HYDROLOGIC DATA FROM NAVAL OIL SHALE RESERVES, PARACHUTE CREEK BASIN, NORTHWESTERN COLORADO, 1975-79

By Ralph O. Patt, D. Briane Adams, and Dannie L. Collins

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ILLUSTRATIONS

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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	0.06309	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.

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ABSTRACT

This report summarizes 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 western Colorado. It includes data from five surface-water gages, two automatic sediment samplers and two water-quality monitors. Instantaneous streamflow measurements were made at 63 sites on Parachute Creek tributaries to determine gain or loss of flow. Thirteen springs and nine surface-water sites were sampled and chemical analyses of these sites are included. From 1975 to 1979, 88 spring sites were inventoried; conductivity, temperature, pH, and discharge were measured. Climate data include maximum, minimum, and total daily solar radiation. Daily total precipitation is reported for three stations and snow-course data is reported for one site.

INTRODUCTION

The Naval Oil Shale Reserves (NOSR), located in Garfield County, northwestern Colorado (fig. 1), is an area of potential oil-shale resource development. This report makes available the hydrologic data collected from September 1975 to October 1979 by the U.S. Geological Survey in cooperation with the U.S. Department of Energy.

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). Parameters and frequency of data collection for water-years 1976, 1977, 1978, and 1979 at the five streamflow-gaging stations installed in the NOSR are shown in table 1. Instantaneous streamflow measurements were made at 63 sites on Parachute Creek tributaries to determine gain or loss of flow. Thirteen springs and nine surface-water sites were sampled and chemical analyses were made of the samples. From 1975 to 1979, 88 springs were inventoried and specific conductance, temperature, pH, and discharge were measured.

