# HYDROLOGIC DATA FROM NAVAL OIL SHALE RESERVES, PARACHUTE CREEK BASIN, NORTHWESTERN COLORADO, 1980-81

By Kenneth C. Galyean, D. Briane Adams, and Dannie L. Collins

---

U.S. GEOLOGICAL SURVEY

Open-File Report 83-858

Prepared in cooperation with the

U.S. DEPARTMENT OF ENERGY

Lakewood, Colorado
1985

UNITED STATES DEPARTMENT OF THE INTERIOR

WILLIAM P. CLARK, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

---

For additional information
write to:

District Chief
U.S. Geological Survey, MS 415
Box 25046, Denver Federal Center
Lakewood, CO 80225

Copies of this report can
be purchased from:

Open-File Services Section
Western Distribution Branch
U.S. Geological Survey, MS 306
Box 25425, Federal Center
Denver, CO 80225
Telephone: (303) 236-7476

CONTENTS



ILLUSTRATIONS



TABLES

CONTENTS



METRIC CONVERSION FACTORS

| *Multiply inch-pound unit* | *By* | *To obtain metric unit* |
|---|---|---|
| acre-foot | 0.001233 | cubic hectometer |
| cubic foot per second | 0.02832 | cubic meter per second |
| foot | 0.3048 | meter |
| gallon per minute | 0.06308 | liter per second |
| inch | 0.02540 | meter |
| mile | 1.609 | kilometer |
| mile per hour | 1.609 | kilometer per hour |
| square mile | 2.590 | square kilometer |
| ton (short) | 0.9072 | metric ton |
| ton per day | 0.9072 | metric ton per day |

To convert degrees Celsius (°C) to degrees Fahrenheit (°F) use the following formula: (°Cx9/5)+32=°F.

*National Geodetic Vertical Datum of 1929 (NGVD of 1929)*: A geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called mean sea level. NGVD of 1929 is referred to as sea level in this report.

# HYDROLOGIC DATA FROM NAVAL OIL SHALE RESERVES, PARACHUTE CREEK BASIN, NORTHWESTERN COLORADO, 1980-81

By Kenneth C. Galyean, D. Briane Adams, and Dannie L. Collins

## ABSTRACT

This report summarizes 2 years (water years 1980 and 1981) of additional data collected by the U.S. Geological Survey for the U.S. Department of Energy, Naval Petroleum and Oil Shale Reserves, in the Parachute Creek drainage basin of northwestern Colorado. The data are supplemental to those reported by Patt and others (1982). Data from five surface-water gages, two automatic sediment samplers, and two water-quality monitors are presented. Climate data include maximum, minimum, and average temperature and relative humidity, average wind speed and wind direction, and total daily solar radiation. Daily total precipitation is reported for three stations, and snow-course data are reported for one site.

## INTRODUCTION

The Naval Oil Shale Reserves (NOSR), located in Garfield County, northwestern Colorado, is an area of potential oil-resource development (fig. 1). This report makes available the hydrologic data collected from October 1979 to October 1981 by the U.S. Geological Survey in cooperation with the U.S. Department of Energy. This report is a supplement to the report by Patt and others (1982).

Five streamflow-gaging stations, three precipitation stations, one climatic station, and one snow-course station were established to monitor and collect hydrologic data on the NOSR (fig. 2). Types and frequency of data collected in water years 1980 and 1981 at the five streamflow-gaging stations installed in the NOSR are shown in table 1.

Data collected on the NOSR are presented in the Hydrologic Data section of this report. For ease of reference, the data collected at the operating streamflow-gaging stations are presented first and include daily discharges (tables 2-6), water-quality analyses (tables 7-11), and suspended-sediment discharge rates (tables 12 and 13). The last part of the Hydrologic Data section contains climate data (tables 14-26).

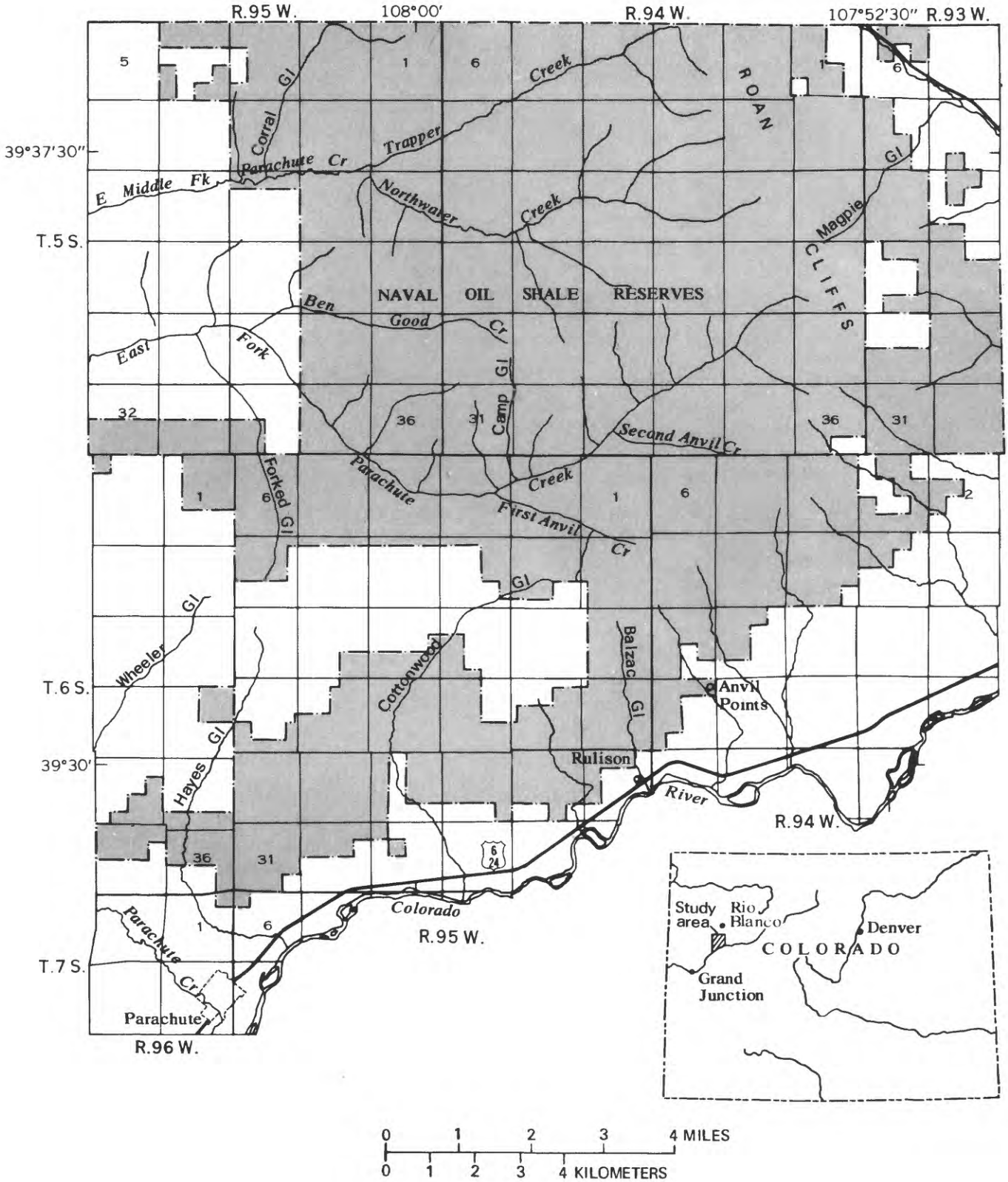


Figure 1.--Location of Naval Oil Shale Reserves.

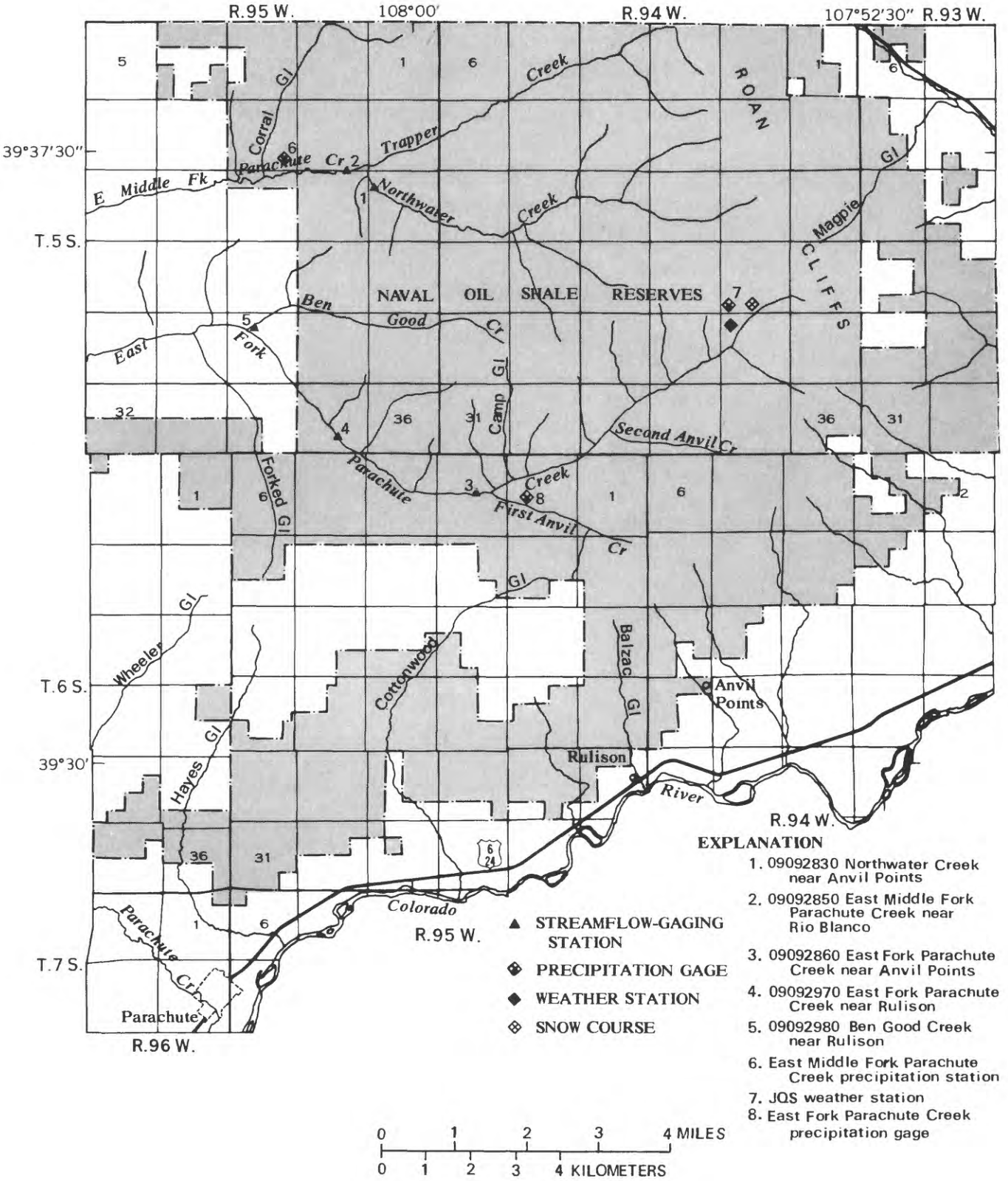


Figure 2.--Location of hydrologic data-collection sites.

Table 1.--*Hydrologic data collected at streamflow-gaging stations in water years 1980 and 1981*

[Numbers in parentheses indicate number of samples taken or measurements made in that water year]

| Site number | Site name | Water year | Discharge | Specific conductance | Temperature | Water quality | Sediment |
|---|---|---|---|---|---|---|---|
| 09092830 | Northwater Creek near Anvil Points. | 1980 | Daily | (8) | (6) | (8) | ----- |
| | | 1981 | Daily | (10) | (9) | (10) | ----- |
| 09092850 | East Middle Fork Parachute Creek near Rio Blanco. | 1980 | Daily | Daily | Daily | (8) | Daily |
| | | 1981 | Daily | Daily | Daily | (10) | Daily |
| 09092960 | East Fork Parachute Creek near Anvil Points. | 1980 | Daily | (5) | (5) | (5) | ----- |
| | | 1981 | Daily | (12) | (12) | (12) | ----- |
| 09092970 | East Fork Parachute Creek near Rulison. | 1980 | Daily | Daily | Daily | (7) | (6) |
| | | 1981 | Daily | Daily | Daily | (13) | Daily |
| 09092980 | Ben Good Creek near Rulison. | 1980 | Daily | (6) | (6) | (6) | ----- |
| | | 1981 | Daily | (9) | (9) | (9) | ----- |

## SURFACE-WATER AND WATER-QUALITY DATA

Surface-water data (tables 2-6) consist of continuous streamflow monitoring at five streamflow-gaging stations. Water-quality data consist of chemical analyses of samples from five sites and specific conductance and temperature at two sites (tables 7-12), along with sediment discharge at two sites (tables 12 and 13). A more detailed discussion of equipment, techniques, and site locations may be found in Patt and others (1982).

Average monthly runoff for the 1980 and 1981 water years for the five streamflow-gaging sites is displayed in figure 3. The variations of specific conductance with time at the East Middle Fork Parachute Creek near Rio Blanco and East Fork Parachute Creek near Rulison sites are presented in figure 4.

## CLIMATE DATA

Climate data tabulated in tables 14-22 include maximum, minimum, and mean daily air temperatures, maximum, minimum and mean daily relative humidity, mean wind speed, mean wind direction, and total daily solar radiation at the JQS weather station. Daily precipitation data are reported at three stations (tables 23-25), and snow-course data are reported for one site (table 26). When measured mean values for temperature, humidity, wind velocity, and solar radiation were not available, estimates were derived by correlation studies using data from nearby weather stations.

## SELECTED REFERENCES


Patt, R. O., Adams, D. B., and Collins, D. L., 1982, Hydrologic data from Naval Oil Shale Reserves, Parachute Creek basin, northwestern Colorado, 1975-79: U.S. Geological Survey Open-File/OFSS Report 82-696, 129 p.

U.S. Geological Survey, 1981, Water resources data for Colorado--Water year 1980, Volume 2, Colorado River basin above Dolores River: U.S. Geological Survey Water-Data Report CO 80-2, 387 p.; available only from U.S. Department of Commerce, National Technical Information Service, Springfield, VA 22161, as report PB-82 188 293.

U.S. Geological Survey, 1982, Water resources data for Colorado--Water year 1981, Volume 2, Colorado River basin above Dolores River: U.S. Geological Survey Water-Data Report CO 81-2, 854 p.; available only from U.S. Department of Commerce, National Technical Information Service, Springfield, VA 22161, as report PB-83 105 098.

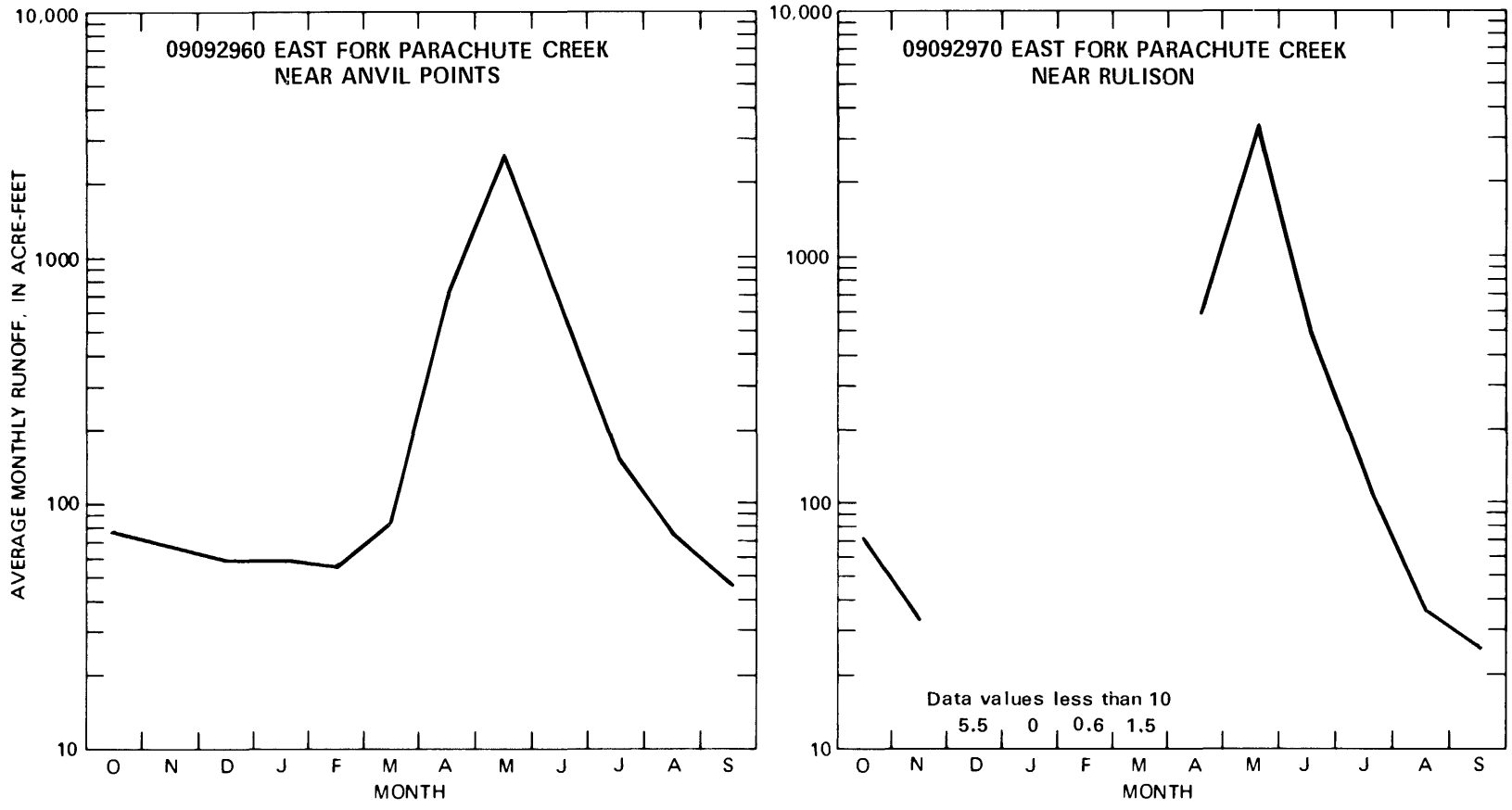


Figure 3.--Average monthly runoff for water years 1980 and 1981 at the five streamflow-gaging stations.

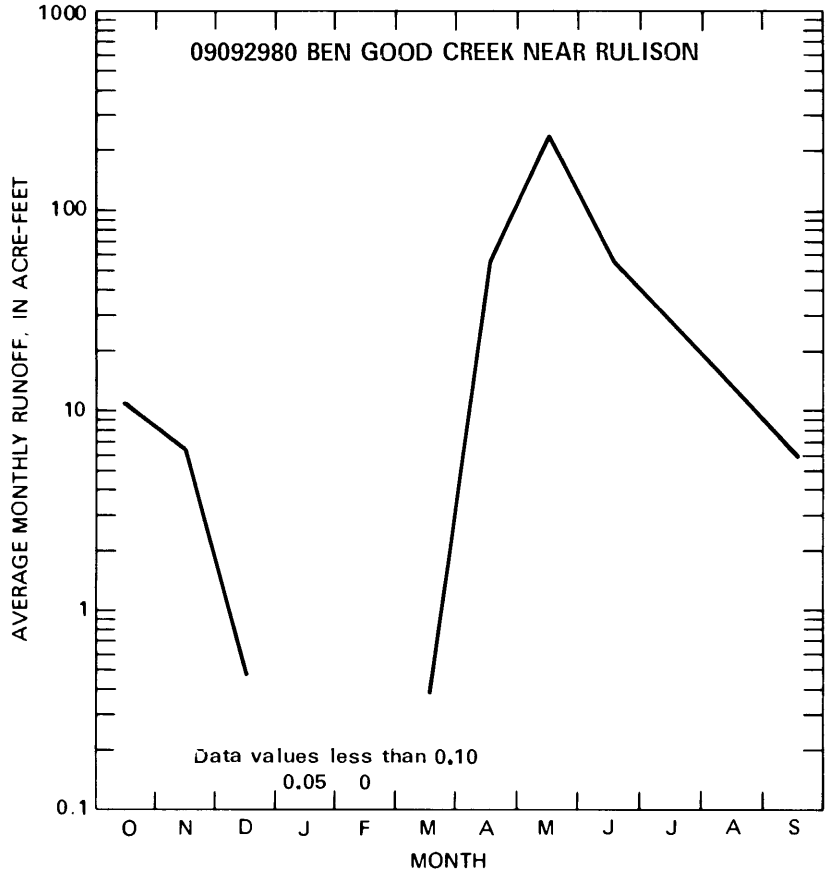


Figure 3.--Average monthly runoff for water years 1980 and 1981 at the five streamflow-gaging stations--Continued.

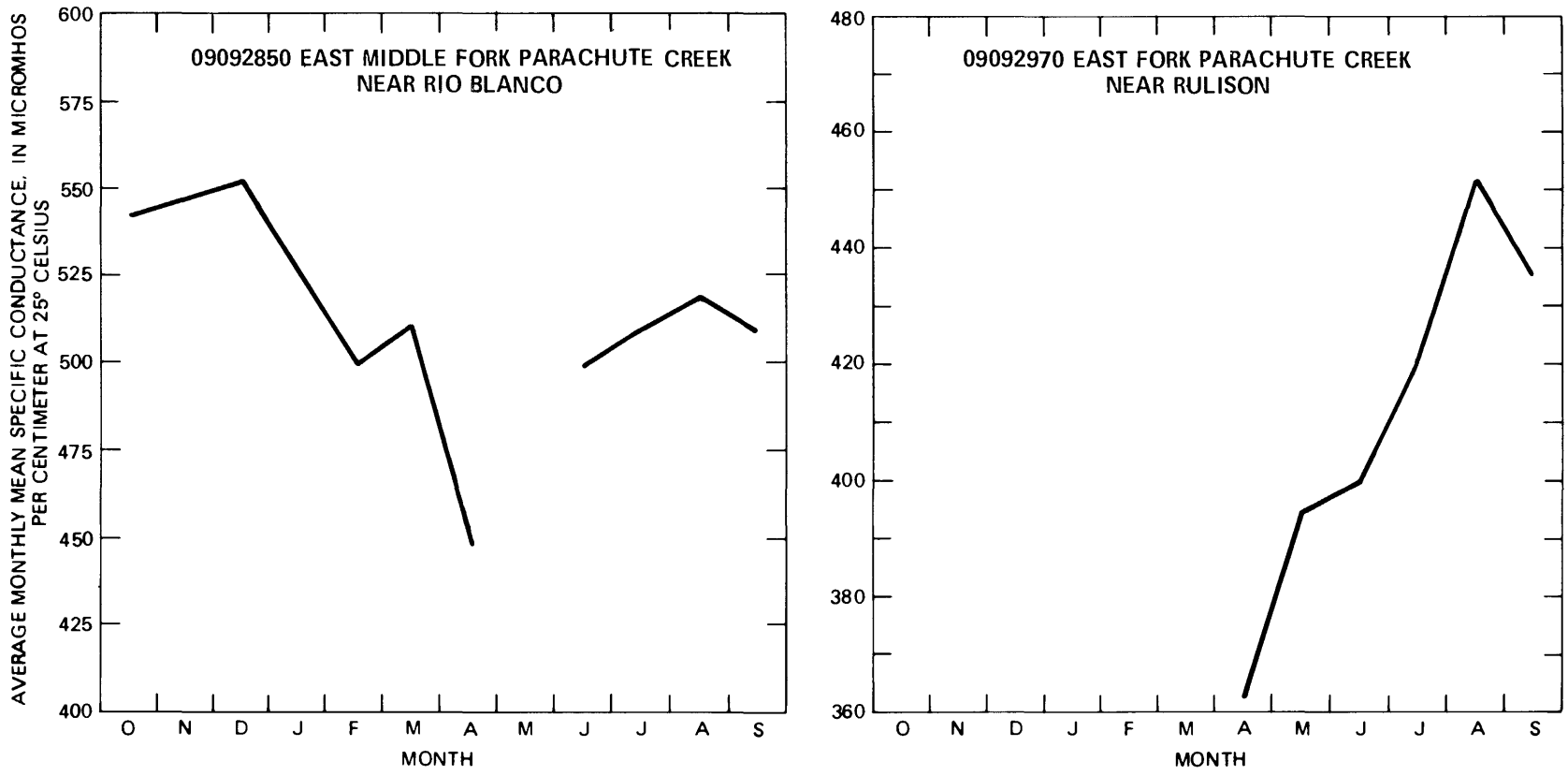


Figure 4.--Average monthly mean specific conductance at two streamflow-gaging stations in the Parachute Creek basin for water years 1980 and 1981.

HYDROLOGIC DATA

## Abbreviations

The following abbreviations are used in tables:

AC-FT = acre-foot
C = Celsius
CALORIES = calories per square centimeter per day
CAL YR = calendar year
CFS = cubic foot per second

DEG C = degree Celsius
DEG-MIN-SEC = degree-minute-second
ft = foot
$ft^3/s$ = cubic foot per second
km = kilometer

$km^2$ = square kilometer
lat = latitude
long = longitude
m = meter
MAX = maximum

M-D-Y = month-day-year
MG/L = milligram per liter
$m^3/s$ = cubic meter per second
mi = mile
$mi^2$ = square mile

MICROMHOS = micromhos per centimeter at 25°C
micromhos/cm = micromhos per centimeter at 25°C
MIN = minimum
MPH = mile per hour
No. = number

PARAM = parameter
SEQ = sequence
t = metric ton
T/DAY = short ton per day
UG/L = microgram per liter

USGS = U.S. Geological Survey
WTR YR = water year
Y-M-D = year-month-day

Table 2.--*Surface-water discharge at Northwater Creek near Anvil Points for water years 1980 and 1981*
[From U.S. Geological Survey, 1980, 1981]

09092830 NORTHWATER CREEK NEAR ANVIL POINTS, CO

LOCATION.--Lat 39°37'13", long 108°00'44", in NE¼NE¼ sec.14, T.5 S., R.95 W., in Garfield County, Hydrologic Unit 14010006, on right bank 50 ft (15 m) downstream from mouth of Bear Gulch, 750 ft (229 m) upstream from mouth, and 8.5 mi (14 km) southwest of Rio Blanco.

DRAINAGE AREA.--12.6 mi² (32.6 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 7,420 ft (2,262 m), from topographic map.

REMARKS.--Records good except for winter period, which are poor. No diversions or regulation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 225 ft³/s (6.37 m³/s) May 17, 1979, gage height, 3.30 ft (1.006 m); minimum daily, 0.01 ft³/s ( 0.001 m³/s) Aug. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 90 ft³/s (2.55 m³/s) May 22, gage height, 3.56 ft (1.085 m); minimum daily, 0.50 ft³/s (0.014 m³/s) Dec. 29 to Jan. 3, Jan. 10-13, Jan. 31, Feb. 27 to Mar. 3.

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

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | .75 | .95 | .60 | .50 | .52 | .50 | 1.3 | 51 | 20 | 3.5 | 1.8 | .74 |
| 2 | .75 | .95 | .60 | .50 | .54 | .50 | 1.3 | 49 | 15 | 3.6 | 1.8 | .74 |
| 3 | .75 | .95 | .60 | .50 | .54 | .50 | 1.3 | 54 | 14 | 3.7 | 1.7 | .74 |
| 4 | .74 | .89 | .60 | .52 | .54 | .52 | 1.7 | 60 | 12 | 3.2 | 1.6 | .74 |
| 5 | .75 | .76 | .60 | .54 | .54 | .54 | 2.4 | 68 | 12 | 3.0 | 1.6 | .74 |
| 6 | .75 | .75 | .60 | .54 | .54 | .54 | 2.5 | 67 | 11 | 3.0 | 1.6 | .74 |
| 7 | .73 | .81 | .60 | .54 | .52 | .51 | 2.3 | 75 | 9.2 | 3.0 | 1.4 | .77 |
| 8 | .75 | .88 | .60 | .54 | .52 | .52 | 2.3 | 79 | 8.2 | 3.1 | 1.4 | .74 |
| 9 | .75 | .85 | .60 | .52 | .54 | .54 | 2.5 | 72 | 7.5 | 2.9 | 1.3 | .77 |
| 10 | .75 | .81 | .62 | .50 | .56 | .54 | 2.9 | 64 | 6.8 | 2.8 | 1.3 | .99 |
| 11 | .75 | .75 | .64 | .50 | .56 | .60 | 2.7 | 74 | 6.4 | 2.7 | 1.2 | .86 |
| 12 | .75 | .85 | .64 | .50 | .56 | .64 | 2.5 | 80 | 6.1 | 2.7 | 1.1 | .78 |
| 13 | .75 | .95 | .64 | .50 | .56 | .70 | 2.5 | 68 | 6.0 | 2.7 | 1.2 | .74 |
| 14 | .77 | .95 | .62 | .52 | .56 | .76 | 3.2 | 56 | 5.8 | 2.8 | 1.2 | .74 |
| 15 | .75 | .95 | .60 | .54 | .56 | 1.0 | 3.9 | 59 | 5.5 | 2.6 | 1.7 | .74 |
| 16 | .75 | .95 | .58 | .56 | .56 | 1.1 | 4.2 | 61 | 5.5 | 2.4 | 1.3 | .70 |
| 17 | .75 | .95 | .56 | .58 | .56 | 1.1 | 4.7 | 60 | 5.2 | 2.4 | 1.2 | .70 |
| 18 | .77 | .87 | .54 | .58 | .56 | 1.2 | 6.1 | 59 | 5.2 | 2.3 | 1.1 | .70 |
| 19 | .78 | .87 | .54 | .58 | .56 | 1.3 | 9.4 | 53 | 5.2 | 2.2 | 1.0 | .70 |
| 20 | 1.1 | .81 | .54 | .56 | .56 | 1.4 | 14 | 48 | 5.0 | 2.2 | 1.0 | .74 |
| 21 | 1.2 | .75 | .54 | .54 | .56 | 1.5 | 20 | 52 | 4.9 | 2.1 | .96 | .74 |
| 22 | .97 | .69 | .54 | .54 | .56 | 1.5 | 37 | 81 | 4.6 | 2.1 | .95 | .74 |
| 23 | .99 | .65 | .56 | .54 | .56 | 1.3 | 47 | 69 | 4.4 | 2.1 | .98 | .74 |
| 24 | 1.0 | .65 | .58 | .56 | .56 | 1.4 | 47 | 63 | 4.2 | 2.1 | 1.2 | .74 |
| 25 | .96 | .66 | .58 | .58 | .54 | 1.4 | 43 | 50 | 4.0 | 2.6 | 1.0 | .74 |
| 26 | 1.0 | .64 | .56 | .58 | .52 | 1.3 | 40 | 45 | 3.8 | 2.4 | .99 | .74 |
| 27 | .86 | .62 | .54 | .56 | .50 | 1.4 | 39 | 35 | 3.7 | 2.1 | .92 | .74 |
| 28 | .82 | .60 | .52 | .56 | .50 | 1.5 | 43 | 30 | 3.7 | 2.0 | .86 | .74 |
| 29 | 1.0 | .60 | .50 | .54 | .50 | 1.3 | 51 | 27 | 3.5 | 1.9 | .78 | .70 |
| 30 | .89 | .60 | .50 | .52 | --- | 1.3 | 53 | 24 | 3.4 | 2.2 | .74 | .70 |
| 31 | .77 | --- | .50 | .50 | --- | 1.3 | --- | 21 | --- | 2.0 | .74 | --- |
| TOTAL | 25.85 | 23.96 | 17.84 | 16.64 | 15.76 | 30.21 | 493.7 | 1754 | 211.8 | 80.4 | 37.62 | 22.43 |
| MEAN | .83 | .80 | .58 | .54 | .54 | .97 | 16.5 | 56.6 | 7.06 | 2.59 | 1.21 | .75 |
| MAX | 1.2 | .95 | .64 | .58 | .56 | 1.5 | 53 | 81 | 20 | 3.7 | 1.8 | .99 |
| MIN | .73 | .60 | .50 | .50 | .50 | .50 | 1.3 | 21 | 3.4 | 1.9 | .74 | .70 |
| AC-FT | 51 | 48 | 35 | 33 | 31 | 60 | 979 | 3480 | 420 | 159 | 75 | 44 |

CAL YR 1979 TOTAL 2729.26 MEAN 7.48 MAX 130 MIN .20 AC-FT 5410
WTR YR 1980 TOTAL 2730.21 MEAN 7.46 MAX 81 MIN .50 AC-FT 5420

NOTE.--NO GAGE-HEIGHT RECORD NOV. 22 TO MAR. 6.

Table 2.--*Surface-water discharge at Northwater Creek near Anvil Points for water years 1980 and 1981*--Continued

09092830 NORTHWATER CREEK NEAR ANVIL POINTS, CO

LOCATION.--Lat 39°37'13", long 108°00'44", in NE¼NE¼ sec.14, T.5 S., R.95 W., in Garfield County, Hydrologic Unit 14010006, on right bank 50 ft (15 m) downstream from mouth of Bear Gulch, 750 ft (229 m) upstream from mouth, and 8.5 mi (14 km) southwest of Rio Blanco.

DRAINAGE AREA.--12.6 mi² (32.6 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 7,420 ft (2,262 m), from topographic map.

REMARKS.--Records good except for winter period, which are poor. No diversions or regulation above station.

AVERAGE DISCHARGE.--5 years, 4.15 ft³/s (0.117 m³/s), 3,010 acre-ft/yr. (3.71 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 225 ft³/s (6.37 m³/s) May 17, 1979, gage height, 3.30 ft (1.006 m); minimum daily, 0.01 ft³/s ( 0.001 m³/s) Aug. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9.0 ft³/s (0.25 m³/s) at 1700 Apr. 16, gage height, 3.13 ft (0.954 m); minimum daily, 0.30 ft³/s (0.008 m³/s) Aug. 19.

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

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | .80 | .95 | .68 | .54 | .52 | .75 | 2.0 | 1.7 | .90 | 1.0 | .49 | .45 |
| 2 | .82 | 1.0 | .68 | .54 | .52 | .64 | 2.4 | 3.3 | 1.0 | 1.2 | .48 | .36 |
| 3 | .83 | 1.0 | .68 | .54 | .52 | .64 | 2.1 | 3.1 | 1.3 | 1.0 | .47 | .36 |
| 4 | .75 | 1.0 | .68 | .54 | .52 | .64 | 1.3 | 2.3 | 1.2 | 1.0 | .46 | .37 |
| 5 | .75 | 1.0 | .66 | .54 | .52 | .86 | 1.2 | 3.1 | 1.2 | .90 | .45 | .38 |
| 6 | .75 | 1.1 | .64 | .54 | .52 | .75 | 1.2 | 2.6 | 1.4 | .90 | .44 | .51 |
| 7 | .75 | 1.1 | .62 | .54 | .52 | .64 | 1.6 | 2.3 | 1.6 | .90 | .34 | .52 |
| 8 | .79 | 1.1 | .62 | .54 | .52 | .75 | 1.2 | 2.3 | 1.6 | .90 | .34 | .41 |
| 9 | .73 | .97 | .62 | .54 | .52 | .86 | 2.3 | 2.1 | 1.6 | .90 | .33 | .42 |
| 10 | .75 | .95 | .62 | .54 | .52 | .75 | 3.8 | 2.4 | 1.6 | 1.2 | .33 | 1.0 |
| 11 | .73 | .91 | .62 | .54 | .52 | .86 | 4.4 | 1.8 | 1.6 | .90 | .38 | .86 |
| 12 | .97 | 1.1 | .60 | .54 | .52 | .86 | 4.0 | 1.9 | 1.5 | 1.0 | .37 | .58 |
| 13 | 1.1 | 1.4 | .60 | .54 | .52 | .86 | 4.1 | 1.6 | 1.2 | 1.4 | .36 | .59 |
| 14 | 1.2 | 1.0 | .60 | .54 | .52 | .97 | 5.4 | 1.6 | .90 | .90 | .32 | .48 |
| 15 | 1.9 | .76 | .60 | .54 | .52 | 1.1 | 7.2 | 2.1 | .75 | .90 | .38 | .48 |
| 16 | 1.5 | .75 | .58 | .52 | .52 | 1.2 | 8.0 | 1.8 | .90 | .75 | .51 | .48 |
| 17 | 1.3 | .75 | .56 | .52 | .52 | 1.3 | 8.1 | 1.6 | 1.1 | 1.6 | .41 | .48 |
| 18 | 1.2 | .75 | .56 | .52 | .52 | 1.2 | 6.8 | 1.6 | 1.2 | 1.4 | .34 | .36 |
| 19 | 1.2 | .75 | .56 | .52 | .52 | 1.3 | 6.9 | 1.6 | 1.0 | .90 | .30 | .32 |
| 20 | 1.2 | .80 | .56 | .52 | .52 | 1.5 | 5.1 | 2.1 | .90 | .75 | .31 | .32 |
| 21 | 1.1 | .78 | .56 | .52 | .52 | 1.5 | 4.2 | 2.1 | .90 | .60 | .31 | .32 |
| 22 | 1.1 | .76 | .56 | .52 | .52 | 1.6 | 3.5 | 2.1 | .75 | .60 | .31 | .32 |
| 23 | .92 | .74 | .56 | .52 | .52 | 2.8 | 3.2 | 2.1 | .75 | .89 | .32 | .32 |
| 24 | .76 | .72 | .56 | .52 | .52 | 2.3 | 3.0 | 2.0 | .60 | .87 | .36 | .32 |
| 25 | .93 | .70 | .56 | .52 | .75 | 2.0 | 2.4 | 1.9 | .60 | 1.0 | .38 | .32 |
| 26 | 1.1 | .70 | .56 | .52 | .64 | 2.9 | 1.9 | 1.8 | .60 | .85 | .33 | .32 |
| 27 | 1.1 | .70 | .56 | .52 | .64 | 2.5 | 1.7 | 1.7 | .90 | .83 | .33 | .32 |
| 28 | .92 | .70 | .56 | .52 | .86 | 2.0 | 1.7 | 1.6 | 1.6 | .67 | .34 | .32 |
| 29 | .84 | .70 | .56 | .52 | --- | 1.9 | 1.5 | 1.6 | 1.9 | .65 | .42 | .32 |
| 30 | .97 | .70 | .56 | .52 | --- | 2.4 | 1.3 | 1.6 | 1.2 | .64 | .69 | .32 |
| 31 | .97 | --- | .56 | .52 | --- | 2.1 | --- | 1.0 | --- | .50 | .56 | --- |
| TOTAL | 30.73 | 26.34 | 18.50 | 16.42 | 15.37 | 42.43 | 103.5 | 62.4 | 34.25 | 28.50 | 12.16 | 12.93 |
| MEAN | .99 | .88 | .60 | .53 | .55 | 1.37 | 3.45 | 2.01 | 1.14 | .92 | .39 | .43 |
| MAX | 1.9 | 1.4 | .68 | .54 | .86 | 2.9 | 8.1 | 3.3 | 1.9 | 1.6 | .69 | 1.0 |
| MIN | .73 | .70 | .56 | .52 | .52 | .64 | 1.2 | 1.0 | .60 | .50 | .30 | .32 |
| AC-FT | 61 | 52 | 37 | 33 | 30 | 84 | 205 | 124 | 68 | 57 | 24 | 26 |

CAL YR 1980 TOTAL 2738.13 MEAN 7.48 MAX 81 MIN .50 AC-FT 5430
WTR YR 1981 TOTAL 403.53 MEAN 1.11 MAX 8.1 MIN .30 AC-FT 800

NOTE.--NO GAGE-HEIGHT RECORD NOV. 20 TO FEB. 24.

Table 3.--*Surface-water discharge at East Middle Fork Parachute Creek near Rio Blanco for water years 1980 and 1981*
[From U.S. Geological Survey 1980, 1981]

09092850 EAST MIDDLE FORK PARACHUTE CREEK NEAR RIO BLANCO, CO

LOCATION.--Lat 39°37'15", long 108°01'46" in NW¼NW¼ sec.14, T.5 S., R.95 W., Garfield County, Hydrologic Unit 14010006, on right bank 0.5 mi (0.8 km) upstream from mouth of Corral Gulch, 1.1 mi (1.8 km) downstream from mouth of Northwater Creek, and 9 mi (14 km) southwest of Rio Blanco.

DRAINAGE AREA.--22.1 mi² (57.2 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 7,400 ft (2,256 m), from topographic map.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Numerous beaver dams are located upstream. No regulation or diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 186 ft³/s (5.27 m³/s) May 17, 1979, gage height, 3.39 ft (1.033 m); minimum daily, 0.18 ft³/s (0.005 m³/s) Oct. 1, 2, 5, Dec. 12, 1977, Jan. 22, 23, Feb. 15, 18, 19, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 128 ft³/s (3.62 m³/s) at 1600 May 22, gage height, 2.80 ft (0.853 m); minimum daily, 0.57 ft³/s (0.016 m³/s) Jan. 18.

