1) 7DDA- | 1 | 100VLFL | 145 | 07-17-86 | 1560 | 7.3 | 10.5 | 420 | 12 | 110 |
| 393312111521001 | (D-14- 1) 31BCB- | 1 | 100VLFL | -- | 07-16-86 | 1170 | - | 11.5 | -- | -- | -- |
| KANE COUNTY | | | | | | | | | | | |
| 370050112274501 | (C-44- 5) 6CBB- | 1 | -- | 06-26-86 | 2860 | 7.2 | 20.0 | 830 | 510 | 150 | 110 |
| MILLARD COUNTY | | | | | | | | | | | |
| 393154112192901 | (C-15- 4) 8CBA- | 1 | 100VLFL | 203 | 06-13-86 | 3230 | 7.0 | 13.5 | -- | -- | -- |
| 391341112241402 | (C-18- 5) 27BAB- | 2 | 100VLFL | 505 | 08-14-86 | 1080 | 7.7 | 17.5 | -- | -- | -- |
| 391224112220201 | (C-18- 5) 36BCC- | 1 | 380 | 06-04-86 | 850 | 7.2 | 16.0 | 370 | 93 | 71 | 48 |
| 391212112221301 | (C-18- 5) 36CBC- | 1 | 385 | 06-04-86 | 660 | - | 17.0 | -- | -- | -- | -- |
| 391553112332601 | (C-18- 6) 8CBB- | 1 | 100VLFL | 260 | 08-20-86 | 440 | 8.2 | 17.0 | 58 | -- | 13 |

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
 110ALVM - QUATERNARY ALLUVIUM, QUATERNARY AGE.
 111ALVM - HOLOCENE ALLUVIUM, HOLOCENE AGE.
 112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.

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-TRIASSIC AGE.