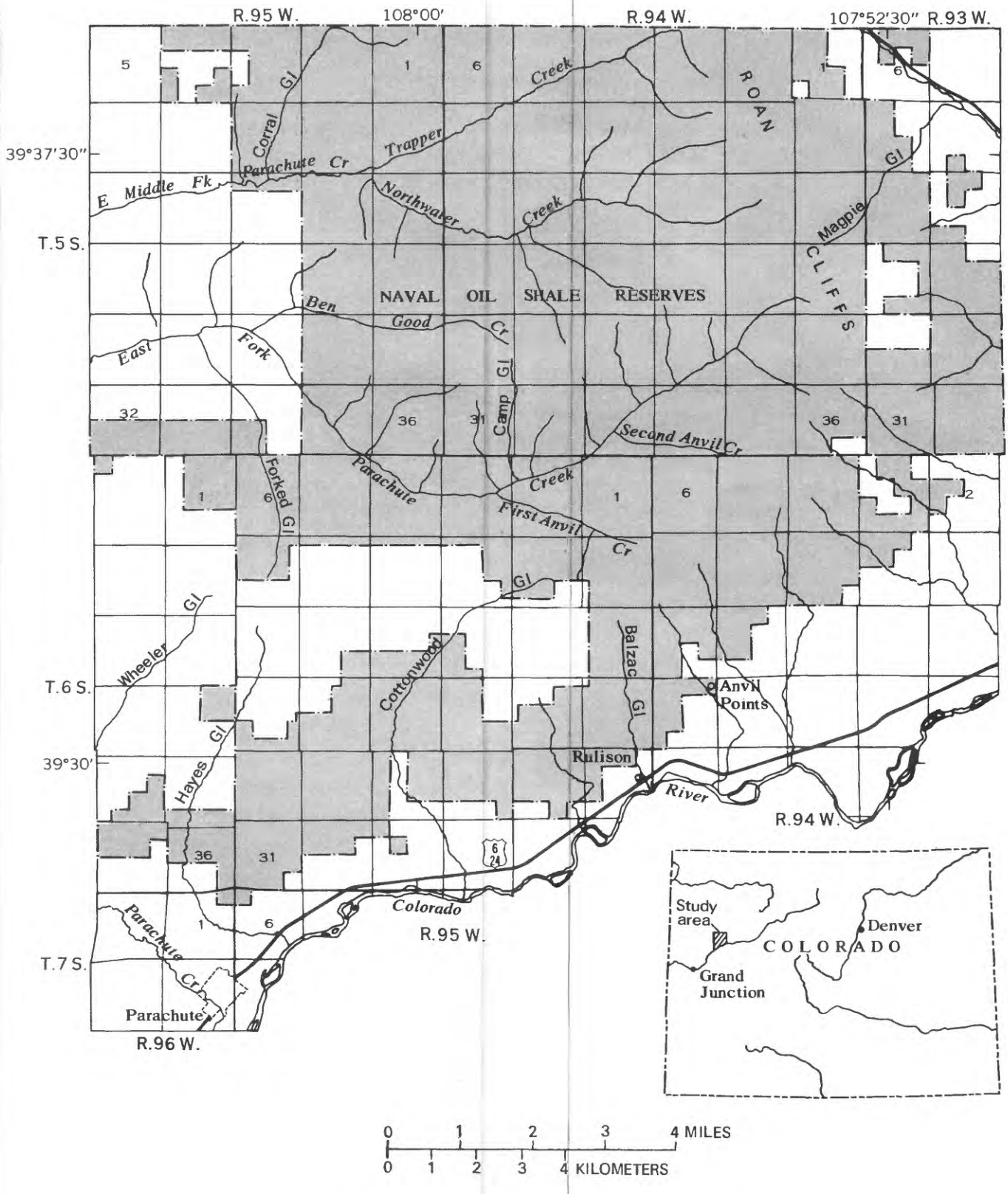

Figure 1.--Location of Naval Oil Shale Reserves.