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

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.2 | .88 | .76 | .90 | .92 | .70 | .86 | 68 | 31 | 5.2 | 2.0 | 1.1 |
| 2 | 1.2 | .88 | .76 | .88 | .90 | .72 | .88 | 76 | 28 | 5.4 | 2.0 | 1.1 |
| 3 | 1.2 | .84 | .76 | .86 | .90 | .74 | .90 | 73 | 25 | 5.4 | 1.8 | 1.1 |
| 4 | 1.1 | .84 | .76 | .84 | .88 | .76 | 1.1 | 78 | 24 | 4.7 | 1.8 | 1.1 |
| 5 | 1.1 | .84 | .76 | .82 | .86 | .78 | 1.3 | 83 | 22 | 4.2 | 1.9 | 1.1 |
| 6 | 1.1 | .88 | .76 | .80 | .84 | .80 | 1.5 | 87 | 20 | 4.0 | 2.0 | 1.1 |
| 7 | 1.0 | .88 | .92 | .78 | .82 | .80 | 1.9 | 101 | 20 | 3.8 | 2.0 | 1.2 |
| 8 | 1.0 | .88 | .92 | .76 | .80 | .72 | 2.2 | 94 | 18 | 3.7 | 1.7 | 1.2 |
| 9 | 1.0 | .96 | .92 | .74 | .78 | .72 | 2.3 | 100 | 17 | 3.3 | 1.4 | 1.1 |
| 10 | 1.0 | .88 | .92 | .72 | .76 | .72 | 2.9 | 98 | 15 | 3.1 | 1.4 | 1.2 |
| 11 | 1.0 | .88 | .96 | .70 | .75 | .76 | 3.1 | 100 | 14 | 3.1 | 1.4 | 1.3 |
| 12 | 1.0 | .88 | .92 | .68 | .76 | .84 | 3.1 | 105 | 14 | 2.8 | 1.4 | 1.2 |
| 13 | 1.1 | .88 | .88 | .66 | .76 | .84 | 3.3 | 107 | 12 | 2.8 | 1.4 | 1.1 |
| 14 | 1.0 | .84 | .84 | .64 | .76 | .82 | 3.7 | 111 | 12 | 2.9 | 1.4 | 1.1 |
| 15 | 1.0 | .84 | .80 | .62 | .74 | .82 | 5.0 | 108 | 11 | 2.6 | 1.4 | 1.1 |
| 16 | 1.0 | .84 | .84 | .60 | .74 | .84 | 5.7 | 105 | 10 | 2.3 | 1.5 | 1.1 |
| 17 | 1.1 | .80 | .84 | .60 | .74 | .80 | 6.4 | 105 | 9.7 | 2.3 | 1.5 | 1.0 |
| 18 | 1.1 | .88 | .84 | .57 | .76 | .76 | 8.3 | 105 | 9.3 | 2.2 | 1.4 | 1.0 |
| 19 | 1.1 | .92 | .88 | .68 | .76 | .72 | 12 | 89 | 8.4 | 2.2 | 1.4 | 1.0 |
| 20 | 1.3 | .88 | .80 | .76 | .76 | .72 | 16 | 95 | 8.0 | 2.2 | 1.3 | 1.1 |
| 21 | 1.3 | .88 | .76 | .72 | .76 | .74 | 21 | 102 | 7.4 | 2.2 | 1.3 | 1.1 |
| 22 | 1.3 | .80 | .76 | .76 | .74 | .74 | 29 | 118 | 7.4 | 2.1 | 1.2 | 1.1 |
| 23 | 1.2 | .84 | .80 | .96 | .74 | .76 | 36 | 111 | 6.7 | 2.2 | 1.1 | 1.1 |
| 24 | 1.2 | .80 | .92 | 1.2 | .74 | .76 | 42 | 94 | 6.7 | 2.2 | 1.3 | 1.1 |
| 25 | 1.2 | .88 | .92 | 1.1 | .74 | .78 | 42 | 70 | 6.7 | 2.8 | 1.2 | 1.1 |
| 26 | 1.1 | .84 | .96 | 1.0 | .72 | .78 | 45 | 56 | 6.2 | 2.4 | 1.2 | 1.1 |
| 27 | 1.1 | .76 | 1.0 | 1.0 | .72 | .80 | 47 | 49 | 6.2 | 1.9 | 1.1 | 1.1 |
| 28 | 1.1 | .76 | .96 | .98 | .72 | .80 | 50 | 44 | 5.7 | 1.9 | 1.1 | 1.1 |
| 29 | 1.2 | .76 | .92 | .96 | .70 | .82 | 56 | 41 | 5.7 | 1.8 | 1.1 | 1.0 |
| 30 | 1.2 | .76 | .90 | .94 | --- | .82 | 63 | 37 | 5.2 | 2.1 | 1.1 | 1.0 |
| 31 | .88 | --- | .90 | .94 | --- | .84 | --- | 34 | --- | 2.2 | 1.1 | --- |
| TOTAL | 34.38 | 25.48 | 26.64 | 25.17 | 22.57 | 24.02 | 513.44 | 2644 | 392.3 | 92.0 | 44.9 | 33.1 |
| MEAN | 1.11 | .85 | .86 | .81 | .78 | .77 | 17.1 | 85.3 | 13.1 | 2.97 | 1.45 | 1.10 |
| MAX | 1.3 | .96 | 1.0 | 1.2 | .92 | .84 | 63 | 118 | 31 | 5.4 | 2.0 | 1.3 |
| MIN | .88 | .76 | .76 | .57 | .70 | .70 | .86 | 34 | 5.2 | 1.8 | 1.1 | 1.0 |
| AC-FT | 68 | 51 | 53 | 50 | 45 | 48 | 1020 | 5240 | 778 | 182 | 89 | 66 |

CAL YR 1979 TOTAL 4255.73 MEAN 11.7 MAX 150 MIN .26 AC-FT 8440
WTR YR 1980 TOTAL 3873.00 MEAN 10.6 MAX 118 MIN .57 AC-FT 7690

NOTE.--NO GAGE-HEIGHT RECORD JAN. 27 TO MAR. 6.

Table 3.--*Surface-water discharge at East Middle Fork Parachute Creek near Rio Blanco for water years 1980 and 1981*--Continued

09092850 EAST MIDDLE FORK PARACHUTE CREEK NEAR RIO BLANCO, CO

LOCATION.--Lat 39°37'15", long 108°01'46" in NW¼NW¼ sec.14, T.5 S., R.95 W., Garfield County, Hydrologic Unit 14010006, on right bank 0.5 mi (0.8 km) upstream from mouth of Corral Gulch, 1.1 mi (1.8 km) downstream from mouth of Northwater Creek, and 9 mi (14 km) southwest of Rio Blanco.

DRAINAGE AREA.--22.1 mi² (57.2 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 7,400 ft (2,256 m), from topographic map.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Numerous beaver dams are located upstream. No regulation or diversion above station.

AVERAGE DISCHARGE.--5 years, 6.30 ft³/s (0.178 m³/s), 4,560 acre-ft/yr (5.62 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 186 ft³/s (5.27 m³/s) May 17, 1979, gage height, 3.39 ft (1.033 m); minimum daily, 0.18 ft³/s (0.005 m³/s) Oct. 1, 2, 5, Dec. 12, 1977, Jan. 22, 23, Feb. 15, 18, 19, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18 ft³/s (0.51 m³/s) at 1830 Apr. 16, gage height, 2.12 ft (0.646 m); minimum daily, 0.29 ft³/s (0.008 m³/s) Aug. 6, 9.

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

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | .99 | 1.4 | .80 | .74 | .67 | 1.1 | 3.4 | 2.8 | 1.0 | 1.2 | .41 | .50 |
| 2 | .91 | 1.4 | .80 | .74 | .67 | .91 | 3.6 | 2.8 | 1.2 | 1.1 | .40 | .50 |
| 3 | 1.0 | 1.4 | .80 | .74 | .67 | .82 | 3.8 | 2.8 | 1.6 | .99 | .39 | .50 |
| 4 | 1.0 | 1.4 | .80 | .74 | .72 | .82 | 4.0 | 2.8 | 1.5 | .91 | .39 | .50 |
| 5 | 1.0 | 1.4 | .80 | .74 | .67 | .99 | 4.0 | 2.8 | 1.5 | .77 | .32 | .50 |
| 6 | 1.0 | 1.4 | .80 | .74 | .73 | .99 | 4.0 | 2.9 | 1.6 | .77 | .29 | .50 |
| 7 | 1.0 | 1.4 | .80 | .72 | .73 | .77 | 4.0 | 2.9 | 1.8 | .72 | .30 | .50 |
| 8 | 1.0 | 1.4 | .80 | .72 | .73 | .82 | 4.1 | 2.9 | 1.8 | .66 | .30 | .51 |
| 9 | 1.0 | 1.4 | .80 | .67 | .73 | .91 | 4.1 | 2.9 | 1.8 | .72 | .29 | .56 |
| 10 | 1.1 | 1.3 | .80 | .72 | .94 | .99 | 4.1 | 2.9 | 1.8 | 1.1 | .38 | .72 |
| 11 | 1.1 | 1.4 | .80 | .67 | .74 | 1.0 | 4.6 | 2.9 | 1.8 | .77 | .53 | .82 |
| 12 | 1.1 | 1.4 | .80 | .72 | .69 | 1.0 | 3.9 | 2.9 | 1.7 | .82 | .47 | .66 |
| 13 | 1.3 | 1.6 | .80 | .73 | .69 | 1.0 | 4.3 | 2.9 | 1.7 | 1.2 | .40 | .61 |
| 14 | 1.3 | 1.5 | .80 | .78 | .69 | 1.0 | 7.2 | 2.9 | 1.1 | .82 | .36 | .56 |
| 15 | 1.8 | .54 | .80 | .73 | .70 | 1.0 | 9.7 | 2.8 | .71 | .72 | .32 | .51 |
| 16 | 1.4 | .65 | .80 | .73 | .65 | 1.2 | 7.5 | 2.7 | 1.1 | .72 | .53 | .56 |
| 17 | 1.4 | .76 | .80 | .74 | .70 | 1.2 | 10 | 2.6 | 1.7 | 1.1 | .49 | .56 |
| 18 | 1.4 | .81 | .80 | .74 | .70 | 1.3 | 10 | 2.5 | 1.6 | 1.4 | .40 | .56 |
| 19 | 1.2 | .82 | .78 | .69 | .76 | 1.3 | 9.4 | 2.4 | 1.6 | .82 | .40 | .51 |
| 20 | 1.1 | .80 | .78 | .69 | .81 | 1.4 | 8.3 | 2.3 | 1.6 | .72 | .40 | .56 |
| 21 | 1.0 | .80 | .78 | .64 | .81 | 1.5 | 7.0 | 2.2 | 1.6 | .66 | .40 | .51 |
| 22 | 1.1 | .80 | .78 | .69 | .90 | 1.5 | 6.1 | 2.2 | 1.6 | .61 | .40 | .46 |
| 23 | 1.1 | .80 | .78 | .70 | .82 | 1.5 | 5.0 | 2.2 | 1.5 | .65 | .40 | .35 |
| 24 | 1.2 | .80 | .78 | .75 | .91 | 1.8 | 4.6 | 2.2 | 1.6 | .80 | .41 | .35 |
| 25 | 1.3 | .80 | .78 | .70 | .99 | 2.0 | 4.5 | 2.1 | 1.7 | .86 | .42 | .35 |
| 26 | 1.3 | .80 | .78 | .70 | .91 | 2.2 | 4.2 | 2.0 | 1.8 | .63 | .43 | .35 |
| 27 | 1.4 | .80 | .78 | .71 | .91 | 2.0 | 4.0 | 1.9 | 2.1 | .67 | .44 | .35 |
| 28 | 1.3 | .80 | .74 | .66 | .99 | 2.5 | 3.7 | 1.8 | 1.4 | .56 | .45 | .30 |
| 29 | 1.1 | .80 | .74 | .66 | --- | 2.8 | 3.4 | 1.8 | 1.7 | .49 | .46 | .35 |
| 30 | 1.4 | .80 | .74 | .66 | --- | 3.0 | 3.2 | 1.8 | 1.1 | .48 | .47 | .30 |
| 31 | 1.4 | --- | .74 | .66 | --- | 3.2 | --- | 1.1 | --- | .42 | .50 | --- |
| TOTAL | 36.70 | 32.18 | 24.38 | 22.02 | 21.63 | 44.52 | 159.7 | 76.7 | 46.31 | 24.86 | 12.55 | 14.87 |
| MEAN | 1.18 | 1.07 | .79 | .71 | .77 | 1.44 | 5.32 | 2.47 | 1.54 | .80 | .40 | .50 |
| MAX | 1.8 | 1.6 | .80 | .78 | .99 | 3.2 | 10 | 2.9 | 2.1 | 1.4 | .53 | .82 |
| MIN | .91 | .54 | .74 | .64 | .65 | .77 | 3.2 | 1.1 | .71 | .42 | .29 | .30 |
| AC-FT | 73 | 64 | 48 | 44 | 43 | 88 | 317 | 152 | 92 | 49 | 25 | 29 |

CAL YR 1980 TOTAL 3884.76 MEAN 10.6 MAX 118 MIN .54 AC-FT 7710
WTR YR 1981 TOTAL 516.42 MEAN 1.41 MAX 10 MIN .29 AC-FT 1020

NOTE.--NO GAGE-HEIGHT RECORD NOV. 20 TO JAN. 8, MAR. 11 TO APR. 9, AUG. 20 TO SEPT. 11.

Table 4.--*Surface-water discharge at East Fork Parachute Creek near Anvil Points for water years 1980 and 1981*
[From U.S. Geological Survey, 1980, 1981]

09092960 EAST FORK PARACHUTE CREEK NEAR ANVIL POINTS, CO

LOCATION.--Lat 39°33'18", long 107°58'56", in SW¼NE¼ sec.3, T.6 S., R.95 W., Garfield County, Hydrologic Unit 14010006, on right bank 700 ft (213 m) downstream from first Anvil Creek and 4.2 mi (6.8 km) northwest of Anvil Points.

DRAINAGE AREA.--14.5 mi² (37.6 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--water-stage recorder. Altitude of gage is 7,860 ft (2,396 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height record, which are poor. No diversions or regulation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 226 ft³/s (6.40 m³/s) May 22, 1979, gage height, 3.60 ft (1.097 m); minimum daily, 0.07 ft³/s (0.002 m³/s) Aug. 9-11, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 141 ft³/s (3.99 m³/s) at 0200 May 23, gage height, 3.12 ft (0.951 m); minimum daily, 0.82 ft³/s (0.023 m³/s) Sept. 6.

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

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.0 | 1.0 | .98 | .91 | 1.1 | 1.4 | 2.1 | 50 | 48 | 6.3 | 2.0 | 1.1 |
| 2 | 1.0 | 1.0 | 1.0 | .91 | 1.1 | 1.4 | 2.1 | 48 | 44 | 6.9 | 2.0 | 1.0 |
| 3 | 1.0 | 1.0 | 1.0 | .91 | 1.1 | 1.4 | 2.3 | 51 | 41 | 7.3 | 2.1 | .98 |
| 4 | 1.0 | .98 | 1.0 | .91 | 1.1 | 1.3 | 2.5 | 52 | 37 | 5.8 | 1.9 | .91 |
| 5 | .98 | .98 | .98 | .91 | 1.1 | 1.3 | 3.5 | 60 | 35 | 5.5 | 1.9 | .85 |
| 6 | .98 | .98 | .96 | .91 | 1.0 | 1.4 | 4.4 | 69 | 33 | 5.2 | 1.8 | .82 |
| 7 | .98 | .94 | .94 | .91 | 1.1 | 1.4 | 4.1 | 80 | 30 | 5.3 | 1.6 | .93 |
| 8 | .98 | .94 | .92 | .91 | 1.1 | 1.4 | 3.5 | 85 | 28 | 5.7 | 1.5 | 1.1 |
| 9 | .98 | 1.0 | .86 | .91 | 1.1 | 1.3 | 4.1 | 96 | 26 | 4.8 | 1.5 | 1.2 |
| 10 | .96 | 1.0 | .92 | 1.2 | 1.1 | 1.3 | 5.9 | 98 | 25 | 4.5 | 1.4 | 1.6 |
| 11 | .98 | 1.0 | .96 | 1.3 | 1.1 | 1.3 | 6.2 | 107 | 23 | 4.6 | 1.4 | 1.5 |
| 12 | 1.0 | 1.0 | .96 | 1.0 | 1.1 | 1.3 | 5.3 | 114 | 22 | 4.4 | 1.4 | 1.2 |
| 13 | 1.1 | 1.0 | .94 | .91 | 1.1 | 1.3 | 5.9 | 98 | 21 | 4.4 | 1.7 | 1.1 |
| 14 | 1.1 | 1.0 | .94 | 1.2 | 1.1 | 1.3 | 8.1 | 84 | 19 | 4.7 | 1.7 | 1.0 |
| 15 | 1.1 | 1.0 | .94 | 1.4 | 1.2 | 1.5 | 12 | 79 | 18 | 3.9 | 2.9 | 1.1 |
| 16 | 1.1 | 1.0 | .98 | 1.4 | 1.1 | 1.5 | 14 | 83 | 17 | 3.6 | 2.6 | 1.0 |
| 17 | 1.1 | 1.1 | .98 | 1.5 | 1.1 | 1.5 | 18 | 95 | 16 | 3.3 | 1.9 | 1.0 |
| 18 | 1.1 | 1.2 | 1.0 | 1.3 | 1.2 | 1.5 | 23 | 91 | 15 | 3.2 | 1.7 | 1.0 |
| 19 | 1.1 | 1.1 | 1.0 | 1.3 | 1.5 | 1.5 | 28 | 85 | 14 | 3.2 | 1.5 | .94 |
| 20 | 1.1 | 1.1 | 1.0 | 1.3 | 1.3 | 2.1 | 30 | 100 | 13 | 3.1 | 1.6 | 1.0 |
| 21 | 1.1 | 1.1 | .96 | 1.3 | 1.3 | 2.7 | 34 | 121 | 12 | 3.0 | 1.5 | 1.0 |
| 22 | 1.1 | 1.1 | .94 | 1.3 | 1.3 | 3.1 | 36 | 130 | 11 | 2.9 | 1.4 | 1.1 |
| 23 | 1.1 | 1.1 | .94 | 1.3 | 1.2 | 2.7 | 39 | 136 | 10 | 3.0 | 1.6 | 1.1 |
| 24 | 1.1 | 1.0 | .92 | 1.4 | 1.2 | 2.3 | 40 | 120 | 9.2 | 3.1 | 2.3 | 1.1 |
| 25 | 1.1 | 1.0 | .91 | 1.4 | 1.2 | 2.7 | 39 | 100 | 8.5 | 3.3 | 1.9 | 1.1 |
| 26 | 1.1 | 1.0 | .91 | 1.2 | 1.2 | 2.3 | 40 | 82 | 8.0 | 3.4 | 1.8 | 1.1 |
| 27 | 1.1 | 1.0 | .91 | 1.1 | 1.2 | 2.3 | 40 | 73 | 7.6 | 2.9 | 1.6 | 1.1 |
| 28 | 1.1 | 1.0 | .91 | 1.1 | 1.4 | 2.3 | 43 | 67 | 7.3 | 2.6 | 1.4 | 1.1 |
| 29 | 1.1 | .98 | .91 | 1.1 | 1.5 | 2.3 | 47 | 62 | 6.5 | 2.5 | 1.1 | 1.1 |
| 30 | 1.1 | .96 | .91 | 1.1 | --- | 2.3 | 50 | 57 | 6.3 | 2.4 | 1.0 | 1.2 |
| 31 | 1.1 | --- | .91 | 1.1 | --- | 2.3 | --- | 52 | --- | 2.2 | 1.1 | --- |
| TOTAL | 32.74 | 30.56 | 29.39 | 35.40 | 34.2 | 55.7 | 593.0 | 2625 | 611.4 | 127.0 | 52.8 | 32.33 |
| MEAN | 1.06 | 1.02 | .95 | 1.14 | 1.18 | 1.80 | 19.8 | 84.7 | 20.4 | 4.10 | 1.70 | 1.08 |
| MAX | 1.1 | 1.2 | 1.0 | 1.5 | 1.5 | 3.1 | 50 | 136 | 48 | 7.3 | 2.9 | 1.6 |
| MIN | .96 | .94 | .86 | .91 | 1.0 | 1.3 | 2.1 | 48 | 6.3 | 2.2 | 1.0 | .82 |
| AC-FT | 65 | 61 | 58 | 70 | 68 | 110 | 1180 | 5210 | 1210 | 252 | 105 | 64 |

CAL YR 1979 TOTAL 5015.83 MEAN 13.7 MAX 180 MIN .39 AC-FT 9950
WTR YR 1980 TOTAL 4259.52 MEAN 11.6 MAX 136 MIN .82 AC-FT 8450

NOTE.--NO GAGE-HEIGHT RECORD OCT. 5 TO DEC. 25.

Table 4.--*Surface-water discharge at East Fork Parachute Creek near Anvil Points for water years 1980 and 1981*--Continued

09092960 EAST FORK PARACHUTE CREEK NEAR ANVIL POINTS, CO

LOCATION.--Lat 39°33'18", long 107°58'56", in SW¼NE¼ sec.3, T.6 S., R.95 W., Garfield County, Hydrologic Unit 14010006, on right bank 700 ft (213 m) downstream from first Anvil Creek and 4.2 mi (6.8 km) northwest of Anvil Points.

DRAINAGE AREA.--14.5 mi² (37.6 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 7,860 ft (2,396 m), from topographic map.

REMARKS.--Records good except those for winter period which are fair. No diversions or regulation.

AVERAGE DISCHARGE.--5 years, 6.89 ft³/s (0.195 m³/s), 4,990 acre-ft/yr (6.153 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 226 ft³/s (6.40 m³/s) May 22, 1979, gage height, 3.60 ft (1.097 m); minimum daily, 0.07 ft³/s (0.002 m³/s) Aug. 9-11, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26 ft³/s (0.74 m³/s) at 1700 Apr. 16, gage height, 2.13 ft (0.649 m); minimum daily, 0.30 ft³/s (0.008 m³/s) Sept. 29, 30.

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

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.1 | 1.2 | 1.1 | .81 | .72 | .91 | .64 | 3.7 | 2.6 | 1.2 | .62 | .68 |
| 2 | 1.2 | 1.3 | 1.1 | .76 | .72 | .91 | 1.5 | 3.9 | 2.2 | 1.4 | .62 | .51 |
| 3 | 1.2 | 1.2 | 1.1 | .72 | .72 | .91 | 1.6 | 7.8 | 2.9 | 1.4 | .55 | .48 |
| 4 | 1.1 | 1.2 | 1.1 | .72 | .72 | .97 | 1.2 | 6.3 | 4.0 | 1.4 | .48 | .44 |
| 5 | 1.1 | 1.2 | 1.1 | .72 | .72 | .97 | 1.1 | 5.2 | 2.8 | 1.2 | .43 | .37 |
| 6 | 1.1 | 1.2 | 1.1 | .72 | .72 | .91 | 1.7 | 6.2 | 2.5 | 1.0 | .43 | .44 |
| 7 | 1.1 | 1.3 | 1.1 | .72 | .72 | .91 | 2.5 | 4.8 | 2.3 | .97 | .43 | .51 |
| 8 | 1.1 | 1.2 | 1.0 | .74 | .72 | .91 | 2.0 | 4.1 | 2.1 | .91 | .43 | .45 |
| 9 | 1.1 | 1.2 | 1.0 | .74 | .72 | .91 | 3.7 | 4.1 | 1.9 | .95 | .42 | .47 |
| 10 | 1.1 | 1.1 | 1.0 | .74 | .63 | .82 | 7.7 | 3.7 | 1.7 | 1.5 | .43 | .86 |
| 11 | 1.1 | 1.1 | 1.0 | .74 | .62 | .81 | 7.6 | 3.8 | 1.4 | 1.1 | .74 | .70 |
| 12 | 1.3 | 1.3 | 1.0 | .74 | .62 | .81 | 6.1 | 3.5 | 1.4 | 1.7 | .70 | .58 |
| 13 | 1.5 | 1.9 | 1.0 | .74 | .62 | .81 | 5.8 | 3.1 | 1.4 | 1.3 | .62 | .52 |
| 14 | 1.8 | 1.4 | 1.0 | .74 | .71 | .81 | 8.1 | 3.0 | 1.4 | 1.2 | .62 | .56 |
| 15 | 2.9 | 1.3 | .87 | .74 | .72 | .89 | 10 | 2.9 | 1.3 | .97 | 1.7 | .53 |
| 16 | 2.0 | 1.3 | .81 | .74 | .72 | 1.1 | 12 | 3.0 | 1.4 | .81 | 2.3 | .47 |
| 17 | 1.9 | 1.3 | .81 | .72 | .72 | 1.0 | 13 | 3.2 | 1.3 | 1.0 | 2.1 | .47 |
| 18 | 1.8 | 1.3 | .81 | .72 | .72 | .93 | 11 | 3.1 | 1.2 | 1.4 | .95 | .43 |
| 19 | 1.7 | 1.3 | .81 | .72 | .72 | .91 | 12 | 2.7 | 1.2 | 1.1 | .75 | .40 |
| 20 | 1.8 | 1.3 | .81 | .72 | .81 | .82 | 9.0 | 2.6 | 1.1 | .85 | .53 | .39 |
| 21 | 1.7 | 1.3 | .81 | .72 | .81 | .81 | 7.2 | 3.0 | 1.1 | .69 | .49 | .39 |
| 22 | 1.6 | .95 | .81 | .72 | .81 | .81 | 5.9 | 3.3 | 1.1 | .69 | .48 | .34 |
| 23 | 1.5 | .81 | .81 | .74 | .81 | .94 | 5.5 | 3.4 | 1.1 | .65 | .48 | .34 |
| 24 | 1.2 | .95 | .81 | .74 | .84 | 1.1 | 5.6 | 2.9 | 1.1 | .95 | .48 | .34 |
| 25 | 1.4 | 1.0 | .81 | .76 | .91 | 1.1 | 5.6 | 2.7 | 1.0 | .99 | .43 | .34 |
| 26 | 1.3 | 1.0 | .81 | .76 | .91 | 1.3 | 5.4 | 2.6 | 1.0 | .91 | .43 | .34 |
| 27 | 1.4 | 1.1 | .81 | .76 | .91 | 1.7 | 5.0 | 2.7 | 1.3 | .81 | .45 | .34 |
| 28 | 1.3 | 1.1 | .81 | .76 | .91 | 1.2 | 4.6 | 2.5 | 3.0 | .73 | .48 | .33 |
| 29 | 1.5 | 1.1 | .81 | .74 | --- | 1.1 | 4.1 | 2.8 | 3.1 | .71 | .48 | .30 |
| 30 | 1.5 | 1.1 | .81 | .72 | --- | 1.2 | 4.0 | 2.6 | 1.5 | .62 | .70 | .30 |
| 31 | 1.2 | --- | .81 | .68 | --- | .75 | --- | 2.7 | --- | .63 | 1.2 | --- |
| TOTAL | 44.6 | 36.01 | 28.53 | 22.81 | 21.00 | 30.03 | 171.14 | 111.9 | 53.4 | 31.74 | 21.95 | 13.62 |
| MEAN | 1.44 | 1.20 | .92 | .74 | .75 | .97 | 5.70 | 3.61 | 1.78 | 1.02 | .71 | .45 |
| MAX | 2.9 | 1.9 | 1.1 | .81 | .91 | 1.7 | 13 | 7.8 | 4.0 | 1.7 | 2.3 | .86 |
| MIN | 1.1 | .81 | .81 | .68 | .62 | .75 | .64 | 2.5 | 1.0 | .62 | .42 | .30 |
| AC-FT | 88 | 71 | 57 | 45 | 42 | 60 | 339 | 222 | 106 | 63 | 44 | 27 |

CAL YR 1980 TOTAL 4275.97 MEAN 11.7 MAX 136 MIN .81 AC-FT 8480
WTR YR 1981 TOTAL 586.73 MEAN 1.61 MAX 13 MIN .30 AC-FT 1160

Table 5.--*Surface-water discharge at East Fork Parachute Creek near Rulison for water years 1980 and 1981*
[From U.S. Geological Survey, 1980, 1981]

09092970 EAST FORK PARACHUTE CREEK NEAR RULISON, CO

LOCATION.--Lat 39°34'03", long 108°01'14", in SE¼NW¼ sec.35, T.5 S., R.95 W., Garfield County, Hydrologic Unit 14010006, on right bank 0.3 mi (0.8 km) below East Fork Falls and 6.4 mi (10.3 km) northwest of Rulison.

DRAINAGE AREA.--20.4 mi² (52.8 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 6,880 ft (2,100 m), from topographic map. Since Apr. 25, 1980, supplementary water-stage recorder 1,000 ft (305 m) downstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 174 ft³/s (4.93 m³/s) May 11, 1980, gage height, 2.87 ft (0.875 m); maximum gage height, 3.49 ft (1.064 m), May 17, 1978, site and datum then in use; no flow many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 174 ft³/s (4.93 m³/s) at 2000 May 11, gage height, 2.87 ft (0.875 m), only peak above base of 100 ft³/s (2.8 m³/s); no flow many days.

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

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | .96 | .50 | .00 | .00 | .00 | .00 | .26 | 76 | 36 | 5.7 | 1.7 | .87 |
| 2 | .96 | .60 | .00 | .00 | .00 | .00 | .28 | 72 | 32 | 6.3 | 1.7 | .76 |
| 3 | .96 | .70 | .00 | .00 | .00 | .00 | .30 | 75 | 30 | 6.0 | 1.7 | .71 |
| 4 | .96 | .76 | .00 | .00 | .00 | .00 | .32 | 81 | 27 | 4.6 | 1.5 | .64 |
| 5 | .94 | .86 | .00 | .00 | .00 | .00 | .35 | 90 | 24 | 4.2 | 1.4 | .64 |
| 6 | .94 | .90 | .00 | .00 | .00 | .00 | .40 | 101 | 22 | 3.9 | 1.4 | .58 |
| 7 | .94 | .92 | .00 | .00 | .00 | .00 | .50 | 113 | 21 | 4.1 | 1.2 | .58 |
| 8 | .94 | .92 | .00 | .00 | .00 | .00 | .60 | 118 | 19 | 4.3 | 1.1 | .69 |
| 9 | .94 | .92 | .00 | .00 | .00 | .00 | .70 | 134 | 18 | 3.7 | 1.0 | .85 |
| 10 | .94 | .90 | .00 | .00 | .00 | .00 | .90 | 146 | 16 | 3.5 | .98 | 1.1 |
| 11 | .94 | .85 | .00 | .00 | .00 | .00 | 1.2 | 160 | 16 | 3.2 | .89 | 1.4 |
| 12 | .94 | .80 | .00 | .00 | .00 | .00 | 2.0 | 132 | 16 | 3.0 | .88 | .95 |
| 13 | .95 | .70 | .00 | .00 | .00 | .00 | 3.0 | 109 | 15 | 3.3 | .96 | .83 |
| 14 | .98 | .60 | .00 | .00 | .00 | .00 | 4.0 | 98 | 14 | 3.6 | .89 | .73 |
| 15 | .99 | .56 | .00 | .00 | .00 | .00 | 5.0 | 104 | 13 | 2.9 | 1.7 | .73 |
| 16 | .99 | .52 | .00 | .00 | .00 | .00 | 6.0 | 107 | 13 | 2.6 | 1.6 | .68 |
| 17 | 1.0 | .50 | .00 | .00 | .00 | .00 | 7.0 | 123 | 12 | 2.6 | 1.2 | .67 |
| 18 | 1.1 | .45 | .00 | .00 | .00 | .00 | 8.0 | 116 | 11 | 2.6 | .86 | .67 |
| 19 | 1.2 | .39 | .00 | .00 | .00 | .00 | 11 | 110 | 11 | 2.4 | .77 | .61 |
| 20 | 1.0 | .37 | .00 | .00 | .00 | .02 | 14 | 126 | 10 | 2.5 | .83 | .72 |
| 21 | .90 | .30 | .00 | .00 | .00 | .04 | 19 | 146 | 9.5 | 2.5 | .84 | .77 |
| 22 | .88 | .20 | .00 | .00 | .00 | .06 | 25 | 161 | 8.9 | 2.3 | .80 | .86 |
| 23 | .86 | .08 | .00 | .00 | .00 | .08 | 40 | 153 | 8.3 | 2.6 | .81 | .91 |
| 24 | .84 | .06 | .00 | .00 | .00 | .10 | 48 | 146 | 8.0 | 2.6 | 1.5 | 1.1 |
| 25 | .84 | .00 | .00 | .00 | .00 | .12 | 45 | 109 | 7.4 | 2.6 | 1.2 | 1.1 |
| 26 | .80 | .00 | .00 | .00 | .00 | .14 | 40 | 75 | 7.1 | 2.8 | 1.2 | .85 |
| 27 | .80 | .00 | .00 | .00 | .00 | .16 | 42 | 67 | 6.8 | 2.2 | 1.1 | .84 |
| 28 | .80 | .00 | .00 | .00 | .00 | .18 | 50 | 67 | 6.6 | 1.9 | .86 | .79 |
| 29 | .74 | .00 | .00 | .00 | .00 | .20 | 63 | 63 | 6.3 | 1.8 | .83 | .79 |
| 30 | .70 | .00 | .00 | .00 | --- | .22 | 70 | 50 | 5.7 | 1.8 | .93 | .79 |
| 31 | .60 | --- | .00 | .00 | --- | .24 | --- | 42 | --- | 1.8 | .87 | --- |
| TOTAL | 28.33 | 14.36 | .00 | .00 | .00 | 1.56 | 507.81 | 3270 | 450.6 | 99.9 | 35.20 | 24.21 |
| MEAN | .91 | .48 | .000 | .000 | .000 | .050 | 16.9 | 105 | 15.0 | 3.22 | 1.14 | .81 |
| MAX | 1.2 | .92 | .00 | .00 | .00 | .24 | 70 | 161 | 36 | 6.3 | 1.7 | 1.4 |
| MIN | .60 | .00 | .00 | .00 | .00 | .00 | .26 | 42 | 5.7 | 1.8 | .77 | .58 |
| AC-FT | 56 | 28 | .00 | .00 | .00 | 3.1 | 1010 | 6490 | 894 | 198 | 70 | 48 |

CAL YR 1979 TOTAL 4584.61 MEAN 12.6 MAX 220 MIN .00 AC-FT 9090
WTR YR 1980 TOTAL 4431.97 MEAN 12.1 MAX 161 MIN .00 AC-FT 8790

NOTE.--NO GAGE-HEIGHT RECORD OCT. 1 TO APR. 25.

Table 5.--*Surface-water discharge at East Fork Parachute Creek near Rulison for water years 1980 and 1981*--Continued

09092970 EAST FORK PARACHUTE CREEK NEAR RULISON, CO

LOCATION.--Lat 39°34'03", long 108°01'14", in SE¼NW¼ sec.35, T.5 S., R.95 W., Garfield County, Hydrologic Unit 14010006, on right bank 0.3 mi (0.8 km) below East Fork Falls and 6.4 mi (10.3 km) northwest of Rulison.

DRAINAGE AREA.--20.4 mi² (52.8 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 6,880 ft (2,100 m), from topographic map. Since Apr. 25, 1980, supplementary water-stage recorder 1,000 ft (305 m) downstream at different datum.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. Daily discharge determined from supplementary gage and adjusted for difference in flow between sites.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 174 ft³/s (4.93 m³/s) May 11, 1980, gage height, 2.87 ft (0.875 m); maximum gage height, 3.49 ft (1.064 m), May 17, 1978, site and datum then in use; no flow many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16 ft³/s (0.45 m³/s) at 1900 Apr. 17, on basis of computation of peak flow at supplementary gage and adjusted for difference in flow between sites. No peak above base of 100 ft³/s (2.8 m³/s); no flow many days.

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

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | .84 | .90 | .37 | .00 | .00 | .00 | .00 | 2.4 | 2.2 | .73 | .00 | .00 |
| 2 | .69 | 1.0 | .37 | .00 | .00 | .00 | .00 | 2.4 | 1.9 | .87 | .00 | .00 |
| 3 | .75 | .90 | .37 | .00 | .00 | .00 | .00 | 7.7 | 2.6 | .73 | .00 | .00 |
| 4 | .84 | .90 | .37 | .00 | .00 | .00 | .00 | 6.0 | 3.4 | .58 | .00 | .00 |
| 5 | 1.1 | .93 | .37 | .00 | .00 | .00 | .00 | 3.7 | 2.3 | .42 | .00 | .00 |
| 6 | 1.2 | 1.1 | .37 | .00 | .00 | .00 | .00 | 5.3 | 2.1 | .38 | .00 | .00 |
| 7 | 1.2 | 1.1 | .37 | .00 | .00 | .00 | .00 | 3.7 | 1.9 | .26 | .00 | .00 |
| 8 | 1.3 | 1.1 | .33 | .00 | .00 | .00 | .00 | 3.5 | 1.7 | .23 | .00 | .00 |
| 9 | 1.3 | 1.1 | .33 | .00 | .00 | .00 | .00 | 3.5 | 1.3 | .28 | .00 | .16 |
| 10 | 1.3 | 1.1 | .33 | .00 | .00 | .00 | 1.5 | 3.1 | .88 | .77 | .00 | .29 |
| 11 | 1.3 | 1.0 | .33 | .00 | .21 | .00 | 2.7 | 3.3 | .78 | .44 | .00 | .23 |
| 12 | 1.6 | 1.2 | .33 | .00 | .21 | .00 | 2.4 | 2.9 | .74 | .77 | .00 | .00 |
| 13 | 1.9 | 1.7 | .33 | .00 | .21 | .00 | .67 | 2.8 | .78 | .68 | .00 | .00 |
| 14 | 2.0 | 1.1 | .00 | .00 | .00 | .00 | 1.6 | 2.4 | .97 | .36 | .00 | .00 |
| 15 | 3.2 | .90 | .29 | .00 | .00 | .00 | 5.1 | 2.2 | 1.1 | .23 | .00 | .00 |
| 16 | 2.4 | .60 | .27 | .00 | .00 | .00 | 7.9 | 2.6 | .97 | .13 | .75 | .00 |
| 17 | 2.4 | .43 | .27 | .00 | .00 | .00 | 9.6 | 3.0 | .77 | .26 | .70 | .00 |
| 18 | 2.3 | .00 | .00 | .00 | .00 | .00 | 9.6 | 2.8 | .74 | .49 | .00 | .00 |
| 19 | 1.9 | .00 | .27 | .00 | .00 | .00 | 10 | 2.3 | .63 | .20 | .00 | .00 |
| 20 | 2.4 | .00 | .00 | .00 | .00 | .00 | 8.2 | 2.3 | .58 | .28 | .00 | .00 |
| 21 | 2.3 | .00 | .00 | .00 | .00 | .00 | 6.3 | 3.0 | .49 | .23 | .00 | .00 |
| 22 | 2.0 | .00 | .00 | .00 | .00 | .00 | 5.1 | 3.0 | .49 | .23 | .00 | .00 |
| 23 | 1.8 | .00 | .00 | .00 | .00 | .00 | 4.9 | 3.1 | .39 | .22 | .00 | .00 |
| 24 | 1.3 | .32 | .00 | .00 | .00 | .00 | 4.7 | 2.6 | .31 | .32 | .00 | .00 |
| 25 | 1.1 | .33 | .00 | .00 | .00 | .00 | 4.7 | 2.3 | .23 | .33 | .00 | .00 |
| 26 | 1.0 | .33 | .00 | .00 | .00 | .00 | 4.2 | 2.0 | .18 | .30 | .00 | .00 |
| 27 | 1.1 | .37 | .00 | .00 | .00 | .00 | 4.0 | 2.3 | .36 | .27 | .00 | .00 |
| 28 | 1.0 | .37 | .00 | .00 | .00 | .00 | 3.3 | 2.1 | 1.7 | .24 | .00 | .00 |
| 29 | 1.3 | .37 | .00 | .00 | --- | .00 | 2.8 | 2.3 | 2.3 | .24 | .00 | .00 |
| 30 | 1.3 | .37 | .00 | .00 | --- | .00 | 2.8 | 2.2 | .96 | .21 | .00 | .00 |
| 31 | .90 | --- | .00 | .00 | --- | .00 | --- | 2.3 | --- | .00 | .00 | --- |
| TOTAL | 47.02 | 19.52 | 5.67 | .00 | .63 | .00 | 102.07 | 95.1 | 35.75 | 11.68 | 1.45 | .68 |
| MEAN | 1.52 | .65 | .18 | .000 | .023 | .000 | 3.40 | 3.07 | 1.19 | .38 | .047 | .023 |
| MAX | 3.2 | 1.7 | .37 | .00 | .21 | .00 | 10 | 7.7 | 3.4 | .87 | .75 | .29 |
| MIN | .69 | .00 | .00 | .00 | .00 | .00 | .00 | 2.0 | .18 | .00 | .00 | .00 |
| AC-FT | 93 | 39 | 11 | .00 | 1.2 | .00 | 202 | 189 | 71 | 23 | 2.9 | 1.3 |

CAL YR 1980 TOTAL 4461.49 MEAN 12.2 MAX 161 MIN .00 AC-FT 8850
WTR YR 1981 TOTAL 319.57 MEAN .88 MAX 10 MIN .00 AC-FT 634

NOTE.--NO GAGE-HEIGHT RECORD NOV. 14 TO APR. 10.

Table 6.--*Surface-water discharge at Ben Good Creek near Rulison for water years 1980 and 1981*
[From U.S. Geological Survey, 1980, 1981]

09092980 BEN GOOD CREEK NEAR RULISON, CO

LOCATION.--Lat 39°35'25", long 108°02'26", in NE¼NW¼ sec.27, T.5 S., R.95 W., Garfield County, Hydrologic Unit 14010006, on left bank 0.2 mi (0.3 km) upstream from East Fork Parachute Creek and 8.3 mi (13.4 km) northwest of Rulison.

DRAINAGE AREA.--4.04 mi² (10.46 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 6,520 ft (1,990 m), from topographic map.

REMARKS.--Records good except those for periods of no gage-height record or those for winter period, which are poor. No regulation or diversions above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13 ft³/s (0.37 m³/s) May 7, 1980, gage height, 2.78 ft (0.847 m); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13 ft³/s (0.37 m³/s) at 0200 May 7, gage height, 2.78 ft (0.847 m); no flow many days.