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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) | NON-CARBONATE HARDNESS (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) |
|---------------------------|--------------------|---------------|--------------------------|----------------|----------------------------------|------------|---------------------|--------------------------|-------------------------------|-------------------------------|---------------------------------|
| MILLARD COUNTY--Continued | | | | | | | | | | | |
| 391420112412001 | (C-18- 8) 24ADA- 2 | 100VLFL | 601 | 08-20-86 | 3000 | 8.2 | 22.0 | 95 | -- | 20 | 11 |
| 391326113595801 | (C-18-19) 20DAD- 1 | 100VLFL | 100 | 08-26-86 | 440 | 7.3 | 15.0 | 180 | -- | 58 | 8.4 |
| 390930112195801 | (C-19- 4) 17CCB- 1 | | 357 | 06-12-86 | 470 | 7.6 | 16.0 | 210 | 30 | 40 | 27 |
| 390757112202001 | (C-19- 4) 30DAB- 1 | | 502 | 06-12-86 | 810 | 7.1 | 14.0 | -- | -- | -- | -- |
| 390714112200401 | (C-19- 4) 31ADA- 1 | | 545 | 06-12-86 | 1170 | 7.1 | 14.0 | 510 | 310 | 110 | 56 |
| 390700112203201 | (C-19- 4) 31DBB- 1 | | 523 | 06-10-86 | 1430 | 7.3 | 14.0 | -- | -- | -- | -- |
| 391145112212801 | (C-19- 5) 1ABC- 1 | | 385 | 06-12-86 | 800 | 7.4 | 16.0 | -- | -- | -- | -- |
| 391138112222801 | (C-19- 5) 2ADB- 1 | | 357 | 06-11-86 | 930 | 7.6 | 17.0 | 350 | 230 | 86 | 33 |
| 391117112243601 | (C-19- 5) 4DAA- 1 | 111ALVM | 535 | 06-11-86 | 1370 | 7.3 | 16.5 | 540 | 390 | 120 | 58 |
| 390604112175901 | (C-20- 4) 4DAB- 1 | | 755 | 08-15-86 | 800 | - | 11.5 | -- | -- | -- | -- |
| 390614112193101 | (C-20- 4) 5CAA- 1 | | 283 | 06-10-86 | 1070 | 7.4 | 15.0 | 440 | 100 | 96 | 48 |
| 390558112194601 | (C-20- 4) 5CCA- 1 | | 565 | 08-15-86 | 1320 | - | 15.0 | -- | -- | -- | -- |
| 390542112191401 | (C-20- 4) 8ABA- 1 | | 400 | 08-15-86 | 1320 | - | 16.0 | -- | -- | -- | -- |
| 390539112225001 | (C-20- 5) 11BAA- 1 | 100VLFL | 595 | 03-08-86 | 1860 | - | 17.0 | -- | -- | -- | -- |
| | | 100VLFL | 595 | 09-11-86 | 1770 | - | 16.5 | -- | -- | -- | -- |
| 390523112225001 | (C-20- 5) 11BDD- 2 | 100VLFL | 387 | 03-18-86 | 1960 | - | 17.0 | -- | -- | -- | -- |
| 390350112214501 | (C-20- 5) 24BAD- 1 | | 390 | 06-11-86 | 2330 | 7.3 | 14.5 | 1200 | 1000 | 290 | 110 |
| 390255112243301 | (C-20- 5) 28AAD- 1 | 100VLFL | 557 | 06-10-86 | 1810 | 7.3 | 18.5 | -- | -- | -- | -- |
| 390224112243401 | (C-20- 5) 28DDA- 1 | | 448 | 06-10-86 | 2260 | 7.6 | 15.5 | 660 | 450 | 18 | 150 |
| 390027112264001 | (C-21- 5) 6CCC- 1 | 100VLFL | 110 | 04-24-86 | 1200 | 7.4 | 12.5 | -- | -- | -- | -- |
| 385919112253801 | (C-21- 5) 16BCB- 1 | 100VLFL | 296 | 03-04-86 | 610 | - | 13.0 | -- | -- | -- | -- |
| | | 100VLFL | 296 | 09-09-86 | 620 | - | 13.0 | -- | -- | -- | -- |
| 385915112253701 | (C-21- 5) 16BCC- 2 | 100VLFL | 254 | 03-04-86 | 620 | - | 13.0 | -- | -- | -- | -- |
| 385912112254101 | (C-21- 5) 17ADD- 3 | 100VLFL | 385 | 03-04-86 | 660 | - | 13.0 | -- | -- | -- | -- |
| | | 100VLFL | 385 | 09-09-86 | 680 | - | 13.0 | -- | -- | -- | -- |
| 385901112254001 | (C-21- 5) 17DAD- 1 | 100VLFL | 285 | 03-04-86 | 700 | - | 12.5 | -- | -- | -- | -- |
| 385937112270601 | (C-21- 5) 18ABA- 1 | | 150 | 04-24-86 | 1300 | 7.5 | 12.0 | -- | -- | -- | -- |