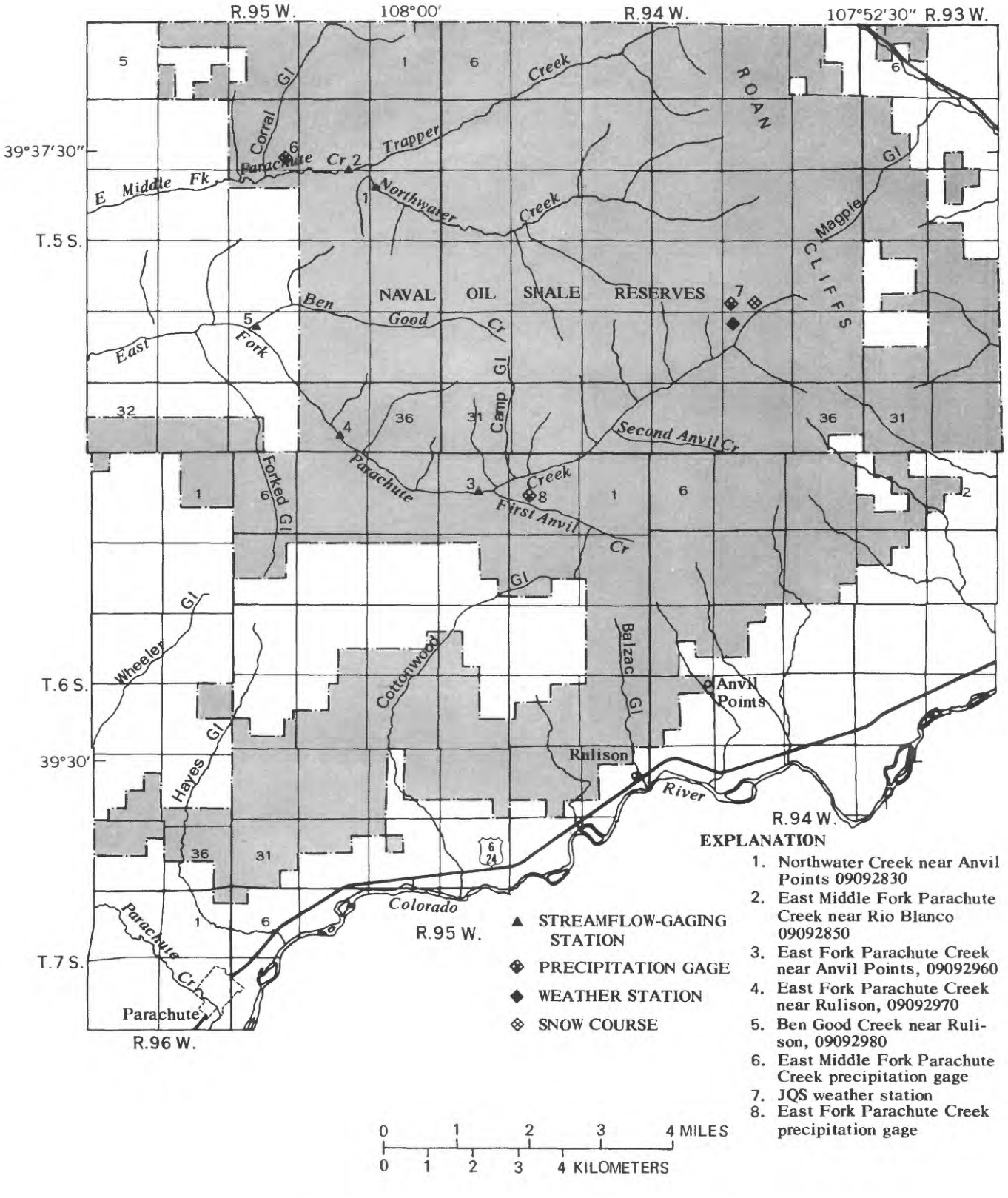

Figure 2.--Location of hydrologic data-collection sites.

Table 1.--*Hydrologic data collected at streamflow-gaging stations in water years 1976, 1977, 1978, and 1979*

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

Site	Water year	Discharge	Specific conductance	Temperature	Water quality	Sediment
09092830 Northwater Creek near Anvil Points----------	1976	(1)	(1)	(1)	(1)	-----
	1977	Daily	(8)	(8)	(8)	-----
	1978	Daily	(7)	(7)	(7)	(3)
	1979	Daily	(11)	(11)	(11)	(3)
09092850 East Middle Fork Parachute Creek near Rio Blanco--	1976	(1)	(1)	(1)	(1)	-----
	1977	Daily	Daily	Daily	(8)	Daily
	1978	Daily	Daily	Daily	(7)	Daily
	1979	Daily	Daily	Daily	(11)	Daily
09092960 East Fork Parachute Creek near Anvil Points----------	1976	(1)	(1)	(1)	(1)	-----
	1977	Daily	(6)	(6)	(6)	-----
	1978	Daily	(6)	(6)	(6)	-----
	1979	Daily	(5)	(5)	(5)	-----
09092970 East Fork Parachute Creek near Rullson----------	1976	-----	-----	-----	-----	-----
	1977	Daily	Daily	Daily	(3)	-----
	1978	Daily	Daily	Daily	(5)	Daily
	1979	Daily	Daily	Daily	(5)	(7)
09092980 Ben Good Creek near Rullson----------	1976	-----	-----	-----	-----	-----
	1977	Daily	(1)	(1)	-----	-----
	1978	Daily	(4)	(4)	(4)	-----
	1979	Daily	(4)	(4)	(4)	-----

Data collected in 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 discharge measurements (tables 2 through 6), water-quality analyses (tables 7 through 11), and suspended-sediment discharge rates (tables 12 through 14). Following these tables are streamflow gain-and-loss measurements (table 15), results of a spring inventory (table 16), and water-quality analyses and instantaneous flow measurements at miscellaneous spring and surface-water sites (table 17). The last part of the Hydrologic Data Section contains climate data (tables 18 through 28).

SURFACE-WATER DATA

Surface-water data consist of continuous streamflow monitoring at streamflow-gaging stations, instantaneous measurements of streamflow to determine gaining and losing reaches, spring discharge, and miscellaneous streamflow measurements.

Data collected at streamflow-gaging stations consist of stage and measurements of stream discharge. In addition, observations of factors affecting the stage-discharge relation, weather records, and other information are used to supplement base data in determining the daily flow.