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

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | .21 | .22 | .00 | .00 | .00 | .00 | .14 | 9.2 | 4.7 | .82 | .48 | .28 |
| 2 | .21 | .21 | .00 | .00 | .00 | .00 | .16 | 9.7 | 4.4 | .87 | .47 | .25 |
| 3 | .22 | .21 | .00 | .00 | .00 | .00 | .18 | 10 | 4.0 | .85 | .45 | .25 |
| 4 | .22 | .22 | .00 | .00 | .00 | .00 | .20 | 11 | 4.0 | .79 | .44 | .23 |
| 5 | .22 | .22 | .00 | .00 | .00 | .00 | .22 | 11 | 3.9 | .77 | .44 | .22 |
| 6 | .22 | .22 | .00 | .00 | .00 | .00 | .24 | 11 | 3.5 | .73 | .43 | .22 |
| 7 | .22 | .22 | .00 | .00 | .00 | .00 | .27 | 10 | 3.0 | .74 | .44 | .22 |
| 8 | .22 | .21 | .00 | .00 | .00 | .00 | .30 | 6.9 | 2.6 | .76 | .43 | .22 |
| 9 | .22 | .21 | .00 | .00 | .00 | .00 | .34 | 7.0 | 2.4 | .79 | .42 | .22 |
| 10 | .20 | .21 | .00 | .00 | .00 | .00 | .38 | 7.7 | 2.3 | .78 | .40 | .22 |
| 11 | .20 | .21 | .00 | .00 | .00 | .00 | .42 | 7.5 | 2.0 | .74 | .40 | .21 |
| 12 | .20 | .22 | .00 | .00 | .00 | .00 | .45 | 7.5 | 1.3 | .80 | .37 | .21 |
| 13 | .20 | .21 | .00 | .00 | .00 | .00 | .50 | 8.1 | 1.3 | .81 | .37 | .20 |
| 14 | .20 | .18 | .00 | .00 | .00 | .00 | .54 | 9.5 | 1.1 | .86 | .36 | .20 |
| 15 | .20 | .18 | .00 | .00 | .00 | .00 | .60 | 9.2 | 1.0 | .82 | .39 | .20 |
| 16 | .20 | .18 | .00 | .00 | .00 | .00 | .70 | 8.5 | 1.0 | .88 | .40 | .19 |
| 17 | .20 | .17 | .00 | .00 | .00 | .00 | .80 | 8.0 | 1.0 | .88 | .36 | .18 |
| 18 | .21 | .17 | .00 | .00 | .00 | .00 | .90 | 8.3 | 1.0 | .80 | .34 | .18 |
| 19 | .24 | .18 | .00 | .00 | .00 | .00 | 1.1 | 8.5 | .98 | .78 | .34 | .17 |
| 20 | .32 | .18 | .00 | .00 | .00 | .00 | 1.3 | 9.5 | .98 | .77 | .33 | .17 |
| 21 | .41 | .18 | .00 | .00 | .00 | .00 | 1.7 | 9.3 | .98 | .75 | .32 | .17 |
| 22 | .38 | .15 | .00 | .00 | .00 | .00 | 2.3 | 8.1 | .96 | .66 | .34 | .17 |
| 23 | .38 | .10 | .00 | .00 | .00 | .00 | 3.2 | 6.4 | .94 | .67 | .33 | .17 |
| 24 | .38 | .06 | .00 | .00 | .00 | .00 | 3.8 | 4.9 | .92 | .67 | .35 | .17 |
| 25 | .33 | .03 | .00 | .00 | .00 | .00 | 3.0 | 3.6 | .90 | .64 | .32 | .16 |
| 26 | .24 | .00 | .00 | .00 | .00 | .02 | 3.9 | 3.5 | .88 | .56 | .31 | .16 |
| 27 | .24 | .00 | .00 | .00 | .00 | .04 | 4.5 | 4.1 | .88 | .55 | .33 | .15 |
| 28 | .24 | .00 | .00 | .00 | .00 | .06 | 5.6 | 4.4 | .86 | .54 | .31 | .15 |
| 29 | .24 | .00 | .00 | .00 | .00 | .08 | 6.8 | 5.1 | .84 | .53 | .30 | .15 |
| 30 | .24 | .00 | .00 | .00 | --- | .10 | 8.2 | 4.9 | .84 | .49 | .29 | .13 |
| 31 | .23 | --- | .00 | .00 | --- | .12 | --- | 4.7 | --- | .48 | .29 | --- |
| TOTAL | 7.64 | 4.55 | .00 | .00 | .00 | .42 | 52.74 | 237.1 | 55.46 | 22.58 | 11.55 | 5.82 |
| MEAN | .25 | .15 | .000 | .000 | .000 | .014 | 1.76 | 7.65 | 1.85 | .73 | .37 | .19 |
| MAX | .41 | .22 | .00 | .00 | .00 | .12 | 8.2 | 11 | 4.7 | .88 | .48 | .28 |
| MIN | .20 | .00 | .00 | .00 | .00 | .00 | .14 | 3.5 | .84 | .48 | .29 | .13 |
| AC-FT | 15 | 9.0 | .00 | .00 | .00 | .8 | 105 | 470 | 110 | 45 | 23 | 12 |

CAL YR 1979 TOTAL 405.81 MEAN 1.11 MAX 11 MIN .00 AC-FT 805
WTR YR 1980 TOTAL 397.86 MEAN 1.09 MAX 11 MIN .00 AC-FT 789

NOTE.--NO GAGE-HEIGHT RECORD NOV. 22 TO APR. 24.

Table 6.--*Surface-water discharge at Ben Good Creek near Rulison for water years 1980 and 1981*--Continued

09092980 BEN GOOD CREEK NEAR RULISON, CO

LOCATION.--Lat 39°35'25", long 108°02'26", in NE¼NW¼ sec.27, T.5 S., R.95 W., Garfield County, Hydrologic Unit 14010006, on left bank 0.2 mi (0.3 km) upstream from East Fork Parachute Creek and 8.3 mi (13.4 km) northwest of Rulison.

DRAINAGE AREA.--4.04 mi² (10.46 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 6,520 ft (1,990 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height record and those for winter period, which are fair. No regulation or diversions above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13 ft³/s (0.37 m³/s) May 7, 1980, gage height, 2.78 ft (0.847 m); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3.4 ft³/s (0.096 m³/s) at 2300 June 28, gage height, 2.24 ft (0.683 m); no flow many days.

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

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | .13 | .09 | .02 | .01 | .00 | .00 | .00 | .09 | .09 | .11 | .04 | .01 |
| 2 | .13 | .09 | .02 | .01 | .00 | .00 | .00 | .10 | .08 | .12 | .03 | .00 |
| 3 | .13 | .10 | .02 | .01 | .00 | .00 | .00 | .14 | .09 | .12 | .03 | .00 |
| 4 | .12 | .10 | .03 | .01 | .00 | .00 | .00 | .12 | .09 | .11 | .03 | .00 |
| 5 | .12 | .10 | .03 | .01 | .00 | .00 | .01 | .10 | .08 | .10 | .02 | .00 |
| 6 | .12 | .09 | .04 | .00 | .00 | .00 | .01 | .12 | .07 | .09 | .03 | .01 |
| 7 | .11 | .09 | .04 | .00 | .00 | .00 | .01 | .10 | .07 | .09 | .03 | .01 |
| 8 | .11 | .09 | .04 | .00 | .00 | .00 | .01 | .10 | .07 | .08 | .03 | .00 |
| 9 | .11 | .09 | .03 | .00 | .00 | .00 | .02 | .11 | .06 | .09 | .03 | .00 |
| 10 | .11 | .09 | .03 | .00 | .00 | .00 | .02 | .11 | .06 | .09 | .05 | .00 |
| 11 | .11 | .09 | .02 | .00 | .00 | .00 | .03 | .11 | .06 | .08 | .05 | .00 |
| 12 | .12 | .09 | .02 | .00 | .00 | .00 | .04 | .11 | .06 | .10 | .05 | .00 |
| 13 | .12 | .10 | .01 | .00 | .00 | .00 | .07 | .11 | .06 | .11 | .04 | .00 |
| 14 | .12 | .09 | .01 | .00 | .00 | .00 | .10 | .11 | .07 | .09 | .03 | .00 |
| 15 | .11 | .09 | .01 | .00 | .00 | .00 | .15 | .10 | .08 | .08 | .04 | .00 |
| 16 | .10 | .09 | .00 | .00 | .00 | .00 | .07 | .12 | .08 | .08 | .04 | .00 |
| 17 | .10 | .09 | .00 | .00 | .00 | .00 | .07 | .12 | .07 | .08 | .03 | .00 |
| 18 | .10 | .09 | .00 | .00 | .00 | .00 | .06 | .12 | .07 | .08 | .02 | .00 |
| 19 | .10 | .07 | .00 | .00 | .00 | .00 | .05 | .11 | .07 | .07 | .02 | .00 |
| 20 | .10 | .02 | .00 | .00 | .00 | .00 | .06 | .10 | .07 | .07 | .01 | .00 |
| 21 | .10 | .01 | .00 | .00 | .00 | .00 | .07 | .11 | .07 | .06 | .02 | .00 |
| 22 | .10 | .01 | .00 | .00 | .00 | .00 | .07 | .11 | .07 | .06 | .02 | .00 |
| 23 | .09 | .01 | .00 | .00 | .00 | .00 | .07 | .10 | .07 | .07 | .02 | .00 |
| 24 | .09 | .02 | .01 | .00 | .00 | .00 | .08 | .10 | .07 | .07 | .02 | .00 |
| 25 | .09 | .02 | .01 | .00 | .00 | .00 | .08 | .09 | .07 | .07 | .02 | .00 |
| 26 | .09 | .02 | .01 | .00 | .00 | .00 | .08 | .09 | .07 | .06 | .01 | .00 |
| 27 | .09 | .02 | .01 | .00 | .00 | .00 | .08 | .08 | .08 | .06 | .01 | .00 |
| 28 | .09 | .02 | .01 | .00 | .00 | .00 | .09 | .08 | .25 | .06 | .01 | .00 |
| 29 | .09 | .02 | .01 | .00 | --- | .00 | .09 | .09 | .21 | .06 | .01 | .00 |
| 30 | .09 | .02 | .01 | .00 | --- | .00 | .09 | .09 | .14 | .05 | .02 | .00 |
| 31 | .09 | --- | .00 | .00 | --- | .00 | --- | .09 | --- | .04 | .01 | --- |
| TOTAL | 3.28 | 1.92 | .44 | .05 | .00 | .00 | 1.58 | 3.23 | 2.55 | 2.50 | .82 | .03 |
| MEAN | .11 | .064 | .014 | .002 | .000 | .000 | .053 | .10 | .085 | .081 | .026 | .001 |
| MAX | .13 | .10 | .04 | .01 | .00 | .00 | .15 | .14 | .25 | .12 | .05 | .01 |
| MIN | .09 | .01 | .00 | .00 | .00 | .00 | .00 | .08 | .06 | .04 | .01 | .00 |
| AC-FT | 6.5 | 3.8 | .9 | .10 | .00 | .00 | 3.1 | 6.4 | 5.1 | 5.0 | 1.6 | .06 |

CAL YR 1980 TOTAL 391.31 MEAN 1.07 MAX 11 MIN .00 AC-FT 776
WTR YR 1981 TOTAL 16.40 MEAN .045 MAX .25 MIN .00 AC-FT 33

NOTE.--NO GAGE-HEIGHT RECORD JAN. 7 TO APR. 14.

Table 7.--*Water-quality data for Northwater Creek near Anvil Points*
[From U.S. Geological Survey, 1980, 1981]

09092830 NORTHWATER CREEK NEAR ANVIL POINTS, CO--Continued

WATER-QUALITY RECORDS

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

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

| DATE | TIME | STREAM-FLOW, INSTAN-TANEOUS (CFS) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH FIELD (UNITS) | TEMPER-ATURE, WATER (DEG C) | OXYGEN, DIS-SOLVED (MG/L) | HARD-NESS (MG/L AS CACO3) | HARD-NESS, NONCAR-BONATE (MG/L CACO3) | CALCIUM DIS-SOLVED (MG/L AS CA) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) | SODIUM, DIS-SOLVED (MG/L AS NA) | SODIUM AD-SORP-TION RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 03... | 1220 | .89 | 535 | 8.1 | 11.0 | 8.7 | 210 | 0 | 52 | 20 | 33 | 1.0 |
| 30... | 1130 | .87 | 532 | 8.4 | 4.0 | 10.9 | 210 | 0 | 51 | 19 | 31 | .9 |
| DEC | | | | | | | | | | | | |
| 06... | 1015 | .70 | 530 | 8.2 | 2.0 | 10.1 | 230 | 0 | 56 | 22 | 36 | 1.0 |
| JAN | | | | | | | | | | | | |
| 17... | 1105 | 2.2 | 545 | 8.1 | 2.5 | 10.1 | 230 | 0 | 55 | 21 | 36 | 1.0 |
| APR | | | | | | | | | | | | |
| 08... | 1100 | 2.2 | 519 | 8.0 | 4.0 | 10.6 | 210 | 0 | 52 | 20 | 33 | 1.0 |
| MAY | | | | | | | | | | | | |
| 02... | 0730 | 45 | 390 | 7.9 | -- | 10.0 | 160 | 0 | 42 | 14 | 24 | .8 |
| JUL | | | | | | | | | | | | |
| 08... | 1430 | 3.1 | 490 | 8.2 | -- | 7.6 | 210 | -- | 51 | 19 | 30 | .9 |
| AUG | | | | | | | | | | | | |
| 06... | 1215 | 1.6 | 507 | 8.3 | 14.0 | -- | 200 | 0 | 50 | 19 | 32 | 1.0 |

| DATE | POTAS-SIUM, DIS-SOLVED (MG/L AS K) | ALKA-LINITY (MG/L AS CACO3) | SULFATE DIS-SOLVED (MG/L AS SO4) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) | SILICA, DIS-SOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) | SOLIDS, DIS-SOLVED (TONS PER AC-FT) | SOLIDS, DIS-SOLVED (TONS PER DAY) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) | PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P) | ARSENIC DIS-SOLVED (UG/L AS AS) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 03... | .7 | 250 | 41 | 1.7 | .3 | 15 | 315 | .43 | .76 | .08 | .040 | 4 |
| 30... | .5 | 250 | 38 | 1.8 | .2 | 14 | 307 | .42 | .72 | .09 | .040 | 4 |
| DEC | | | | | | | | | | | | |
| 06... | .7 | 260 | -- | 1.5 | .2 | 15 | -- | -- | -- | .23 | .030 | 3 |
| JAN | | | | | | | | | | | | |
| 17... | .9 | 260 | 23 | 3.2 | .2 | 15 | 313 | .43 | 1.86 | .39 | .000 | 5 |
| APR | | | | | | | | | | | | |
| 08... | .7 | 240 | 36 | 1.5 | .2 | 14 | 305 | .41 | 1.81 | .62 | .040 | 3 |
| MAY | | | | | | | | | | | | |
| 02... | .7 | 180 | 19 | 1.7 | .2 | 16 | 232 | .32 | 28.5 | 1.2 | .060 | 5 |
| JUL | | | | | | | | | | | | |
| 08... | .8 | -- | 32 | 1.4 | .3 | 17 | -- | -- | -- | .13 | .010 | 6 |
| AUG | | | | | | | | | | | | |
| 06... | 1.0 | 250 | 34 | 2.1 | .3 | 16 | 306 | .42 | 1.32 | .05 | .330 | 5 |

| DATE | BARIUM, DIS-SOLVED (UG/L AS BA) | BORON, DIS-SOLVED (UG/L AS B) | CADMIUM DIS-SOLVED (UG/L AS CD) | COPPER, DIS-SOLVED (UG/L AS CU) | IRON, DIS-SOLVED (UG/L AS FE) | LEAD, DIS-SOLVED (UG/L AS PB) | LITHIUM DIS-SOLVED (UG/L AS LI) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) | MERCURY DIS-SOLVED (UG/L AS HG) | SELE-NIUM, DIS-SOLVED (UG/L AS SE) | STRON-TIUM, DIS-SOLVED (UG/L AS SR) | ZINC, DIS-SOLVED (UG/L AS ZN) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 03... | 80 | 60 | <1 | 2 | 10 | 0 | 20 | 5 | .0 | 0 | 900 | <3 |
| 30... | 80 | 50 | <1 | 0 | 10 | 0 | 20 | 6 | .0 | 0 | 820 | <3 |
| DEC | | | | | | | | | | | | |
| 06... | 90 | 40 | <1 | 4 | 20 | 0 | 5 | 4 | .0 | 0 | 930 | <3 |
| JAN | | | | | | | | | | | | |
| 17... | 80 | 70 | <1 | 0 | <10 | 0 | <4 | 4 | .0 | 1 | 940 | <3 |
| APR | | | | | | | | | | | | |
| 08... | 70 | 60 | <1 | 2 | <10 | 0 | 9 | 5 | .0 | 1 | 830 | <3 |
| MAY | | | | | | | | | | | | |
| 02... | 60 | 40 | <1 | 5 | <10 | 0 | 20 | 4 | .0 | 1 | 600 | <3 |
| JUL | | | | | | | | | | | | |
| 08... | 80 | 40 | <1 | 6 | <10 | 0 | 5 | 3 | .0 | 1 | 840 | 3 |
| AUG | | | | | | | | | | | | |
| 06... | 90 | 60 | <1 | 3 | <10 | 4 | 6 | 5 | .0 | 1 | 860 | <3 |

Table 7.--*Water-quality data for Northwater Creek near Anvil Points*--Continued

09092830 NORTHWATER CREEK NEAR ANVIL POINTS, CO--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

| DATE | TIME | STREAM-FLOW, INSTAN-TANEOUS (CFS) | SPE-CIFIC CON-DUCT-ANCE (UMHOS) | SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | OXYGEN, DIS-SOLVED (MG/L) | HARD-NESS (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) | SODIUM AD-SORP-TION RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 03... | 1300 | .81 | 510 | 517 | 8.0 | 5.0 | 10.8 | 210 | 51 | 20 | 33 | 1.0 |
| NOV | | | | | | | | | | | | |
| 20... | 1325 | .68 | 548 | 548 | 7.7 | .5 | 11.0 | 220 | 54 | 20 | 35 | 1.0 |
| JAN | | | | | | | | | | | | |
| 08... | 1310 | .54 | 550 | 561 | 8.1 | .0 | -- | 220 | 54 | 21 | 37 | 1.1 |
| FEB | | | | | | | | | | | | |
| 24... | 1330 | .52 | 530 | 456 | 8.3 | 1.0 | 9.9 | 230 | 54 | 22 | 36 | 1.0 |
| APR | | | | | | | | | | | | |
| 23... | 1450 | 3.0 | 430 | 433 | 8.2 | -- | 8.6 | 180 | 44 | 16 | 27 | .9 |
| MAY | | | | | | | | | | | | |
| 13... | 1400 | 1.9 | 460 | 465 | 8.2 | 11.0 | 8.4 | 200 | 49 | 18 | 29 | .9 |
| JUN | | | | | | | | | | | | |
| 17... | 1240 | 1.2 | 490 | 500 | 8.2 | 17.0 | 8.0 | 210 | 53 | 19 | 32 | 1.0 |
| JUL | | | | | | | | | | | | |
| 22... | 1300 | .58 | 490 | 467 | 8.5 | 21.0 | -- | 200 | 50 | 19 | 37 | 1.1 |
| AUG | | | | | | | | | | | | |
| 13... | 1200 | .36 | 522 | 522 | 8.3 | 14.0 | 9.0 | 210 | 53 | 19 | 36 | 1.2 |
| SEP | | | | | | | | | | | | |
| 14... | 1310 | .42 | 527 | 527 | 8.4 | 16.0 | 8.2 | 220 | 54 | 20 | 35 | 1.1 |

| DATE | POTAS-SIUM, DIS-SOLVED (MG/L AS K) | ALKA-LINITY LAB (MG/L AS CACO3) | SULFATE DIS-SOLVED (MG/L AS SO4) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) | SILICA, DIS-SOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) | SOLIDS, DIS-SOLVED (TONS PER AC-FT) | SOLIDS, DIS-SOLVED (TONS PER DAY) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) | PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) | ARSENIC DIS-SOLVED (UG/L AS AS) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 03... | .8 | 250 | 39 | 2.1 | .2 | 14 | 312 | .42 | .68 | .02 | .000 | 2 |
| NOV | | | | | | | | | | | | |
| 20... | .7 | 260 | 44 | 2.8 | .3 | 14 | 329 | .45 | .60 | .26 | .070 | 4 |
| JAN | | | | | | | | | | | | |
| 08... | .6 | 210 | 83 | 3.5 | .2 | 14 | 342 | .47 | .50 | .41 | .040 | 5 |
| FEB | | | | | | | | | | | | |
| 24... | .5 | 260 | 41 | 1.7 | .2 | 14 | 328 | .45 | .46 | .35 | .030 | 5 |
| APR | | | | | | | | | | | | |
| 23... | .7 | 200 | 28 | 1.6 | .2 | 15 | 256 | .35 | 2.1 | .48 | .080 | 4 |
| MAY | | | | | | | | | | | | |
| 13... | .8 | 220 | 32 | 1.3 | .2 | 14 | 279 | .38 | 1.4 | .22 | .040 | 9 |
| JUN | | | | | | | | | | | | |
| 17... | .7 | 240 | 24 | 1.2 | .2 | 16 | 293 | .40 | .95 | .25 | .090 | 4 |
| JUL | | | | | | | | | | | | |
| 22... | .8 | 240 | 27 | 1.6 | .2 | 16 | 297 | .40 | .47 | .09 | .060 | 5 |
| AUG | | | | | | | | | | | | |
| 13... | .8 | 260 | 24 | 1.7 | .2 | 16 | 309 | .42 | .30 | .14 | .080 | 13 |
| SEP | | | | | | | | | | | | |
| 14... | .8 | 260 | 27 | 1.7 | .2 | 15 | 311 | .42 | .35 | .02 | .010 | 7 |

Table 7.--*Water-quality data for Northwater Creek near Anvil Points*--
Continued

09092830 NORTHWATER CREEK NEAR ANVIL POINTS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

| DATE | BARIUM, DIS-SOLVED (UG/L AS BA) | BORON, DIS-SOLVED (UG/L AS B) | CADMIUM DIS-SOLVED (UG/L AS CD) | COPPER, DIS-SOLVED (UG/L AS CU) | IRON, DIS-SOLVED (UG/L AS FE) | LEAD, DIS-SOLVED (UG/L AS PB) | LITHIUM DIS-SOLVED (UG/L AS LI) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) | MERCURY DIS-SOLVED (UG/L AS HG) | SELE-NIUM, DIS-SOLVED (UG/L AS SE) | STRON-TIUM, DIS-SOLVED (UG/L AS SR) | ZINC, DIS-SOLVED (UG/L AS ZN) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 03... | 80 | 40 | <1 | 6 | 20 | 2 | 7 | 5 | .0 | 0 | 880 | <3 |
| NOV | | | | | | | | | | | | |
| 20... | 80 | 40 | <1 | 5 | <10 | 2 | 20 | 10 | .0 | 0 | 910 | 5 |
| JAN | | | | | | | | | | | | |
| 08... | 80 | 40 | 1 | 2 | 20 | 3 | 5 | 5 | .0 | 0 | 920 | 20 |
| FEB | | | | | | | | | | | | |
| 24... | 90 | 20 | <1 | 4 | 10 | 0 | 20 | 150 | .0 | 0 | 900 | 10 |
| APR | | | | | | | | | | | | |
| 23... | 80 | 40 | <1 | 4 | 10 | 2 | 6 | 7 | .0 | 0 | 720 | 20 |
| MAY | | | | | | | | | | | | |
| 13... | 80 | 30 | <1 | 5 | 20 | 8 | 7 | 5 | .1 | 0 | 780 | 5 |
| JUN | | | | | | | | | | | | |
| 17... | 200 | 40 | <1 | 3 | <10 | 4 | 20 | 9 | .0 | 0 | 850 | 4 |
| JUL | | | | | | | | | | | | |
| 22... | 90 | 60 | <1 | 7 | 10 | 2 | 10 | 10 | .0 | 0 | 870 | 3 |
| AUG | | | | | | | | | | | | |
| 13... | 90 | 50 | <1 | 5 | 13 | 0 | 14 | 7 | .0 | 0 | 920 | 5 |
| SEP | | | | | | | | | | | | |
| 14... | 87 | 50 | 2 | 3 | 18 | 1 | 19 | 14 | .0 | 0 | 920 | 27 |

Table 8.--*Water-quality data for East Middle Fork Parachute Creek near Rio Blanco*
[From U.S. Geological Survey, 1980, 1981]

09092850 EAST MIDDLE FORK PARACHUTE CREEK NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1976 to current year.
WATER TEMPERATURE: October 1976 to current year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,280 micromhos Oct. 11-30; minimum, 363 micromhos Apr. 23.
WATER TEMPERATURES: Maximum, 22.5°C Aug. 13; minimum, freezing point on many days during December to April.
SEDIMENT CONCENTRATIONS: Maximum daily, 441 mg/L May 22; minimum daily, 5 mg/L June 22.
SEDIMENT LOADS: Maximum daily, 200 tons (181 t) May 14; minimum daily, less than 0.005 ton ( 0.005 t) several days during year.

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

| DATE | TIME | STREAM-FLOW, INSTAN-TANEOUS (CFS) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH FIELD (UNITS) | TEMPER-ATURE, WATER (DEG C) | OXYGEN, DIS-SOLVED (MG/L) | HARD-NESS (MG/L AS CACO3) | HARD-NESS, NONCAR-BONATE (MG/L CACO3) | CALCIUM DIS-SOLVED (MG/L AS CA) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) | SODIUM, DIS-SOLVED (MG/L AS NA) | SODIUM AD-SORP-TION RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 03... | 1130 | 1.2 | 550 | 8.1 | 7.5 | 8.4 | 220 | 0 | 53 | 20 | 37 | 1.1 |
| 30... | 1315 | 1.0 | 540 | 8.5 | 5.0 | 10.6 | 210 | 0 | 51 | 20 | 34 | 1.0 |
| DEC | | | | | | | | | | | | |
| 06... | 1050 | .74 | 580 | 8.1 | .0 | 11.2 | 220 | 0 | 55 | 21 | 38 | 1.1 |
| JAN | | | | | | | | | | | | |
| 17... | 1100 | .81 | 530 | 8.1 | 1.5 | 10.9 | 210 | 0 | 51 | 20 | 35 | 1.1 |
| APR | | | | | | | | | | | | |
| 08... | 1145 | 2.2 | 523 | 7.9 | 2.5 | -- | 210 | 0 | 50 | 20 | 34 | 1.0 |
| MAY | | | | | | | | | | | | |
| 02... | 0810 | 70 | 428 | 7.9 | 4.0 | 9.8 | 170 | 0 | 43 | 15 | 26 | .9 |
| JUL | | | | | | | | | | | | |
| 08... | 1130 | 4.4 | 500 | 8.3 | 16.5 | 8.4 | 200 | 0 | 49 | 19 | 32 | 1.0 |
| AUG | | | | | | | | | | | | |
| 06... | 1030 | 2.2 | 523 | 8.0 | 14.0 | -- | 200 | 0 | 50 | 19 | 34 | 1.0 |

| DATE | POTAS-SIUM, DIS-SOLVED (MG/L AS K) | ALKA-LINITY (MG/L AS CACO3) | SULFATE DIS-SOLVED (MG/L AS SO4) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) | SILICA, DIS-SOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) | SOLIDS, DIS-SOLVED (TONS PER AC-FT) | SOLIDS, DIS-SOLVED (TONS PER DAY) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) | PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P) | ARSENIC DIS-SOLVED (UG/L AS AS) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 03... | .9 | 260 | 48 | 2.0 | .3 | 15 | 334 | .45 | 1.08 | .14 | .030 | 4 |
| 30... | .8 | 250 | 45 | 2.1 | .2 | 14 | 318 | .43 | .86 | .03 | .040 | 5 |
| DEC | | | | | | | | | | | | |
| 06... | 1.2 | 240 | 63 | 2.0 | .2 | 14 | 340 | .46 | .68 | .15 | .030 | 3 |
| JAN | | | | | | | | | | | | |
| 17... | 1.0 | 250 | 25 | 4.4 | .3 | 13 | 303 | .41 | .66 | .39 | .040 | 5 |
| APR | | | | | | | | | | | | |
| 08... | .7 | 230 | 43 | 1.7 | .2 | 13 | 304 | .41 | 1.81 | .55 | .050 | 3 |
| MAY | | | | | | | | | | | | |
| 02... | .7 | 190 | 22 | 2.0 | .2 | 17 | 246 | .33 | 46.5 | 1.2 | .020 | 6 |
| JUL | | | | | | | | | | | | |
| 08... | .9 | 240 | 35 | 1.8 | .3 | 16 | 300 | .41 | 3.56 | .08 | .000 | 6 |
| AUG | | | | | | | | | | | | |
| 06... | .8 | 250 | 39 | 2.0 | .3 | 16 | 312 | .42 | 1.85 | .02 | .330 | 5 |

Table 8.--*Water-quality data for East Middle Fork Parachute Creek near Rio Blanco*--Continued

PARACHUTE CREEK BASIN

09092850 EAST MIDDLE FORK PARACHUTE CREEK NEAR RIO BLANCO, CO--Continued

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

| DATE | BARIUM, DIS-SOLVED (UG/L AS BA) | BORON, DIS-SOLVED (UG/L AS B) | CADMIUM DIS-SOLVED (UG/L AS CD) | COPPER, DIS-SOLVED (UG/L AS CU) | IRON, DIS-SOLVED (UG/L AS FE) | LEAD, DIS-SOLVED (UG/L AS PB) | LITHIUM DIS-SOLVED (UG/L AS LI) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) | MERCURY DIS-SOLVED (UG/L AS HG) | SELE-NIUM, DIS-SOLVED (UG/L AS SE) | STRON-TIUM, DIS-SOLVED (UG/L AS SR) | ZINC, DIS-SOLVED (UG/L AS ZN) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 03... | 90 | 60 | <1 | 2 | <10 | 0 | 20 | 4 | .0 | 0 | 850 | <3 |
| 30... | 80 | 50 | <1 | 0 | <10 | 0 | 10 | 4 | .0 | 0 | 770 | <3 |
| DEC | | | | | | | | | | | | |
| 06... | 90 | 40 | 1 | 4 | 20 | 1 | 7 | 6 | .0 | 0 | 840 | <3 |
| JAN | | | | | | | | | | | | |
| 17... | 80 | 70 | <1 | 0 | <10 | 0 | <4 | 10 | .0 | 1 | 790 | <3 |
| APR | | | | | | | | | | | | |
| 08... | 70 | 60 | <1 | 0 | <10 | 0 | 9 | 3 | .0 | 1 | 740 | <3 |
| MAY | | | | | | | | | | | | |
| 02... | 60 | 40 | <1 | 4 | <10 | 0 | 30 | 5 | .0 | 1 | 570 | <3 |
| JUL | | | | | | | | | | | | |
| 08... | 80 | 60 | <1 | 6 | <10 | 0 | <4 | <1 | .0 | 1 | 780 | <3 |
| AUG | | | | | | | | | | | | |
| 06... | 90 | 60 | <1 | 4 | <10 | 5 | 6 | 2 | .0 | 1 | 820 | <3 |

Table 8.--*Water-quality data for East Middle Fork Parachute Creek near Rio Blanco*--Continued

09092850 EAST MIDDLE FORK PARACHUTE CREEK NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1976 to current year.
WATER TEMPERATURE: October 1976 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1976. Pumping sediment sampler since October 1977.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 615 micromhos Dec. 18, 1976; minimum, 262 micromhos Mar. 23, 1977.
WATER TEMPERATURES: Maximum, 24.5°C July 18, Aug. 9, 14, 1977; minimum, freezing point most days during winter months.
SEDIMENT CONCENTRATIONS: Maximum daily, 5,360 mg/L May 16, 1979; minimum daily, 0.0 mg/L several days during winter months in the 1981 water year.
SEDIMENT LOADS: Maximum daily, 1,980 tons (1,800 t) May 16, 1979; minimum daily, less than 0.005 ton ( 0.005 t) several days during 1979 water year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 555 micromhos Jan. 13; minimum, 341 micromhos June 28.
WATER TEMPERATURE: Maximum, 24.0 July 6, 10, 11, 31; minimum, freezing point on many days during November to April.
SEDIMENT CONCENTRATIONS: Maximum daily, 535 mg/L June 29; minimum daily, 0.0 mg/L several days during winter months.
SEDIMENT LOADS: Maximum daily, 3.1 tons (2.8 t) June 29; minimum daily, less than 0.005 tons ( 0.005 t) several days during year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

| DATE | TIME | STREAM-FLOW, INSTAN-TANEOUS (CFS) | SPE-CIFIC CON-DUCT-ANCE (UMHOS) | SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | OXYGEN, DIS-SOLVED (MG/L) | HARD-NESS (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) | SODIUM AD-SORP-TION RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 03... | 1000 | .98 | 540 | 542 | 8.0 | 5.0 | 9.8 | 220 | 53 | 21 | 37 | 1.1 |
| NOV | | | | | | | | | | | | |
| 20... | 1120 | .95 | 535 | 547 | 7.8 | .0 | 10.8 | 220 | 53 | 20 | 36 | 1.1 |
| JAN | | | | | | | | | | | | |
| 08... | 1100 | .73 | 550 | 558 | 7.9 | .0 | -- | 220 | 54 | 21 | 37 | 1.1 |
| FEB | | | | | | | | | | | | |
| 24... | 1030 | .83 | 480 | 522 | 8.2 | .5 | 10.2 | 230 | 54 | 22 | 37 | 1.1 |
| APR | | | | | | | | | | | | |
| 23... | 1230 | 5.1 | 440 | 447 | 8.3 | 11.0 | 8.8 | 170 | 43 | 16 | 30 | 1.0 |
| MAY | | | | | | | | | | | | |
| 13... | 1030 | 2.9 | 481 | 481 | 8.2 | 6.0 | 10.0 | 200 | 49 | 18 | 32 | 1.0 |
| JUN | | | | | | | | | | | | |
| 17... | 1000 | 1.9 | 510 | 513 | 8.2 | 10.0 | 9.0 | 210 | 51 | 20 | 35 | 1.1 |
| JUL | | | | | | | | | | | | |
| 22... | 1100 | .77 | 525 | 528 | 8.3 | 15.0 | -- | 210 | 50 | 20 | 40 | 1.2 |
| AUG | | | | | | | | | | | | |
| 13... | 0950 | .63 | 530 | 539 | 8.1 | 12.5 | 6.8 | 210 | 51 | 20 | 40 | 1.3 |
| SEP | | | | | | | | | | | | |
| 14... | 1000 | .45 | 530 | 425 | 8.3 | 11.5 | 9.2 | 220 | 55 | 20 | 38 | 1.2 |

| DATE | POTAS-SIUM, DIS-SOLVED (MG/L AS K) | ALKA-LINITY LAB (MG/L AS CACO3) | SULFATE DIS-SOLVED (MG/L AS SO4) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) | SILICA, DIS-SOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) | SOLIDS, DIS-SOLVED (TONS PER AC-FT) | SOLIDS, DIS-SOLVED (TONS PER DAY) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) | PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) | ARSENIC DIS-SOLVED (UG/L AS AS) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 03... | 1.0 | 260 | 44 | 2.3 | .2 | 15 | 331 | .45 | .88 | .01 | .040 | 6 |
| NOV | | | | | | | | | | | | |
| 20... | .8 | 250 | 43 | 2.1 | .3 | 14 | 321 | .44 | .82 | .16 | .060 | 5 |
| JAN | | | | | | | | | | | | |
| 08... | .7 | 250 | 48 | 2.4 | .2 | 13 | 329 | .45 | .65 | .32 | .040 | 5 |
| FEB | | | | | | | | | | | | |
| 24... | .6 | 200 | 48 | 2.0 | .3 | 13 | 300 | .41 | .67 | .31 | .040 | 5 |
| APR | | | | | | | | | | | | |
| 23... | .8 | 200 | 32 | 1.9 | .2 | 15 | 263 | .36 | 3.6 | .69 | .050 | 4 |
| MAY | | | | | | | | | | | | |
| 13... | .6 | 220 | 36 | 1.6 | .1 | 14 | 286 | .39 | 2.2 | .27 | .020 | 4 |
| JUN | | | | | | | | | | | | |
| 17... | .7 | 240 | 36 | 1.8 | .2 | 15 | 306 | .42 | 1.6 | .14 | .110 | 4 |
| JUL | | | | | | | | | | | | |
| 22... | .9 | 250 | 25 | 1.6 | .2 | 16 | 305 | .41 | .63 | .09 | .070 | 5 |
| AUG | | | | | | | | | | | | |
| 13... | .9 | 270 | 34 | 2.1 | .2 | 16 | 328 | .45 | .56 | .14 | <.010 | 13 |
| SEP | | | | | | | | | | | | |
| 14... | .9 | 260 | 35 | 1.9 | .2 | 17 | 326 | .44 | .40 | .04 | .010 | 6 |

Table 8.--*Water-quality data for East Middle Fork Parachute Creek near Rio Blanco*--Continued

09092850 EAST MIDDLE FORK PARACHUTE CREEK NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

| DATE | BARIUM, DIS-SOLVED (UG/L AS BA) | BORON, DIS-SOLVED (UG/L AS B) | CADMIUM DIS-SOLVED (UG/L AS CD) | COPPER, DIS-SOLVED (UG/L AS CU) | IRON, DIS-SOLVED (UG/L AS FE) | LEAD, DIS-SOLVED (UG/L AS PB) | LITHIUM DIS-SOLVED (UG/L AS LI) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) | MERCURY DIS-SOLVED (UG/L AS HG) | SELE-NIUM, DIS-SOLVED (UG/L AS SE) | STRON-TIUM, DIS-SOLVED (UG/L AS SR) | ZINC, DIS-SOLVED (UG/L AS ZN) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 03... | 80 | 40 | <1 | 3 | <10 | 1 | 20 | 7 | .0 | 0 | 850 | <3 |
| NOV | | | | | | | | | | | | |
| 20... | 90 | 30 | <1 | 2 | 10 | 3 | 20 | 50 | .0 | 0 | 830 | 7 |
| JAN | | | | | | | | | | | | |
| 08... | 90 | 30 | <1 | 5 | <10 | 1 | 5 | 4 | .0 | 0 | 830 | 6 |
| FEB | | | | | | | | | | | | |
| 24... | 90 | 20 | <1 | 4 | 20 | 0 | 20 | 40 | .0 | 1 | 820 | 6 |
| APR | | | | | | | | | | | | |
| 23... | 80 | 40 | <1 | 3 | 20 | 3 | 5 | 7 | .0 | 0 | 650 | 3 |
| MAY | | | | | | | | | | | | |
| 13... | 80 | 30 | <1 | 4 | <10 | 7 | 8 | 9 | .0 | 0 | 740 | 5 |
| JUN | | | | | | | | | | | | |
| 17... | 200 | 40 | <1 | 4 | <10 | 1 | 20 | 3 | .0 | 0 | 800 | 3 |
| JUL | | | | | | | | | | | | |
| 22... | 90 | 60 | <1 | 7 | 10 | 2 | 20 | 30 | .0 | 0 | 850 | 6 |
| AUG | | | | | | | | | | | | |
| 13... | 90 | 60 | <1 | 2 | <10 | 0 | 13 | 4 | .0 | 0 | 850 | 7 |
| SEP | | | | | | | | | | | | |
| 14... | 90 | 60 | <1 | 4 | 16 | 0 | 8 | 7 | .0 | 0 | 840 | 64 |

Table 8.--*Water-quality data for East Middle Fork Parachute Creek near Rio Blanco*--Continued