| 385918112264902 | (C-21- 5) 18ADA- 2 | 112PVNT | 135 | 04-25-86 | 980 | 7.5 | 12.0 | 390 | 120 | 85 | 44 |
| 385853112264901 | (C-21- 5) 18DDA- 1 | | 448 | 08-13-86 | 770 | - | 16.0 | -- | -- | -- | -- |
| 385822112264801 | (C-21- 5) 19ADD- 1 | | 670 | 08-14-86 | 1020 | - | 18.5 | -- | -- | -- | -- |
| 385816112264801 | (C-21- 5) 19DAA- 3 | 100VLFL | 650 | 08-14-86 | 900 | - | 18.0 | -- | -- | -- | -- |
| 385828112245501 | (C-21- 5) 21ACA- 1 | | 251 | 03-24-86 | 750 | - | 12.0 | -- | -- | -- | -- |
| 385715112271201 | (C-21- 5) 30DBC- 3 | 100VLFL | 773 | 03-26-86 | 2200 | - | 19.0 | -- | -- | -- | -- |
| | | 100VLFL | 773 | 09-09-86 | 2050 | - | 19.0 | -- | -- | -- | -- |
| 385755112280801 | (C-21- 6) 24DDC- 1 | | 162 | 06-19-86 | 4500 | - | 15.0 | -- | -- | -- | -- |
| 385724112275601 | (C-21- 6) 25DAA- 1 | | 250 | 03-20-86 | 1970 | - | 19.0 | -- | -- | -- | -- |
| 385426112262101 | (C-22- 5) 8CDD- 3 | | 475 | 03-05-86 | 930 | - | 16.0 | -- | -- | -- | -- |
| | | | 475 | 09-10-86 | 910 | - | 15.5 | -- | -- | -- | -- |
| 385359112262001 | (C-22- 5) 17BDD- 2 | | 375 | 03-05-86 | 680 | - | 14.0 | -- | -- | -- | -- |
| 385335112262101 | (C-22- 5) 17CDD- 1 | | 260 | 03-05-86 | 730 | - | 14.0 | -- | -- | -- | -- |
| | | | 260 | 09-10-86 | 720 | - | 14.0 | -- | -- | -- | -- |
| 385347112260401 | (C-22- 5) 17BDD- 2 | 100VLFL | 560 | 09-10-86 | 900 | - | 14.0 | -- | -- | -- | -- |
| 385336112260801 | (C-22- 5) 17DCD- 1 | 100VLFL | 350 | 03-04-86 | 670 | - | 13.5 | -- | -- | -- | -- |
| | | 100VLFL | 350 | 09-10-86 | 720 | - | 13.5 | -- | -- | -- | -- |
| 385239112265701 | (C-22- 5) 19DDD- 1 | 100VLFL | 216 | 03-25-86 | 780 | - | 13.0 | -- | -- | -- | -- |
| | | 100VLFL | 216 | 09-10-86 | 760 | - | 13.0 | -- | -- | -- | -- |
| 385319112254701 | (C-22- 5) 20AAD- 1 | 100VLFL | 280 | 03-04-86 | 850 | - | 14.0 | -- | -- | -- | -- |
| 385311112261101 | (C-22- 5) 20ACD- 2 | 100VLFL | 255 | 03-04-86 | 760 | - | 13.5 | -- | -- | -- | -- |
| 385311112262001 | (C-22- 5) 20BDD- 1 | 100VLFL | 300 | 03-05-86 | 800 | - | 13.5 | -- | -- | -- | -- |
| 385303112234801 | (C-22- 5) 22ADC- 2 | 100VLFL | 260 | 09-23-86 | 1250 | - | 15.0 | 340 | 150 | 87 | 29 |
| 385015112333601 | (C-23- 6) 5CBC- 1 | 100VLFL | 162 | 06-05-86 | 6600 | - | 14.0 | -- | -- | -- | -- |
| 384946112321601 | (C-23- 6) 9BCA- 1 | | 170 | 06-05-86 | 8400 | 7.1 | 17.0 | 1900 | 1500 | 470 | 170 |
| 384910112312101 | (C-23- 6) 10CCC- 2 | | 125 | 06-05-86 | 2320 | 7.5 | 19.0 | 630 | 340 | 140 | 68 |
| 384906112303701 | (C-23- 6) 15ABA- 1 | | 135 | 06-05-86 | 700 | 7.8 | 15.0 | 270 | 52 | 63 | 28 |
| | | 100VLFL | 135 | 07-16-86 | 720 | - | 14.5 | -- | -- | -- | -- |
| | | | 135 | 07-29-86 | 700 | - | 15.0 | -- | -- | -- | -- |
| 384815112331401 | (C-23- 6) 17CDC- 1 | 100VLFL | 440 | 04-23-86 | 9000 | - | 16.0 | -- | -- | -- | -- |
| | | | 440 | 07-29-86 | 8980 | - | -- | -- | -- | -- | -- |
| 384830112323501 | (C-23- 6) 17DAD- 1 | 100VLFL | 135 | 04-23-86 | 6050 | - | 14.0 | -- | -- | -- | -- |
| 384840112325101 | (C-23- 6) 17DBA- 1 | | 135 | 04-23-86 | 4300 | 7.2 | 15.0 | 1300 | 1100 | 280 | 150 |
| 384818114002801 | (C-23-19) 20BAC- 1 | | 415 | 08-25-86 | 1300 | 7.5 | 15.0 | 370 | 69 | 48 | 61 |