Records of stage are obtained from direct readings on a continuous graph of the fluctuations or a tape punched at 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the U.S. Geological Survey and described in U.S. Geological Survey Water-Supply Paper 888 (Corbett and others, 1943) and U.S. Geological Survey Techniques of Water Resources Investigations, Book 3, Chapter A6 (Carter and Davidian, 1968).

Surface-water discharge data collected at the five streamflow-gaging stations are found in tables 2 through 6. Average monthly runoff for water years 1977, 1978, and 1979 at these five streamflow-gaging stations in the Parachute Creek basin is shown in figure 3.

On September 25 and 26, 1978, 63 instantaneous streamflow measurements were made on reaches of Parachute Creek tributaries (fig. 4). Letter A on figure 4 shows locations of instantaneous measurements on Northwater Creek; Letter B, Trapper Creek; Letter C, East Middle Fork Parachute Creek; Letter D, Ben Good Creek, Letter E, East Fork Parachute Creek. Instantaneous measurements in downstream order for Northwater Creek, Trapper Creek, East Middle Fork Parachute Creek, Ben Good Creek, and East Fork Parachute Creek are listed in table 15. Water temperature and specific conductance also were obtained at most sites at the time flow measurements were made. The purpose of these measurements was to determine if selected stream reaches of the Parachute Creek basin were gaining or losing flow. Measurements include springs that contributed water to streams.

Eighty-eight springs located on the NOSR were measured at least once from 1975 to 1979. Specific conductance, temperature, pH, and discharge were measured and the data are given in table 16. Location of the springs is shown in figure 5.