09092850 EAST MIDDLE FORK PARACHUTE CREEK NEAR RIO BLANCO, CO--Continued

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

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
| 1 | 12.5 | 7.0 | 5.0 | 1.0 | .0 | .0 | .5 | .0 | .5 | .5 | 2.5 | .0 |
| 2 | 12.5 | 7.0 | 4.5 | 1.5 | 1.0 | .0 | 1.5 | .0 | 1.5 | .0 | 2.5 | .0 |
| 3 | 12.5 | 7.0 | 5.0 | 2.0 | 1.5 | .0 | 1.0 | .0 | 1.5 | .5 | 2.5 | .5 |
| 4 | 11.5 | 5.0 | 5.5 | 3.0 | 1.5 | .0 | 1.5 | .0 | 2.0 | .0 | 2.0 | .0 |
| 5 | 12.0 | 5.5 | 5.0 | 2.5 | 1.0 | .0 | .5 | .0 | 1.0 | .0 | 2.5 | .0 |
| 6 | 12.5 | 5.5 | 5.0 | 2.0 | 1.0 | .0 | 1.0 | .0 | 2.0 | .5 | 1.5 | .5 |
| 7 | 12.5 | 6.0 | 5.5 | 4.0 | 2.0 | .0 | 1.0 | .0 | 1.5 | .0 | 2.5 | .0 |
| 8 | 12.0 | 5.5 | 5.5 | 3.0 | 2.5 | .0 | 1.0 | .0 | .5 | .0 | 3.0 | .0 |
| 9 | 11.5 | 5.5 | 5.0 | 2.5 | .5 | .0 | 2.0 | .5 | .5 | .0 | 2.5 | .0 |
| 10 | 11.0 | 5.0 | 3.5 | 1.0 | .5 | .0 | .5 | .0 | .5 | .0 | 2.5 | .0 |
| 11 | 10.5 | 5.0 | 4.0 | 1.0 | .0 | .0 | .5 | .0 | .5 | .0 | 2.5 | .0 |
| 12 | --- | --- | 3.0 | .5 | .0 | .0 | 1.0 | .5 | .5 | .0 | 2.0 | .0 |
| 13 | --- | --- | 3.0 | .5 | .0 | .0 | 2.5 | 1.0 | 1.5 | .0 | 2.0 | .0 |
| 14 | --- | --- | 3.0 | .5 | .0 | .0 | 1.5 | .5 | 1.5 | .0 | 2.5 | .0 |
| 15 | --- | --- | 3.0 | .5 | .0 | .0 | 1.5 | .5 | 2.0 | .5 | 3.0 | .0 |
| 16 | --- | --- | 2.5 | .5 | .5 | .0 | 2.5 | .5 | 3.0 | .5 | 3.0 | .0 |
| 17 | --- | --- | 4.0 | .5 | .5 | .0 | 2.5 | .5 | 2.0 | .5 | 1.5 | .0 |
| 18 | --- | --- | 4.5 | .5 | .0 | .0 | 2.5 | .5 | 2.5 | .5 | 2.5 | .0 |
| 19 | --- | --- | 2.5 | 1.0 | .0 | .0 | 1.5 | .0 | 1.5 | .5 | 3.5 | .0 |
| 20 | --- | --- | 3.0 | .5 | 1.0 | .0 | .5 | .0 | 2.0 | .5 | 2.5 | .0 |
| 21 | --- | --- | 1.5 | .0 | 1.0 | .0 | .5 | .0 | 2.5 | .5 | 3.5 | .0 |
| 22 | --- | --- | .5 | .0 | 1.0 | .0 | .5 | .0 | 2.5 | .0 | 3.0 | .5 |
| 23 | --- | --- | 1.5 | .0 | 1.5 | .0 | .5 | .5 | 2.0 | .0 | 3.0 | .5 |
| 24 | --- | --- | 2.5 | .5 | 1.0 | .0 | 1.0 | .5 | 1.0 | .0 | 4.5 | .0 |
| 25 | --- | --- | 1.5 | .5 | 1.0 | .0 | 1.0 | .5 | .5 | .0 | 2.5 | .5 |
| 26 | --- | --- | 1.5 | .5 | 1.5 | .0 | 1.0 | .0 | 1.5 | .0 | 3.5 | .0 |
| 27 | --- | --- | .5 | .0 | 1.5 | .0 | 1.0 | .5 | 2.0 | .0 | 3.0 | .0 |
| 28 | --- | --- | 2.0 | 1.0 | 1.0 | .0 | .5 | .0 | 2.0 | .0 | 3.0 | .5 |
| 29 | --- | --- | 1.5 | 1.0 | 1.5 | .0 | .5 | .0 | 2.0 | .5 | 4.0 | .5 |
| 30 | --- | --- | 1.5 | 1.0 | .0 | .0 | .5 | .0 | --- | --- | 3.0 | .0 |
| 31 | 4.5 | 1.0 | --- | --- | .0 | .0 | .5 | .0 | --- | --- | 3.0 | .0 |

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
| 1 | 4.0 | .0 | | | --- | --- | 19.5 | 12.5 | --- | --- | 17.5 | 7.5 |
| 2 | 2.0 | .0 | | | --- | --- | 21.0 | 10.0 | --- | --- | 18.0 | 8.0 |
| 3 | 4.0 | .0 | | | --- | --- | 21.5 | 9.0 | --- | --- | 18.0 | 8.0 |
| 4 | 5.0 | .0 | | | --- | --- | 22.0 | 9.5 | --- | --- | 18.5 | 8.5 |
| 5 | 5.0 | .5 | | | --- | --- | 22.0 | 9.5 | --- | --- | 18.5 | 9.0 |
| 6 | 4.0 | 1.0 | | | --- | --- | 22.0 | 10.0 | --- | --- | 18.0 | 10.5 |
| 7 | 4.0 | 1.0 | | | --- | --- | 21.5 | 11.0 | --- | --- | 17.0 | 11.0 |
| 8 | 4.0 | .5 | | | --- | --- | 15.5 | 9.5 | --- | --- | 15.5 | 11.5 |
| 9 | 5.0 | .0 | | | --- | --- | 17.0 | 9.5 | --- | --- | 14.0 | 11.0 |
| 10 | 5.5 | 1.5 | | | --- | --- | 18.0 | 9.5 | --- | --- | 14.5 | 11.0 |
| 11 | 5.0 | .5 | | | --- | --- | 20.5 | 10.0 | 21.5 | 12.5 | 15.5 | 8.5 |
| 12 | 5.5 | .0 | | | --- | --- | 20.0 | 9.5 | 22.0 | 9.5 | 15.0 | 9.5 |
| 13 | 6.0 | .0 | | | --- | --- | 22.0 | 9.0 | 22.5 | 11.5 | 16.5 | 8.5 |
| 14 | 7.0 | .0 | | | --- | --- | 22.0 | 10.0 | 20.5 | 12.5 | 15.5 | 8.0 |
| 15 | 7.0 | 1.0 | | | --- | --- | 22.5 | 9.5 | 20.0 | 13.0 | 15.5 | 7.5 |
| 16 | 7.5 | .5 | | | --- | --- | 22.0 | 10.0 | 17.5 | 10.5 | 16.0 | 9.5 |
| 17 | 8.0 | .5 | | | --- | --- | 22.0 | 12.0 | 20.5 | 9.5 | 15.5 | 7.0 |
| 18 | 8.5 | 1.0 | | | --- | --- | 20.0 | 10.5 | 19.5 | 9.5 | 16.0 | 7.0 |
| 19 | 8.5 | 1.5 | | | --- | --- | 22.5 | 12.5 | 18.5 | 10.0 | 16.5 | 9.0 |
| 20 | 9.0 | 1.5 | | | --- | --- | 21.0 | 11.5 | 18.5 | 8.0 | 15.0 | 8.5 |
| 21 | 8.5 | 2.0 | | | --- | --- | 21.5 | 10.0 | 19.5 | 8.0 | 14.5 | 7.0 |
| 22 | 7.0 | 2.5 | | | --- | --- | 21.5 | 9.0 | 19.5 | 8.5 | 13.5 | 6.5 |
| 23 | --- | --- | | | --- | --- | 21.5 | 9.5 | 18.0 | 11.0 | 13.0 | 5.0 |
| 24 | --- | --- | | | --- | --- | 22.0 | 10.0 | 16.0 | 12.0 | 13.0 | 5.5 |
| 25 | --- | --- | | | --- | --- | 21.5 | 10.0 | 17.0 | 10.5 | 13.0 | 5.5 |
| 26 | --- | --- | | | --- | --- | 22.5 | 10.0 | 18.0 | 9.5 | 13.5 | 5.5 |
| 27 | --- | --- | | | 22.0 | 9.5 | 22.5 | 11.5 | 19.5 | 9.0 | 14.0 | 6.0 |
| 28 | --- | --- | | | 20.5 | 10.5 | 22.5 | 10.5 | 19.0 | 9.0 | 14.0 | 6.5 |
| 29 | --- | --- | | | 22.0 | 11.5 | 21.5 | 9.0 | 15.0 | 10.0 | 13.0 | 6.5 |
| 30 | --- | --- | | | 22.0 | 12.0 | --- | --- | 16.5 | 8.0 | 13.0 | 6.0 |
| 31 | --- | --- | | | --- | --- | --- | --- | 15.0 | 8.0 | --- | --- |

Table 8.--*Water-quality data for East Middle Fork Parachute Creek near Rio Blanco*--Continued

09092850 EAST MIDDLE FORK PARACHUTE CREEK NEAR RIO BLANCO, CO--Continued

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
| 1 | 14.5 | 6.5 | 4.0 | 1.5 | 2.0 | .5 | .0 | .0 | .5 | .0 | 2.5 | .0 |
| 2 | 11.5 | 4.5 | 4.5 | 1.5 | 3.0 | .5 | .5 | .0 | .5 | .0 | 2.0 | .0 |
| 3 | 11.5 | 5.5 | 4.5 | 1.5 | 3.5 | 1.5 | 1.0 | .0 | .5 | .0 | 2.0 | .0 |
| 4 | 11.5 | 4.5 | 5.5 | 2.5 | 3.0 | 1.5 | 1.5 | .0 | .5 | .0 | 2.5 | .0 |
| 5 | 11.5 | 5.0 | 4.5 | 2.0 | 2.5 | 1.0 | 1.0 | .0 | .5 | .0 | 2.5 | .0 |
| 6 | 11.5 | 5.0 | 5.0 | 2.0 | 2.5 | 1.5 | .5 | .0 | .5 | .0 | 1.0 | .0 |
| 7 | 11.5 | 5.0 | 5.0 | 2.5 | 2.5 | .5 | .0 | .0 | .5 | .0 | 2.0 | .0 |
| 8 | 11.5 | 5.0 | 4.5 | 2.0 | 2.5 | .5 | .0 | .0 | .5 | .0 | 2.0 | .0 |
| 9 | 11.0 | 4.5 | 4.0 | 1.5 | 1.0 | .0 | .0 | .0 | 1.0 | .0 | 2.0 | .0 |
| 10 | 10.0 | 4.5 | 4.0 | 1.5 | .0 | .0 | .0 | .0 | .5 | .0 | 2.0 | .0 |
| 11 | 10.0 | 4.0 | 4.5 | 1.5 | .0 | .0 | .0 | .0 | .0 | .0 | --- | --- |
| 12 | 9.0 | 4.5 | 6.0 | 3.0 | .5 | .0 | .0 | .0 | .5 | .0 | --- | --- |
| 13 | 10.5 | 7.0 | 4.0 | 2.0 | .0 | .0 | .0 | .0 | .5 | .0 | --- | --- |
| 14 | 9.0 | 5.0 | 3.0 | .5 | .5 | .0 | .0 | .0 | 1.0 | .0 | --- | --- |
| 15 | 6.5 | 4.5 | 1.5 | .0 | 1.0 | .0 | .5 | .0 | 1.5 | .5 | --- | --- |
| 16 | 5.0 | 1.0 | 1.5 | .0 | 1.0 | .0 | .5 | .0 | 1.5 | .0 | --- | --- |
| 17 | 7.0 | 2.5 | 1.0 | .0 | 1.0 | .0 | 1.0 | .0 | 1.5 | .0 | --- | --- |
| 18 | 6.5 | 3.0 | 1.0 | .0 | 1.0 | .0 | .5 | .0 | 2.0 | .0 | --- | --- |
| 19 | 6.5 | 2.0 | 1.5 | .5 | 1.5 | .0 | .0 | .0 | 2.0 | .0 | --- | --- |
| 20 | 6.0 | 1.5 | 1.5 | .5 | 1.0 | .0 | .5 | .0 | 1.0 | .0 | --- | --- |
| 21 | 5.5 | 2.0 | 1.5 | .0 | 1.5 | .0 | .0 | .0 | 1.5 | .0 | --- | --- |
| 22 | 6.5 | 2.5 | 3.0 | .5 | 2.0 | .5 | .0 | .0 | 1.0 | .0 | --- | --- |
| 23 | 4.5 | 1.5 | 2.5 | 1.0 | 2.0 | .0 | .0 | .0 | 1.5 | .0 | --- | --- |
| 24 | 5.0 | 1.0 | 2.5 | 1.0 | 1.5 | .0 | .5 | .0 | 1.5 | .0 | --- | --- |
| 25 | 5.0 | 1.5 | 1.5 | 1.0 | 2.0 | 1.0 | .5 | .0 | 1.5 | .0 | --- | --- |
| 26 | 5.5 | 2.5 | 2.0 | .0 | 1.0 | .0 | .0 | .0 | 1.0 | .0 | --- | --- |
| 27 | 4.5 | 2.5 | 2.0 | .0 | 1.5 | .0 | .5 | .0 | 2.0 | .0 | --- | --- |
| 28 | 5.0 | 1.0 | 2.5 | .5 | 2.0 | .5 | 1.0 | .0 | 2.0 | .0 | --- | --- |
| 29 | 4.5 | 1.0 | 2.5 | .5 | .5 | .0 | 1.0 | .0 | --- | --- | --- | --- |
| 30 | 4.0 | 1.5 | 3.5 | 1.0 | .0 | .0 | .5 | .0 | --- | --- | --- | --- |
| 31 | 4.5 | 1.5 | --- | --- | .0 | .0 | .5 | .0 | --- | --- | --- | --- |

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

Table 8.--*Water-quality data for East Middle Fork Parachute Creek near Rio Blanco*--Continued

09092850 EAST MIDDLE FORK PARACHUTE CREEK NEAR RIO BLANCO, CO--Continued

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

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 550 | 543 | 578 | 540 | 466 | 467 | 504 | | --- | 495 | --- | 500 |
| 2 | 550 | 544 | 577 | 538 | 465 | 466 | 500 | | --- | 494 | --- | 499 |
| 3 | 550 | 546 | 576 | 536 | 462 | 466 | 495 | | --- | 497 | --- | 498 |
| 4 | 547 | 545 | 579 | 537 | 463 | 464 | 502 | | --- | 497 | --- | 497 |
| 5 | 541 | 545 | 581 | 533 | 462 | 463 | 496 | | --- | 498 | --- | 496 |
| 6 | 543 | 548 | 582 | 531 | 463 | 480 | 494 | | --- | 498 | --- | 494 |
| 7 | 550 | 549 | 581 | 528 | 462 | 507 | 494 | | --- | --- | --- | 492 |
| 8 | 550 | 547 | 577 | 526 | 456 | 508 | 504 | | --- | --- | --- | 492 |
| 9 | 550 | 549 | 574 | 523 | 460 | 501 | 506 | | --- | --- | --- | 492 |
| 10 | 550 | 551 | 576 | 516 | 461 | 487 | 504 | | --- | --- | --- | 487 |
| 11 | --- | 552 | 561 | 522 | 466 | 507 | 509 | | --- | 501 | 505 | 489 |
| 12 | --- | 555 | 566 | 517 | 466 | 507 | 512 | | --- | 497 | 509 | 489 |
| 13 | --- | 557 | 576 | 510 | 465 | 493 | 513 | | --- | 479 | 507 | 489 |
| 14 | --- | 559 | 574 | 495 | 460 | 506 | 504 | | --- | 496 | 505 | 487 |
| 15 | --- | 561 | 572 | 503 | 455 | 505 | 487 | | --- | 496 | 496 | 487 |
| 16 | --- | 564 | 570 | 505 | 462 | 499 | 486 | | --- | 502 | 504 | 487 |
| 17 | --- | 563 | 568 | 502 | 464 | 490 | 471 | | --- | 506 | 504 | 487 |
| 18 | --- | 551 | 564 | 504 | 456 | 500 | 453 | | --- | 502 | 506 | 486 |
| 19 | --- | 556 | 566 | 503 | 458 | 505 | 428 | | --- | 502 | 506 | 485 |
| 20 | --- | 555 | 560 | 488 | 458 | 505 | 427 | | --- | 505 | 505 | 484 |
| 21 | --- | 560 | 558 | 506 | 464 | 503 | 416 | | --- | 506 | 506 | 484 |
| 22 | --- | 563 | 557 | --- | 465 | 500 | 414 | | --- | 509 | 506 | 483 |
| 23 | --- | 566 | 556 | --- | 468 | 504 | 392 | | --- | 509 | 502 | 483 |
| 24 | --- | 564 | 551 | --- | 450 | 504 | 394 | | --- | 507 | 497 | 482 |
| 25 | --- | 565 | 550 | --- | 465 | 499 | --- | | --- | 508 | 501 | 481 |
| 26 | --- | 566 | 549 | --- | 470 | 501 | --- | | --- | 509 | 502 | 481 |
| 27 | --- | 567 | 547 | 484 | 472 | 505 | --- | | 494 | 510 | 502 | 480 |
| 28 | --- | 579 | 544 | 469 | 471 | 505 | --- | | 492 | 509 | 503 | 479 |
| 29 | --- | 578 | 545 | 467 | 467 | 505 | --- | | 496 | 510 | 500 | 478 |
| 30 | --- | 572 | 544 | 467 | --- | 502 | --- | | 495 | --- | 500 | 478 |
| 31 | 541 | --- | 546 | 468 | --- | 502 | --- | | --- | --- | 500 | --- |

Table 8.--*Water-quality data for East Middle Fork Parachute Creek near Rio Blanco*--Continued

09092850 EAST MIDDLE FORK PARACHUTE CREEK NEAR RIO BLANCO, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 537 | 541 | 542 | 546 | 540 | 529 | --- | 461 | 492 | 517 | 538 | --- |
| 2 | 542 | 541 | 542 | 543 | 543 | 530 | --- | 461 | 496 | 514 | 533 | --- |
| 3 | 542 | 542 | 542 | 543 | 542 | 530 | --- | 446 | 488 | 513 | 539 | --- |
| 4 | 542 | 542 | 542 | 542 | 543 | 531 | --- | 455 | 489 | 516 | 538 | --- |
| 5 | 544 | 542 | 542 | 539 | 544 | 528 | --- | 464 | 493 | 519 | 538 | --- |
| 6 | 545 | 543 | 542 | 543 | 542 | 530 | --- | 456 | 495 | 513 | 539 | --- |
| 7 | 545 | 542 | 538 | 547 | 543 | 531 | --- | 465 | 496 | 518 | 540 | --- |
| 8 | 544 | 540 | 540 | 550 | 541 | 530 | --- | 464 | 499 | 521 | 545 | 534 |
| 9 | 544 | 542 | 541 | 549 | 539 | 527 | 480 | 466 | 505 | 512 | 544 | 533 |
| 10 | 545 | 541 | 545 | 547 | 539 | 528 | 459 | 470 | 508 | 508 | 543 | 521 |
| 11 | 545 | 540 | 545 | 552 | 540 | --- | 438 | 469 | 509 | 519 | 537 | 523 |
| 12 | 544 | 532 | 545 | 550 | 539 | --- | 438 | 468 | 510 | 514 | 539 | 529 |
| 13 | 539 | 522 | 548 | 549 | 539 | --- | 440 | 472 | 508 | 507 | 541 | 531 |
| 14 | 537 | 534 | 548 | 550 | 538 | --- | 426 | 473 | 504 | 518 | 537 | 532 |
| 15 | 526 | 540 | 543 | 546 | 537 | --- | 405 | 474 | 505 | 521 | 538 | 532 |
| 16 | 524 | 542 | 543 | 543 | 535 | --- | 381 | 468 | 507 | 517 | 535 | 533 |
| 17 | 526 | 545 | 542 | 541 | 534 | --- | 390 | 468 | 509 | 506 | 530 | 533 |
| 18 | 535 | 545 | 542 | 544 | 533 | --- | 397 | 470 | 509 | 503 | 529 | 534 |
| 19 | 538 | 544 | 543 | 546 | 530 | --- | 400 | 473 | 511 | 517 | 529 | 535 |
| 20 | 539 | 544 | 544 | 546 | 530 | --- | 413 | 470 | 514 | 517 | --- | 536 |
| 21 | 540 | 544 | 544 | 548 | 534 | --- | 425 | 465 | 520 | 521 | --- | 536 |
| 22 | 540 | 541 | 541 | 547 | 533 | --- | 437 | 468 | 522 | 519 | --- | 536 |
| 23 | 532 | 540 | 539 | 550 | 533 | --- | 444 | 472 | 521 | 530 | --- | 536 |
| 24 | 538 | 536 | 542 | 546 | 529 | --- | 444 | 475 | 522 | 520 | --- | 536 |
| 25 | 540 | 539 | 541 | 544 | 530 | --- | 443 | 477 | 521 | 524 | --- | 536 |
| 26 | 538 | 540 | 540 | 547 | 529 | --- | 442 | 479 | 522 | 533 | --- | 536 |
| 27 | 534 | 540 | 541 | 543 | 531 | --- | 445 | 482 | 519 | 534 | --- | 537 |
| 28 | 537 | 539 | 541 | 542 | 531 | --- | 450 | 484 | 497 | 538 | --- | 537 |
| 29 | 539 | 540 | 543 | 542 | --- | --- | 454 | 481 | 497 | 540 | --- | 537 |
| 30 | 539 | 542 | 544 | 543 | --- | --- | 456 | 488 | 518 | 540 | --- | 537 |
| 31 | 541 | --- | 544 | 541 | --- | --- | --- | 485 | --- | 539 | --- | --- |

Table 9.--*Water-quality data for East Fork Parachute Creek near Anvil Points*
[From U.S. Geological Survey, 1980, 1981]

09092960 EAST FORK PARACHUTE CREEK NEAR ANVIL POINTS, CO--Continued

WATER-QUALITY RECORDS

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

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

| DATE | TIME | STREAM-FLOW, INSTAN-TANEOUS (CFS) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH FIELD (UNITS) | TEMPER-ATURE, WATER (DEG C) | OXYGEN, DIS-SOLVED (MG/L) | HARD-NESS (MG/L AS CACO3) | HARD-NESS, NONCAR-BONATE (MG/L CACO3) | CALCIUM DIS-SOLVED (MG/L AS CA) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) | SODIUM, DIS-SOLVED (MG/L AS NA) | SODIUM AD-SORP-TION RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 04... | 1345 | 1.0 | 560 | 7.9 | 8.0 | 7.8 | 240 | 0 | 58 | 22 | 23 | .7 |
| MAY | | | | | | | | | | | | |
| 29... | 1200 | 61 | 415 | 8.2 | 8.5 | 8.6 | 200 | 0 | 50 | 17 | 16 | .5 |
| JUN | | | | | | | | | | | | |
| 30... | 1400 | 6.7 | 455 | 8.3 | 17.0 | -- | 220 | 0 | 55 | 20 | 18 | .5 |
| JUL | | | | | | | | | | | | |
| 29... | 1500 | 2.7 | 460 | 8.3 | 17.5 | 7.4 | 210 | 0 | 52 | 20 | 21 | .6 |
| AUG | | | | | | | | | | | | |
| 27... | 1600 | 1.4 | 470 | 8.3 | 16.0 | 7.5 | 220 | 0 | 53 | 21 | 21 | .6 |

| DATE | POTAS-SIUM, DIS-SOLVED (MG/L AS K) | ALKA-LINITY (MG/L AS CACO3) | SULFATE DIS-SOLVED (MG/L AS SO4) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) | SILICA, DIS-SOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) | SOLIDS, DIS-SOLVED (TONS PER AC-FT) | SOLIDS, DIS-SOLVED (TONS PER DAY) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) | PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P) | ARSENIC DIS-SOLVED (UG/L AS AS) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 04... | .7 | 260 | 27 | 1.2 | .2 | 15 | 305 | .41 | .84 | .08 | .040 | 5 |
| MAY | | | | | | | | | | | | |
| 29... | .5 | 200 | 14 | 1.1 | .1 | 17 | 242 | .33 | 40.3 | 1.2 | .040 | 4 |
| JUN | | | | | | | | | | | | |
| 30... | .7 | 240 | 18 | 2.6 | .2 | 16 | 278 | .38 | 5.03 | .53 | .110 | 1 |
| JUL | | | | | | | | | | | | |
| 29... | .7 | 240 | 21 | 1.1 | .3 | 16 | 278 | .38 | 2.07 | .21 | .020 | 5 |
| AUG | | | | | | | | | | | | |
| 27... | .8 | 240 | 21 | 1.2 | .2 | 15 | 280 | .38 | 1.11 | .30 | .020 | 4 |

| DATE | BARIUM, DIS-SOLVED (UG/L AS BA) | BORON, DIS-SOLVED (UG/L AS B) | CADMIUM DIS-SOLVED (UG/L AS CD) | COPPER, DIS-SOLVED (UG/L AS CU) | IRON, DIS-SOLVED (UG/L AS FE) | LEAD, DIS-SOLVED (UG/L AS PB) | LITHIUM DIS-SOLVED (UG/L AS LI) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) | MERCURY DIS-SOLVED (UG/L AS HG) | SELE-NIUM, DIS-SOLVED (UG/L AS SE) | STRON-TIUM, DIS-SOLVED (UG/L AS SR) | ZINC, DIS-SOLVED (UG/L AS ZN) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 04... | 90 | 50 | <1 | 1 | <10 | 0 | 6 | <1 | .0 | 1 | 700 | 4 |
| MAY | | | | | | | | | | | | |
| 29... | 60 | 30 | 1 | 2 | 30 | 2 | 7 | 4 | .0 | 1 | 500 | 5 |
| JUN | | | | | | | | | | | | |
| 30... | 80 | 60 | <1 | 1 | <10 | 0 | <4 | 2 | .0 | 1 | 610 | <3 |
| JUL | | | | | | | | | | | | |
| 29... | 80 | 30 | <1 | 1 | <10 | 0 | <4 | <1 | .0 | 1 | 620 | <3 |
| AUG | | | | | | | | | | | | |
| 27... | 80 | 60 | <1 | 1 | <10 | 0 | 5 | 1 | .0 | 1 | 630 | <3 |

Table 9.--*Water-quality data for East Fork Parachute Creek near Anvil Points*--Continued

09092960 EAST FORK PARACHUTE CREEK NEAR ANVIL POINTS, CO--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

| DATE | TIME | STREAM-FLOW, INSTAN-TANEOUS (CFS) | SPE-CIFIC CON-DUCT-ANCE (UMHOS) | SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | OXYGEN, DIS-SOLVED (MG/L) | HARD-NESS (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) | SODIUM AD-SORP-TION RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 03... | 1400 | 1.1 | 470 | -- | 8.1 | 7.5 | 9.0 | 240 | 59 | 23 | 23 | .6 |
| NOV | | | | | | | | | | | | |
| 05... | 1500 | 1.2 | 470 | -- | 8.2 | 3.0 | -- | 230 | 55 | 22 | 21 | .6 |
| DEC | | | | | | | | | | | | |
| 04... | 1400 | 1.1 | 460 | 530 | 8.2 | 2.5 | 10.0 | 250 | 62 | 24 | 24 | .7 |
| 18... | 1400 | .96 | 500 | 552 | 8.2 | 1.5 | -- | 250 | 61 | 23 | 23 | .6 |
| JAN | | | | | | | | | | | | |
| 28... | 1100 | .78 | 530 | 537 | -- | .0 | -- | 250 | 61 | 23 | 22 | .6 |
| APR | | | | | | | | | | | | |
| 14... | 1010 | 3.6 | 445 | 424 | 8.1 | 11.0 | -- | 200 | 50 | 18 | 18 | .6 |
| 22... | 0930 | 5.4 | 410 | 421 | 8.2 | 3.0 | 9.8 | 200 | 51 | 18 | 18 | .6 |
| MAY | | | | | | | | | | | | |
| 07... | 1400 | 4.5 | 420 | 448 | 8.2 | 9.0 | -- | 220 | 54 | 20 | 19 | .6 |
| JUN | | | | | | | | | | | | |
| 02... | 1600 | 2.0 | 440 | 474 | 8.2 | 15.5 | 7.2 | 230 | 56 | 21 | 21 | .6 |
| JUL | | | | | | | | | | | | |
| 07... | 1600 | .98 | 440 | 496 | 8.3 | 19.0 | 6.8 | 230 | 56 | 22 | 21 | .6 |
| AUG | | | | | | | | | | | | |
| 04... | 1400 | .43 | 525 | 539 | 8.8 | 16.0 | 9.0 | 230 | 57 | 22 | 22 | .7 |
| SEP | | | | | | | | | | | | |
| 28... | 1700 | .36 | 470 | 604 | 8.6 | 12.3 | 7.8 | 260 | 64 | 24 | 22 | .6 |

| DATE | POTAS-SIUM, DIS-SOLVED (MG/L AS K) | ALKA-LINITY LAB (MG/L AS CACO3) | SULFATE DIS-SOLVED (MG/L AS SO4) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) | SILICA, DIS-SOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) | SOLIDS, DIS-SOLVED (TONS PER AC-FT) | SOLIDS, DIS-SOLVED (TONS PER DAY) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) | PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) | ARSENIC DIS-SOLVED (UG/L AS AS) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 03... | .7 | 260 | 24 | 1.4 | .2 | 15 | 304 | .41 | .92 | .10 | .070 | 5 |
| NOV | | | | | | | | | | | | |
| 05... | .6 | 260 | 25 | 1.3 | .2 | 13 | 296 | .40 | .98 | .17 | .030 | 4 |
| DEC | | | | | | | | | | | | |
| 04... | 1.0 | 270 | 24 | 1.9 | .2 | 14 | 316 | .43 | .94 | .47 | .040 | 4 |
| 18... | .6 | 270 | 27 | 2.5 | .1 | 14 | 318 | .43 | .82 | .77 | .050 | 3 |
| JAN | | | | | | | | | | | | |
| 28... | .4 | 270 | 26 | 1.3 | .2 | 13 | 313 | .43 | .66 | .57 | .010 | 3 |
| APR | | | | | | | | | | | | |
| 14... | .8 | 200 | 23 | 1.2 | .2 | 13 | 248 | .34 | 2.5 | .64 | .000 | 2 |
| 22... | .6 | 200 | 23 | 1.1 | .2 | 14 | 250 | .34 | 3.6 | .82 | .030 | 4 |
| MAY | | | | | | | | | | | | |
| 07... | .6 | 250 | 24 | 1.0 | .2 | 14 | 285 | .39 | 3.5 | .37 | .020 | 5 |
| JUN | | | | | | | | | | | | |
| 02... | .9 | 240 | 25 | 1.5 | .1 | 16 | 288 | .39 | 1.6 | .30 | .000 | 4 |
| JUL | | | | | | | | | | | | |
| 07... | .9 | 250 | 1.6 | 1.3 | .1 | 19 | 274 | .37 | .73 | .16 | .030 | 4 |
| AUG | | | | | | | | | | | | |
| 04... | .9 | 270 | 1.0 | 3.5 | .5 | 18 | 289 | .39 | .34 | .14 | <.010 | 6 |
| SEP | | | | | | | | | | | | |
| 28... | .9 | 270 | 21 | 1.3 | .2 | 17 | 314 | .43 | .31 | .08 | .060 | 4 |

| DATE | BARIUM, DIS-SOLVED (UG/L AS BA) | BORON, DIS-SOLVED (UG/L AS B) | CADMIUM DIS-SOLVED (UG/L AS CD) | COPPER, DIS-SOLVED (UG/L AS CU) | IRON, DIS-SOLVED (UG/L AS FE) | LEAD, DIS-SOLVED (UG/L AS PB) | LITHIUM DIS-SOLVED (UG/L AS LI) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) | MERCURY DIS-SOLVED (UG/L AS HG) | SELE-NIUM, DIS-SOLVED (UG/L AS SE) | STRON-TIUM, DIS-SOLVED (UG/L AS SR) | ZINC, DIS-SOLVED (UG/L AS ZN) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 03... | 90 | 60 | <1 | 2 | <10 | 4 | 8 | 2 | .0 | 0 | 700 | 3 |
| NOV | | | | | | | | | | | | |
| 05... | 80 | 40 | <1 | 3 | <10 | 1 | <4 | <1 | .0 | 0 | 620 | <3 |
| DEC | | | | | | | | | | | | |
| 04... | 80 | 60 | <1 | 2 | <10 | 1 | <4 | <1 | .0 | 1 | 680 | 9 |
| 18... | 80 | 30 | 2 | 0 | 10 | 0 | 7 | 1 | .0 | 0 | 680 | 5 |
| JAN | | | | | | | | | | | | |
| 28... | 70 | 30 | 0 | 0 | 20 | 4 | 5 | 1 | .0 | 1 | 640 | 7 |
| APR | | | | | | | | | | | | |
| 14... | 100 | 30 | <1 | 3 | 30 | 0 | 7 | 2 | .1 | 1 | 540 | 20 |
| 22... | 60 | 30 | <1 | 2 | 10 | 0 | 5 | 4 | .0 | 1 | 520 | 30 |
| MAY | | | | | | | | | | | | |
| 07... | 80 | 30 | <1 | 2 | <10 | 4 | 7 | 2 | .0 | 0 | 580 | 8 |
| JUN | | | | | | | | | | | | |
| 02... | 80 | 30 | <1 | 2 | <10 | 0 | 20 | 3 | .0 | 1 | 620 | <3 |
| JUL | | | | | | | | | | | | |
| 07... | 200 | 220 | <1 | 3 | <10 | 2 | 10 | 2 | .1 | 0 | 650 | 5 |
| AUG | | | | | | | | | | | | |
| 04... | 90 | 30 | <1 | 2 | <10 | 5 | 16 | <1 | .1 | 0 | 670 | <3 |
| SEP | | | | | | | | | | | | |
| 28... | 92 | 50 | <1 | 1 | <10 | 2 | 8 | 5 | .1 | 0 | 720 | 99 |

# Table 10.--*Water-quality data for East Fork Parachute Creek near Rulison*
[From U.S. Geological Survey, 1980, 1981]

09092970 EAST FORK PARACHUTE CREEK NEAR RULISON, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1976 to current year.
WATER TEMPERATURE: October 1976 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1976. Pumping sediment sampler since December 1976.

REMARKS.--Daily maximum and minimum specific-conductance data available in District Office.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 590 micromhos Oct. 9; minimum, 115 micromhos June 10.
WATER TEMPERATURES: Maximum, 19.5°C July 11, 17, 21, 22; minimum recorded, 0.0°C Nov. 8.
SEDIMENT CONCENTRATIONS: Maximum daily, not determined; minimum daily, not determined.
SEDIMENT LOADS: Maximum daily, not determined; minimum daily, not determined.

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

| DATE | TIME | STREAM-FLOW, INSTAN-TANEOUS (CFS) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH FIELD (UNITS) | TEMPER-ATURE, WATER (DEG C) | OXYGEN, DIS-SOLVED (MG/L) | HARD-NESS (MG/L AS CACO3) | HARD-NESS, NONCAR-BONATE (MG/L CACO3) | CALCIUM DIS-SOLVED (MG/L AS CA) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) | SODIUM, DIS-SOLVED (MG/L AS NA) | SODIUM AD-SORP-TION RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 09... | 1300 | .93 | 590 | 8.0 | 4.0 | 10.1 | 220 | 0 | 52 | 22 | 24 | .7 |
| APR | | | | | | | | | | | | |
| 25... | 1200 | 46 | 390 | 8.4 | 4.0 | 11.1 | 180 | 1 | 44 | 17 | 22 | .7 |
| MAY | | | | | | | | | | | | |
| 16... | 1400 | 121 | 380 | 8.4 | 7.5 | 9.7 | 180 | 0 | 46 | 16 | 20 | .6 |
| JUN | | | | | | | | | | | | |
| 10... | 1500 | 27 | 440 | 8.3 | 14.0 | 8.1 | 200 | 0 | 52 | 18 | 18 | .5 |
| JUL | | | | | | | | | | | | |
| 01... | 1400 | 6.7 | 460 | 8.4 | 15.0 | 8.1 | 210 | 0 | 52 | 20 | 22 | .7 |
| 17... | 1400 | 3.2 | 460 | 8.7 | 14.5 | 7.9 | 220 | 0 | 53 | 21 | 23 | .7 |
| AUG | | | | | | | | | | | | |
| 13... | 1600 | 1.1 | 440 | 8.7 | 16.5 | 7.8 | 200 | 0 | 46 | 20 | 24 | .7 |

| DATE | POTAS-SIUM, DIS-SOLVED (MG/L AS K) | ALKA-LINITY (MG/L AS CACO3) | SULFATE DIS-SOLVED (MG/L AS SO4) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) | SILICA, DIS-SOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) | SOLIDS, DIS-SOLVED (TONS PER AC-FT) | SOLIDS, DIS-SOLVED (TONS PER DAY) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) | PHOS-PHORUS, ORTHOPH OSPHATE DISSOL, (MG/L AS P) | ARSENIC DIS-SOLVED (UG/L AS AS) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 09... | .6 | 250 | 33 | 1.4 | .2 | 14 | 299 | .41 | .75 | .07 | .030 | 5 |
| APR | | | | | | | | | | | | |
| 25... | 2.0 | 180 | 23 | 2.3 | .1 | 17 | 242 | .33 | 30.2 | 1.3 | -- | 3 |
| MAY | | | | | | | | | | | | |
| 16... | .5 | 190 | 14 | 1.4 | .1 | 18 | 241 | .33 | 78.7 | 2.3 | .310 | 4 |
| JUN | | | | | | | | | | | | |
| 10... | .6 | 230 | 19 | 1.9 | .1 | 17 | 269 | .37 | 19.8 | .82 | .010 | 4 |
| JUL | | | | | | | | | | | | |
| 01... | .6 | 220 | 24 | .7 | .3 | 15 | 269 | .37 | 4.87 | .23 | .000 | 4 |
| 17... | .9 | 240 | 23 | 1.0 | .3 | 16 | 284 | .39 | 2.46 | .20 | .010 | 4 |
| AUG | | | | | | | | | | | | |
| 13... | .7 | 220 | 25 | 1.3 | .2 | 16 | 266 | .36 | .81 | .01 | .010 | 5 |

| DATE | BARIUM, DIS-SOLVED (UG/L AS BA) | BORON, DIS-SOLVED (UG/L AS B) | CADMIUM DIS-SOLVED (UG/L AS CD) | COPPER, DIS-SOLVED (UG/L AS CU) | IRON, DIS-SOLVED (UG/L AS FE) | LEAD, DIS-SOLVED (UG/L AS PB) | LITHIUM DIS-SOLVED (UG/L AS LI) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) | MERCURY DIS-SOLVED (UG/L AS HG) | SELE-NIUM, DIS-SOLVED (UG/L AS SE) | STRON-TIUM, DIS-SOLVED (UG/L AS SR) | ZINC, DIS-SOLVED (UG/L AS ZN) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 09... | 80 | 60 | <1 | 0 | <10 | 1 | 7 | <1 | .0 | 0 | 680 | <3 |
| APR | | | | | | | | | | | | |
| 25... | 60 | 30 | 1 | 3 | 10 | 3 | 4 | 2 | .0 | 1 | 580 | 10 |
| MAY | | | | | | | | | | | | |
| 16... | 80 | 30 | <1 | 2 | 20 | 0 | 7 | <1 | .0 | 1 | 550 | <3 |
| JUN | | | | | | | | | | | | |
| 10... | 70 | 40 | <1 | 4 | <10 | 6 | 6 | 1 | .0 | 1 | 570 | <3 |
| JUL | | | | | | | | | | | | |
| 01... | 80 | 60 | <1 | 1 | <10 | 0 | <4 | <1 | .0 | 1 | 670 | <3 |
| 17... | 80 | 50 | <1 | 2 | <10 | 1 | <4 | <1 | .0 | 1 | 680 | <3 |
| AUG | | | | | | | | | | | | |
| 13... | 80 | 140 | 2 | 1 | <10 | 3 | 9 | <1 | .0 | 1 | 660 | <3 |

Table 10.--*Water-quality data for East Fork Parachute Creek near Rulison*--Continued

09092970 EAST FORK PARACHUTE CREEK NEAR RULISON, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1976 to current year.
WATER TEMPERATURE: October 1976 to current year.
SUSPENDED-SEDIMENT DISCHARGE: December 1976 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1976. Pumping sediment sampler since December 1976.