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
 110ALVM - QUATERNARY ALLUVIUM, QUATERNARY AGE.
 111ALVM - HOLOCENE ALLUVIUM, HOLOCENE AGE.
 112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

395

| 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 CONSTITUENTS) (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 | | | | | | | | | | | | |
| 780 | 3.2 | 224 | 380 | 830 | 2.0 | 30 | 2200 | <0.10 | 0.04 | 340 | 10 | 3600 |
| 17 | 0.4 | 181 | 13 | 10 | 0.2 | 12 | 230 | <0.10 | 0.06 | 30 | 2 | 40 |
| 32 | 1.7 | 181 | 18 | 45 | 0.3 | 28 | 300 | 1.00 | <0.01 | 16 | <1 | 50 |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 39 | 1.6 | 200 | 60 | 210 | <0.1 | 18 | 610 | 9.20 | <0.01 | 11 | <1 | 50 |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 56 | 2.2 | 117 | 87 | 190 | <0.1 | 17 | 540 | 1.90 | <0.01 | 10 | <1 | 60 |
| 65 | 2.5 | 145 | 140 | 280 | 0.1 | 22 | 770 | 3.20 | 0.02 | 11 | <1 | 70 |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 62 | 2.5 | 335 | 66 | 130 | 0.1 | 22 | 630 | 7.60 | 0.02 | 9 | 2 | 100 |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 100 | 6.6 | 181 | 730 | 310 | 0.4 | 10 | 1700 | 1.30 | 0.01 | 30 | 10 | 200 |
| 100 | 6.9 | 212 | 510 | 350 | 0.5 | 56 | 1300 | 1.30 | 0.02 | 30 | <10 | 140 |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 53 | 2.3 | 277 | 110 | 75 | 0.2 | 24 | 560 | 5.10 | 0.01 | 10 | <1 | 290 |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 94 | 14 | 190 | 71 | 210 | 0.6 | 13 | 630 | 1.80 | <0.01 | 13 | 2 | 490 |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1200 | 130 | 395 | 1300 | 2300 | 1.9 | 59 | 5900 | <0.10 | 0.03 | 140 | 2400 | 4800 |
| 290 | 17 | 296 | 300 | 430 | 0.5 | 34 | 1500 | 1.20 | 0.02 | 30 | <10 | 1100 |
| 32 | 6.7 | 209 | 53 | 71 | 0.3 | 27 | 410 | 2.80 | 0.02 | 5 | <1 | 120 |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 410 | 37 | 233 | 530 | 1000 | 1.0 | 38 | 2600 | 2.70 | 0.01 | 30 | 10 | 1100 |
| 120 | 4.4 | 302 | 110 | 160 | 0.9 | 47 | 730 | 1.00 | 0.01 | 19 | <1 | 300 |

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-TRIASSIC AGE.