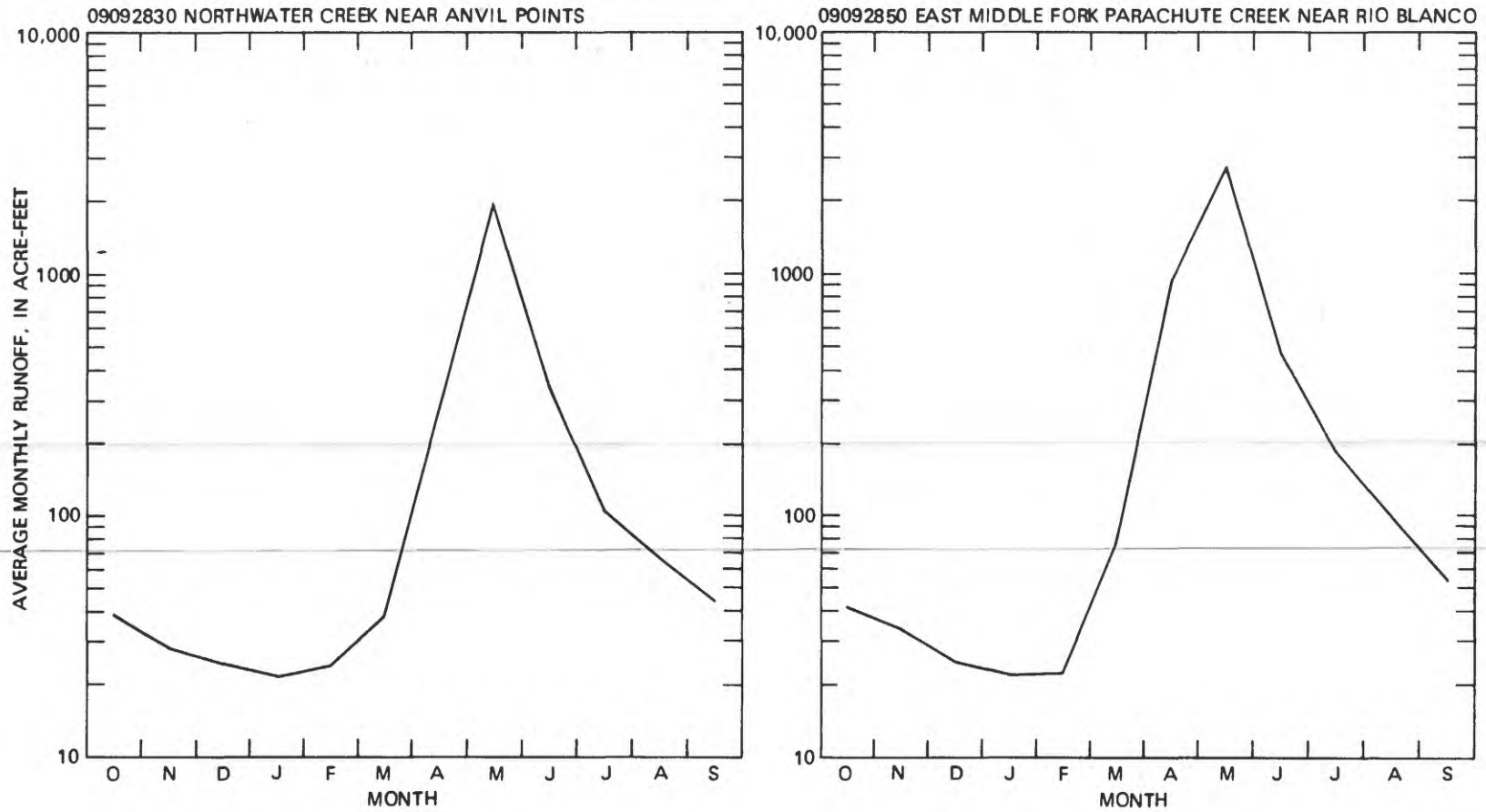

Figure 3.--Mean monthly runoff for water years 1977, 1978, and 1979 at the five streamflow-gaging stations.