REMARKS.--Daily maximum and minimum specific-conductance data available in District Office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 620 micromhos Feb. 13, 1981; minimum, 97 micromhos Dec. 18, 1981.
WATER TEMPERATURES: Maximum, 20.50°C June 26, 1981; minimum, 0.0°C several days during year.
SEDIMENT CONCENTRATIONS: Maximum daily, 1,680 mg/L May 17, 1978; minimum daily, 1 mg/L July 29, 1981.
SEDIMENT LOADS: Maximum daily, 485 tons (440 t) May 17, 1978; minimum daily, 0.01 ton (0.01 t) on many days during 1978 water year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 620 micromhos Feb. 13; minimum, 97 micromhos Dec. 18.
WATER TEMPERATURES: Maximum, 20.5°C June 26, July 10; minimum 0.0°C many days during October to April.
SEDIMENT CONCENTRATIONS: Maximum daily, 397 mg/L June 28, 1981; minimum daily, 1 mg/L July 29, 1981.
SEDIMENT LOADS: Maximum daily, 1.7 tons (1.5 t) April 17, 1981; minimum daily, .01 ton (0.01 t) on many days during 1981 water year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

| DATE | TIME | STREAM-FLOW, INSTAN-TANEOUS (CFS) | SPE-CIFIC CON-DUCT-ANCE (UMHOS) | SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | OXYGEN, DIS-SOLVED (MG/L) | HARD-NESS (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) | SODIUM AD-SORP-TION RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 02... | 1400 | .51 | 480 | 501 | 8.4 | 4.0 | -- | 230 | 55 | 23 | 25 | .7 |
| NOV | | | | | | | | | | | | |
| 12... | 1500 | .66 | 440 | 483 | 8.6 | 4.5 | 10.3 | 220 | 52 | 22 | 23 | .7 |
| DEC | | | | | | | | | | | | |
| 01... | 1500 | .37 | 440 | 527 | 8.4 | 1.0 | 10.6 | 240 | 56 | 23 | 25 | .7 |
| MAR | | | | | | | | | | | | |
| 04... | 1100 | .83 | 490 | 522 | 8.1 | 1.0 | -- | 250 | 61 | 23 | 21 | .6 |
| APR | | | | | | | | | | | | |
| 17... | 1500 | 6.7 | 350 | 505 | 8.3 | 8.5 | 9.7 | 180 | 44 | 16 | 18 | .6 |
| 27... | 1200 | 3.9 | -- | -- | -- | 8.5 | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | |
| 05... | 1200 | 3.9 | -- | -- | -- | 6.5 | -- | -- | -- | -- | -- | -- |
| 05... | 1400 | 3.9 | 420 | 436 | 8.7 | 6.5 | 8.3 | 210 | 51 | 20 | 22 | .7 |
| 27... | 1400 | 1.5 | 420 | 453 | 8.6 | 11.0 | 8.2 | 210 | 51 | 20 | 22 | .7 |
| 28... | 1300 | 2.1 | -- | -- | -- | 1.1 | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | | | |
| 10... | 1130 | 1.2 | -- | -- | -- | 11.5 | -- | -- | -- | -- | -- | -- |
| 10... | 1400 | .84 | 450 | 467 | 8.4 | 11.5 | -- | 220 | 54 | 21 | 23 | .7 |
| 30... | 1330 | 1.0 | -- | -- | -- | 15.0 | -- | -- | -- | -- | -- | -- |

| DATE | POTAS-SIUM, DIS-SOLVED (MG/L AS K) | ALKA-LINITY LAB (MG/L AS CACO3) | SULFATE DIS-SOLVED (MG/L AS SO4) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) | SILICA, DIS-SOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) | SOLIDS, DIS-SOLVED (TONS PER AC-FT) | SOLIDS, DIS-SOLVED (TONS PER DAY) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) | PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) | ARSENIC DIS-SOLVED (UG/L AS AS) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 02... | .8 | 250 | 30 | 1.5 | .2 | 15 | 302 | .41 | .42 | .00 | .050 | 4 |
| NOV | | | | | | | | | | | | |
| 12... | .7 | 240 | 28 | 1.4 | .2 | 12 | 285 | .39 | .51 | .14 | .000 | 5 |
| DEC | | | | | | | | | | | | |
| 01... | .7 | 260 | 32 | 1.4 | .2 | 13 | 310 | .42 | .31 | .36 | .030 | 4 |
| MAR | | | | | | | | | | | | |
| 04... | .5 | 260 | 27 | 1.4 | .2 | 13 | 307 | .42 | .69 | .72 | .030 | 5 |
| APR | | | | | | | | | | | | |
| 17... | .8 | 180 | 27 | -- | .2 | 13 | -- | -- | -- | .68 | .000 | 4 |
| 27... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | |
| 05... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 05... | 1.2 | 250 | .7 | 1.2 | .2 | 14 | 262 | .36 | 2.8 | .17 | .020 | 5 |
| 27... | .8 | 230 | 28 | 1.1 | .2 | 14 | 276 | .38 | 1.1 | .06 | .060 | 4 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | | | |
| 10... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10... | .8 | 240 | 7.6 | 1.0 | .1 | 17 | 271 | .37 | .61 | .18 | .030 | 6 |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

Table 10.--*Water-quality data for East Fork Parachute Creek near Rulison*--Continued

09092970 EAST FORK PARACHUTE CREEK NEAR RULISON, CO--Continued
WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

| DATE | BARIUM, DIS-SOLVED (UG/L AS BA) | BORON, DIS-SOLVED (UG/L AS B) | CADMIUM DIS-SOLVED (UG/L AS CD) | COPPER, DIS-SOLVED (UG/L AS CU) | IRON, DIS-SOLVED (UG/L AS FE) | LEAD, DIS-SOLVED (UG/L AS PB) | LITHIUM DIS-SOLVED (UG/L AS LI) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) | MERCURY DIS-SOLVED (UG/L AS HG) | SELE-NIUM, DIS-SOLVED (UG/L AS SE) | STRON-TIUM, DIS-SOLVED (UG/L AS SR) | ZINC, DIS-SOLVED (UG/L AS ZN) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 02... | 80 | 50 | 2 | 0 | <10 | 1 | 8 | <1 | .0 | 0 | 740 | <3 |
| NOV | | | | | | | | | | | | |
| 12... | 70 | 20 | <1 | 3 | <10 | 1 | 5 | <1 | .0 | 0 | 660 | <3 |
| DEC | | | | | | | | | | | | |
| 01... | 80 | 70 | <1 | 1 | <10 | 0 | 8 | <1 | .0 | 1 | 730 | <3 |
| MAR | | | | | | | | | | | | |
| 04... | 80 | 30 | <1 | 22 | 10 | 1 | 6 | 2 | .0 | 1 | 630 | 10 |
| APR | | | | | | | | | | | | |
| 17... | 100 | 30 | <1 | 3 | 40 | 0 | 6 | 2 | .0 | 1 | 500 | 8 |
| 27... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MAY | | | | | | | | | | | | |
| 05... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 05... | 70 | 40 | <1 | 2 | 10 | 5 | 8 | 2 | .1 | 1 | 590 | 6 |
| 27... | 70 | 30 | <1 | 4 | <10 | 1 | 5 | 1 | .4 | 1 | 630 | 10 |
| 28... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | | | |
| 10... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10... | 300 | 40 | <1 | 3 | 10 | 2 | 10 | 1 | .2 | 0 | 660 | 10 |
| 30... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

Table 10.--*Water-quality data for East Fork Parachute Creek near Rulison*--Continued

09092970 EAST FORK PARACHUTE CREEK NEAR RULISON, CO--Continued

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

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | |
| 1 | | | --- | --- | --- | --- | --- | --- | 18.0 | 12.0 | 11.0 | 4.5 |
| 2 | | | --- | --- | --- | --- | 16.0 | 12.5 | 18.0 | 11.5 | 12.0 | 5.5 |
| 3 | | | --- | --- | 11.5 | 2.5 | 17.0 | 9.0 | 17.5 | 9.5 | 12.0 | 5.5 |
| 4 | | | --- | --- | 12.0 | 3.0 | 16.0 | 7.0 | 16.5 | 7.5 | 13.0 | 6.5 |
| 5 | | | --- | --- | --- | --- | 16.0 | 5.5 | 17.5 | 8.5 | 13.5 | 7.0 |
| 6 | | | --- | --- | --- | --- | 16.5 | 5.5 | 17.5 | 9.0 | 14.5 | 9.0 |
| 7 | | | --- | --- | 12.0 | 3.5 | 15.5 | 9.0 | 18.0 | 9.5 | 14.5 | 10.5 |
| 8 | | | --- | --- | 12.5 | 3.5 | 17.0 | 9.5 | 18.0 | 9.5 | 14.0 | 11.0 |
| 9 | | | --- | --- | --- | --- | 18.5 | 9.5 | 19.0 | 11.0 | 13.5 | 10.5 |
| 10 | | | --- | --- | 14.0 | 5.0 | 18.5 | 10.5 | 17.5 | 10.0 | 14.0 | 10.5 |
| 11 | | | --- | --- | 13.5 | 5.0 | 19.5 | 12.0 | 16.0 | 7.0 | 11.5 | 7.0 |
| 12 | | | --- | --- | 13.5 | 4.5 | 19.0 | 12.0 | 17.5 | 7.0 | 11.5 | 8.5 |
| 13 | | | --- | --- | 13.0 | 4.5 | 16.5 | 13.0 | 18.0 | 10.5 | 12.0 | 7.5 |
| 14 | | | --- | --- | 13.0 | 4.5 | 18.0 | 10.5 | 17.5 | 12.0 | 11.5 | 5.5 |
| 15 | | | --- | --- | 12.5 | 4.5 | 17.5 | 8.5 | 16.5 | 12.5 | 11.5 | 5.5 |
| 16 | | | --- | --- | 13.5 | 4.5 | 19.0 | 9.0 | 14.5 | 9.0 | 11.0 | 7.5 |
| 17 | | | 9.0 | 2.5 | 14.0 | 6.5 | 19.5 | 9.5 | 14.5 | 8.0 | 10.0 | 4.0 |
| 18 | | | 8.5 | 2.0 | --- | --- | 19.0 | 10.0 | 14.0 | 7.5 | 11.0 | 5.0 |
| 19 | | | 8.5 | 3.0 | 15.0 | 7.5 | 18.0 | 11.0 | 12.5 | 8.0 | 12.0 | 8.5 |
| 20 | | | 9.0 | 4.5 | --- | --- | 18.0 | 9.0 | 12.0 | 5.0 | 10.5 | 6.5 |
| 21 | | | 11.0 | 3.5 | 14.5 | 7.0 | 19.5 | 9.0 | 13.0 | 5.0 | 8.5 | 3.5 |
| 22 | | | 10.0 | 4.0 | --- | --- | 19.5 | 10.0 | 14.0 | 6.5 | 7.0 | 2.0 |
| 23 | | | 9.5 | 4.0 | 15.5 | 6.5 | 16.5 | 10.5 | 14.0 | 9.5 | 6.5 | .5 |
| 24 | | | 7.5 | 3.5 | 14.0 | 5.5 | 17.5 | 10.5 | 14.5 | 11.0 | 7.0 | 1.5 |
| 25 | | | --- | --- | --- | --- | 19.0 | 10.0 | 14.5 | 10.0 | 7.0 | 1.0 |
| 26 | | | 7.5 | 2.0 | --- | --- | 17.5 | 9.0 | 14.0 | 8.5 | 7.5 | 2.0 |
| 27 | | | 10.0 | 2.0 | 15.5 | 8.5 | 17.0 | 9.5 | 14.5 | 7.5 | 8.5 | 3.0 |
| 28 | | | 9.5 | 2.0 | 15.0 | 5.5 | 18.0 | 9.0 | 13.5 | 7.0 | 8.5 | 4.0 |
| 29 | | | --- | --- | 16.0 | 9.0 | 18.0 | 9.0 | 12.0 | 8.0 | 7.0 | 3.5 |
| 30 | | | 10.5 | 2.0 | --- | --- | --- | --- | 11.0 | 5.0 | 8.0 | 3.0 |
| 31 | | | 10.5 | 2.5 | --- | --- | 18.5 | 14.0 | 10.5 | 5.5 | --- | --- |

Table 10.--*Water-quality data for East Fork Parachute Creek near Rulison*--Continued

09092970 EAST FORK PARACHUTE CREEK NEAR RULISON, CO--Continued
TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

| DAY | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OCTOBER | | NOVEMBER | | DECEMBER | | JANUARY | | FEBRUARY | | MARCH | |
| 1 | 8.5 | 3.5 | .0 | .0 | .0 | .0 | | | --- | --- | | |
| 2 | 6.5 | 2.0 | .0 | .0 | .0 | .0 | | | --- | --- | | |
| 3 | 6.5 | 1.5 | .0 | .0 | .0 | .0 | | | --- | --- | | |
| 4 | 6.5 | 2.0 | .5 | .0 | .0 | .0 | | | --- | --- | | |
| 5 | 7.0 | 2.0 | 1.0 | .0 | .0 | .0 | | | --- | --- | | |
| 6 | 7.0 | 3.5 | 2.0 | .0 | .0 | .0 | | | --- | --- | | |
| 7 | 7.0 | 2.5 | 2.0 | .5 | .0 | .0 | | | --- | --- | | |
| 8 | 7.0 | 3.0 | 1.5 | .0 | .0 | .0 | | | --- | --- | | |
| 9 | 6.5 | 2.5 | 1.5 | .0 | .0 | .0 | | | --- | --- | | |
| 10 | 5.5 | 1.0 | 2.0 | .0 | .0 | .0 | | | --- | --- | | |
| 11 | 6.0 | 1.0 | 2.5 | .0 | .0 | .0 | | | .0 | .0 | | |
| 12 | 7.0 | 2.0 | 4.0 | .0 | .0 | .0 | | | .0 | .0 | | |
| 13 | 8.0 | 6.0 | 2.5 | .0 | .0 | .0 | | | .0 | .0 | | |
| 14 | 7.0 | 5.0 | .0 | .0 | .0 | .0 | | | --- | --- | | |
| 15 | 4.5 | 1.0 | .0 | .0 | .0 | .0 | | | --- | --- | | |
| 16 | 1.0 | .0 | .0 | .0 | .0 | .0 | | | --- | --- | | |
| 17 | 2.0 | .0 | .0 | .0 | .0 | .0 | | | --- | --- | | |
| 18 | 2.5 | .0 | --- | --- | .0 | .0 | | | --- | --- | | |
| 19 | 1.0 | .0 | --- | --- | .0 | .0 | | | --- | --- | | |
| 20 | 1.0 | .0 | --- | --- | --- | --- | | | --- | --- | | |
| 21 | 1.0 | .0 | --- | --- | --- | --- | | | --- | --- | | |
| 22 | 2.0 | .0 | --- | --- | --- | --- | | | --- | --- | | |
| 23 | .0 | .0 | --- | --- | --- | --- | | | --- | --- | | |
| 24 | .0 | .0 | .0 | .0 | --- | --- | | | --- | --- | | |
| 25 | .0 | .0 | .0 | .0 | --- | --- | | | --- | --- | | |
| 26 | .0 | .0 | .0 | .0 | --- | --- | | | --- | --- | | |
| 27 | .0 | .0 | .0 | .0 | --- | --- | | | --- | --- | | |
| 28 | .0 | .0 | .0 | .0 | --- | --- | | | --- | --- | | |
| 29 | .0 | .0 | .0 | .0 | --- | --- | | | --- | --- | | |
| 30 | .0 | .0 | .0 | .0 | --- | --- | | | --- | --- | | |
| 31 | .0 | .0 | --- | --- | --- | --- | | | --- | --- | | |

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

Table 10.--*Water-quality data for East Fork Parachute Creek near Rulison*--Continued

09092970 EAST FORK PARACHUTE CREEK NEAR RULISON, CO--Continued

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

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 485 | 470 | | | | | --- | 373 | 399 | 376 | 437 | 455 |
| 2 | 485 | 470 | | | | | --- | 377 | 396 | 422 | 440 | 456 |
| 3 | 485 | 470 | | | | | --- | 386 | 393 | 423 | 442 | 458 |
| 4 | 487 | 470 | | | | | --- | 391 | 410 | 434 | 447 | 458 |
| 5 | 486 | 465 | | | | | --- | 392 | 435 | 436 | 448 | 458 |
| 6 | 488 | 465 | | | | | --- | 394 | 405 | 437 | 449 | 454 |
| 7 | 488 | 465 | | | | | --- | 386 | 401 | 435 | 452 | 454 |
| 8 | 488 | 465 | | | | | --- | 386 | 267 | 435 | 454 | 456 |
| 9 | 488 | 476 | | | | | --- | 383 | 310 | 439 | 456 | 459 |
| 10 | 487 | 488 | | | | | --- | 400 | 353 | 441 | 458 | 456 |
| 11 | 486 | 487 | | | | | --- | 395 | 432 | 443 | 459 | 460 |
| 12 | 486 | 493 | | | | | --- | 381 | 438 | 444 | 462 | 459 |
| 13 | 485 | 497 | | | | | --- | 366 | 438 | 445 | 463 | 463 |
| 14 | 484 | 494 | | | | | --- | 381 | 440 | 444 | 460 | 462 |
| 15 | 483 | 500 | | | | | --- | 388 | 442 | 446 | 456 | 463 |
| 16 | 483 | 502 | | | | | --- | 400 | 442 | 446 | 460 | 467 |
| 17 | 482 | 494 | | | | | --- | 434 | 370 | 432 | 461 | 469 |
| 18 | 481 | 486 | | | | | --- | 420 | 332 | 388 | 462 | 469 |
| 19 | 480 | 490 | | | | | --- | 406 | 295 | 385 | 463 | 470 |
| 20 | 480 | 488 | | | | | --- | 390 | 300 | 396 | 461 | 471 |
| 21 | 480 | 494 | | | | | --- | 369 | 308 | 388 | 460 | 473 |
| 22 | 480 | 480 | | | | | --- | 347 | 315 | 388 | 458 | 474 |
| 23 | 480 | 457 | | | | | --- | 339 | 325 | 383 | 454 | 477 |
| 24 | 475 | 453 | | | | | --- | 372 | 336 | 380 | 448 | 478 |
| 25 | 475 | 453 | | | | | --- | 380 | 335 | 381 | 448 | 480 |
| 26 | 475 | 451 | | | | | --- | 388 | 337 | 390 | 450 | 481 |
| 27 | 475 | 444 | | | | | --- | 393 | 338 | 364 | 448 | 480 |
| 28 | 470 | 431 | | | | | --- | 394 | 357 | 347 | 448 | 482 |
| 29 | 470 | 430 | | | | | 370 | 397 | 371 | 340 | 446 | 484 |
| 30 | 470 | 430 | | | | | 372 | 400 | 374 | 448 | 450 | 486 |
| 31 | 470 | --- | | | | | --- | 401 | --- | 429 | 452 | --- |

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 487 | 485 | 446 | | --- | | --- | 400 | 429 | 440 | --- | --- |
| 2 | 480 | 489 | 464 | | --- | | --- | 402 | 430 | 435 | --- | --- |
| 3 | 470 | 480 | 462 | | --- | | --- | 405 | 424 | 436 | --- | --- |
| 4 | 470 | 469 | 463 | | --- | | 148 | 415 | 425 | 434 | --- | --- |
| 5 | 471 | 471 | 464 | | --- | | 265 | 423 | 428 | 432 | --- | --- |
| 6 | 472 | 470 | 475 | | --- | | 438 | 415 | 429 | 434 | --- | --- |
| 7 | 478 | 467 | 474 | | --- | | --- | 424 | 430 | 434 | --- | --- |
| 8 | 480 | 469 | 481 | | --- | | --- | 425 | 430 | 437 | --- | --- |
| 9 | 481 | 474 | 491 | | --- | | --- | 422 | 429 | 429 | --- | 374 |
| 10 | 481 | 474 | 490 | | --- | | 333 | 422 | 432 | 430 | --- | 387 |
| 11 | 481 | 473 | 372 | | 550 | | 337 | 420 | 435 | 426 | --- | 452 |
| 12 | 476 | 461 | 447 | | 591 | | 346 | 417 | 435 | 436 | --- | --- |
| 13 | 476 | 454 | 131 | | 596 | | 354 | 419 | 436 | 430 | --- | --- |
| 14 | 469 | 472 | --- | | --- | | 348 | 420 | 435 | 424 | --- | --- |
| 15 | 458 | 415 | 164 | | --- | | 333 | 420 | 433 | 426 | --- | --- |
| 16 | 460 | 431 | 188 | | --- | | 337 | 415 | 434 | 427 | 456 | --- |
| 17 | 461 | 445 | 102 | | --- | | 348 | 415 | 433 | 431 | 446 | --- |
| 18 | 470 | --- | --- | | --- | | 351 | 415 | 431 | 429 | --- | --- |
| 19 | 475 | --- | 101 | | --- | | 357 | 416 | 432 | 427 | --- | --- |
| 20 | 476 | --- | --- | | --- | | 363 | 414 | 432 | 431 | --- | --- |
| 21 | 477 | --- | --- | | --- | | 377 | 415 | 434 | 428 | --- | --- |
| 22 | 479 | --- | --- | | --- | | 381 | 416 | 435 | 429 | --- | --- |
| 23 | 501 | --- | --- | | --- | | 387 | 418 | 433 | 426 | --- | --- |
| 24 | 517 | 184 | --- | | --- | | 388 | 420 | 434 | 431 | --- | --- |
| 25 | 520 | 301 | --- | | --- | | 388 | 419 | 438 | 430 | --- | --- |
| 26 | 496 | 347 | --- | | --- | | 387 | 420 | 436 | 427 | --- | --- |
| 27 | 475 | 386 | --- | | --- | | 391 | 422 | 438 | 429 | --- | --- |
| 28 | 490 | 402 | --- | | --- | | 397 | 427 | 423 | 431 | --- | --- |
| 29 | 502 | 419 | --- | | --- | | 401 | 0 | 406 | 431 | --- | --- |
| 30 | 492 | 434 | --- | | --- | | 396 | 427 | 421 | 427 | --- | --- |
| 31 | 481 | --- | --- | | --- | | --- | 424 | --- | --- | --- | --- |

Table 11.--*Water-quality data for Ben Good Creek near Rulison*
[From U.S. Geological Survey 1980, 1981]

09092980 BEN GOOD CREEK NEAR RULISON, CO--Continued

WATER-QUALITY RECORDS

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

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

| DATE | TIME | STREAM-FLOW, INSTAN-TANEOUS (CFS) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH FIELD (UNITS) | TEMPER-ATURE, WATER (DEG C) | OXYGEN, DIS-SOLVED (MG/L) | HARD-NESS (MG/L AS CACO3) | HARD-NESS, NONCAR-BONATE (MG/L CACO3) | CALCIUM DIS-SOLVED (MG/L AS CA) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) | SODIUM, DIS-SOLVED (MG/L AS NA) | SODIUM AD-SORP-TION RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | | | | |
| 25... | 1015 | 2.8 | 475 | 8.3 | 4.0 | 11.2 | 190 | 0 | 45 | 19 | 40 | 1.3 |
| MAY | | | | | | | | | | | | |
| 16... | 1300 | 7.4 | 450 | 8.5 | 8.5 | 9.2 | 180 | 0 | 43 | 17 | 37 | 1.2 |
| JUN | | | | | | | | | | | | |
| 12... | 1300 | 1.4 | 625 | 8.3 | 12.0 | 8.4 | 250 | 0 | 54 | 27 | 44 | 1.2 |
| JUL | | | | | | | | | | | | |
| 01... | 1300 | .87 | 600 | 8.3 | 14.5 | 8.4 | 250 | 0 | 49 | 30 | 48 | 1.3 |
| 16... | 1200 | .88 | 600 | 8.7 | 12.0 | 8.4 | 240 | 0 | 49 | 29 | 47 | 1.3 |
| AUG | | | | | | | | | | | | |
| 13... | 1200 | .38 | 610 | 8.3 | 11.5 | 9.1 | 250 | 0 | 52 | 28 | 47 | 1.3 |

| DATE | POTAS-SIUM, DIS-SOLVED (MG/L AS K) | ALKA-LINITY (MG/L AS CACO3) | SULFATE DIS-SOLVED (MG/L AS SO4) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) | SILICA, DIS-SOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) | SOLIDS, DIS-SOLVED (TONS PER AC-FT) | SOLIDS, DIS-SOLVED (TONS PER DAY) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) | PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P) | ARSENIC DIS-SOLVED (UG/L AS AS) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | | | | |
| 25... | .8 | 210 | 46 | 2.3 | .1 | 18 | 304 | .41 | 2.30 | 1.1 | -- | 3 |
| MAY | | | | | | | | | | | | |
| 16... | .9 | 200 | 33 | 2.7 | .1 | 19 | 281 | .38 | 5.65 | 1.5 | .050 | 3 |
| JUN | | | | | | | | | | | | |
| 12... | 1.1 | 280 | 67 | 4.1 | .4 | 18 | 390 | .53 | 1.57 | .94 | .030 | 2 |
| JUL | | | | | | | | | | | | |
| 01... | 1.0 | 260 | 66 | 2.3 | .8 | 18 | 377 | .51 | .89 | .83 | .000 | 2 |
| 16... | 1.0 | 270 | 64 | 3.3 | .7 | 18 | 379 | .52 | .90 | .62 | .040 | 3 |
| AUG | | | | | | | | | | | | |
| 13... | .7 | 250 | 66 | 3.2 | .5 | 19 | 371 | .50 | .38 | .47 | .010 | 3 |

| DATE | BARIUM, DIS-SOLVED (UG/L AS BA) | BORON, DIS-SOLVED (UG/L AS B) | CADMIUM DIS-SOLVED (UG/L AS CD) | COPPER, DIS-SOLVED (UG/L AS CU) | IRON, DIS-SOLVED (UG/L AS FE) | LEAD, DIS-SOLVED (UG/L AS PB) | LITHIUM DIS-SOLVED (UG/L AS LI) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) | MERCURY DIS-SOLVED (UG/L AS HG) | SELE-NIUM, DIS-SOLVED (UG/L AS SE) | STRON-TIUM, DIS-SOLVED (UG/L AS SR) | ZINC, DIS-SOLVED (UG/L AS ZN) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| APR | | | | | | | | | | | | |
| 25... | 80 | 30 | <1 | 1 | <10 | 1 | 9 | <1 | .0 | 1 | 1100 | 5 |
| MAY | | | | | | | | | | | | |
| 16... | 70 | 50 | <1 | 2 | <10 | 2 | 10 | <1 | .0 | 1 | 1000 | <3 |
| JUN | | | | | | | | | | | | |
| 12... | 80 | 90 | <1 | 1 | <10 | 0 | 10 | <1 | .1 | 1 | 1300 | <3 |
| JUL | | | | | | | | | | | | |
| 01... | 90 | 90 | <1 | 3 | <10 | 0 | 10 | <1 | .0 | 1 | 1400 | <3 |
| 16... | 90 | 80 | <1 | 1 | <10 | 0 | 10 | <1 | .0 | 1 | 1400 | <3 |
| AUG | | | | | | | | | | | | |
| 13... | 100 | 130 | <1 | 0 | <10 | 2 | 20 | <1 | .0 | 1 | 1500 | <3 |

Table 11.--*Water-quality data for Ben Good Creek near Rulison*--Continued

09092980 BEN GOOD CREEK NEAR RULISON, CO--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

| DATE | TIME | STREAM-FLOW, INSTAN-TANEOUS (CFS) | SPE-CIFIC CON-DUCT-ANCE (UMHOS) | SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | OXYGEN, DIS-SOLVED (MG/L) | HARD-NESS (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) | SODIUM AD-SORP-TION RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 06... | 1440 | .10 | 580 | 597 | 8.4 | 11.0 | 8.2 | 230 | 47 | 28 | 51 | 1.5 |
| NOV | | | | | | | | | | | | |
| 12... | 1300 | .09 | 560 | 540 | 8.4 | 7.5 | 10.2 | 220 | 44 | 26 | 49 | 1.4 |
| DEC | | | | | | | | | | | | |
| 01... | 1200 | .02 | 540 | 495 | 8.3 | 2.0 | 10.4 | 210 | 68 | 10 | 19 | .6 |
| JAN | | | | | | | | | | | | |
| 02... | 1330 | .13 | 520 | 612 | 8.3 | 2.0 | 11.6 | 220 | 46 | 26 | 52 | 1.5 |
| APR | | | | | | | | | | | | |
| 16... | 1300 | .04 | 540 | 624 | 8.4 | 7.5 | 9.4 | 230 | 50 | 25 | 49 | 1.4 |
| MAY | | | | | | | | | | | | |
| 27... | 1100 | .09 | 560 | 591 | 8.3 | 10.0 | 8.8 | 230 | 48 | 26 | 50 | 1.4 |
| JUN | | | | | | | | | | | | |
| 09... | 1300 | .06 | 560 | 582 | 8.4 | 13.5 | 7.8 | 210 | 43 | 25 | 49 | 1.5 |
| JUL | | | | | | | | | | | | |
| 30... | 1200 | .04 | 572 | 582 | 9.1 | 12.4 | 6.6 | 210 | 37 | 27 | 53 | 1.8 |
| AUG | | | | | | | | | | | | |
| 27... | 1100 | .01 | 588 | 594 | 8.5 | 12.0 | 6.4 | 230 | 46 | 27 | 53 | 1.7 |

| DATE | POTAS-SIUM, DIS-SOLVED (MG/L AS K) | ALKA-LINITY LAB (MG/L AS CACO3) | SULFATE DIS-SOLVED (MG/L AS SO4) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) | SILICA, DIS-SOLVED (MG/L AS SIO2) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) | SOLIDS, DIS-SOLVED (TONS PER AC-FT) | SOLIDS, DIS-SOLVED (TONS PER DAY) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) | PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) | ARSENIC DIS-SOLVED (UG/L AS AS) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 06... | 1.0 | 250 | 93 | 3.1 | .5 | 19 | 395 | .54 | .11 | .06 | .030 | 2 |
| NOV | | | | | | | | | | | | |
| 12... | 1.2 | 260 | 63 | 3.3 | .6 | 17 | 362 | .49 | .09 | .02 | .000 | 3 |
| DEC | | | | | | | | | | | | |
| 01... | 8.2 | 210 | 41 | 14 | .3 | 35 | 328 | .45 | .02 | 1.3 | .250 | 4 |
| JAN | | | | | | | | | | | | |
| 02... | 1.5 | 250 | 67 | 1.5 | .6 | 17 | 364 | .50 | .13 | .21 | .020 | 3 |
| APR | | | | | | | | | | | | |
| 16... | 1.9 | 260 | 60 | 12 | .6 | 18 | 375 | .51 | .04 | .16 | .000 | 2 |
| MAY | | | | | | | | | | | | |
| 27... | .9 | 270 | 61 | 2.7 | .5 | 18 | 372 | .51 | .09 | .21 | .050 | 2 |
| JUN | | | | | | | | | | | | |
| 09... | 1.0 | 260 | 59 | 2.9 | .5 | 18 | 356 | .48 | .06 | .01 | -- | 3 |
| JUL | | | | | | | | | | | | |
| 30... | 1.2 | 240 | 65 | 3.0 | .5 | 20 | 353 | .48 | .04 | .10 | .030 | 4 |
| AUG | | | | | | | | | | | | |
| 27... | 1.0 | 260 | 68 | 3.1 | .5 | 21 | 379 | .52 | .01 | .33 | .010 | 3 |

| DATE | BARIUM, DIS-SOLVED (UG/L AS BA) | BORON, DIS-SOLVED (UG/L AS B) | CADMIUM DIS-SOLVED (UG/L AS CD) | COPPER, DIS-SOLVED (UG/L AS CU) | IRON, DIS-SOLVED (UG/L AS FE) | LEAD, DIS-SOLVED (UG/L AS PB) | LITHIUM DIS-SOLVED (UG/L AS LI) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) | MERCURY DIS-SOLVED (UG/L AS HG) | SELE-NIUM, DIS-SOLVED (UG/L AS SE) | STRON-TIUM, DIS-SOLVED (UG/L AS SR) | ZINC, DIS-SOLVED (UG/L AS ZN) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OCT | | | | | | | | | | | | |
| 06... | 90 | 90 | <1 | 0 | <10 | 5 | 20 | <1 | .0 | 0 | 1400 | <3 |
| NOV | | | | | | | | | | | | |
| 12... | 80 | 60 | <1 | 0 | <10 | 1 | 20 | <1 | .0 | 0 | 1300 | <3 |
| DEC | | | | | | | | | | | | |
| 01... | 200 | 90 | 1 | 2 | 10 | 0 | 20 | 50 | .0 | 3 | 360 | 20 |
| JAN | | | | | | | | | | | | |
| 02... | 90 | 90 | <1 | 10 | 10 | 7 | 20 | <1 | .2 | 0 | 1300 | 8 |
| APR | | | | | | | | | | | | |
| 16... | 100 | 90 | <1 | 2 | 20 | 2 | 20 | 1 | .0 | 0 | 1300 | 5 |
| MAY | | | | | | | | | | | | |
| 27... | 80 | 80 | <1 | 2 | <10 | 2 | 20 | <1 | .3 | 0 | 1400 | 6 |
| JUN | | | | | | | | | | | | |
| 09... | 100 | 90 | <1 | 2 | <10 | 7 | 20 | <1 | .0 | 0 | 1400 | 3 |
| JUL | | | | | | | | | | | | |
| 30... | 90 | 100 | <1 | 1 | <10 | 0 | 21 | 2 | .6 | 1 | 1300 | 10 |
| AUG | | | | | | | | | | | | |
| 27... | 90 | 100 | <1 | 0 | <10 | 0 | 22 | 3 | .0 | 0 | 1400 | 60 |

Table 12.--*Suspended-sediment data for East Middle Fork Parachute Creek near Rio Blanco*
[From U.S. Geological Survey, 1980, 1981]

09092850 EAST MIDDLE FORK PARACHUTE CREEK NEAR RIO BLANCO, CO--Continued

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

| DAY | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | 1.2 | --- | .10 | .88 | | .00 | .76 | --- | .00 |
| 2 | 1.2 | --- | .10 | .88 | | .00 | .76 | --- | .00 |
| 3 | 1.2 | 36 | .11 | .84 | | .00 | .76 | --- | .01 |
| 4 | 1.1 | --- | .10 | .84 | | .00 | .76 | --- | .02 |
| 5 | 1.1 | --- | .10 | .84 | | .00 | .76 | --- | .03 |
| 6 | 1.1 | --- | .10 | .88 | | .00 | .76 | 24 | .05 |
| 7 | 1.0 | --- | .10 | .88 | | .00 | .92 | --- | .08 |
| 8 | 1.0 | --- | .10 | .88 | | .01 | .92 | --- | .08 |
| 9 | 1.0 | --- | .10 | .96 | | .01 | .92 | --- | .08 |
| 10 | 1.0 | --- | .10 | .88 | | .00 | .92 | --- | .08 |
| 11 | 1.0 | --- | .10 | .88 | | .00 | .96 | --- | .10 |
| 12 | 1.0 | --- | .10 | .88 | | .00 | .92 | --- | .08 |
| 13 | 1.1 | --- | .10 | .88 | | .00 | .88 | --- | .05 |
| 14 | 1.0 | --- | .10 | .84 | | .00 | .84 | --- | .02 |
| 15 | 1.0 | --- | .10 | .84 | | .00 | .80 | --- | .00 |
| 16 | 1.0 | --- | .10 | .84 | | .00 | .84 | --- | .00 |
| 17 | 1.1 | --- | .10 | .80 | | .00 | .84 | --- | .00 |
| 18 | 1.1 | --- | .10 | .88 | | .00 | .84 | --- | .00 |
| 19 | 1.1 | --- | .10 | .92 | | .01 | .88 | --- | .01 |
| 20 | 1.3 | --- | .10 | .88 | | .01 | .80 | --- | .00 |
| 21 | 1.3 | --- | .10 | .88 | | .00 | .76 | --- | .00 |
| 22 | 1.3 | --- | .10 | .80 | | .00 | .76 | --- | .00 |
| 23 | 1.2 | --- | .10 | .84 | | .00 | .80 | --- | .00 |
| 24 | 1.2 | --- | .10 | .80 | | .00 | .92 | --- | .05 |
| 25 | 1.2 | --- | .10 | .88 | | .00 | .92 | --- | .05 |
| 26 | 1.1 | --- | .10 | .84 | | .00 | .96 | --- | .08 |
| 27 | 1.1 | --- | .10 | .76 | | .00 | 1.0 | --- | .10 |
| 28 | 1.1 | --- | .05 | .76 | | .00 | .96 | --- | .08 |
| 29 | 1.2 | --- | .03 | .76 | | .00 | .92 | --- | .05 |
| 30 | 1.2 | 8 | .02 | .76 | | .00 | .90 | --- | .01 |
| 31 | .88 | --- | .00 | --- | | | .90 | --- | .01 |

| DAY | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) |
|---|---|---|---|---|---|---|---|---|---|
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | .90 | | .01 | .92 | | .01 | .70 | | .00 |
| 2 | .88 | | .01 | .90 | | .01 | .72 | | .00 |
| 3 | .86 | | .00 | .90 | | .01 | .74 | | .00 |
| 4 | .84 | | .00 | .88 | | .01 | .76 | | .00 |
| 5 | .82 | | .00 | .86 | | .00 | .78 | | .00 |
| 6 | .80 | | .00 | .84 | | .00 | .80 | | .00 |
| 7 | .78 | | .00 | .82 | | .00 | .80 | | .00 |
| 8 | .76 | | .00 | .80 | | .00 | .72 | | .00 |
| 9 | .74 | | .00 | .78 | | .00 | .72 | | .00 |
| 10 | .72 | | .00 | .76 | | .00 | .72 | | .00 |
| 11 | .70 | | .00 | .75 | | .00 | .76 | | .00 |
| 12 | .68 | | .00 | .76 | | .00 | .84 | | .00 |
| 13 | .66 | | .00 | .76 | | .00 | .84 | | .00 |
| 14 | .64 | | .00 | .76 | | .00 | .82 | | .00 |
| 15 | .62 | | .00 | .74 | | .00 | .82 | | .00 |
| 16 | .60 | | .00 | .74 | | .00 | .84 | | .00 |
| 17 | .60 | | .00 | .74 | | .00 | .80 | | .00 |
| 18 | .57 | | .00 | .76 | | .00 | .76 | | .00 |
| 19 | .68 | | .00 | .76 | | .00 | .72 | | .00 |
| 20 | .76 | | .00 | .76 | | .00 | .72 | | .00 |
| 21 | .72 | | .00 | .76 | | .00 | .74 | | .00 |
| 22 | .76 | | .00 | .74 | | .00 | .74 | | .00 |
| 23 | .96 | | .05 | .74 | | .00 | .76 | | .00 |
| 24 | 1.2 | | .10 | .74 | | .00 | .76 | | .00 |
| 25 | 1.1 | | .10 | .74 | | .00 | .78 | | .00 |
| 26 | 1.0 | | .10 | .72 | | .00 | .78 | | .00 |
| 27 | 1.0 | | .10 | .72 | | .00 | .80 | | .00 |
| 28 | .98 | | .05 | .72 | | .00 | .80 | | .00 |
| 29 | .96 | | .03 | .70 | | .00 | .82 | | .00 |
| 30 | .94 | | .01 | --- | | | .82 | | .00 |
| 31 | .94 | | .01 | --- | | | .84 | | .00 |

Table 12.--*Suspended-sediment data for East Middle Fork Parachute Creek near Rio Blanco*--Continued

09092850 EAST MIDDLE FORK PARACHUTE CREEK NEAR RIO BLANCO, CO--Continued

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

| DAY | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | .86 | --- | .01 | 68 | --- | 100 | 31 | 24 | 2.0 |
| 2 | .88 | --- | .05 | 76 | --- | 98 | 28 | 21 | 1.6 |
| 3 | .90 | --- | .10 | 73 | --- | 100 | 25 | --- | 1.0 |
| 4 | 1.1 | --- | .20 | 78 | --- | 130 | 24 | --- | 1.0 |
| 5 | 1.3 | --- | .20 | 83 | --- | 40 | 22 | --- | 1.0 |
| 6 | 1.5 | --- | .30 | 87 | --- | 50 | 20 | --- | 1.0 |
| 7 | 1.9 | --- | .30 | 101 | --- | 110 | 20 | --- | 1.0 |
| 8 | 2.2 | 48 | .30 | 94 | --- | 60 | 18 | --- | .80 |
| 9 | 2.3 | --- | .60 | 100 | --- | 100 | 17 | --- | .70 |
| 10 | 2.9 | --- | .70 | 98 | --- | 90 | 15 | --- | .60 |
| 11 | 3.1 | --- | .70 | 100 | --- | 100 | 14 | --- | .50 |
| 12 | 3.1 | --- | .80 | 105 | --- | 130 | 14 | --- | .50 |
| 13 | 3.3 | --- | .20 | 107 | --- | 140 | 12 | --- | .40 |
| 14 | 3.7 | --- | .30 | 111 | --- | 200 | 12 | --- | .40 |
| 15 | 5.0 | --- | .40 | 108 | 231 | 67 | 11 | --- | .40 |
| 16 | 5.7 | --- | .60 | 105 | --- | 70 | 10 | --- | .30 |
| 17 | 6.4 | --- | 1.5 | 105 | --- | 70 | 9.7 | --- | .30 |
| 18 | 8.3 | --- | 3.0 | 105 | --- | 70 | 9.3 | 14 | .35 |
| 19 | 12 | --- | 5.0 | 89 | --- | 50 | 8.4 | 51 | 1.2 |
| 20 | 16 | --- | 10 | 95 | --- | 60 | 8.0 | 36 | .78 |
| 21 | 21 | --- | 20 | 102 | --- | 100 | 7.4 | 9 | .18 |
| 22 | 29 | --- | 30 | 118 | 441 | 140 | 7.4 | 5 | .10 |
| 23 | 36 | --- | 30 | 111 | 380 | 114 | 6.7 | 20 | .36 |
| 24 | 42 | --- | 30 | 94 | 190 | 48 | 6.7 | 9 | .16 |
| 25 | 42 | --- | 40 | 70 | 125 | 24 | 6.7 | 7 | .13 |
| 26 | 45 | --- | 40 | 56 | 66 | 10 | 6.2 | 12 | .20 |
| 27 | 47 | --- | 40 | 49 | 57 | 7.5 | 6.2 | 24 | .40 |
| 28 | 50 | --- | 50 | 44 | 40 | 4.8 | 5.7 | 25 | .38 |
| 29 | 56 | --- | 50 | 41 | 40 | 4.4 | 5.7 | 12 | .18 |
| 30 | 63 | --- | 70 | 37 | 30 | 3.0 | 5.2 | 30 | .42 |
| 31 | --- | --- | --- | 34 | 24 | 2.2 | --- | --- | --- |

| DAY | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) |
|---|---|---|---|---|---|---|---|---|---|
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 5.2 | | .30 | 2.0 | --- | .40 | 1.1 | | .10 |
| 2 | 5.4 | | .20 | 2.0 | --- | .40 | 1.1 | | .10 |
| 3 | 5.4 | | .20 | 1.8 | --- | .40 | 1.1 | | .10 |
| 4 | 4.7 | | .20 | 1.8 | --- | .30 | 1.1 | | .10 |
| 5 | 4.2 | | .10 | 1.9 | --- | .20 | 1.1 | | .10 |
| 6 | 4.0 | | .10 | 2.0 | 20 | .10 | 1.1 | | .10 |
| 7 | 3.8 | | .10 | 2.0 | --- | .20 | 1.2 | | .10 |
| 8 | 3.7 | | .10 | 1.7 | --- | .30 | 1.2 | | .10 |
| 9 | 3.3 | | .10 | 1.4 | --- | .20 | 1.1 | | .10 |
| 10 | 3.1 | | .10 | 1.4 | --- | .10 | 1.2 | | .10 |
| 11 | 3.1 | | .10 | 1.4 | 11 | .04 | 1.3 | | .20 |
| 12 | 2.8 | | .60 | 1.4 | --- | .10 | 1.2 | | .10 |
| 13 | 2.8 | | .60 | 1.4 | --- | .10 | 1.1 | | .10 |
| 14 | 2.9 | | .60 | 1.4 | --- | .20 | 1.1 | | .10 |
| 15 | 2.6 | | .60 | 1.4 | --- | .20 | 1.1 | | .10 |
| 16 | 2.3 | | .50 | 1.5 | --- | .20 | 1.1 | | .10 |
| 17 | 2.3 | | .50 | 1.5 | --- | .20 | 1.0 | | .10 |
| 18 | 2.2 | | .40 | 1.4 | --- | .20 | 1.0 | | .10 |
| 19 | 2.2 | | .40 | 1.4 | --- | .20 | 1.0 | | .10 |
| 20 | 2.2 | | .40 | 1.3 | --- | .20 | 1.1 | | .10 |
| 21 | 2.2 | | .40 | 1.3 | --- | .20 | 1.1 | | .10 |
| 22 | 2.1 | | .40 | 1.2 | --- | .20 | 1.1 | | .10 |
| 23 | 2.2 | | .40 | 1.1 | --- | .20 | 1.1 | | .10 |
| 24 | 2.2 | | .60 | 1.3 | --- | .10 | 1.1 | | .10 |
| 25 | 2.8 | | .50 | 1.2 | --- | .10 | 1.1 | | .10 |
| 26 | 2.4 | | .30 | 1.2 | --- | .10 | 1.1 | | .10 |
| 27 | 1.9 | | .30 | 1.1 | --- | .10 | 1.1 | | .10 |
| 28 | 1.9 | | .30 | 1.1 | --- | .10 | 1.1 | | .10 |
| 29 | 1.8 | | .30 | 1.1 | --- | .10 | 1.0 | | .10 |
| 30 | 2.1 | | .40 | 1.1 | --- | .10 | 1.0 | | .10 |
| 31 | 2.2 | | .40 | 1.1 | --- | .10 | --- | | |
| TOTAL | 92.0 | | 10.50 | 44.9 | --- | 5.64 | 33.1 | | 3.10 |
| YEAR | 3878.00 | | 2760.32 | | | | | | |