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| 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) | NON-CARBONATE HARDNESS (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | DISSOLVED MAGNESIUM (MG/L) |
|------------------|-------------------|---------------|--------------------------|----------------|----------------------------------|------------|---------------------|--------------------------|-------------------------------|-------------------------------|----------------------------|
| PIUTE COUNTY | | | | | | | | | | | |
| 381440111584001 | (C-29- 2)35BAD- 1 | 122BRHD | 197 | 08-13-86 | 450 | - | 20.0 | -- | -- | -- | -- |
| 381003112010301 | (C-30- 2)28BDC- 1 | | 135 | 08-13-86 | 465 | - | 16.0 | -- | -- | -- | -- |
| SALT LAKE COUNTY | | | | | | | | | | | |
| 405047112014301 | (B- 1- 2) 2DAC- 1 | 100VLFL | 440 | 08-21-86 | 860 | - | 26.0 | -- | -- | -- | -- |
| 404659112005601 | (B- 1- 2)36BAA- 1 | 100VLFL | 464 | 08-21-86 | 6200 | - | 27.0 | -- | -- | -- | -- |
| 404306112031201 | (C- 1- 2)22BDD- 4 | 100VLFL | 35 | 08-21-86 | 2040 | - | 13.0 | -- | -- | -- | -- |
| 403408111543201 | (C- 3- 1)12CCB- 1 | 100VLFL | 118 | 08-22-86 | 960 | - | 20.0 | -- | -- | -- | -- |
| 402721111550801 | (C- 4- 1)23DBB- 1 | 100VLFL | 262 | 08-22-86 | 1140 | - | 21.0 | -- | -- | -- | -- |
| 404506111523301 | (D- 1- 1) 7ABD- 6 | 100VLFL | 130 | 05-23-86 | 1150 | 7.3 | 14.0 | 530 | 240 | 130 | 49 |
| 403116111524801 | (D- 3- 1)31ABB- 1 | 100VLFL | 138 | 08-22-86 | 490 | - | 16.0 | -- | -- | -- | -- |
| SAN JUAN COUNTY | | | | | | | | | | | |
| 371657109331901 | (D-40-21)25ACD- 1 | 220NVJO | 450 | 03-03-86 | 400 | 8.4 | 17.0 | 11 | -- | 3.1 | 0.71 |
| 371716109325501 | (D-40-22)30BBB- 1 | 220JRSC | 825 | 03-03-86 | 790 | 8.8 | 20.0 | 4 | -- | 1.3 | 0.3 |
| | | 220JRSC | 825 | 09-02-86 | 800 | 8.8 | 20.0 | 6 | -- | 1.8 | 0.45 |
| 371621109211001 | (D-40-23)27BAA- 1 | 220JRSC | 672 | 03-03-86 | 3100 | - | 18.5 | -- | -- | -- | -- |
| | | 220JRSC | 672 | 09-02-86 | 3120 | 7.7 | 21.0 | 91 | -- | 20 | 10 |
| SANPETE COUNTY | | | | | | | | | | | |
| 393544111370301 | (D-14- 3)17CCA- 1 | 100VLFL | 133 | 07-17-86 | 630 | - | 10.5 | -- | -- | -- | -- |
| SEVIER COUNTY | | | | | | | | | | | |
| 385910111512101 | (C-21- 1)13ABD- 1 | | 291 | 08-19-86 | 740 | 7.1 | 18.5 | 140 | 28 | 29 | 17 |
| 384800112002001 | (C-23- 2)15DCB- 4 | 100VLFL | 75 | 08-19-86 | 900 | - | 12.0 | -- | -- | -- | -- |
| 384702112031001 | (C-23- 2)19DAB- 1 | 100VLFL | 75 | 08-19-86 | 520 | - | 16.0 | -- | -- | -- | -- |
| 384450112034001 | (C-24- 2) 6ABC- 1 | 100VLFL | 308 | 08-19-86 | 1310 | 7.2 | 12.5 | 620 | 390 | 160 | 53 |
| 383140111522001 | (C-26- 1)23ddb- 1 | 100VLFL | 200 | 08-19-86 | 180 | - | 13.5 | -- | -- | -- | -- |
| TOOELE COUNTY | | | | | | | | | | | |