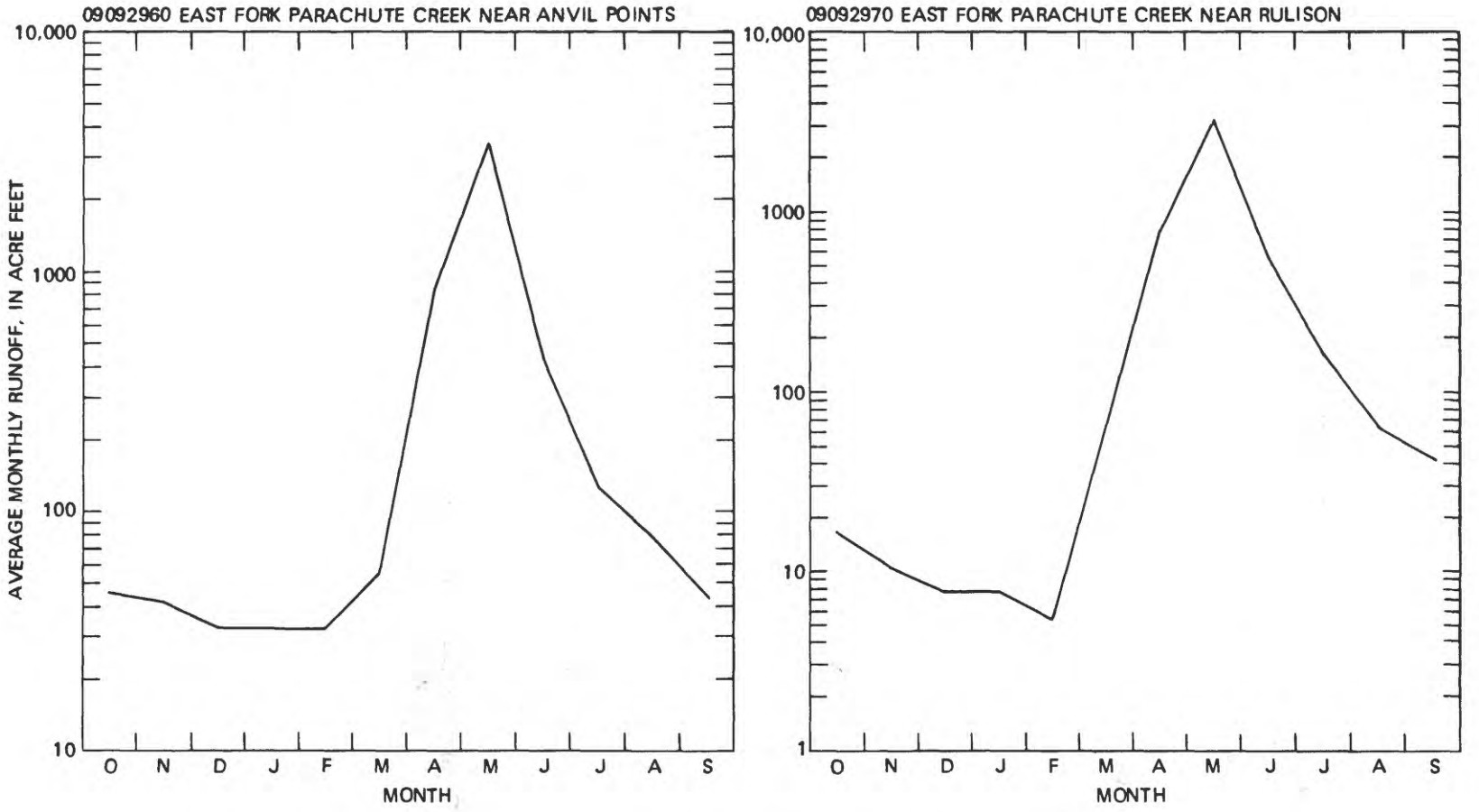

Figure 3.--Mean monthly runoff for water years 1977, 1978, and 1979 at the five streamflow-gaging stations--Continued.

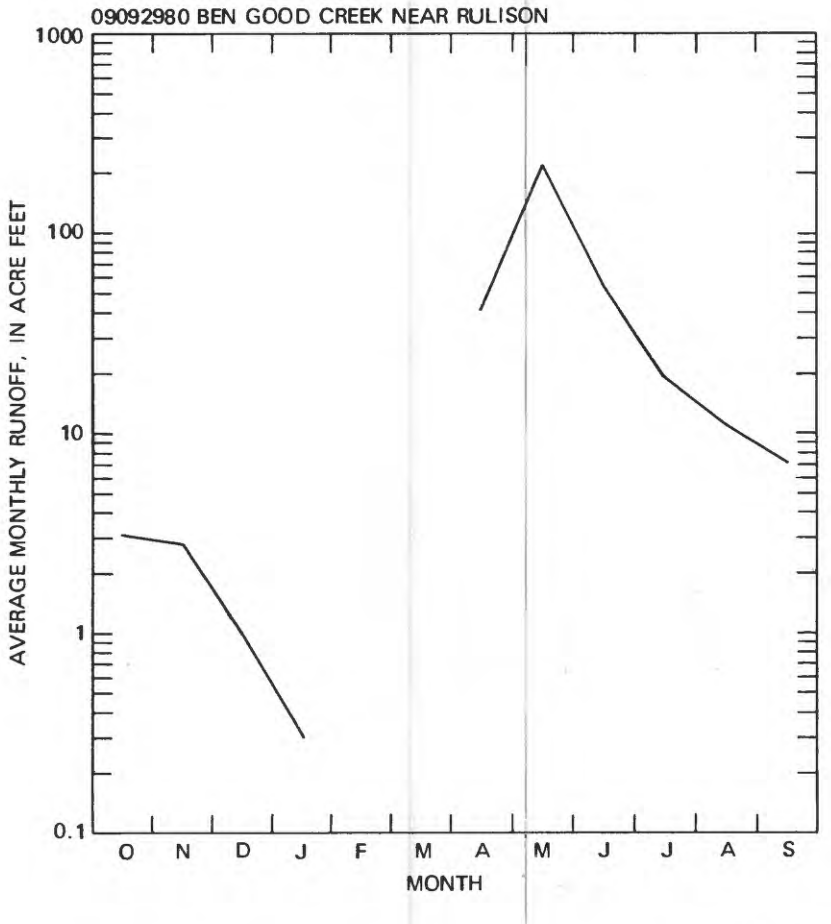

Figure 3.-- Mean monthly runoff for water years 1977, 1978, and 1979 at the five streamflow-gaging stations-- Continued.