Table 12.--*Suspended-sediment data for East Middle Fork Parachute Creek near Rio Blanco*--Continued

09092850 EAST MIDDLE FORK PARACHUTE CREEK NEAR RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

| DAY | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | .99 | | .10 | 1.4 | | .02 | .80 | | .01 |
| 2 | .91 | | .06 | 1.4 | | .02 | .80 | | .01 |
| 3 | 1.0 | | .02 | 1.4 | | .02 | .80 | | .01 |
| 4 | 1.0 | | .02 | 1.4 | | .02 | .80 | | .01 |
| 5 | 1.0 | | .02 | 1.4 | | .02 | .80 | | .01 |
| 6 | 1.0 | | .02 | 1.4 | | .02 | .80 | | .01 |
| 7 | 1.0 | | .02 | 1.4 | | .02 | .80 | | .01 |
| 8 | 1.0 | | .02 | 1.4 | | .02 | .80 | | .01 |
| 9 | 1.0 | | .02 | 1.4 | | .02 | .80 | | .01 |
| 10 | 1.1 | | .02 | 1.3 | | .02 | .80 | | .01 |
| 11 | 1.1 | | .02 | 1.4 | | .02 | .80 | | .01 |
| 12 | 1.1 | | .02 | 1.4 | | .02 | .80 | | .01 |
| 13 | 1.3 | | .02 | 1.6 | | .04 | .80 | | .01 |
| 14 | 1.3 | | .02 | 1.5 | | .04 | .80 | | .01 |
| 15 | 1.8 | | .04 | .54 | | .00 | .80 | | .01 |
| 16 | 1.4 | | .02 | .65 | | .00 | .80 | | .01 |
| 17 | 1.4 | | .02 | .76 | | .01 | .80 | | .01 |
| 18 | 1.4 | | .02 | .81 | | .01 | .80 | | .01 |
| 19 | 1.2 | | .02 | .82 | | .01 | .78 | | .01 |
| 20 | 1.1 | | .02 | .80 | | .01 | .78 | | .01 |
| 21 | 1.0 | | .02 | .80 | | .01 | .78 | | .01 |
| 22 | 1.1 | | .02 | .80 | | .01 | .78 | | .01 |
| 23 | 1.1 | | .02 | .80 | | .01 | .78 | | .01 |
| 24 | 1.2 | | .02 | .80 | | .01 | .78 | | .01 |
| 25 | 1.3 | | .02 | .80 | | .01 | .78 | | .01 |
| 26 | 1.3 | | .02 | .80 | | .01 | .78 | | .01 |
| 27 | 1.4 | | .02 | .80 | | .01 | .78 | | .01 |
| 28 | 1.3 | | .02 | .80 | | .01 | .74 | | .01 |
| 29 | 1.1 | | .02 | .80 | | .01 | .74 | | .01 |
| 30 | 1.4 | | .02 | .80 | | .01 | .74 | | .01 |
| 31 | 1.4 | | .02 | --- | | | .74 | | .01 |

| DAY | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) |
|---|---|---|---|---|---|---|---|---|---|
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | .74 | --- | .01 | .67 | --- | .00 | 1.1 | | .02 |
| 2 | .74 | --- | .01 | .67 | --- | .00 | .91 | | .01 |
| 3 | .74 | --- | .01 | .67 | --- | .00 | .82 | | .01 |
| 4 | .74 | --- | .02 | .72 | --- | .00 | .82 | | .01 |
| 5 | .74 | --- | .02 | .67 | --- | .00 | .99 | | .01 |
| 6 | .74 | --- | .02 | .73 | --- | .01 | .99 | | .02 |
| 7 | .72 | --- | .02 | .73 | --- | .01 | .77 | | .05 |
| 8 | .72 | 13 | .02 | .73 | --- | .01 | .82 | | .06 |
| 9 | .67 | --- | .00 | .73 | --- | .01 | .91 | | .08 |
| 10 | .72 | --- | .01 | .94 | --- | .02 | .99 | | .09 |
| 11 | .67 | --- | .00 | .74 | --- | .01 | 1.0 | | .10 |
| 12 | .72 | --- | .01 | .69 | --- | .00 | 1.0 | | .10 |
| 13 | .73 | --- | .01 | .69 | --- | .00 | 1.0 | | .10 |
| 14 | .78 | --- | .01 | .69 | --- | .00 | 1.0 | | .10 |
| 15 | .73 | --- | .01 | .70 | --- | .00 | 1.0 | | .10 |
| 16 | .73 | --- | .01 | .65 | --- | .00 | 1.2 | | .10 |
| 17 | .74 | --- | .01 | .70 | --- | .00 | 1.2 | | .10 |
| 18 | .74 | --- | .01 | .70 | --- | .00 | 1.3 | | .10 |
| 19 | .69 | --- | .00 | .76 | --- | .01 | 1.3 | | .10 |
| 20 | .69 | --- | .00 | .81 | --- | .01 | 1.4 | | .20 |
| 21 | .64 | --- | .00 | .81 | --- | .01 | 1.5 | | .20 |
| 22 | .69 | --- | .00 | .90 | --- | .01 | 1.5 | | .20 |
| 23 | .70 | --- | .00 | .82 | --- | .01 | 1.5 | | .20 |
| 24 | .75 | --- | .01 | .91 | 9 | .02 | 1.8 | | .30 |
| 25 | .70 | --- | .00 | .99 | --- | .01 | 2.0 | | .40 |
| 26 | .70 | --- | .00 | .91 | --- | .01 | 2.2 | | .40 |
| 27 | .71 | --- | .00 | .91 | --- | .01 | 2.0 | | .40 |
| 28 | .66 | --- | .00 | .99 | --- | .01 | 2.5 | | .50 |
| 29 | .66 | --- | .00 | --- | --- | --- | 2.8 | | .60 |
| 30 | .66 | --- | .00 | --- | --- | --- | 3.0 | | .60 |
| 31 | .66 | --- | .00 | --- | --- | --- | 3.2 | | .60 |

Table 12.--*Suspended-sediment data for East Middle Fork Parachute Creek near Rio Blanco*--Continued

09092850 EAST MIDDLE FORK PARACHUTE CREEK NEAR RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

| DAY | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | 3.4 | --- | .60 | 2.8 | 9 | .07 | 1.0 | 61 | .16 |
| 2 | 3.6 | --- | .60 | 2.8 | 32 | .24 | 1.2 | 41 | .13 |
| 3 | 3.8 | --- | .60 | 2.8 | 48 | .36 | 1.6 | 40 | .17 |
| 4 | 4.0 | --- | .60 | 2.8 | 56 | .42 | 1.5 | --- | .17 |
| 5 | 4.0 | --- | .60 | 2.8 | 34 | .26 | 1.5 | --- | .17 |
| 6 | 4.0 | --- | .60 | 2.9 | 23 | .18 | 1.6 | --- | .17 |
| 7 | 4.0 | --- | .60 | 2.9 | 13 | .10 | 1.8 | --- | .17 |
| 8 | 4.1 | --- | .60 | 2.9 | 22 | .17 | 1.8 | --- | .16 |
| 9 | 4.1 | --- | .60 | 2.9 | 32 | .25 | 1.8 | --- | .16 |
| 10 | 4.1 | --- | .60 | 2.9 | 30 | .23 | 1.8 | --- | .16 |
| 11 | 4.6 | --- | .60 | 2.9 | 26 | .20 | 1.8 | --- | .16 |
| 12 | 3.9 | --- | .60 | 2.9 | 27 | .21 | 1.7 | --- | .16 |
| 13 | 4.3 | --- | .60 | 2.9 | 62 | .49 | 1.7 | --- | .16 |
| 14 | 7.2 | --- | 1.0 | 2.9 | 86 | .67 | 1.1 | --- | .16 |
| 15 | 9.7 | --- | 2.0 | 2.8 | 117 | .88 | .71 | --- | .10 |
| 16 | 7.5 | --- | 1.0 | 2.7 | 82 | .60 | 1.1 | --- | .16 |
| 17 | 10 | --- | 2.0 | 2.6 | 77 | .54 | 1.7 | 0 | .00 |
| 18 | 10 | --- | 2.0 | 2.5 | 62 | .42 | 1.6 | 40 | .17 |
| 19 | 9.4 | --- | 2.0 | 2.4 | 61 | .40 | 1.6 | 35 | .15 |
| 20 | 8.3 | --- | 1.5 | 2.3 | 56 | .35 | 1.6 | 32 | .14 |
| 21 | 7.0 | --- | 1.0 | 2.2 | 55 | .33 | 1.6 | 26 | .11 |
| 22 | 6.1 | --- | 1.0 | 2.2 | 58 | .34 | 1.6 | 22 | .10 |
| 23 | 5.0 | 57 | .77 | 2.2 | 54 | .32 | 1.5 | 20 | .08 |
| 24 | 4.6 | 65 | .81 | 2.2 | 72 | .43 | 1.6 | 18 | .08 |
| 25 | 4.5 | 51 | .62 | 2.1 | 45 | .26 | 1.7 | 21 | .10 |
| 26 | 4.2 | 49 | .56 | 2.0 | 55 | .30 | 1.8 | 23 | .11 |
| 27 | 4.0 | 43 | .46 | 1.9 | 56 | .29 | 2.1 | 22 | .12 |
| 28 | 3.7 | 35 | .35 | 1.8 | 54 | .26 | 1.4 | 308 | 2.4 |
| 29 | 3.4 | 23 | .21 | 1.8 | 47 | .23 | 1.7 | 535 | 3.1 |
| 30 | 3.2 | 10 | .09 | 1.8 | 53 | .26 | 1.1 | 74 | .22 |
| 31 | --- | --- | --- | 1.1 | 85 | .25 | --- | --- | --- |

| DAY | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) |
|---|---|---|---|---|---|---|---|---|---|
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 1.2 | 18 | .06 | .41 | 3 | .00 | .50 | 3 | .00 |
| 2 | 1.1 | 22 | .07 | .40 | 4 | .00 | .50 | 2 | .00 |
| 3 | .99 | 18 | .05 | .39 | 4 | .00 | .50 | 3 | .00 |
| 4 | .91 | 18 | .04 | .39 | 2 | .00 | .50 | 5 | .00 |
| 5 | .77 | 19 | .04 | .32 | 2 | .00 | .50 | 4 | .00 |
| 6 | .77 | 13 | .03 | .29 | 2 | .00 | .50 | 5 | .00 |
| 7 | .72 | 10 | .02 | .30 | 2 | .00 | .50 | 8 | .01 |
| 8 | .66 | 8 | .01 | .30 | 2 | .00 | .51 | 7 | .00 |
| 9 | .72 | 9 | .02 | .29 | 2 | .00 | .56 | 4 | .00 |
| 10 | 1.1 | 26 | .08 | .38 | 2 | .00 | .72 | 8 | .02 |
| 11 | .77 | 8 | .02 | .53 | 2 | .00 | .82 | 6 | .01 |
| 12 | .82 | 12 | .03 | .47 | 4 | .00 | .66 | 6 | .01 |
| 13 | 1.2 | 31 | .13 | .40 | 6 | .00 | .61 | 9 | .01 |
| 14 | .82 | 8 | .02 | .36 | 4 | .00 | .56 | 8 | .01 |
| 15 | .72 | 6 | .01 | .32 | 5 | .00 | .51 | 10 | .01 |
| 16 | .72 | 4 | .00 | .53 | 6 | .00 | .56 | 2 | .00 |
| 17 | 1.1 | 26 | .14 | .49 | 6 | .00 | .56 | 10 | .02 |
| 18 | 1.4 | 23 | .10 | .40 | 4 | .00 | .56 | 18 | .03 |
| 19 | .82 | 12 | .03 | .40 | 3 | .00 | .51 | 11 | .02 |
| 20 | .72 | 16 | .03 | .40 | 2 | .00 | .56 | 4 | .00 |
| 21 | .66 | 21 | .04 | .40 | 3 | .00 | .51 | 10 | .01 |
| 22 | .61 | 12 | .02 | .40 | 4 | .00 | .46 | 9 | .01 |
| 23 | .65 | 9 | .02 | .40 | 3 | .00 | .35 | 8 | .00 |
| 24 | .80 | 9 | .02 | .41 | 2 | .00 | .35 | 8 | .00 |
| 25 | .86 | 7 | .02 | .42 | 2 | .00 | .35 | 6 | .00 |
| 26 | .63 | 3 | .00 | .43 | 2 | .00 | .35 | 5 | .00 |
| 27 | .67 | 6 | .01 | .44 | 2 | .00 | .35 | 5 | .00 |
| 28 | .56 | 2 | .00 | .45 | 3 | .00 | .30 | 5 | .00 |
| 29 | .49 | 14 | .02 | .46 | 3 | .00 | .35 | 5 | .00 |
| 30 | .48 | 6 | .00 | .47 | 3 | .00 | .30 | 8 | .00 |
| 31 | .42 | 4 | .00 | .50 | 7 | .00 | --- | --- | --- |

Table 13.--*Suspended-sediment data for East Fork Parachute Creek near Rulison*
[From U.S. Geological Survey 1980, 1981]

09092970 EAST FORK PARACHUTE CREEK NEAR RULISON, CO--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1976 to current year.
WATER TEMPERATURE: October 1976 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1976. Pumping sediment sampler since December 1976.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 590 micromhos Oct. 9; minimum, 115 micromhos June 10.
WATER TEMPERATURES: Maximum, 19.5°C July 11, 17, 21, 22; minimum recorded, 0.0°C Nov. 8.
SEDIMENT CONCENTRATIONS: Maximum daily, not determined; minimum daily, not determined.
SEDIMENT LOADS: Maximum daily, not determined; minimum daily, not determined.

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

| DATE | TIME | STREAM-FLOW, INSTANTANEOUS (CFS) | SEDIMENT, SUSPENDED (MG/L) | SEDIMENT DISCHARGE, SUSPENDED (T/DAY) |
|---|---|---|---|---|
| OCT | | | | |
| 17... | 1230 | .93 | 14 | .04 |
| JUN | | | | |
| 10... | 1400 | 27 | 22 | 1.6 |
| JUL | | | | |
| 12... | 1000 | 6.7 | 11 | .20 |
| 17... | 1200 | 3.2 | 7 | .06 |
| 31... | 1200 | 1.5 | 3 | .01 |
| AUG | | | | |
| 13... | 1600 | 1.1 | 1 | .00 |

Table 13.--*Suspended-sediment data for East Fork Parachute Creek near Rulison*--Continued

09092970 EAST FORK PARACHUTE CREEK NEAR RULISON, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

| DATE | TIME | STREAM-FLOW, INSTAN-TANEOUS (CFS) | SEDI-MENT, SUS-PENDED (MG/L) | SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) |
|---|---|---|---|---|
| APR | | | | |
| 17... | 1500 | 6.7 | 61 | 1.1 |
| 27... | 1200 | 3.9 | 5 | .05 |
| MAY | | | | |
| 05... | 1200 | 3.9 | 4 | .04 |
| 28... | 1300 | 2.1 | 8 | .05 |
| JUN | | | | |
| 10... | 1130 | 1.2 | 10 | .03 |
| 30... | 1330 | 1.0 | 16 | .04 |

Table 13.--*Suspended-sediment data for East Fork Parachute Creek near Rulison*--Continued

09092970 EAST FORK PARACHUTE CREEK NEAR RULISON, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

| DAY | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) |
|---|---|---|---|---|---|---|---|---|---|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | |
| 1 | .84 | | .05 | .90 | | .05 | .37 | | .02 |
| 2 | .69 | | .05 | 1.0 | | .06 | .37 | | .02 |
| 3 | .75 | | .04 | .90 | | .05 | .37 | | .02 |
| 4 | .84 | | .05 | .90 | | .05 | .37 | | .02 |
| 5 | 1.1 | | .06 | .93 | | .05 | .37 | | .02 |
| 6 | 1.2 | | .06 | 1.1 | | .06 | .37 | | .02 |
| 7 | 1.2 | | .06 | 1.1 | | .06 | .37 | | .02 |
| 8 | 1.3 | | .06 | 1.1 | | .06 | .33 | | .01 |
| 9 | 1.3 | | .06 | 1.1 | | .06 | .33 | | .01 |
| 10 | 1.3 | | .06 | 1.1 | | .06 | .33 | | .01 |
| 11 | 1.3 | | .06 | 1.0 | | .06 | .33 | | .01 |
| 12 | 1.6 | | .07 | 1.2 | | .06 | .33 | | .01 |
| 13 | 1.9 | | .08 | 1.7 | | .07 | .33 | | .01 |
| 14 | 2.0 | | .08 | 1.1 | | .06 | .00 | | --- |
| 15 | 3.2 | | .12 | .90 | | .05 | .29 | | .01 |
| 16 | 2.4 | | .09 | .60 | | .04 | .27 | | .01 |
| 17 | 2.4 | | .09 | .43 | | .04 | .27 | | .01 |
| 18 | 2.3 | | .09 | .00 | | --- | .00 | | --- |
| 19 | 1.9 | | .08 | .00 | | --- | .27 | | .01 |
| 20 | 2.4 | | .09 | .00 | | --- | .00 | | --- |
| 21 | 2.3 | | .09 | .00 | | --- | .00 | | --- |
| 22 | 2.0 | | .08 | .00 | | --- | .00 | | --- |
| 23 | 1.8 | | .08 | .00 | | --- | .00 | | --- |
| 24 | 1.3 | | .06 | .32 | | .01 | .00 | | --- |
| 25 | 1.1 | | .06 | .33 | | .01 | .00 | | --- |
| 26 | 1.0 | | .06 | .33 | | .01 | .00 | | --- |
| 27 | 1.1 | | .06 | .37 | | .02 | .00 | | --- |
| 28 | 1.0 | | .06 | .37 | | .02 | .00 | | --- |
| 29 | 1.3 | | .06 | .37 | | .02 | .00 | | --- |
| 30 | 1.3 | | .06 | .37 | | .02 | .00 | | --- |
| 31 | .90 | | .05 | --- | | | .00 | | --- |

| DAY | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) |
|---|---|---|---|---|---|---|---|---|---|
| | | JANUARY | | | FEBRUARY | | | MARCH | |
| 1 | .00 | | | .00 | | --- | .00 | | |
| 2 | .00 | | | .00 | | --- | .00 | | |
| 3 | .00 | | | .00 | | --- | .00 | | |
| 4 | .00 | | | .00 | | --- | .00 | | |
| 5 | .00 | | | .00 | | --- | .00 | | |
| 6 | .00 | | | .00 | | --- | .00 | | |
| 7 | .00 | | | .00 | | --- | .00 | | |
| 8 | .00 | | | .00 | | --- | .00 | | |
| 9 | .00 | | | .00 | | --- | .00 | | |
| 10 | .00 | | | .00 | | --- | .00 | | |
| 11 | .00 | | | .21 | | .02 | .00 | | |
| 12 | .00 | | | .21 | | .02 | .00 | | |
| 13 | .00 | | | .21 | | .02 | .00 | | |
| 14 | .00 | | | .00 | | --- | .00 | | |
| 15 | .00 | | | .00 | | --- | .00 | | |
| 16 | .00 | | | .00 | | --- | .00 | | |
| 17 | .00 | | | .00 | | --- | .00 | | |
| 18 | .00 | | | .00 | | --- | .00 | | |
| 19 | .00 | | | .00 | | --- | .00 | | |
| 20 | .00 | | | .00 | | --- | .00 | | |
| 21 | .00 | | | .00 | | --- | .00 | | |
| 22 | .00 | | | .00 | | --- | .00 | | |
| 23 | .00 | | | .00 | | --- | .00 | | |
| 24 | .00 | | | .00 | | --- | .00 | | |
| 25 | .00 | | | .00 | | --- | .00 | | |
| 26 | .00 | | | .00 | | --- | .00 | | |
| 27 | .00 | | | .00 | | --- | .00 | | |
| 28 | .00 | | | .00 | | --- | .00 | | |
| 29 | .00 | | | --- | | | .00 | | |
| 30 | .00 | | | --- | | | .00 | | |
| 31 | .00 | | | --- | | | .00 | | |

Table 13.--*Suspended-sediment data for East Fork Parachute Creek near Rulison*--Continued

09092970 EAST FORK PARACHUTE CREEK NEAR RULISON, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

| DAY | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) |
|---|---|---|---|---|---|---|---|---|---|
| | | APRIL | | | MAY | | | JUNE | |
| 1 | .00 | --- | --- | 2.4 | 2 | .01 | 2.2 | 12 | .07 |
| 2 | .00 | --- | --- | 2.4 | 5 | .03 | 1.9 | 13 | .07 |
| 3 | .00 | --- | --- | 7.7 | 54 | 1.1 | 2.6 | 10 | .07 |
| 4 | .00 | --- | --- | 6.0 | 10 | .02 | 3.4 | 18 | .16 |
| 5 | .00 | --- | --- | 3.7 | 2 | .02 | 2.3 | 10 | .06 |
| 6 | .00 | --- | --- | 5.3 | 3 | .05 | 2.1 | 12 | .07 |
| 7 | .00 | --- | --- | 3.7 | 3 | .03 | 1.9 | 10 | .05 |
| 8 | .00 | --- | --- | 3.5 | 4 | .04 | 1.7 | 7 | .03 |
| 9 | .00 | --- | --- | 3.5 | 4 | .03 | 1.3 | 6 | .02 |
| 10 | 1.5 | --- | .03 | 3.1 | 3 | .02 | .88 | 14 | .03 |
| 11 | 2.7 | --- | 1.6 | 3.3 | 3 | .02 | .78 | 22 | .05 |
| 12 | 2.4 | --- | 1.5 | 2.9 | 3 | .02 | .74 | 17 | .03 |
| 13 | .67 | --- | .02 | 2.8 | 4 | .03 | .78 | 31 | .06 |
| 14 | 1.6 | --- | .06 | 2.4 | 4 | .02 | .97 | 28 | .07 |
| 15 | 5.1 | --- | .95 | 2.2 | 3 | .02 | 1.1 | 20 | .06 |
| 16 | 7.9 | --- | 1.1 | 2.6 | 3 | .02 | .97 | 14 | .04 |
| 17 | 9.6 | 65 | 1.7 | 3.0 | 4 | .03 | .77 | 20 | .04 |
| 18 | 9.6 | 48 | 1.2 | 2.8 | 3 | .02 | .74 | 17 | .03 |
| 19 | 10 | 32 | .86 | 2.3 | 2 | .01 | .63 | 8 | .01 |
| 20 | 8.2 | 23 | .51 | 2.3 | 3 | .02 | .58 | 10 | .02 |
| 21 | 6.3 | 18 | .31 | 3.0 | 4 | .03 | .49 | 10 | .01 |
| 22 | 5.1 | 13 | .18 | 3.0 | 4 | .03 | .49 | 11 | .01 |
| 23 | 4.9 | 11 | .15 | 3.1 | 8 | .06 | .39 | 13 | .01 |
| 24 | 4.7 | 22 | .28 | 2.6 | 6 | .04 | .31 | 13 | .01 |
| 25 | 4.7 | 15 | .19 | 2.3 | 7 | .04 | .23 | 13 | .01 |
| 26 | 4.2 | 8 | .08 | 2.0 | 7 | .04 | .18 | 14 | .01 |
| 27 | 4.0 | 5 | .05 | 2.3 | 8 | .05 | .36 | 21 | .02 |
| 28 | 3.3 | 5 | .04 | 2.1 | 10 | .05 | 1.7 | 397 | 1.5 |
| 29 | 2.8 | 4 | .03 | 2.3 | 29 | .18 | 2.3 | 241 | 1.5 |
| 30 | 2.8 | 6 | .05 | 2.2 | 13 | .08 | .96 | 32 | .08 |
| 31 | --- | --- | --- | 2.3 | 7 | .04 | --- | --- | --- |

| DAY | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) | MEAN DISCHARGE (CFS) | MEAN CONCEN-TRATION (MG/L) | SEDIMENT DISCHARGE (TONS/DAY) |
|---|---|---|---|---|---|---|---|---|---|
| | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | .73 | 18 | .04 | .00 | | --- | .00 | | --- |
| 2 | .87 | 16 | .04 | .00 | | --- | .00 | | --- |
| 3 | .73 | 12 | .02 | .00 | | --- | .00 | | --- |
| 4 | .58 | 45 | .07 | .00 | | --- | .00 | | --- |
| 5 | .42 | 33 | .04 | .00 | | --- | .00 | | --- |
| 6 | .38 | 24 | .02 | .00 | | --- | .00 | | --- |
| 7 | .26 | 12 | .01 | .00 | | --- | .00 | | --- |
| 8 | .23 | 16 | .01 | .00 | | --- | .00 | | --- |
| 9 | .28 | 9 | .01 | .00 | | --- | .16 | | .01 |
| 10 | .77 | 9 | .02 | .00 | | --- | .29 | | .03 |
| 11 | .44 | 8 | .01 | .00 | | --- | .23 | | .02 |
| 12 | .77 | 12 | .02 | .00 | | --- | .00 | | --- |
| 13 | .68 | 9 | .02 | .00 | | --- | .00 | | --- |
| 14 | .36 | 5 | .01 | .00 | | --- | .00 | | --- |
| 15 | .23 | 4 | .01 | .00 | | --- | .00 | | --- |
| 16 | .13 | 5 | .01 | .75 | | .04 | .00 | | --- |
| 17 | .26 | 9 | .01 | .70 | | .04 | .00 | | --- |
| 18 | .49 | 6 | .01 | .00 | | --- | .00 | | --- |
| 19 | .20 | 5 | .01 | .00 | | --- | .00 | | --- |
| 20 | .28 | 6 | .01 | .00 | | --- | .00 | | --- |
| 21 | .23 | 6 | .01 | .00 | | --- | .00 | | --- |
| 22 | .23 | 4 | .01 | .00 | | --- | .00 | | --- |
| 23 | .22 | 6 | .01 | .00 | | --- | .00 | | --- |
| 24 | .32 | 4 | .01 | .00 | | --- | .00 | | --- |
| 25 | .33 | 8 | .01 | .00 | | --- | .00 | | --- |
| 26 | .30 | 10 | .01 | .00 | | --- | .00 | | --- |
| 27 | .27 | 4 | .01 | .00 | | --- | .00 | | --- |
| 28 | .24 | 2 | .01 | .00 | | --- | .00 | | --- |
| 29 | .24 | 1 | .01 | .00 | | --- | .00 | | --- |
| 30 | .21 | 3 | .01 | .00 | | --- | .00 | | --- |
| 31 | .00 | --- | --- | .00 | | --- | --- | | |

Table 14.--*Mean air temperature at JQS weather station for water years 1980 and 1981*

STATION NUMBER 393529107545900, METEOROLOGICAL SOURCE AGENCY USGS

TEMPERATURE, AIR (DEG C), WATER YEAR 1980

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 16.3* | -10.6* | -16.5* | -3.0 | -4.1* | -3.4* | -6.0* | 3.8 | 8.1 | 13.9* | 18.5* | 11.5* |
| 2 | 17.4* | -7.0* | -8.0* | -6.4 | -2.4* | -1.0* | -7.0* | 4.3 | 10.0 | 11.2* | 18.2* | 15.0* |
| 3 | 11.1* | -2.3* | -3.2* | -7.0 | 0.9* | 0.5* | -4.4* | 6.2 | 14.2 | 15.3* | 18.8* | 16.4* |
| 4 | 13.3* | -1.3* | -0.4* | -3.8 | -2.1* | -1.8* | 0.6 | 5.9 | 13.5 | 11.2* | 16.9* | 16.0* |
| 5 | 14.9* | -3.2* | -3.2* | -2.1* | -3.8* | -0.9* | 3.1* | 7.2 | 14.0 | - | 18.3* | 16.7 |
| 6 | 15.8* | -2.3* | -2.0 | -6.6* | -1.0* | -2.6* | 1.0* | 6.5 | 12.7 | - | 20.2* | 15.7* |
| 7 | 16.3* | -0.4* | .3 | -6.3* | -6.8* | -3.0* | -5.0* | 4.8 | 12.4 | 15.8* | 20.6* | 13.2* |
| 8 | 16.7* | -3.2* | .1 | -2.9* | -14.4* | -4.1* | -3.1* | 5.1 | 15.5 | 15.3 | 20.8* | 10.3* |
| 9 | 8.1* | -2.3* | .5 | -1.4* | -12.1* | -3.5* | 1.6 | 3.9 | 16.1 | 18.0 | 19.8* | 9.4* |
| 10 | 13.7* | -5.1* | .5 | -3.7* | -7.6* | -2.2* | -.2 | 4.3 | 17.4 | 19.1 | 18.6* | 9.9* |
| 11 | 15.0* | -6.1* | -12.5 | -8.9* | -6.2* | -1.8* | -4.8 | 1.9 | 16.7 | 20.1 | 17.8* | 9.9* |
| 12 | 13.3* | -6.1* | -9.4 | -0.2* | -3.4* | -5.4* | -4.8 | -1.9 | 15.9 | 17.7 | 18.0* | 10.6* |
| 13 | 14.6* | -5.1* | -5.5 | 2.5* | -0.9* | -3.6* | -3.4 | 2.9 | 15.4 | 13.4 | 15.5* | 13.1 |
| 14 | 12.3* | -5.1* | -3.0 | 0.6* | 0.2* | 0.1* | 2.7 | 3.4 | 14.4 | 15.2 | 16.2* | 13.8 |
| 15 | 12.2* | -5.1* | -1.4 | -3.2* | 0.1* | 3.7* | 5.1 | 4.8 | 10.7 | 17.4 | 11.6 | 14.1 |
| 16 | 8.1* | -4.2* | -.4 | -4.1* | -1.5* | -8.8* | 2.4 | 4.8 | 12.1 | 18.9 | 11.5 | 15.3 |
| 17 | 9.7* | -0.4* | 1.5 | -2.8* | -0.3* | -7.9* | 6.2 | .6 | 15.8 | 20.7 | 15.0 | 12.5 |
| 18 | 11.3* | -1.3* | 3.5 | -3.0 | 0.3* | -0.5* | 8.2 | 5.3 | 17.8 | 20.6 | 16.4 | 19.1 |
| 19 | 13.2* | -7.0* | 1.2 | -11.3* | 0.4* | -1.0* | 9.7 | 9.1 | 16.5 | 19.8 | 12.9* | 15.6* |
| 20 | 1.2* | -7.0* | -.8 | -10.5* | -1.4* | -2.0* | 10.7 | 11.3 | 17.0 | 19.2 | 9.9* | 8.9* |
| 21 | -1.4* | -12.7* | -2.5 | -9.2* | -1.8* | 1.7* | 9.7 | 14.0 | 16.5 | 20.1 | 13.3* | 9.7* |
| 22 | 0.6* | -14.6* | -5.4 | -9.8* | -2.4* | -3.1* | 7.2 | 14.6 | 17.1 | 20.3 | 17.5* | 5.4* |
| 23 | 6.3* | -9.9* | -7.8 | -6.8* | -4.5* | -3.3* | 4.9 | 9.9 | 18.2 | 17.2 | 15.0* | 7.8* |
| 24 | 7.8* | -8.0* | -4.2 | -3.1* | -5.9* | -1.2* | 3.3 | 5.2 | 17.7 | 16.9 | 11.8* | 8.6* |
| 25 | 12.0* | -4.2* | -.9 | -4.6* | -4.2* | -6.0* | 4.1 | 1.3 | 19.5 | 17.1 | 11.3* | 9.1* |
| 26 | 10.8* | -5.1* | -3.2 | -13.4* | -0.8* | -6.4* | 3.7 | 5.7 | 19.9 | 17.7 | 12.5* | 11.8* |
| 27 | 4.7* | -15.6* | -7.1 | -7.2* | 2.1* | -4.6* | 6.5 | 10.3 | 17.4 | 19.0* | 14.0* | 13.1* |
| 28 | 5.7* | -19.4* | -7.1 | -10.3* | 2.6* | -5.0* | 8.7 | 10.5 | 15.3* | 21.1* | 16.3* | 13.6* |
| 29 | -1.8* | -20.3* | -9.9 | -3.6* | -3.1* | -4.2* | 6.9 | 6.9 | 19.7* | 23.0 | 15.1 | 12.1* |
| 30 | -4.4* | -20.3* | -5.2 | -10.6* | | -4.8* | 3.6 | 10.1 | 18.1* | 16.5* | 13.8* | 14.2* |
| 31 | -7.4* | | -2.6* | -9.8* | | -9.2* | | 9.7 | | 18.0* | 9.3* | |
| TOTAL | 287.4* | -215.4* | -114.7* | -172.5* | -83.1* | -95.3* | 71.2* | 192.3* | 465.9* | 509.7* | 485.4* | 372.3* |
| MEAN | 9.3* | -7.2* | -3.7* | -5.6* | -2.9* | -3.1* | 2.4* | 6.2* | 15.5* | 16.4* | 15.7* | 12.4* |
| MAX | 17.4* | -0.4* | 3.5 | 2.5* | 2.6* | 3.7* | 10.7 | 14.6 | 19.9 | 23.0 | 20.8* | 19.1 |
| MIN | -7.4* | -20.3* | -16.5* | -13.4* | -14.4* | -9.2* | -7.0* | -1.9 | 8.1* | 11.2* | 9.3* | 5.4* |

Table 14.--*Mean air temperature at JQS weather station for water years 1980 and 1981*--Continued

STATION NUMBER 393529107545900, METEOROLOGICAL SOURCE AGENCY USGS

TEMPERATURE, AIR (DEG C), WATER YEAR 1980

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 13.8* | 3.4* | -0.9* | 2.1 | -11.2 | -1.6 | 0.9* | 11.5* | - | 9.4* | 17.0 | 11.8 |
| 2 | 8.4* | 3.5* | 2.3* | .6 | -12.4 | -3.1 | 4.1* | 9.5* | - | 12.0* | 16.7 | 14.2 |
| 3 | 10.5* | 2.1* | 4.0* | -.4 | -7.4 | -4.4 | -5.4* | -0.1* | 6.9* | 12.5* | 19.2 | 12.5 |
| 4 | 12.3* | 3.5* | 2.9* | -.3 | -5.4 | -4.3 | -8.3* | 2.8* | 8.4* | 14.4* | 18.9 | 14.6 |
| 5 | 12.2* | 5.0* | -2.7* | -3.6 | -7.3 | -2.9 | -4.6* | 6.2* | 11.3* | 4.8* | 19.3 | 13.8 |
| 6 | 12.2* | 5.8* | -1.3 | -5.3 | -6.5 | -3.1 | 2.3* | 3.9* | 15.0* | 24.1 | 20.5 | 9.0 |
| 7 | 13.1* | 6.6* | -3.1 | -2.3 | -8.5 | -4.8 | -1.5* | 0.4* | 16.2* | 20.0 | 17.7 | 10.2 |
| 8 | 12.8* | 5.7* | -3.8 | -1.2 | -7.7 | -5.4 | -1.5* | -2.3* | 18.1* | 18.2 | 16.0 | 11.4 |
| 9 | 11.9* | 6.5* | -7.4 | -1.6 | -5.7 | -4.0 | 5.0* | 0.5* | 16.4* | 16.5 | 16.2 | 11.9 |
| 10 | 7.6* | 7.9* | -8.8 | -1.4 | -10.8 | -2.8 | 7.2* | 5.1* | 15.2* | 14.1 | 12.8 | 10.0 |
| 11 | 10.9* | 6.9* | -8.2 | -1.5 | -14.5 | -2.7 | 6.4* | 1.8* | 14.8* | 17.0 | 8.3 | 9.0 |
| 12 | 8.6* | 3.9* | -2.6 | -1.1 | -6.8 | -2.2 | 5.5* | 0.6* | 16.9* | 15.2 | 9.9 | 10.7 |
| 13 | 6.7* | -6.7* | .5 | -1.5 | -3.4 | -3.2 | 5.9* | 1.4* | 9.2* | 14.0 | 10.7 | 10.6 |
| 14 | 4.5* | 1.3* | .6 | -2.0 | -.5 | -2.0 | 4.9* | 9.1* | 0.4* | 14.2 | 11.6 | 10.8 |
| 15 | 0.3* | -0.5* | -1.9 | -3.8 | -.3 | -1.4 | 3.7* | 7.3* | 4.1* | 17.2 | 13.6 | 11.7 |
| 16 | -3.0* | -1.7* | -.5 | -4.6 | -.6 | -1.1 | 5.5* | 1.4* | 9.8* | 16.2 | 11.9 | 12.9 |
| 17 | -1.7* | -0.1* | 1.5 | -2.7 | .2 | -4.9 | 8.7* | 0.3* | 13.9* | 12.3 | 13.0 | 12.0 |
| 18 | 0.0* | 2.7* | 3.7 | -3.2 | -.7 | -6.5 | 8.1* | 5.3* | 11.6* | 12.6 | 15.3 | 13.3 |
| 19 | 2.2* | 4.3* | 1.6 | -4.4 | 1.1 | -3.4 | 4.8* | 3.9* | 15.2* | 15.1 | 15.4 | 13.8 |
| 20 | 3.2* | 4.8* | .5 | -3.2 | .4 | -.5 | 3.4* | 2.6* | 16.6* | 18.6 | 17.0 | 13.3 |
| 21 | 4.1* | 6.9* | -1.4 | -2.4 | -9.5 | -4.7 | 2.9* | 2.1* | 17.2* | 19.2 | 16.8 | 12.4 |
| 22 | 3.8* | 6.9* | -1.8 | .9 | -6.8 | -3.2 | 1.3* | 4.2* | 16.5* | 19.2 | 11.7 | 13.9 |
| 23 | -4.1* | 6.4* | -1.4 | 1.2 | -2.0 | -.1 | 4.7* | 5.4* | 18.0* | 17.6 | 13.8 | 13.4 |
| 24 | -0.5* | 3.4* | -2.0 | -1.2 | 1.3 | -1.2 | 9.6* | 6.5* | 17.8* | 14.0 | 13.6 | 12.4 |
| 25 | 3.9* | 1.9* | -4.4 | -6.5 | 2.2 | -2.2 | 10.9* | 7.5* | 18.1* | 12.8 | 13.9 | 11.3 |
| 26 | 2.2* | 2.9* | -.2 | -10.2 | -.7 | 3.8 | 11.2* | 8.7* | 18.5* | 13.3 | 16.9 | 7.9 |
| 27 | -4.4* | 4.1* | 1.5 | -7.3 | -4.2 | -1.4 | 8.7* | 8.2* | 14.2* | 11.1 | 15.7 | 9.9 |
| 28 | -5.8* | 8.3* | 3.2 | -3.3 | -3.2 | -4.9 | 5.5* | 6.9* | 11.3* | 14.8 | 14.5 | 13.3 |
| 29 | -1.4* | 10.1* | 2.8 | -4.8 | | -4.5 | 9.0* | 7.7* | - | 17.1 | 14.8 | 13.6 |
| 30 | 3.6* | 11.7* | .2 | -4.9 | | -2.7 | 9.9* | 10.0* | - | 17.7 | 12.7 | 11.5 |
| 31 | 5.2* | | .0 | -10.6 | | -8.6 | | 7.3* | | 18.8 | 11.3 | |
| TOTAL | 153.1* | 127.5* | -27.1* | -90.4 | -130.7 | -93.8 | 128.8* | 145.7* | 351.6* | 474.0* | 456.4 | 356.9 |
| MEAN | 4.9* | 4.3* | -0.9* | -2.9 | -4.7 | -3.0 | 4.3* | 4.7* | 13.5* | 15.3* | 14.7 | 11.9 |
| MAX | 13.8* | 11.7* | 4.0* | 1.2 | 2.2 | 3.8 | 11.2* | 11.5* | 18.5* | 19.2 | 20.5 | 14.6 |
| MIN | -5.8* | -6.7* | -8.8 | -10.6 | -14.5 | -8.6 | -8.3* | -2.3* | 0.4* | 4.8* | 8.3 | 7.9 |

* Values estimated

Table 15.--*Maximum air temperature at JQS weather station for water year 1981*

STATION NUMBER 393529107545900, METEOROLOGICAL SOURCE AGENCY USGS

TEMPERATURE, AIR (Deg C)