| 403607112185601 | (C- 2- 4)32ADC- 1 | | 260 | 07-18-86 | 1350 | 7.5 | 14.5 | -- | -- | -- | -- |
| 403557112193701 | (C- 2- 4)32CBD- 1 | 100VLFL | -- | 08-21-86 | 1060 | - | 16.0 | -- | -- | -- | -- |
| 403555112174901 | (C- 2- 4)33DAC- 1 | 100VLFL | 140 | 07-18-86 | 920 | 7.2 | 13.5 | -- | -- | -- | -- |
| 403608112164201 | (C- 2- 4)34ADC- 1 | 100VLFL | 303 | 07-18-86 | 900 | 7.2 | 14.5 | -- | -- | -- | -- |
| 403608112170302 | (C- 2- 4)34BDD- 2 | 100VLFL | 254 | 07-18-86 | 960 | 7.0 | 13.0 | -- | -- | -- | -- |
| 403605112214201 | (C- 2- 5)36BDD- 1 | 100VLFL | 445 | 07-22-86 | 1380 | - | 18.5 | -- | -- | -- | -- |
| 403802112301201 | (C- 2- 6)23CBB- 1 | 100VLFL | 210 | 05-29-86 | 1090 | 7.9 | 21.5 | 110 | -- | 26 | 11 |
| 403645112292101 | (C- 2- 6)26DAC- 1 | 100VLFL | 246 | 07-23-86 | 1130 | - | 13.5 | -- | -- | -- | -- |
| 403624112290101 | (C- 2- 6)36BBB- 1 | 100VLFL | -- | 07-23-86 | 1030 | - | 12.5 | -- | -- | -- | -- |
| 403524112244801 | (C- 3- 5) 4ABD- 1 | 100VLFL | -- | 08-21-86 | 1630 | - | -- | -- | -- | -- | -- |
| 402757112440401 | (C- 4- 8)15CDA- 1 | 100VLFL | 325 | 07-31-86 | 1170 | - | 16.0 | -- | -- | -- | -- |
| 400401112262001 | (C- 9- 5) 5BBC- 1 | | 600 | 06-04-86 | 590 | - | 14.0 | -- | -- | -- | -- |
| 400407112263601 | (C- 9- 5) 6AAB- 2 | 100VLFL | 170 | 06-04-86 | 910 | - | -- | -- | -- | -- | -- |
| UINTAH COUNTY | | | | | | | | | | | |
| 403116109360601 | (D- 3-21)30DCD- 1 | 220NVJO | 138 | 09-11-86 | 440 | - | 13.0 | 16 | -- | 3.9 | 1.4 |
| UTAH COUNTY | | | | | | | | | | | |
| 401730111594501 | (C- 6- 1)18CDD- 1 | | 265 | 06-04-86 | 710 | 7.0 | 29.5 | -- | -- | -- | -- |
| 401607112023401 | (C- 6- 2)26CBB- 1 | 100VLFL | 505 | 06-04-86 | 475 | 7.9 | 11.5 | 220 | 11 | 37 | 31 |
| 401610112053101 | (C- 6- 2)29BDD- 1 | 100VLFL | 150 | 06-04-86 | 395 | 7.8 | 11.0 | -- | -- | -- | -- |
| 400328112044101 | (C- 9- 1) 4CCC- 1 | | -- | 06-30-86 | 1400 | - | 14.0 | -- | -- | -- | -- |
| 395956111572101 | (C- 9- 1)28CCB- 1 | | 802 | 06-12-86 | 1120 | 7.6 | 18.5 | -- | -- | -- | -- |
| 395854111561201 | (C- 9- 1)34CCC- 1 | | 655 | 07-02-86 | 1510 | - | 17.5 | -- | -- | -- | -- |
| 395825111571801 | (C-10- 1) 4CBB- 1 | 100VLFL | 1218 | 06-30-86 | 2490 | 7.6 | 19.0 | 900 | 770 | 220 | 84 |
| 395710111571801 | (C-10- 1) 9CCC- 1 | 100VLFL | 474 | 07-28-86 | 1670 | - | 18.0 | -- | -- | -- | -- |
| 395525111530001 | (C-10- 1)25AAB- 1 | | 645 | 07-02-86 | 2100 | - | 17.5 | -- | -- | -- | -- |
| 401021111362701 | (D- 7- 3)33BAA- 6 | 100VLFL | 138 | 07-03-86 | 580 | 7.2 | 13.0 | 270 | 43 | 68 | 24 |
| 400120111452001 | (D- 9- 2)19ACB- 1 | | -- | 07-02-86 | 570 | - | 16.0 | -- | -- | -- | -- |
| 395607111521701 | (D-10- 1)19BAD- 1 | | -- | 06-30-86 | 2060 | - | 21.0 | -- | -- | -- | -- |
| 395553111522601 | (D-10- 1)19BDC- 1 | | -- | 07-02-86 | 2130 | - | 21.5 | -- | -- | -- | -- |

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
 110ALVM - QUATERNARY ALLUVIUM, QUATERNARY AGE.
 111ALVM - HOLOCENE ALLUVIUM, HOLOCENE AGE.
 112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

397

| 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) |
|--|--|--------------------------------------|--|---|--|--|---|---|--|--|--|--|
| PIUTE COUNTY | | | | | | | | | | | | |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SALT LAKE COUNTY | | | | | | | | | | | | |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 39 | 3.1 | 282 | 160 | 110 | 0.2 | 19 | 680 | 6.10 | -- | 20 | 8 | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SAN JUAN COUNTY | | | | | | | | | | | | |
| 86 | 2.2 | 165 | 47 | 2.2 | 0.2 | 10 | 250 | <0.10 | 0.02 | 6 | 7 | 20 |
| 180 | 1.0 | 354 | 60 | 17 | 0.7 | 10 | 480 | <0.10 | 0.02 | 7 | 2 | 110 |
| 190 | 1.3 | 345 | 55 | 15 | 0.5 | 11 | 480 | <0.10 | 0.05 | 7 | 11 | 110 |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 660 | 13 | 763 | 170 | 470 | 1.3 | 11 | 1800 | <0.10 | <0.01 | 4400 | 150 | 1500 |
| SANPETE COUNTY | | | | | | | | | | | | |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SEVIER COUNTY | | | | | | | | | | | | |
| 90 | 4.5 | 114 | 89 | 110 | 0.6 | 40 | 450 | 0.28 | 0.01 | 6 | <1 | 260 |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 58 | 4.3 | 228 | 380 | 24 | 0.2 | 30 | 850 | 2.60 | 0.03 | 8 | 5 | 200 |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TOOELE COUNTY | | | | | | | | | | | | |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 170 | 18 | 163 | 32 | 230 | 0.6 | 53 | 640 | 0.65 | 0.02 | 31 | 1 | 100 |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| UINTAH COUNTY | | | | | | | | | | | | |
| 130 | 3.1 | 230 | 63 | 2.6 | 0.7 | 7.1 | 350 | <0.10 | <0.01 | 350 | 4 | 170 |
| UTAH COUNTY | | | | | | | | | | | | |
| 19 | 3.1 | 209 | 23 | 26 | 0.3 | 55 | 320 | 0.19 | 0.02 | 17 | 16 | 60 |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 150 | 15 | 126 | 100 | 710 | 0.2 | 67 | 1400 | 3.50 | 0.03 | 30 | <10 | 130 |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 20 | 2.1 | 226 | 64 | 19 | 0.2 | 12 | 340 | 0.80 | 0.02 | 13 | 2 | 40 |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

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-TRIASSIC AGE.