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | - | - | - | 7.7 | -7.7 | 3.8 | - | - | - | - | 24.9 | 18.9 |
| 2 | - | - | - | 4.2 | -1.5 | 3.2 | - | - | - | - | 24.6 | 19.7 |
| 3 | - | - | - | 4.9 | 3.2 | -1.2 | - | - | - | - | 25.6 | 21.2 |
| 4 | - | - | - | 4.6 | .5 | 2.2 | - | - | - | - | 25.2 | 20.7 |
| 5 | - | - | - | 1.9 | -.1 | 7.2 | - | - | - | - | 25.7 | 21.8 |
| 6 | - | - | 1.9 | 3.3 | -2.2 | 4.8 | - | - | - | 24.2 | 27.1 | 15.3 |
| 7 | - | - | -1.4 | 7.6 | -2.7 | 1.1 | - | - | - | 26.8 | 25.1 | 16.5 |
| 8 | - | - | -.5 | 7.2 | -2.6 | 2.4 | - | - | - | 25.2 | 23.8 | 18.9 |
| 9 | - | - | -3.4 | 6.5 | -2.9 | 5.5 | - | - | - | 24.7 | 23.5 | 20.1 |
| 10 | - | - | -.9 | 6.2 | -5.2 | 6.7 | - | - | - | 22.9 | 22.9 | 18.3 |
| 11 | - | - | .7 | 7.4 | -7.2 | 2.3 | - | - | - | 23.3 | 12.8 | 16.4 |
| 12 | - | - | 7.9 | 7.6 | 3.3 | 4.5 | - | - | - | 24.5 | 15.2 | 17.3 |
| 13 | - | - | 10.0 | 4.6 | 6.1 | 3.9 | - | - | - | 21.5 | 17.1 | 19.1 |
| 14 | - | - | 9.7 | 2.9 | 4.1 | 9.0 | - | - | - | 21.4 | 18.4 | 18.8 |
| 15 | - | - | 7.6 | .2 | 8.0 | 5.1 | - | - | - | 22.5 | 20.2 | 20.1 |
| 16 | - | - | 5.5 | 1.5 | 8.5 | 3.6 | - | - | - | 24.0 | 20.5 | 19.8 |
| 17 | - | - | 10.7 | 2.8 | 4.3 | 2.4 | - | - | - | 18.8 | 20.0 | 19.9 |
| 18 | - | - | 8.5 | 3.2 | 4.5 | 2.7 | - | - | - | 20.4 | 21.2 | 19.9 |
| 19 | - | - | 5.9 | 2.5 | 7.7 | 3.9 | - | - | - | 21.9 | 22.9 | 21.5 |
| 20 | - | - | 5.1 | 1.7 | 4.4 | 1.9 | - | - | - | 24.3 | 23.5 | 20.2 |
| 21 | - | - | 3.4 | 7.3 | -1.4 | -.7 | - | - | - | 24.5 | 23.6 | 20.0 |
| 22 | - | - | 2.8 | 12.1 | 2.5 | 5.2 | - | - | - | 25.4 | 17.1 | 20.1 |
| 23 | - | - | 2.3 | 7.5 | 6.9 | 9.3 | - | - | - | 24.7 | 21.5 | 20.2 |
| 24 | - | - | .8 | 2.6 | 7.6 | 4.2 | - | - | - | 26.0 | 18.8 | 20.3 |
| 25 | - | - | .9 | -1.5 | 6.7 | 6.7 | - | - | - | 22.4 | 21.8 | 18.2 |
| 26 | - | - | 5.2 | -5.0 | 4.1 | 8.7 | - | - | - | 21.4 | 23.6 | 14.9 |
| 27 | - | - | 8.9 | -2.9 | 7.1 | 6.9 | - | - | - | 20.2 | 24.6 | 18.9 |
| 28 | - | - | 12.0 | 1.2 | 3.0 | .1 | - | - | - | 21.3 | 21.1 | 19.7 |
| 29 | - | - | 6.2 | -1.4 | - | 2.1 | - | - | - | 24.1 | 21.7 | 20.1 |
| 30 | - | - | 6.7 | -2.7 | - | .6 | - | - | - | 24.4 | 20.5 | 17.9 |
| 31 | - | - | 6.0 | -5.5 | - | -2.2 | - | - | - | 24.1 | 20.3 | |
| TOTAL | - | - | 122.7 | 100.3 | 59.0 | 115.9 | - | - | - | 604.9 | 674.8 | 574.2 |
| MEAN | - | - | 4.7 | 3.2 | 2.1 | 3.7 | - | - | - | 23.3 | 21.8 | 19.1 |
| MAX | - | - | 12.0 | 12.1 | 8.5 | 9.3 | - | - | - | 26.8 | 27.1 | 21.8 |
| MIN | - | - | -3.4 | -5.5 | -7.7 | -2.2 | - | - | - | 18.8 | 12.8 | 14.9 |

Table 16.--*Minimum air temperature at JQS weather station for water year 1981*

STATION NUMBER 393529107545900, METEOROLOGICAL SOURCE AGENCY USGS

TEMPERATURE, AIR (Deg C)

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | - | - | - | -1.8 | -13.5 | -5.2 | - | - | - | - | 12.0 | 6.2 |
| 2 | - | - | - | -2.0 | -17.4 | -6.0 | - | - | - | - | 9.7 | 9.5 |
| 3 | - | - | - | -3.6 | -12.3 | -7.5 | - | - | - | - | 12.6 | 6.3 |
| 4 | - | - | - | -3.3 | -8.5 | -6.2 | - | - | - | - | 12.0 | 9.1 |
| 5 | - | - | - | -6.8 | -13.4 | -7.6 | - | - | - | - | 11.2 | 9.7 |
| 6 | - | - | -3.0 | -9.4 | -9.5 | -5.6 | - | - | - | - | 13.3 | 6.6 |
| 7 | - | - | -4.9 | -6.7 | -12.8 | -7.0 | - | - | - | 13.8 | 10.1 | 8.1 |
| 8 | - | - | -6.2 | -6.4 | -10.6 | -10.3 | - | - | - | 10.3 | 8.1 | 6.8 |
| 9 | - | - | -10.0 | -5.8 | -7.8 | -8.4 | - | - | - | 11.8 | 8.5 | 7.1 |
| 10 | - | - | -12.0 | -5.1 | -18.2 | -7.2 | - | - | - | 8.9 | 6.2 | 5.6 |
| 11 | - | - | -12.9 | -5.7 | -21.6 | -5.1 | - | - | - | 12.2 | 6.7 | 5.8 |
| 12 | - | - | -7.5 | -5.5 | -11.3 | -4.9 | - | - | - | 10.1 | 6.0 | 5.7 |
| 13 | - | - | -4.1 | -7.2 | -8.3 | -7.3 | - | - | - | 10.6 | 6.5 | 5.4 |
| 14 | - | - | -4.4 | -6.4 | -3.8 | -6.0 | - | - | - | 10.4 | 7.4 | 6.2 |
| 15 | - | - | -7.0 | -6.5 | -4.3 | -7.0 | - | - | - | 9.5 | 10.1 | 6.1 |
| 16 | - | - | -4.4 | -7.7 | -5.9 | -5.5 | - | - | - | 11.7 | 7.4 | 6.5 |
| 17 | - | - | -2.5 | -6.2 | -2.1 | -9.3 | - | - | - | 9.9 | 6.9 | 4.4 |
| 18 | - | - | .0 | -7.3 | -5.1 | -11.6 | - | - | - | 8.5 | 8.1 | 7.9 |
| 19 | - | - | -1.9 | -10.0 | -2.2 | -8.4 | - | - | - | 9.5 | 10.7 | 7.4 |
| 20 | - | - | -3.6 | -7.3 | -8.4 | -3.0 | - | - | - | 11.5 | 11.3 | 8.8 |
| 21 | - | - | -4.6 | -8.4 | -12.7 | -6.8 | - | - | - | 12.9 | 12.0 | 6.7 |
| 22 | - | - | -4.6 | -4.9 | -12.3 | -8.5 | - | - | - | 13.1 | 7.1 | 10.0 |
| 23 | - | - | -3.1 | -3.1 | -7.5 | -4.2 | - | - | - | 11.5 | 8.9 | 8.1 |
| 24 | - | - | -4.3 | -4.2 | -2.8 | -3.6 | - | - | - | 8.7 | 9.6 | 7.0 |
| 25 | - | - | -7.3 | -11.2 | -1.7 | -7.2 | - | - | - | 7.9 | 8.7 | 8.0 |
| 26 | - | - | -3.1 | -14.1 | -4.1 | .0 | - | - | - | 8.2 | 10.5 | .4 |
| 27 | - | - | -3.3 | -10.4 | -9.8 | -6.7 | - | - | - | 5.6 | 10.1 | 4.3 |
| 28 | - | - | -.8 | -4.8 | -7.7 | -6.8 | - | - | - | 8.6 | 9.5 | 8.5 |
| 29 | - | - | -1.3 | -6.0 | | -9.2 | - | - | - | 11.8 | 9.7 | 9.1 |
| 30 | - | - | -5.3 | -9.2 | | -8.9 | - | - | - | 12.3 | 7.8 | 6.4 |
| 31 | - | - | -3.6 | -13.5 | | -13.1 | - | - | - | 13.9 | 7.1 | |
| TOTAL | - | - | -125.5 | -210.4 | -225.4 | -213.8 | - | - | - | 263.2 | 285.6 | 207.8 |
| MEAN | - | - | -4.8 | -6.8 | -9.1 | -6.9 | - | - | - | 10.5 | 9.2 | 6.9 |
| MAX | - | - | .0 | -3.1 | -1.7 | .0 | - | - | - | 13.9 | 13.3 | 10.0 |
| MIN | - | - | -12.9 | -14.1 | -21.6 | -13.1 | - | - | - | 5.6 | 6.0 | .4 |

Table 17.--*Mean humidity at JQS weather station for water years 1980 and 1981*

STATION NUMBER 393529107545900, METEOROLOGICAL SOURCE AGENCY USGS

HUMIDITY, RELATIVE (PERCENT), WATER YEAR 1980

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 27.9* | 79.0 | 72.9* | 71.3 | 53.9* | 72.0* | 57.1* | 71.9* | 42.1 | 69.5* | 43.2* | 40.6* |
| 2 | 27.7* | 70.8* | 51.2* | 85.6* | 65.5* | 62.3* | 87.9* | 72.9* | 32.9 | 82.9* | 45.9* | 27.2* |
| 3 | 38.7* | 47.1 | 54.3* | 74.3 | 50.0* | 64.8* | 69.5* | 72.3 | 20.6 | 54.2* | 31.3* | 22.9* |
| 4 | 24.5* | 56.4* | 50.2* | 63.3 | 69.3* | 82.3* | 57.5* | 80.5 | 24.6 | 38.3* | 24.6* | 31.2* |
| 5 | 22.3* | 77.0* | 62.6* | - | 62.9* | 60.2* | 50.2* | 71.7 | 23.2 | - | 28.4* | 26.6* |
| 6 | 23.7* | 57.4* | 53.9 | - | 54.1* | 88.4* | 53.0* | 70.0 | 26.5 | - | 28.1* | 48.6* |
| 7 | 18.5* | 92.4* | 66.7 | - | 83.3* | 79.4* | 61.2* | 84.2 | 31.9 | 45.7* | 27.3* | 64.0* |
| 8 | 21.4* | 92.4* | 74.7 | - | 65.4* | 73.6* | 49.0* | 70.3* | 24.6 | 60.0 | 28.1* | 83.2* |
| 9 | 55.0* | - | 69.7 | - | 56.6* | 62.5* | 52.8 | 67.5* | 26.5 | 49.6 | 35.1* | 84.5* |
| 10 | 31.3* | 61.5* | 60.7 | - | 54.5* | 60.7* | 63.4 | 65.0* | 25.3 | 46.5 | 30.4* | 77.6* |
| 11 | 32.0* | 84.2* | 70.2 | - | 52.5* | 71.1* | 75.6 | 87.8* | 19.6 | 41.9 | 20.6* | 57.5* |
| 12 | 39.6* | 63.6* | 44.4 | - | 52.3* | 71.3* | 61.7 | 79.6* | 22.0 | 51.2 | 30.4* | 65.4* |
| 13 | 43.6* | 56.4* | 29.1 | - | 47.9* | 53.8* | 56.0 | 72.6* | 18.1 | 66.9 | 57.4* | 46.3 |
| 14 | 47.3* | 59.5* | 20.1 | - | 78.7* | 49.2* | 48.6 | 72.9* | 18.1 | 59.2 | 53.3* | 39.3 |
| 15 | 55.9* | 53.3* | 30.3 | - | 83.7* | 50.1* | 47.7 | 68.1 | 37.9 | 32.7 | 62.1 | 41.0 |
| 16 | 67.1* | - | 36.7 | - | 77.6* | 75.8* | 41.2 | 79.1* | 35.7 | 34.8 | 65.6 | 38.6 |
| 17 | 55.2* | 44.0* | 36.7 | - | 72.5* | 54.4* | 32.4 | 69.8 | 27.1 | 26.0 | 43.3 | 35.3 |
| 18 | 58.1* | 91.4* | 26.3 | 82.7 | 79.9* | 34.6* | 30.2 | 65.1 | 25.1 | 28.8 | 30.4 | 31.2* |
| 19 | 47.7* | 97.6* | 30.4 | - | 72.5* | 53.8* | 29.9 | 52.1 | 29.2 | 29.2 | 32.2* | 28.8* |
| 20 | 98.5* | 89.4* | 56.8 | - | 85.0* | 57.5* | 29.4 | 46.9 | 27.0 | 30.6 | 44.7* | 48.2* |
| 21 | 89.5* | 84.2* | 76.9 | 65,9* | 72.6* | 50.9* | 51.7 | 42.0 | 25.1 | 28.7 | 27.4* | 33.3* |
| 22 | 74.2* | 76.0* | 90.4 | 64.3* | 71.2* | - | 67.2 | 43.1 | 24.5 | 34.1 | 23.6* | 45.4* |
| 23 | 55.3* | - | 86.4 | 60.0* | 83.7* | - | 71.2* | 40.6 | 18.4 | 45.6 | 62.1* | 28.2* |
| 24 | 51.0* | 81.1* | 62.1 | 54.0* | 66.7* | - | 69.7* | 47.1 | 19.2 | 49.5 | - | 35.1* |
| 25 | 39.0* | 66.7* | 48.2 | 67.6* | 55.5* | - | 43.1 | 43.3 | 19.6 | 49.2 | - | 29.6* |
| 26 | 49.0* | 77.0* | 66.8 | 81.8* | 47.2* | - | 45.1 | 36.6 | 21.7 | 38.1 | - | 29.3* |
| 27 | 62.6* | 74.9* | 85.8 | 72.7* | 47.0* | - | 39.1 | 28.2 | 22.9 | 28.6* | - | 32.0* |
| 28 | 54.4* | 76.0* | 71.5 | 89.8* | 49.6* | 66.0* | 45.9 | 25.0 | 15.3* | 23.7* | - | 32.9* |
| 29 | 98.8* | 72.9* | 82.9 | 85.5* | 87.0* | 67.0* | 55.5* | 39.1 | 19.7* | 32.6 | - | 28.8* |
| 30 | 84.9* | 65.7* | 53.0 | 65.7* | | 68.3* | 78.6* | 27.0 | 18.1* | 59.7* | 21.9* | 25.5* |
| 31 | 81.5* | | 44.3* | 70.3* | | 70.3* | - | 25.0 | - | 46.8* | 48.8* | - |
| TOTAL | 1576.2 | 1947.9* | 1766.0* | 1154.8* | 1898.6* | 1600.3* | 1621.4* | 1817.5* | 742.8* | 1284.5* | 946.2* | 1151.3* |
| MEAN | 50.8 | 72.1* | 60.0* | 72.2* | 65.5* | 64.0* | 54.0* | 58.6* | 24.8* | 41.4* | 45.1* | 38.4* |
| MAX | 98.8 | 97.6* | 90.4* | 89.8* | 87.0* | 88.4* | 87.9* | 87.8* | 42.1 | 82.9* | 62.1* | 84.5* |
| MIN | 18.5 | 44.0* | 20.1* | 54.0* | 47.0* | 34.6* | 29.4* | 25.0* | 15.3* | 23.7* | 20.6* | 22.9* |

* values estimated

Table 17.--*Mean humidity at JQS weather station for water years 1980 and 1981*--Continued

STATION NUMBER 393529107545900, METEOROLOGICAL SOURCE AGENCY USGS

HUMIDITY, RELATIVE (PERCENT), WATER YEAR 1981

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 27.2* | 37.5* | 41.5* | 49.6 | 92.7 | 68.2 | 38.4* | 35.6* | 49.0* | 59.5* | 44.9 | 67.0* |
| 2 | 37.3* | 35.6* | 30.1* | 50.6 | 85.2 | 89.3 | 35.5* | 52.4* | 49.0* | 63.0* | 44.1 | 48.7 |
| 3 | 31.2 | 51.8* | 28.5* | 69.3 | 52.5 | 91.4 | 65.4* | 70.0* | 64.3* | 65.0* | 21.1 | 65.8 |
| 4 | 27.5* | 59.5* | 30.1* | 70.6 | 29.6 | 88.1 | 61.4* | 47.1* | 52.2* | 39.8* | 21.0 | 45.3 |
| 5 | 28.5* | 57.7* | 81.0* | 91.5 | 51.1 | 81.7 | 48.5* | 46.7* | 46.9* | 37.7* | 15.7 | 58.2 |
| 6 | 33.0* | 46.9* | 77.0 | 85.6 | 54.6 | 91.9 | 37.3* | 49.9* | 41.2* | 17.3 | 14.6 | 92.4 |
| 7 | 29.7* | 41.1* | 93.6 | 57.6 | 59.6 | 95.4 | 61.6* | 42.0* | 40.1* | 33.7 | 20.6 | 91.4 |
| 8 | 30.5* | 37.9* | 94.1 | 48.6 | 55.1 | 89.7 | 51.6* | 56.9* | 33.9* | 41.3 | 24.1 | 81.9 |
| 9 | 28.5* | 36.7* | 95.2 | 45.5 | 72.0 | 83.0 | 40.7* | 53.5* | 39.5* | 52.3 | 28.7 | 69.0 |
| 10 | 39.6* | 20.9* | 88.1 | 45.1 | 85.3 | 73.6 | 36.0* | 42.4* | 46.2* | 81.1 | 61.1 | 83.0 |
| 11 | 32.2* | 27.6* | 65.6 | 46.0 | 46.8 | 58.0 | 35.4* | 47.6* | 43.9* | 68.4 | 93.5 | 88.7 |
| 12 | 55.1* | 63.9* | 35.1 | 32.4 | 84.2 | 86.3 | 35.5* | 49.7* | 33.8* | 81.4 | 92.5 | 72.6 |
| 13 | 63.4* | 93.9* | 28.9 | 25.3 | 60.6 | 82.8 | 36.9* | 33.0* | 43.1* | 86.4 | 88.1 | 75.4 |
| 14 | 75.8* | 81.2* | 25.5 | 31.6 | 38.0 | 70.3 | 44.6* | - | 51.6* | 86.4 | 81.3 | 62.2 |
| 15 | 68.4* | 79.5* | 45.5 | 60.0 | 58.8 | 73.7 | 57.5* | 43.8* | 45.9* | 42.3 | 71.1 | 55.4 |
| 16 | 87.0* | 78.0* | 54.8 | 80.4 | 52.2 | 68.6 | 51.6* | 64.2* | 38.1* | 45.3 | 76.4 | 40.0 |
| 17 | 80.1* | 67.1* | 78.4 | 89.7 | 61.5 | 88.6 | 41.4* | 68.1* | 34.0* | 84.0 | 66.8 | 32.1 |
| 18 | 73.9* | 55.9* | 59.7 | 85.9 | 70.1 | 83.9 | 40.0* | 55.0* | 38.4* | 89.8 | 36.2 | 20.2 |
| 19 | 65.3* | 54.8* | 65.1 | 76.2 | 58.1 | 54.0 | 51.1* | 41.6* | 38.8* | 63.7 | 41.8 | 22.7 |
| 20 | 63.2* | 61.1* | 69.5 | 66.9 | 62.9 | 69.8 | 46.8* | 59.2* | 41.9* | 19.5 | 35.3 | 22.3 |
| 21 | 50.8* | 55.7* | 80.2 | 41.2 | 84.2 | 94.6 | 41.0* | 54.9* | 38.7* | 16.6 | 27.7 | 54.8 |
| 22 | 40.6* | 58.5* | 83.1 | 33.3 | 68.1 | 84.4 | 59.6* | 55.2* | 41.2* | 21.8 | 74.6 | 31.2 |
| 23 | 54.5* | 67.3* | 88.9 | 29.7 | 56.2 | 62.9 | 37.3* | 55.0* | 37.8* | 32.5 | 65.5 | 35.5 |
| 24 | 45.5* | 86.9* | 90.9 | 36.7 | 40.3 | 80.4 | 34.4* | 52.2* | - | 69.2 | 55.0 | 50.8 |
| 25 | 25.3* | 65.9* | 85.2 | 73.9 | 23.0 | 73.6 | 37.8* | 55.8* | - | 77.5 | 58.5 | 54.2 |
| 26 | 48.6* | 68.9* | 57.0 | 71.1 | 59.8 | 32.7 | 33.7* | 51.7* | 44.4* | 76.8 | 36.2 | 49.6 |
| 27 | 87.2* | 66.2* | 69.3 | 57.7 | 83.8 | 75.7 | 36.8* | 52.0* | 50.3* | 78.7 | 43.2 | 21.7 |
| 28 | 73.9* | 48.2* | 68.7 | 61.0 | 71.3 | 89.3 | 48.5* | 62.9* | 59.8* | 36.5 | 48.2 | 18.6 |
| 29 | 61.0* | 50.2* | 58.8 | 94.4 | | 91.7 | 41.6* | 58.1* | 48.0* | 25.9 | 48.5 | 23.6 |
| 30 | 48.5* | 28.2* | 58.0 | 75.4 | | 87.4 | 40.9* | 51.9* | 42.5* | 23.5 | 72.4 | 31.2 |
| 31 | 43.4* | | 42.4 | 94.6 | | 87.2 | | 58.9* | | 27.3 | 81.7 | - |
| TOTAL | 1556.7* | 1684.6* | 1969.5* | 1877.2 | 1717.5 | 2448.1 | 1328.8* | 1566.9* | 1234.5* | 1644.1* | 1590.3 | 1565.4 |
| MEAN | 50.2* | 56.2* | 63.5* | 60.6 | 61.3 | 79.0 | 44.3* | 52.2* | 44.1* | 53.0* | 51.3 | 52.2 |
| MAX | 87.2* | 93.9* | 95.2 | 94.6 | 85.3 | 95.4 | 65.4* | 70.0* | 64.3* | 89.8 | 93.5 | 92.4 |
| MIN | 25.3* | 28.2* | 25.5 | 25.3 | 23.0 | 32.7 | 33.7* | 33.0* | 33.8* | 16.6 | 14.6 | 18.6 |

* values estimated

Table 18.--*Maximum humidity at JQS weather station for water years 1981*

STATION NUMBER 393529107545900, METEOROLOGICAL SOURCE AGENCY USGS

HUMIDITY, RELATIVE (PERCENT)

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | - | - | - | 58.5 | 98.5 | 89.1 | - | - | - | - | 67.9 | 89.6 |
| 2 | - | - | - | 55.9 | 97.8 | 100.0 | - | - | - | - | 64.1 | 55.5 |
| 3 | - | - | - | 95.1 | 73.6 | 100.0 | - | - | - | - | 48.7 | 97.9 |
| 4 | - | - | - | 84.4 | 39.4 | 100.0 | - | - | - | - | 48.2 | 97.7 |
| 5 | - | - | - | 100.0 | 81.3 | 100.0 | - | - | - | - | 20.0 | 91.1 |
| 6 | - | - | 99.2 | 100.0 | 61.6 | 100.0 | - | - | - | - | 18.5 | 97.7 |
| 7 | - | - | 99.1 | 84.6 | 78.1 | 100.0 | - | - | - | 63.8 | 42.1 | 96.3 |
| 8 | - | - | 99.4 | 68.0 | 60.9 | 100.0 | - | - | - | 71.5 | 46.6 | 95.1 |
| 9 | - | - | 100.0 | 60.8 | 100.0 | 100.0 | - | - | - | 74.5 | 52.9 | 91.5 |
| 10 | - | - | 97.3 | 59.1 | 100.0 | 94.9 | - | - | - | 97.1 | 96.3 | 96.6 |
| 11 | - | - | 98.2 | 57.8 | 67.2 | 61.8 | - | - | - | 87.4 | 97.1 | 96.7 |
| 12 | - | - | 47.7 | 51.7 | 99.4 | 100.0 | - | - | - | 96.0 | 97.6 | 92.3 |
| 13 | - | - | 51.6 | 31.3 | 85.3 | 100.0 | - | - | - | 96.0 | 96.8 | 93.9 |
| 14 | - | - | 45.2 | 52.6 | 49.7 | 91.0 | - | - | - | 95.6 | 94.4 | 83.5 |
| 15 | - | - | 65.6 | 93.1 | 96.4 | 98.6 | - | - | - | 62.0 | 89.6 | 81.6 |
| 16 | - | - | 62.5 | 96.3 | 64.6 | 88.1 | - | - | - | 89.2 | 96.0 | 68.1 |
| 17 | - | - | 93.6 | 100.0 | 92.4 | 100.0 | - | - | - | 96.2 | 94.0 | 52.3 |
| 18 | - | - | 71.3 | 99.6 | 94.7 | 100.0 | - | - | - | 96.6 | 69.3 | 29.2 |
| 19 | - | - | 80.9 | 99.2 | 68.0 | 74.2 | - | - | - | 92.3 | 71.0 | 45.3 |
| 20 | - | - | 90.4 | 85.7 | 97.1 | 100.0 | - | - | - | 37.0 | 69.1 | 27.9 |
| 21 | - | - | 94.4 | 53.1 | 98.6 | 100.0 | - | - | - | 27.9 | 52.3 | 94.8 |
| 22 | - | - | 93.5 | 57.4 | 86.9 | 100.0 | - | - | - | 47.4 | 96.0 | 44.7 |
| 23 | - | - | 100.0 | 35.5 | 72.7 | 80.3 | - | - | - | 48.1 | 92.7 | 50.8 |
| 24 | - | - | 99.8 | 55.3 | 56.1 | 100.0 | - | - | - | 95.7 | 90.6 | 87.8 |
| 25 | - | - | 100.0 | 99.0 | 24.9 | 100.0 | - | - | - | 97.9 | 73.9 | 69.6 |
| 26 | - | - | 67.4 | 86.8 | 100.0 | 42.5 | - | - | - | 95.8 | 65.7 | 78.0 |
| 27 | - | - | 92.2 | 61.7 | 100.0 | 100.0 | - | - | - | 96.5 | 64.3 | 28.0 |
| 28 | - | - | 83.4 | 82.0 | 94.4 | 100.0 | - | - | - | 64.1 | 61.8 | 22.3 |
| 29 | - | - | 69.3 | 100.0 | | 100.0 | - | - | - | 58.1 | 79.9 | 38.6 |
| 30 | - | - | 76.8 | 99.2 | | 100.0 | - | - | - | 44.4 | 96.4 | 48.1 |
| 31 | - | - | 60.6 | 99.1 | | 100.0 | - | - | - | 56.1 | 97.8 | |
| TOTAL | - | - | 2139.4 | 2364.5 | 2239.5 | 2920.6 | - | - | - | 1887.2 | 2251.4 | 2142.3 |
| MEAN | - | - | 82.3 | 76.3 | 80.0 | 94.2 | - | - | - | 75.4 | 72.6 | 71.4 |
| MAX | - | - | 100.0 | 100.0 | 100.0 | 100.0 | - | - | - | 97.9 | 97.8 | 97.9 |
| MIN | - | - | 45.2 | 31.3 | 24.9 | 42.5 | - | - | - | 27.9 | 18.5 | 22.3 |

Table 19.--*Minimum humidity at JQS weather station for water year 1981*

STATION NUMBER 393529107545900, METEOROLOGICAL SOURCE AGENCY USGS

HUMIDITY, RELATIVE (PERCENT)

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | - | - | - | 29.2 | 71.4 | 51.1 | - | - | - | - | 16.3 | 45.9 |
| 2 | - | - | - | 36.5 | 46.4 | 57.5 | - | - | - | - | 19.0 | 38.3 |
| 3 | - | - | - | 51.2 | 21.0 | 61.2 | - | - | - | - | 12.9 | 23.1 |
| 4 | - | - | - | 54.1 | 23.9 | 58.3 | - | - | - | - | 15.0 | 22.9 |
| 5 | - | - | - | 57.4 | 28.2 | 45.4 | - | - | - | - | 12.9 | 19.3 |
| 6 | - | - | 39.0 | 41.8 | 33.9 | 55.8 | - | - | - | 17.3 | 12.0 | 67.2 |
| 7 | - | - | 78.9 | 26.0 | 45.6 | 67.0 | - | - | - | 13.3 | 12.8 | 60.0 |
| 8 | - | - | 80.4 | 20.3 | 43.0 | 59.9 | - | - | - | 15.6 | 14.4 | 48.2 |
| 9 | - | - | 79.0 | 24.2 | 45.5 | 38.9 | - | - | - | 19.8 | 14.8 | 28.3 |
| 10 | - | - | 57.9 | 25.9 | 54.2 | 28.6 | - | - | - | 37.9 | 17.1 | 42.0 |
| 11 | - | - | 35.8 | 20.3 | 26.6 | 50.5 | - | - | - | 42.9 | 77.4 | 51.7 |
| 12 | - | - | 20.3 | 19.1 | 52.9 | 53.5 | - | - | - | 33.5 | 69.8 | 47.3 |
| 13 | - | - | 18.1 | 21.0 | 28.8 | 36.4 | - | - | - | 52.7 | 54.3 | 37.3 |
| 14 | - | - | 18.4 | 26.1 | 24.8 | 29.8 | - | - | - | 35.3 | 49.6 | 30.0 |
| 15 | - | - | 23.6 | 28.2 | 29.6 | 43.6 | - | - | - | 23.4 | 39.2 | 23.9 |
| 16 | - | - | 57.1 | 59.8 | 36.0 | 53.4 | - | - | - | 15.3 | 40.4 | 18.9 |
| 17 | - | - | 48.4 | 62.6 | 46.6 | 56.2 | - | - | - | 47.5 | 29.2 | 15.8 |
| 18 | - | - | 44.4 | 56.5 | 41.6 | 42.6 | - | - | - | 52.5 | 16.9 | 15.0 |
| 19 | - | - | 49.4 | 39.9 | 45.7 | 26.7 | - | - | - | 33.7 | 21.6 | 14.6 |
| 20 | - | - | 55.7 | 43.7 | 48.7 | 37.4 | - | - | - | 14.5 | 14.1 | 15.4 |
| 21 | - | - | 62.0 | 20.7 | 52.0 | 74.5 | - | - | - | 13.5 | 15.2 | 17.3 |
| 22 | - | - | 64.3 | 18.3 | 46.4 | 48.1 | - | - | - | 12.8 | 43.6 | 17.4 |
| 23 | - | - | 72.8 | 20.7 | 27.9 | 33.3 | - | - | - | 16.5 | 31.3 | 18.8 |
| 24 | - | - | 63.3 | 26.4 | 21.9 | 50.5 | - | - | - | 14.9 | 31.3 | 17.5 |
| 25 | - | - | 57.4 | 44.1 | 20.2 | 22.3 | - | - | - | 33.2 | 30.3 | 26.1 |
| 26 | - | - | 43.5 | 52.6 | 25.1 | 27.5 | - | - | - | 44.3 | 17.0 | 20.0 |
| 27 | - | - | 51.1 | 52.6 | 40.0 | 29.0 | - | - | - | 37.9 | 14.9 | 15.9 |
| 28 | - | - | 46.5 | 53.1 | 48.6 | 55.9 | - | - | - | 19.4 | 25.1 | 15.4 |
| 29 | - | - | 52.3 | 72.8 | - | 64.6 | - | - | - | 15.7 | 16.2 | 15.3 |
| 30 | - | - | 22.1 | 53.3 | - | 67.2 | - | - | - | 14.8 | 40.0 | 20.3 |
| 31 | - | - | 24.5 | 68.3 | - | 66.8 | - | - | - | 17.5 | 30.0 | |
| TOTAL | - | - | 1266.0 | 1226.5 | 1076.4 | 1493.1 | - | - | - | 695.5 | 854.5 | 849.0 |
| MEAN | - | - | 48.7 | 39.6 | 38.4 | 48.2 | - | - | - | 26.8 | 27.6 | 28.3 |
| MAX | - | - | 80.4 | 72.8 | 54.2 | 74.5 | - | - | - | 52.7 | 77.4 | 67.2 |
| MIN | - | - | 18.1 | 18.3 | 20.2 | 22.3 | - | - | - | 12.8 | 12.0 | 14.6 |

Table 20.--*Solar radiation at JQS weather station for water years 1980 and 1981*

STATION NUMBER 393529107545900, METEOROLOGICAL SOURCE AGENCY USGS

SOLAR RADIATION, INCIDENTAL, INTENSITY, IN CALORIES, WATER YEAR 1980

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 295.1* | 197.5* | 144.2* | 48.3* | 180.9* | 259.6* | 359.2* | 198.9* | 426.6 | 260.1* | 269.3* | 361.7* |
| 2 | 249.4* | 231.5* | 91.7* | 25.0* | 98.0* | 83.1* | 137.5* | 275.5* | 522.6 | 193.5* | 357.4* | 361.0* |
| 3 | 283.1* | 133.6* | 119.4* | 51.2* | 113.0* | 100.5* | 326.9* | 187.5* | 540.6 | 419.0* | 327.9* | 313.5* |
| 4 | 278.4* | 122.2* | 104.4* | 62.3* | 112.6* | 126.8* | 337.7* | - | 556.2 | 151.9* | 438.2* | 322.1* |
| 5 | 282.7* | 176.3* | 140.0* | 120.8* | 193.2* | 187.9* | 272.1* | 203.6* | 562.8 | - | 406.4* | 281.2* |
| 6 | 275.5* | 174.7* | 64.2 | 100.5* | 66.1* | - | 193.7* | 200.7* | 550.2 | - | 421.5* | 215.6* |
| 7 | 148.5* | 42.7* | 26.4 | 70.0* | 47.6* | 204.5* | 253.3* | 128.2* | 535.8 | 67.6* | 417.1* | 148.5* |
| 8 | 268.2* | 59.7* | 94.5* | 85.6* | 59.0* | 215.2* | 385.0* | 429.0 | 474.6 | 510.0 | 410.3* | 120.0* |
| 9 | 262.1* | 85.3* | 106.8 | 19.6* | 122.5* | 233.7* | 509.4 | 190.2 | 537.6* | 504.0 | 333.1* | 66.7* |
| 10 | 261.0* | 154.1* | 57.6 | 68.2* | 209.9* | 298.3* | 349.8 | 164.4 | 538.8 | 412.2 | 414.6* | 103.2* |
| 11 | 242.4* | 80.3* | 101.6* | 50.1* | 193.5* | 167.6* | 232.8 | 163.5* | 493.2 | 484.2 | 419.0* | 264.9* |
| 12 | 226.2* | 198.9* | 37.8 | - | 194.6* | 206.3* | 528.6 | 100.8 | 640.8 | 147.0* | 316.1* | 130.9* |
| 13 | 241.8* | 176.2* | 44.4 | 134.6* | 168.7* | 309.3* | 517.8 | 548.4 | 488.5 | 185.4 | 196.5* | 480.0 |
| 14 | 103.3* | 174.7* | 54.6 | - | 66.8* | 78.9* | 472.8 | 222.6* | 486.9 | 508.8 | 302.6* | 387.6 |
| 15 | 241.7* | 174.7* | 54.6 | 77.5* | 79.6* | 405.6* | 406.2 | 484.2 | 564.6 | 543.6 | 322.8 | 299.8* |
| 16 | 247.4* | 174.0* | 45.6 | 30.2* | 107.3* | 249.4* | 475.2 | 217.2 | 559.2 | 531.6 | 549.0 | 319.1* |
| 17 | 176.6* | 130.7* | 58.2 | 82.8* | 116.9* | 344.6* | 470.4 | 192.0 | 413.4 | 452.0* | 398.4 | 435.0 |
| 18 | 202.1* | 59.0* | 52.2 | 73.2* | 161.6* | 326.1* | 477.6 | 438.0 | 546.0 | 444.5* | 406.9* | 423.0* |
| 19 | 172.4* | - | 52.2 | 40.2* | 147.2* | 311.9* | 467.4 | 313.2 | 428.4 | 388.1* | 326.7* | 186.1* |
| 20 | - | - | 28.8 | 94.1* | 32.7* | 339.2* | 448.2 | 364.2 | 526.2 | 363.4 | 400.1* | 312.4* |
| 21 | - | 49.1* | 28.2 | 138.2* | 131.0* | 321.8* | 314.4 | 517.8 | 531.6 | 436.2 | 395.5* | 243.4* |
| 22 | 157.0* | 49.1* | 24.9* | 144.9* | 90.2* | - | 332.4 | 420.0 | 551.4 | 412.0* | 383.8* | 310.3* |
| 23 | 206.8* | 56.2* | 26.3* | 165.5* | 41.2* | 161.2* | 336.6 | 525.0 | 527.4 | 197.4 | 257.2* | 302.6* |
| 24 | 173.4* | 52.6* | 69.7* | 153.8* | 138.9* | 319.7* | 132.0 | 276.6 | 452.1 | 252.0 | 199.0* | 301.0* |
| 25 | 220.2* | 122.9* | 28.2 | 136.4* | 250.3* | - | 496.2 | 570.6 | 480.5 | 363.6 | 190.6* | 297.6* |
| 26 | 202.2* | 25.6* | 62.6* | 122.9* | 240.4* | 90.8* | 487.8 | 396.6 | 549.0 | 412.8 | 333.8* | 293.6* |
| 27 | 220.8* | 83.9* | 41.2* | 98.4* | 253.5* | 319.8* | 421.2 | 521.4 | 554.4 | 443.2* | 345.7* | 187.6* |
| 28 | 156.9* | 127.9* | 16.0* | - | 234.0* | 167.8* | 481.8 | 563.4 | 472.2* | 338.9* | 381.1* | 155.9* |
| 29 | 27.3* | 142.8* | 133.0* | 22.8* | 62.9* | 232.4* | 236.5* | 382.8 | 440.8* | 255.7* | 251.2* | 286.9* |
| 30 | 133.8* | 32.0* | 98.8* | 196.0* | | 167.8* | 137.4 | 564.0 | 308.2* | 271.4* | 221.1* | 278.7* |
| 31 | 173.2* | - | 145.3* | 224.8* | | 235.2* | - | 548.4 | | 383.7* | 187.2* | |
| TOTAL | 6129.5 | 3290.2* | 2153.4* | 2637.9* | 3914.1* | 6465.0* | 10997.9* | 10308.7* | 15260.6* | 10338.8* | 10580.1* | 8189.9* |
| MEAN | 211.4* | 117.5* | 369.5* | 94.2* | 135.0* | 222.9* | 366.6* | 332.5 | 508.7* | 356.5* | 341.3* | 273.0* |
| MAX | 295.1* | 231.5* | 145.3* | 224.8* | 253.5* | 405.6* | 528.6* | 570.6 | 562.8* | 543.6* | 549.0* | 480.0* |
| MIN | 27.3* | 25.6* | 16.0* | 19.6* | 32.7* | 78.9* | 132.0* | 100.8* | 308.2* | 67.6* | 187.2* | 66.7* |

* values estimated

Table 20.--*Solar radiation at JQS weather station for water years 1980 and 1981*--Continued