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| STATION NUMBER | LOCAL IDENTIFIER | GEOLOGIC UNIT | TOTAL DEPTH OF WELL (FT) | DATE OF SAMPLE | SPECIFIC CONDUCTANCE (MICRO-MHOS) | PH (UNITS) | TEMPERATURE (DEG C) | HARDNESS (CA, MG) (MG/L) | NON-CARBONATE HARDNESS (MG/L) | DISSOLVED CALCIUM (CA) (MG/L) | DISSOLVED MAGNESIUM (MG) (MG/L) |
|-------------------|-------------------|---------------|--------------------------|----------------|-----------------------------------|------------|---------------------|--------------------------|-------------------------------|-------------------------------|---------------------------------|
| WASHINGTON COUNTY | | | | | | | | | | | |
| 371305113470401 | (C-41-17)17CBA- 1 | | 626 | 06-16-86 | 465 | - | 17.5 | -- | -- | -- | -- |
| 370915113232302 | (C-42-14)11ACA- 2 | | -- | 07-11-86 | 1440 | 7.5 | 21.0 | 640 | 510 | 140 | 71 |
| 370515113310302 | (C-42-15)34DBA- 2 | | -- | 07-11-86 | 5490 | 6.8 | 16.5 | 2000 | 1800 | 550 | 160 |
| WAYNE COUNTY | | | | | | | | | | | |
| 382717111365601 | (D-27- 3)19AAA- 1 | | 285 | 08-19-86 | 1610 | - | 11.0 | -- | -- | -- | -- |
| 381902111321101 | (D-29- 3)1CAB- 1 | 110ALVM | 433 | 08-19-86 | 190 | - | 19.0 | -- | -- | -- | -- |
| WEBER COUNTY | | | | | | | | | | | |
| 411153112064602 | (B- 5- 2) 6BDD- 3 | 100VLFL | 609 | 09-03-86 | 395 | - | 16.0 | -- | -- | -- | -- |
| 411153112064601 | (B- 5- 2) 6BDD- 4 | 100VLFL | 303 | 09-03-86 | 490 | - | 16.5 | -- | -- | -- | -- |
| 411702112071701 | (B- 6- 2) 6CBC- 2 | 100VLFL | 512 | 09-02-86 | 1850 | - | 17.0 | -- | -- | -- | -- |
| 411523112082101 | (B- 6- 3)15CBC- 1 | 100VLFL | 20 | 09-04-86 | 445 | - | 17.0 | -- | -- | -- | -- |
| 411830111581501 | (B- 7- 1)29DDC- 1 | 100VLFL | 245 | 09-03-86 | 350 | - | 12.0 | -- | -- | -- | -- |
| 411807111580501 | (B- 7- 1)32ADA- 4 | 100VLFL | 60 | 09-03-86 | 345 | - | 12.0 | -- | -- | -- | -- |
| 412011112041401 | (B- 7- 2)16DCD- 2 | 100VLFL | 1176 | 09-03-86 | 320 | - | 26.0 | -- | -- | -- | -- |
| 411827112030901 | (B- 7- 2)27DCC- 1 | 100VLFL | 20 | 09-02-86 | 4400 | - | 16.0 | -- | -- | -- | -- |
| 411824112060101 | (B- 7- 2)32BBB- 1 | | 546 | 09-02-86 | 2220 | 7.6 | 18.5 | 340 | 210 | 70 | 40 |
| 411821112034601 | (B- 7- 2)34BBB- 2 | | 517 | 09-02-86 | 1560 | 7.6 | 18.5 | 350 | 210 | 92 | 30 |

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
 110ALVM - QUATERNARY ALLUVIUM, QUATERNARY AGE.
 111ALVM - HOLOCENE ALLUVIUM, HOLOCENE AGE.
 112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

399

| DIS- SOLVED SODIUM (NA) (MG/L) | DIS- SOLVED PO- TAS- SIUM (K) (MG/L) | ALKA- L INITY (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) |
|--|--|---------------------------------------|--|---|--|--|---|---|--|--|--|--|
| WASHINGTON COUNTY | | | | | | | | | | | | |
| 54 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 490 | 8.9 | 131 | 560 | 60 | 0.4 | 25 | 1000 | 3.50 | 0.02 | 19 | 3 | 210 |
| | 22 | 210 | 2000 | 780 | 0.4 | 26 | 4200 | 7.90 | 0.01 | 40 | 20 | 1100 |
| WAYNE COUNTY | | | | | | | | | | | | |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| WEBER COUNTY | | | | | | | | | | | | |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 340 | 24 | 134 | 4.5 | 700 | 0.3 | 31 | 1300 | <0.10 | 0.06 | 390 | 330 | 330 |
| 180 | 6.5 | 147 | 1.6 | 440 | 0.3 | 22 | 860 | <0.10 | 0.01 | 220 | 250 | 150 |

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-TRIASSIC AGE.

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| 20 | 21 | 22 | 23 | 24 | 25 | 26 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
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