STATION NUMBER 393529107545900, METEOROLOGICAL SOURCE AGENCY USGS

SOLAR RADIATION, INCIDENTAL, INTENSITY, IN CALORIES, WATER YEAR 1980

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 275.8* | 190.3* | 187.0* | 653.2 | 29.2* | 683.2 | 277.1* | 221.3* | - | 167.6* | 269.6 | 341.2 |
| 2 | 275.4* | 131.5* | 166.3* | 718.7 | 107.1* | 161.6 | 283.5* | 174.4* | - | 347.4* | 575.9 | 586.6 |
| 3 | 245.5* | 93.0* | 155.1* | 715.5 | 177.0* | 115.2* | 146.3* | - | - | 315.0* | 440.6 | 448.3 |
| 4 | 271.6* | 156.6* | 123.3* | 661.0 | 177.4* | 187.7* | 233.2* | 257.4* | - | 457.3* | 626.6 | 191.6 |
| 5 | 262.1* | 174.8* | 64.7* | 285.3 | 199.7* | 241.8* | 322.5* | 211.1* | - | 447.1* | 250.8 | 414.9 |
| 6 | 257.4* | 124.0* | 113.7* | 574.5 | 101.6* | - | 361.9* | 215.0* | - | - | 155.6 | 205.7 |
| 7 | 258.2* | 154.1* | 9.5 | 672.8 | 125.3 | 30.9* | 127.6* | 235.5* | - | 74.5 | 159.8 | 324.3 |
| 8 | 248.2* | 141.2* | 23.6* | 637.3 | 515.1 | 265.0 | 253.7* | 110.5* | 156.6* | 174.4 | 221.6 | 277.9 |
| 9 | 250.3* | 172.0* | 42.9* | 710.3 | 93.1* | 551.0 | 362.7* | 196.4* | 384.5* | 156.5 | 395.7 | 498.9 |
| 10 | 247.8* | 146.8* | 158.2 | 708.2 | 233.0 | 443.1 | 367.9* | 167.2* | 436.0* | 146.7 | 205.2 | 290.1 |
| 11 | 231.0* | 117.4* | 74.9 | 716.1 | 91.4* | 699.8 | 371.3* | 127.4* | 456.9* | 350.0 | 385.1 | 370.6 |
| 12 | 85.9* | 93.6* | 111.0* | 724.4 | 583.6 | 119.9* | 291.6* | 164.6* | 473.5* | 111.9 | 390.7 | 426.3 |
| 13 | 220.4* | 19.6* | 65.2 | 447.9 | 529.1 | 185.5* | 218.8* | 248.0* | 433.0* | 295.6 | 228.8 | 331.0 |
| 14 | 111.2* | 104.7* | 643.5 | 182.7 | 733.2 | 283.5* | 229.0* | 246.2* | 283.1* | 237.3 | 328.2 | 401.9 |
| 15 | 139.6* | 215.8* | 677.9 | 727.2 | 481.7 | 272.4* | 228.0* | 196.9* | 467.5* | 121.5 | 488.0 | 294.3 |
| 16 | 93.6* | 141.9* | 683.5 | 632.7 | 735.2 | 23.9 | 240.9* | 141.8* | 476.9* | 554.3 | 132.7 | 427.9 |
| 17 | 110.3* | 291.4* | 555.1 | 636.0 | 734.1 | 251.1 | 302.2* | 92.2* | 165.5* | 212.0 | 294.8 | 581.8 |
| 18 | 94.6* | 305.6* | 302.9 | 670.0 | 734.9 | 590.9 | 206.0* | 188.6* | 369.6* | 129.7 | 649.6 | 652.9 |
| 19 | 234.9* | 259.6* | 178.8 | 636.7 | 735.0 | 362.6 | 317.2* | - | 445.8* | 243.5 | 685.7 | 291.3 |
| 20 | 233.2* | 192.4* | 111.0* | 597.2 | 698.0 | 467.4 | 357.2* | 103.2* | 382.8* | 446.3 | 677.0 | 80.3 |
| 21 | 221.5* | 258.4* | 95.3* | 154.6* | 129.9 | 62.8* | 248.1* | 119.8* | 449.2* | 559.7 | 685.4 | 540.2 |
| 22 | 193.2* | 98.1* | 90.0* | 157.1* | 87.9 | 156.6* | 338.5* | 84.0* | 468.0* | 163.6 | 558.9 | 219.6 |
| 23 | 219.0* | 254.2* | 33.9 | 151.6* | 533.1 | 206.4* | 396.8* | 158.3* | 289.9* | 646.3 | 259.3 | 201.6 |
| 24 | 217.4* | 13.1* | 13.9 | 142.4 | 727.2 | 137.4* | 341.0* | 136.4* | 451.3* | 232.4 | 485.1 | 572.5 |
| 25 | 216.3* | 132.1* | 130.5 | 114.3 | 559.5 | 45.4 | 373.4* | 108.8* | 390.0* | 324.0 | 470.0 | 428.5 |
| 26 | 67.8* | 221.1* | 238.1 | 117.6* | 385.0 | 169.4 | 401.5* | 158.1* | 445.8* | 439.2 | 614.2 | 481.2 |
| 27 | 30.1* | 101.2* | 212.8 | 61.7* | 145.9 | 20.1 | 358.1* | - | 341.9* | 339.6 | 379.7 | 583.6 |
| 28 | 136.7* | 165.1* | 206.3 | 100.4* | 99.5 | 33.8 | 407.0* | - | 258.4* | 645.5 | 126.7 | 475.6 |
| 29 | 215.9* | 190.4* | 326.3 | 121.5* | | 311.2* | 401.9* | - | - | 150.1 | 652.2 | 509.4 |
| 30 | 194.8* | 123.2* | 643.6 | 23.1* | | 49.2* | 376.8* | - | - | 692.3 | 396.7 | 480.0 |
| 31 | 164.7* | | 601.1 | 208.6 | | 69.0 | | - | | 684.2 | 167.9 | |
| TOTAL | 6024.4* | 4783.2* | 7039.9* | 13117.6* | 10478.7* | 7197.8* | 9191.7* | 4063.1* | 8026.2* | 9865.6* | 12358.1 | 11930.0 |
| MEAN | 194.3* | 159.4* | 227.1* | 423.1* | 374.2* | 239.9* | 306.4* | 169.3* | 382.2* | 318.2 | 398.6* | 397.7 |
| MAX | 275.8* | 305.6* | 683.5 | 727.2 | 735.2 | 699.8 | 407.0* | 257.4* | 477.0* | 692.3 | 685.7 | 652.9 |
| MIN | 30.1* | 13.1* | 9.5* | 23.1* | 79.2* | 20.1* | 127.6* | 84.0* | 156.6* | 74.5* | 126.7 | 80.3 |

* values estimated

Table 21.--*Mean wind velocity at JQS weather station for water years 1980 and 1981*

STATION NUMBER 393529107545900, METEOROLOGICAL SOURCE AGENCY USGS

WIND VELOCITY (MPH), WATER YEAR 1980

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | - | - | - | .8 | 0.8* | 0.8* | 1.0* | 2.2 | 2.1 | 1.3* | 1.0* | 1.4* |
| 2 | - | - | - | 1.4 | 0.8* | 2.3* | 1.5* | .8 | 3.6 | 1.1* | 1.2* | 2.5* |
| 3 | - | - | - | 1.9* | 1.6* | 2.7* | 0.8* | 1.0 | 4.3 | 1.8* | 2.5* | 2.5* |
| 4 | - | - | - | 1.3* | 0.9* | 1.2* | 1.2* | 1.3 | 4.2 | 0.6* | 1.8* | 0.7* |
| 5 | - | - | - | 3.0* | 0.7* | 4.0* | 2.3* | .9 | 3.7 | - | 2.0* | 0.8* |
| 6 | - | - | 1.2 | 3.6* | 1.2* | 1.8* | 2.6* | 1.2 | 4.4 | - | 2.9* | 1.0* |
| 7 | - | - | .4 | 2.0* | 2.3* | 1.6* | 2.4* | .8 | 1.9 | 3.1* | 1.9* | 1.3* |
| 8 | - | - | .8 | 5.1* | 1.2* | 1.2* | 1.0* | 2.7 | 1.5 | 2.0 | 2.2* | 1.1* |
| 9 | - | - | .6 | 3.6* | 0.5* | 2.1* | 2.8 | 3.2 | 1.4 | .8 | 1.9* | 0.5* |
| 10 | - | - | 3.7 | 5.4* | 0.6* | 1.5* | 3.3 | 3.9 | 2.2 | 1.1 | 1.3* | 1.3* |
| 11 | - | - | 1.1 | 2.0* | 0.5* | 1.8* | 4.5 | 4.0 | 2.7 | 1.0 | 0.8* | 3.1* |
| 12 | - | - | 1.1 | 5.0* | 2.5* | 2.7* | 2.6 | 3.4 | 3.2 | 2.1 | 2.1* | 1.0* |
| 13 | - | - | .6 | 4.4* | 2.2* | 2.4* | 1.0 | 1.1 | 2.7 | 1.4 | 1.4* | 2.2 |
| 14 | - | - | .9 | 1.9* | 3.3* | 1.6* | 1.1 | 0.9* | 3.6 | 2.4 | 1.4* | 2.2 |
| 15 | - | - | 1.4 | 0.5* | 1.7* | 3.9* | 1.7 | 1.4 | 1.5 | 1.9 | 2.0 | 2.6 |
| 16 | - | - | .5 | 0.4* | 0.8* | 1.8* | 1.6 | 1.2 | 1.1 | 1.1 | 1.6 | 2.4 |
| 17 | - | - | .4 | 1.6* | 2.7* | 1.7* | .9 | .5 | 1.0 | 2.2 | 1.9 | 1.9 |
| 18 | - | - | .0 | .8 | 2.8* | 2.4* | 1.6 | 1.0 | 1.7 | 2.3 | 3.1 | 2.6* |
| 19 | - | - | 1.0 | 1.7* | 2.8* | 1.6* | 1.3 | 1.6 | 1.2 | 3.1 | 3.0* | 4.4* |
| 20 | - | - | 2.2 | 0.7* | 1.3* | 1.2* | 2.4 | .7 | 1.9 | .7 | 1.0* | 1.4* |
| 21 | - | - | .9 | 1.0* | 2.2* | 2.7* | 1.5 | 1.7 | 2.0 | 1.4 | 1.0* | 2.8* |
| 22 | - | - | 2.1 | 0.6* | 1.6* | 1.4* | 1.9 | 2.0 | 1.9 | 1.6 | 2.2* | 1.0* |
| 23 | - | - | .4 | 0.8* | 1.4* | 1.2* | 2.0 | 4.7 | 3.3 | 1.1 | 3.3* | 1.1* |
| 24 | - | - | 1.1 | 0.9* | 0.5* | 1.7* | 2.6 | 4.7 | 2.6 | .9 | 1.6* | 1.2* |
| 25 | - | - | 2.9 | 2.7* | 0.8* | 1.3* | 1.7 | 4.2 | 2.4 | 1.7 | 1.4* | 0.6* |
| 26 | - | - | .9 | 1.1* | 1.2* | 0.7* | 1.2 | 1.9 | 3.0 | .9 | 1.0* | 1.2* |
| 27 | - | - | 1.0 | 3.8* | 1.6* | 0.8* | .8 | 2.9 | 2.5 | 0.9* | 2.3* | 1.0* |
| 28 | - | - | 1.2 | 0.5* | 1.9* | 2.2* | .8 | 3.4 | 1.1* | 0.9* | 3.6* | 0.8* |
| 29 | - | - | .9 | 3.4* | 1.4* | 1.2* | 1.5 | 2.9 | 1.9* | 2.2 | 3.0* | 0.7* |
| 30 | - | - | .5 | 0.6* | | 2.8* | .9 | 2.5 | 1.4* | 1.1* | 3.2* | 0.7* |
| 31 | - | - | - | 0.6* | | 0.5* | | 3.4 | | 0.6* | 1.2* | |
| TOTAL | - | - | 27.5 | 63.1* | 43.8* | 56.8* | 52.5* | 68.1* | 72.1* | 43.1* | 60.7* | 47.9* |
| MEAN | - | - | .9 | 2.0* | 1.5* | 1.8* | 1.8* | 2.2 | 2.4* | 1.5* | 2.0* | 1.6* |
| MAX | - | - | 3.7 | 5.4* | 3.3* | 4.0* | 4.5 | 4.7 | 4.4 | 3.1* | 3.6* | 4.4* |
| MIN | - | - | - | 0.5* | 0.5* | 0.5* | 0.8* | 0.5* | 1.0* | 0.6* | 0.8* | 0.6* |

*values estimated

Table 21.--*Mean wind velocity at JQS weather station for water years 1980 and 1981*--Continued

STATION NUMBER 393529107545900, METEOROLOGICAL SOURCE AGENCY USGS

WIND VELOCITY (MPH), WATER YEAR 1980

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.3* | - | - | 5.3 | 5.8 | 4.3 | 10.7* | 1.4* | - | 4.5* | 5.4 | 6.5 |
| 2 | 1.2* | - | - | 5.6 | 3.6 | 4.4 | 11.9* | 4.8* | - | 4.8* | 3.9 | 6.5 |
| 3 | 0.7* | - | - | 3.4 | 4.0 | 4.6 | 6.6* | 4.4* | 2.4* | 4.2* | 4.7 | 6.9 |
| 4 | 0.6* | - | - | 4.5 | 3.8 | 6.9 | 5.0* | 2.9* | 3.3* | 4.1* | 5.6 | 5.4 |
| 5 | 1.1* | - | - | 5.9 | 3.8 | 3.6 | 5.3* | 7.2* | 3.8* | 4.1* | 5.3 | 6.5 |
| 6 | 0.8* | - | 10.7 | 4.6 | 7.8 | 4.5 | 9.2* | 8.8* | 6.5* | 10.0 | 5.6 | 4.5 |
| 7 | 0.8* | - | 8.3 | 3.6 | 5.1 | 3.9 | 4.7* | 5.9* | 9.1* | 5.2 | 6.0 | 4.5 |
| 8 | 0.6* | - | 5.6 | 3.7 | 9.4 | 3.7 | 6.7* | 5.4* | 11.2* | 5.8 | 5.8 | 5.4 |
| 9 | 0.9* | - | 3.2 | 3.2 | 9.4 | 5.0 | 11.1* | 4.1* | 7.6* | 4.6 | 5.3 | 3.4 |
| 10 | 1.1* | - | 3.4 | 3.1 | 12.4 | 4.3 | 9.7* | 6.1* | 7.5* | 5.6 | 5.4 | 4.3 |
| 11 | 1.7* | - | 3.4 | 3.8 | 8.2 | 7.5 | 9.7* | 8.3* | 7.0* | 4.3 | 5.3 | 4.1 |
| 12 | 3.0* | - | 3.3 | 4.8 | 4.5 | 4.8 | 9.1* | 5.7* | 12.0* | 4.4 | 3.7 | 4.7 |
| 13 | 2.0* | - | 3.2 | 3.9 | 3.6 | 4.3 | 3.4* | 3.3* | 9.7* | 5.3 | 4.5 | 4.6 |
| 14 | 2.7* | - | 4.1 | 5.6 | 6.9 | 4.6 | 4.4* | 8.7* | 5.2* | 3.9 | 4.8 | 6.0 |
| 15 | 3.2* | - | 3.1 | 4.3 | 4.4 | 4.0 | 8.2* | 10.7* | 4.0* | 3.9 | 3.5 | 5.1 |
| 16 | 1.2* | - | 4.8 | 3.7 | 3.3 | 6.4 | 6.8* | 5.5* | 8.8* | 4.1 | 4.3 | 4.0 |
| 17 | 1.3* | - | 2.8 | 2.5 | 4.9 | 8.9 | 6.0* | 5.2* | 9.7* | 4.4 | 4.6 | 5.2 |
| 18 | 0.6* | - | 4.7 | 3.4 | 4.8 | 3.3 | 5.1* | 3.3* | 4.4* | 3.5 | 4.5 | 4.5 |
| 19 | 0.8* | - | 6.7 | 3.8 | 5.4 | 5.6 | 9.0* | 1.7* | 6.8* | 6.1 | 3.9 | 4.8 |
| 20 | 0.5* | - | 2.9 | 5.7 | 11.3 | 9.8 | 8.9* | 11.7* | 6.7* | 5.3 | 4.0 | 5.3 |
| 21 | 1.1* | - | 3.6 | 5.1 | 8.3 | 7.5 | 7.7* | 11.2* | 7.5* | 6.5 | 5.3 | 6.0 |
| 22 | 2.2* | - | 4.6 | 4.6 | 3.5 | 3.8 | 3.8* | 5.5* | 3.4* | 6.4 | 4.1 | 6.7 |
| 23 | 1.0* | - | 8.5 | 4.3 | 4.0 | 3.8 | 3.6* | 3.8* | 6.1* | 4.8 | 4.6 | 5.8 |
| 24 | 0.9* | - | 5.7 | 8.1 | 7.3 | 5.5 | 3.9* | 3.1* | 4.4* | 5.9 | 3.4 | 5.6 |
| 25 | 1.3* | - | 5.0 | 5.0 | 7.8 | 5.2 | 7.8* | 4.0* | 4.0* | 6.7 | 4.4 | 8.6 |
| 26 | 2.1* | - | 7.7 | 4.7 | 9.4 | 9.1 | 10.3* | 7.2* | 8.0* | 7.1 | 4.6 | 8.1 |
| 27 | 2.3* | - | 3.7 | 5.8 | 7.7 | 11.0 | 6.7* | 5.4* | 7.5* | 6.4 | 4.7 | 5.0 |
| 28 | 0.7* | - | 4.7 | 9.2 | 4.5 | 5.3 | 4.5* | 2.0* | 5.0* | 5.3 | 3.9 | 7.5 |
| 29 | 0.3* | - | 4.5 | 8.3 | - | 7.0 | 3.6* | 2.7* | - | 4.2 | 6.4 | 7.9 |
| 30 | 1.0* | - | 4.4 | 9.6 | | 10.4 | 4.2* | 3.1* | - | 4.5 | 6.5 | 6.7 |
| 31 | 1.0* | - | 4.1 | 5.5 | | 6.9 | | 5.3* | | 5.3 | 6.7 | |
| TOTAL | 4.0* | - | 126.6 | 154.9 | 175.0 | 179.8 | 207.1* | 165.7* | 171.6 | 161.2* | 150.7 | 170.3 |
| MEAN | 1.3* | - | 4.9 | 5.0 | 6.2 | 5.8 | 6.9* | 5.3* | 6.6* | 5.2* | 4.9 | 5.7 |
| MAX | 3.2* | - | 8.5 | 9.6 | 12.4 | 11.0 | 11.9* | 11.7* | 12.0* | 7.1 | 6.7 | 8.6 |
| MIN | 0.3* | - | 2.8 | 2.5 | 3.3 | 3.3 | 3.4* | 1.4* | 2.4* | 3.5 | 3.4 | 3.4 |

* values estimated

Table 22.--*Wind direction at JQS weather station for water years 1980 and 1981*

STATION NUMBER 393529107545900, METEOROLOGICAL SOURCE AGENCY USGS

WIND DIRECTION (DEGREES), WATER YEAR 1980

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | - | - | - | 228.8 | - | - | - | 105.3 | 212.9 | - | - | 223.7 |
| 2 | - | - | - | 73.4 | - | - | - | 99.5 | 204.0 | - | - | - |
| 3 | - | - | - | 237.1 | - | - | - | 149.9 | 217.9 | - | - | - |
| 4 | - | - | - | 255.2 | - | - | - | 104.1 | 233.9 | - | - | - |
| 5 | - | - | - | - | - | - | - | 168.4 | 238.8 | - | - | - |
| 6 | - | - | 179.1 | - | - | - | - | 205.6 | 247.5 | - | - | - |
| 7 | - | - | 110.5 | - | - | - | - | 168.2 | 160.7 | 211.8 | - | - |
| 8 | - | - | 171.8 | - | - | - | 179.2 | 238.1 | 137.5 | 207.8 | - | - |
| 9 | - | - | 178.3 | - | - | - | 212.4 | 233.3 | 107.4 | 124.9 | - | - |
| 10 | - | - | 246.6 | - | - | - | 260.9 | 218.4 | 147.7 | 176.7 | - | - |
| 11 | - | - | 173.2 | - | - | - | 28.1 | 233.5 | 215.5 | 159.6 | - | - |
| 12 | - | - | 143.3 | - | - | - | 19.6 | 220.8 | 243.7 | 168.7 | - | 203.7 |
| 13 | - | - | 40.5 | - | - | - | 157.6 | 165.1 | 206.8 | 166.8 | - | 198.9 |
| 14 | - | - | 197.1 | - | - | - | 185.4 | - | 222.9 | 181.3 | 232.2 | 230.6 |
| 15 | - | - | 220.4 | - | - | - | 229.8 | 102.2 | 220.0 | 253.3 | 189.8 | 228.3 |
| 16 | - | - | 125.1 | - | - | - | 88.7 | 181.2 | 153.8 | 139.3 | 176.9 | 289.9 |
| 17 | - | - | 90.4 | - | - | - | 96.0 | 129.8 | 150.7 | 191.0 | 160.8 | 234.8 |
| 18 | - | - | 43.6 | 109.7 | - | - | 160.2 | 111.4 | 178.0 | 179.6 | 222.7 | 233.4 |
| 19 | - | - | 151.7 | - | - | - | 154.1 | 196.4 | 182.2 | 239.1 | - | - |
| 20 | - | - | 238.4 | - | - | - | 143.3 | 41.0 | 164.1 | 198.7 | - | - |
| 21 | - | - | 143.3 | - | - | - | 185.1 | 133.9 | 227.2 | 142.1 | 227.2 | - |
| 22 | - | - | 235.0 | - | - | - | 116.9 | 128.3 | 180.5 | 181.7 | - | - |
| 23 | - | - | 224.2 | - | - | - | 156.5 | 219.3 | 215.5 | 144.7 | 223.1 | - |
| 24 | - | - | 205.8 | - | - | - | 85.0 | 212.3 | 236.2 | 135.2 | - | - |
| 25 | - | - | 230.0 | - | - | - | 89.0 | 237.0 | 180.2 | 147.3 | - | - |
| 26 | - | - | 43.4 | - | - | - | 72.6 | 172.7 | 188.3 | 201.4 | - | - |
| 27 | - | - | 109.2 | - | - | - | 139.3 | 195.1 | 274.6 | 179.4 | 219.6 | - |
| 28 | - | - | 154.7 | - | - | - | 133.5 | 224.1 | - | 151.7 | 238.9 | - |
| 29 | - | - | 231.0 | - | - | - | 138.0 | 240.4 | - | 207.2 | 242.6 | - |
| 30 | - | - | 149.8 | - | - | - | 82.6 | 191.3 | - | - | - | - |
| 31 | - | - | - | - | - | - | 105.3 | 234.5 | - | - | - | - |

Table 22.--*Wind direction at JQS weather station for water years 1980 and 1981*--Continued

STATION NUMBER 393529107545900, METEOROLOGICAL SOURCE AGENCY USGS

WIND DIRECTION (DEGREES), WATER YEAR 1980

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | - | - | - | 148.3 | 264.1 | 223.4 | - | - | - | - | 193.9 | 212.7 |
| 2 | - | - | - | 217.7 | 226.5 | 143.5 | - | - | - | - | 172.7 | 210.0 |
| 3 | - | - | - | 178.4 | 201.5 | 235.5 | - | - | - | - | 220.6 | 177.0 |
| 4 | - | - | - | 217.2 | 193.1 | 259.0 | - | - | - | - | 226.0 | 214.6 |
| 5 | - | - | - | 250.4 | 183.7 | 213.6 | - | - | - | - | 198.6 | 202.1 |
| 6 | - | - | 62.6 | 156.2 | 226.4 | 185.1 | - | - | - | 223.9 | 230.7 | 187.7 |
| 7 | - | - | 63.2 | 189.1 | 235.8 | 228.0 | - | - | - | 212.6 | 177.0 | 106.4 |
| 8 | - | - | 63.6 | 184.8 | 221.0 | 222.1 | - | - | - | 161.0 | 149.2 | 148.9 |
| 9 | - | - | 61.3 | 150.2 | 215.7 | 183.8 | - | - | - | 174.4 | 192.6 | 207.5 |
| 10 | - | - | 63.3 | 169.1 | 246.8 | 183.3 | - | - | - | 176.1 | 195.8 | 156.0 |
| 11 | - | - | 62.5 | 188.9 | 220.4 | 98.2 | - | - | - | 219.6 | 115.6 | 172.3 |
| 12 | - | - | 86.1 | 178.5 | 191.2 | 191.1 | - | - | - | 159.6 | 109.6 | 151.6 |
| 13 | - | - | 88.2 | 124.5 | 219.5 | 188.4 | - | - | - | 185.6 | 194.5 | 162.5 |
| 14 | - | - | 87.4 | 187.9 | 215.7 | 205.3 | - | - | - | 182.7 | 223.6 | 156.4 |
| 15 | - | - | 79.7 | 225.6 | 230.8 | 219.3 | - | - | - | 199.4 | 202.3 | 135.1 |
| 16 | - | - | 76.8 | 176.0 | 214.0 | 229.3 | - | - | - | 205.2 | 165.9 | 185.4 |
| 17 | - | - | 85.6 | 216.6 | 228.7 | 252.8 | - | - | - | 152.4 | 165.7 | 216.0 |
| 18 | - | - | 86.7 | 183.9 | 238.7 | 230.3 | - | - | - | 192.2 | 193.3 | 176.2 |
| 19 | - | - | 101.4 | 232.5 | 226.8 | 211.6 | - | - | - | 195.3 | 208.8 | 214.9 |
| 20 | - | - | 234.8 | 252.0 | 225.3 | 186.4 | - | - | - | 240.2 | 225.1 | 219.6 |
| 21 | - | - | 219.1 | 193.8 | 219.2 | 243.6 | - | - | - | 225.3 | 235.4 | 197.7 |
| 22 | - | - | 231.5 | 176.3 | 198.9 | 200.7 | - | - | - | 227.0 | 225.3 | 219.5 |
| 23 | - | - | 213.6 | 155.9 | 215.7 | 229.9 | - | - | - | 220.2 | 223.9 | 215.5 |
| 24 | - | - | 249.9 | 207.7 | 211.4 | 237.5 | - | - | - | 182.0 | 199.0 | 196.7 |
| 25 | - | - | 225.9 | 232.2 | 187.2 | 192.8 | - | - | - | 152.3 | 178.0 | 201.6 |
| 26 | - | - | 215.4 | 231.9 | 182.4 | 179.7 | - | - | - | 141.1 | 231.0 | 233.7 |
| 27 | - | - | 227.9 | 212.0 | 161.1 | 179.5 | - | - | - | 181.5 | 173.7 | 192.0 |
| 28 | - | - | 205.9 | 201.5 | 212.6 | 242.8 | - | - | - | 242.6 | 220.5 | 211.0 |
| 29 | - | - | 205.8 | 196.9 | - | 230.9 | - | - | - | 215.8 | 219.3 | 204.2 |
| 30 | - | - | 192.0 | 176.1 | - | 221.6 | - | - | - | 220.7 | 158.4 | 224.5 |
| 31 | - | - | 219.5 | 233.7 | - | 232.3 | - | - | - | 225.3 | 191.9 | |

Table 23.--*Precipitation data at East Middle Fork Parachute Creek precipitation gage for water years 1980 and 1981*

PRECIPITATION DATA
(in inches)

Station: East Middle Fork Parachute Year: 1980

Latitude and Longitude: 39°37'15" 108°01'46"

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | Chart missing no data | Chart missing no data | | 0.23 | 0.13 | | 0.16 | | |
| 2 | | | | | | | 0.13 | | | 0.23 | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | ↓ | | | | | | |
| 5 | | | ↓ | | | ----- | | | | | | |
| 6 | | | ----- | | | 0.16 | | | | | | 0.08 |
| 7 | | Clock stopped total for period=1.75" | Chart missing no data | | | 0.07 | | | | 0.22 | | |
| 8 | | | | | | 0.01 | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | 0.17 |
| 11 | | | | | | 0.22 | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | 0.24 | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | 0.15 | | | | | | |
| 16 | | | | | | 0.03 | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | 0.08 |
| 19 | | | | | | | | | | | | |
| 20 | 0.63 | | | | | | | | | | | 0.35 |
| 21 | 0.14 | | | | | 0.14 | | | | | | |
| 22 | | | | | | 0.23 | | | | | | |
| 23 | | | | | | 0.03 | | 0.04 | | | | |
| 24 | | | | | | 0.32 | | 0.06 | | | | |
| 25 | | | | | | 0.39 | | | | | | |
| 26 | | | | | | | | | | 0.57 | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | 0.02 | | | | | | 0.28 |
| 29 | 0.38 | | | | | 0.02 | 0.40 | | | | | |
| 30 | --- | | | | | 0.32 | 0.12 | | | 0.04 | | |
| 31 | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | |
| Sum | | | | | | | 0.88 | 0.23 | 0.00 | 1.46 | 0.00 | 0.96 |

Table 23.--*Precipitation data at East Middle Fork Parachute Creek precipitation gage for water years 1980 and 1981*--Continued

PRECIPITATION DATA
(in inches)

Station: East Middle Fork Parachute Year: 1981

Latitude and Longitude: 39°37'15" 108°01'46"

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 0.05 | | | | | 0.03 | | |
| 2 | | | | | | | | | 0.15 | 0.24 | | 0.12 |
| 3 | | | | | | | | Clock stopped total for period=1.42" | 0.06 | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | 0.03 | 0.30 | | | | | | | | 0.07 |
| 6 | | | 0.02 | | | | | | | | | 0.20 |
| 7 | | | 0.21 | | | | | | | | | 0.15 |
| 8 | | | | | | | | | | | | |
| 9 | | | 0.02 | | | | | | | 0.30 | | 0.08 |
| 10 | | | | | | | | | | | 0.13 | 0.16 |
| 11 | | | | | | | | | | 0.06 | 0.02 | |
| 12 | 0.29 | 0.30 | | | | Clock stopped total for period=2.52" | | | | 0.08 | 0.02 | |
| 13 | 0.07 | 0.39 | | | | | | | | | | |
| 14 | 0.50 | 0.02 | | | | | | | | | | |
| 15 | 0.07 | | | | Clock stopped total for period =1.0" | | | 0.12 | | | 0.03 | |
| 16 | 0.44 | | | | | | | 0.10 | | | 0.05 | |
| 17 | 0.35 | | | | | | | 0.17 | | 0.41 | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | 0.26 | | | | |
| 21 | | | | | | | | 0.16 | | | | 0.04 |
| 22 | | 0.03 | 0.06 | | | | | 0.45 | | | 0.02 | |
| 23 | | | 0.14 | | | | | | | 0.17 | 0.03 | |
| 24 | | 0.17 | | | | | | | | 0.34 | 0.08 | |
| 25 | | 0.11 | | | | | | | | 0.07 | 0.02 | |
| 26 | 0.03 | | | | 0.37 | | | | 0.34 | 0.12 | | |
| 27 | 0.08 | | | | | | | | 0.31 | | 0.06 | |
| 28 | | | | 0.20 | | | | | 1.65 | | | |
| 29 | | | | | | | | 0.11 | | | 0.18 | |
| 30 | | | | 0.13 | | | | | | | 0.06 | |
| 31 | | | | 0.34 | | | | | | | | |
| Sum | 1.83 | 1.02 | 0.48 | 0.97 | | | | | 2.51 | 1.82 | 0.70 | 0.82 |

Table 24.--Precipitation data at JQS precipitation gage for water years 1980 and 1981

PRECIPITATION DATA
(in inches)

Station: JQS Year: 1980

Latitude and Longitude: 39°35'34" 107°54'59"

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | 0.21 | | 0.04 | | 0.24 | | |
| 2 | | | | | | 0.07 | | 0.20 | | 0.33 | | |
| 3 | | | | | | 0.64 | | 0.05 | | | | |
| 4 | | 0.05 | | | | 0.31 | | 0.20 | | | | |
| 5 | | | | 0.05 | | 0.06 | | 0.12 | | | 0.07 | |
| 6 | | | 0.19 | | | 0.03 | | 0.15 | | | | |
| 7 | | | | 0.05 | | | | 0.24 | | 0.19 | | |
| 8 | | 0.05 | | 0.04 | 0.13 | | | | | | | |
| 9 | | 0.05 | | 0.25 | | | | 0.27 | | | | 0.03 |
| 10 | | 0.05 | 0.04 | 0.21 | | | | 0.49 | | | | 0.26 |
| 11 | | | | 0.07 | | | 0.09 | 0.75 | | | | |
| 12 | | | 0.07 | 0.15 | | | | 0.46 | | 0.07 | 0.10 | |
| 13 | | | 0.06 | 0.05 | | | | | | 0.15 | 0.03 | |
| 14 | | | | 0.08 | 0.17 | | | 0.29 | | | 0.12 | |
| 15 | | | | 0.07 | 0.08 | | | 0.06 | | | 0.58 | |
| 16 | | | | | 0.04 | | | 0.27 | | | | |
| 17 | | | | | | | | 0.76 | | | | |
| 18 | | 0.17 | | 0.03 | 0.30 | | | | | | | |
| 19 | | 0.15 | | 0.05 | 0.07 | | | | | | | 0.09 |
| 20 | 0.55 | 0.10 | | | 0.34 | | | | | | | |
| 21 | 0.08 | 0.03 | | | 0.58 | | | | | | | |
| 22 | 0.04 | 0.10 | | | 0.05 | Clock stopped No data | | | | | 0.29 | |
| 23 | | 0.04 | 0.05 | | 0.04 | | | | | | | |
| 24 | | 0.03 | | | 0.02 | | | 0.07 | | | | |
| 25 | | 0.07 | | | | | | | | 0.38 | | |
| 26 | | 0.11 | | 0.05 | | | | | | | | |
| 27 | | 0.04 | | | | | | | | | 0.19 | |
| 28 | | | 0.15 | 0.51 | 0.52 | | | | | | | |
| 29 | | | | 0.62 | 0.39 | | 0.24 | | | | | |
| 30 | | | | | | | 0.40 | | 0.03 | | | |
| 31 | | | | | | | | | | | | |
| Sum | 0.67 | 1.04 | 0.56 | 2.28 | 2.73 | | | 4.42 | 0.03 | 1.36 | 1.38 | 0.38 |

Table 24.--Precipitation data at JQS precipitation gage for water years 1980 and 1981--Continued

PRECIPITATION DATA
(in inches)

Station: JQS Year: 1981

Latitude and Longitude: 39°35'34" 107°54'59"

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | 0.03 | 0.15 | | |
| 2 | | | | | | | | 0.45 | 0.12 | 0.13 | | |
| 3 | | | | | | | 0.65 | 0.90 | 0.79 | 0.03 | | |
| 4 | | | | | | | 0.15 | 0.05 | | | | |
| 5 | | | 0.07 | 0.26 | | | | | | | | 0.04 |
| 6 | | | 0.28 | | | | | 0.47 | | | | 0.16 |
| 7 | | | 0.13 | | | 0.17 | | | | | | 0.03 |
| 8 | | | 0.02 | | | 0.06 | | 0.10 | | | | |
| 9 | | | | | | | | 0.10 | | 0.64 | | 0.20 |
| 10 | | | | | | | | | | | | 0.06 |
| 11 | | | | | | | | 0.25 | | 0.13 | | |
| 12 | 0.31 | 0.34 | | | | | | | 0.03 | 0.20 | | |
| 13 | 0.09 | 0.17 | | | | | | | | 0.04 | | |
| 14 | 0.40 | 0.03 | | | | | | | | | | |
| 15 | | 0.05 | | | | | 0.06 | | | | | |
| 16 | | | | | | | | 0.20 | | | | |
| 17 | 0.18 | | | | | 0.25 | | 0.26 | | 0.40 | | |
| 18 | 0.21 | | | | | 0.14 | | | | | | |
| 19 | 0.63 | | | | | | 0.13 | | | | | |
| 20 | | | | | | | | 0.02 | | | | |
| 21 | | | 0.03 | | | 0.15 | | 0.18 | | | | |
| 22 | | | 0.13 | | | 0.22 | | 0.28 | | | | |
| 23 | | 0.12 | 0.20 | | | | | 0.02 | | 0.30 | | |
| 24 | | 0.19 | | | | 0.25 | | | | 0.19 | | |
| 25 | | | | | | 0.03 | | 0.07 | | 0.07 | | |
| 26 | 0.04 | | | | | 0.11 | | 0.02 | 0.25 | 0.12 | | |
| 27 | 0.06 | | | | | 0.10 | | 0.05 | 0.87 | | | |
| 28 | | | | | | 0.26 | | 0.02 | 0.55 | | | |
| 29 | | | | | | 0.04 | | 0.06 | | | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | 0.26 | | | | |
| Sum | 1.92 | 0.90 | 0.86 | | | | 0.99 | 3.76 | 2.46 | 2.40 | | |

Clock stopped total for period=2.36"

Clock stopped total for period=3.02"

Table 25.--Precipitation data at East Fork Parachute Creek precipitation gage for water years 1980 and 1981

PRECIPITATION DATA
(in inches)

Station: East Fork Parachute Year: 1980

Latitude and Longitude: 39°33'20" 107°58'12"

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 0.07 | 0.02 | 0.04 | 0.10 | | 0.13 | | |
| 2 | | | | | | | 0.10 | | | 0.42 | | |
| 3 | | | | | | 0.06 | | | | | | |
| 4 | | | | | | 0.11 | | | | | | |
| 5 | | | | | | 0.02 | | | | | | |
| 6 | | | | | | 0.10 | | | | | | 0.01 |
| 7 | | 0.07 | | | 0.05 | 0.35 | 0.02 | 0.05 | | 0.19 | | |
| 8 | | 0.22 | | | | 0.04 | 0.21 | 0.05 | | | | |
| 9 | | 0.09 | | 0.05 | | | | 0.05 | | | | 0.05 |
| 10 | | | | 0.03 | | | | 0.21 | | | | 0.27 |
| 11 | | 0.04 | 0.13 | 0.53 | | | | 0.18 | | | | 0.01 |
| 12 | | | | 0.15 | | 0.13 | | 0.35 | | 0.02 | 0.08 | |
| 13 | | | | | 0.02 | | | 0.06 | | 0.20 | 0.07 | |
| 14 | | | | 0.20 | 0.35 | | | 0.03 | | | 0.06 | |
| 15 | | | | 0.10 | 0.16 | 0.02 | | 0.04 | | | 0.84 | |
| 16 | | | | | 0.10 | 0.03 | | | | | | |
| 17 | | | | | | 0.07 | | 0.36 | | | | |
| 18 | | 0.58 | | 0.11 | 0.30 | | | 0.02 | | | | |
| 19 | | 0.29 | | | 0.10 | | | | | | | |
| 20 | 0.89 | 0.22 | | | 0.25 | | | | | | | |
| 21 | | 0.04 | | | 0.10 | | | | | | 0.01 | |
| 22 | | | 0.06 | | 0.10 | 0.12 | | | | | | |
| 23 | | 0.01 | 0.07 | | 0.12 | 0.06 | | | | | 0.29 | |
| 24 | | 0.04 | 0.05 | | 0.03 | 0.10 | | | | 0.08 | | |
| 25 | | 0.15 | | | 0.02 | 0.17 | | 0.05 | | | | |
| 26 | | 0.26 | | | | 0.05 | | | | | | |
| 27 | | | | | | 0.02 | | | | | | |
| 28 | | | | 0.82 | 0.02 | | | | | | | |
| 29 | 0.31 | | 0.04 | 0.65 | 0.04 | | | | | | | |
| 30 | | | | 0.03 | | 0.06 | 0.28 | | | | | |
| 31 | | | | 0.05 | | 0.31 | | | | | | |
| Sum | 1.20 | 2.01 | 0.35 | 2.72 | 1.83 | 1.84 | 0.65 | 1.55 | 0.00 | 1.04 | 1.35 | 0.34 |

Table 25.--Precipitation data at East Fork Parachute Creek precipitation gage for water years 1980 and 1981--Continued

PRECIPITATION DATA
(in inches)

Station: East Fork Parachute Year: 1981

Latitude and Longitude: 39°33'20" 107°58'12"

| DAY | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | 0.10 | | |
| 2 | | | | | | | | 0.65 | 0.09 | 0.05 | | 0.08 |
| 3 | | | | | | | 0.72 | 0.65 | 0.35 | 0.05 | | 0.01 |
| 4 | | | | | | | 0.08 | | | | | |
| 5 | | | 0.15 | 0.30 | | | | 0.32 | | | | 0.06 |
| 6 | | | 0.15 | | | 0.19 | | 0.18 | | | | 0.13 |
| 7 | | | 0.26 | | | 0.03 | | | | | | 0.01 |
| 8 | | | | | | | | 0.06 | | | | |
| 9 | | | 0.03 | | | | | 0.12 | | 0.46 | 0.01 | 0.44 |
| 10 | | | | | | | | | | | 0.21 | 0.01 |
| 11 | | | | | | | | 0.22 | | 0.06 | 0.06 | |
| 12 | 0.28 | 0.29 | | | | | | | | 0.12 | 0.06 | |
| 13 | 0.10 | 0.31 | | | | | | | | | 0.01 | |
| 14 | 0.65 | 0.03 | | | | | | | | | | 0.17 |
| 15 | 0.23 | | | 0.05 | | | 0.11 | 0.06 | | | 0.57 | |
| 16 | 0.73 | | | 0.11 | | 0.29 | | 0.12 | | | 0.13 | |
| 17 | 0.12 | | | | | 0.02 | | 0.28 | | 0.23 | | |
| 18 | | | | | | | 0.05 | 0.01 | | 0.01 | 0.02 | |
| 19 | | | | | | | | | | | | 0.03 |
| 20 | | | | | | 0.16 | | 0.13 | | | | |
| 21 | | | | | | 0.21 | | 0.27 | | | | |
| 22 | | 0.02 | 0.13 | | | | | 0.39 | | | | |
| 23 | | 0.04 | 0.05 | | | | | | | 0.31 | 0.02 | |
| 24 | | 0.27 | | | | 0.13 | | | | 0.25 | | |
| 25 | | | | | | | | 0.05 | | 0.05 | 0.03 | |
| 26 | 0.05 | | | | | 0.10 | | | 0.15 | 0.07 | | |
| 27 | 0.10 | | | | | 0.13 | | 0.06 | 0.75 | | 0.17 | |
| 28 | | | | | | 0.24 | | | 0.25 | | | |
| 29 | | | | | | 0.01 | | 0.27 | 0.05 | | 0.14 | |
| 30 | | | | | | 0.52 | | | | | 0.52 | |
| 31 | | | | | | | | 0.26 | | | 0.02 | |
| Sum | 2.26 | 0.96 | 0.73 | | | | 0.96 | 4.10 | 1.64 | 1.76 | 1.97 | 0.94 |

Clock stopped
total for period=2.69"

Table 26.--*JQS snow-course data for water years 1980 and 1981*

[Lat N. 39°35'35", long W. 107°55'00". Elevation 8,860 feet above sea level]

| Date (M-D-Y) | Depth (inches) | Water content (inches) | Density (percent) |
|---|---|---|---|
| 1-17-80 | 29.3 | 7.2 | 24.7 |
| 2-29-80 | 49.8 | 14.0 | 28.3 |
| 4-03-80 | 59.4 | 22.1 | 37.2 |
| 3-04-81 | 20.3 | 4.1 | 20.2 |
| 4-01-81 | 27.5 | 6.4 | 23.4 |

☆ U.S. GOVERNMENT PRINTING OFFICE: 1985—578-190/25152 REGION NO. 8