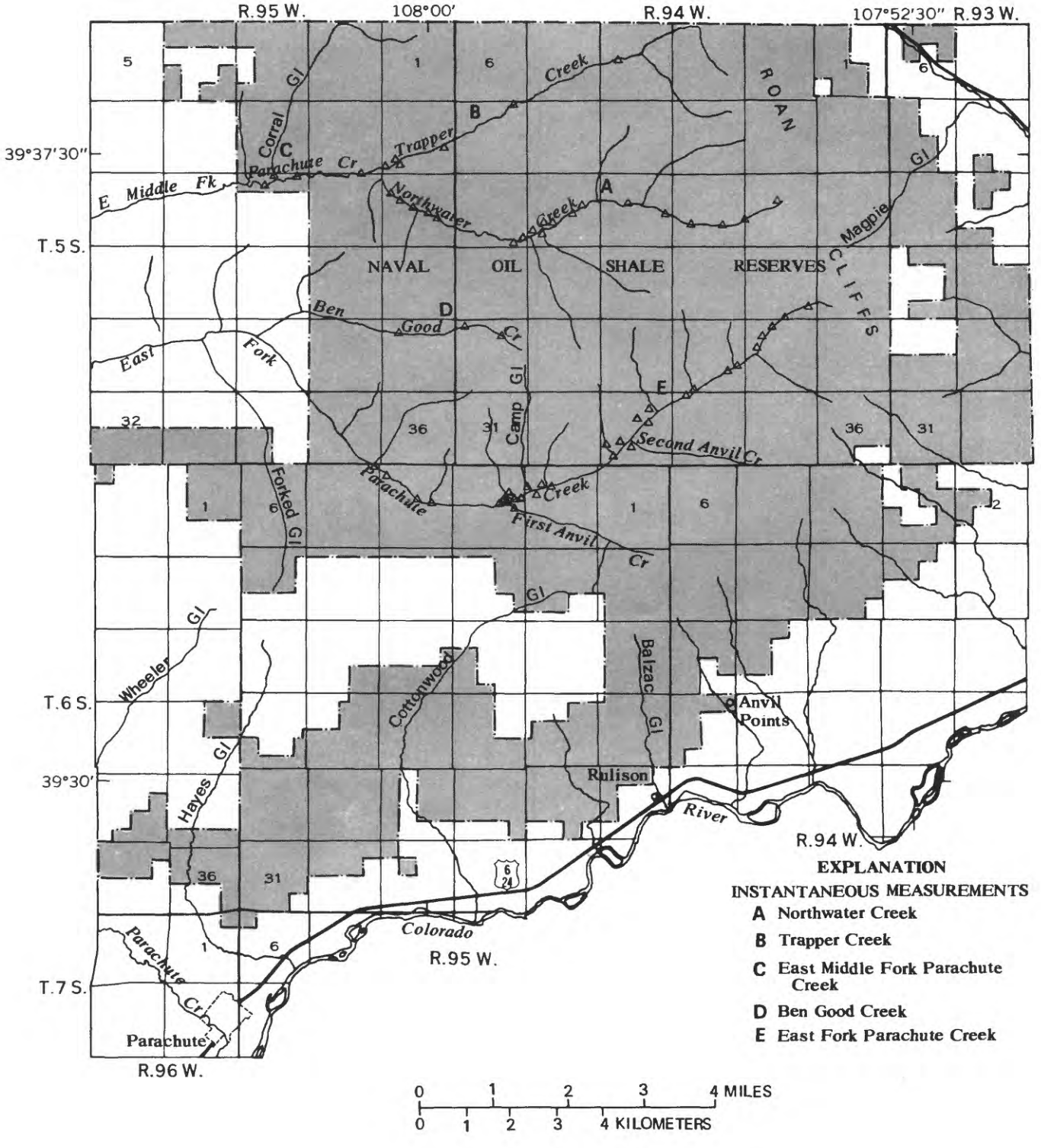

Figure 4.-- Location of gain-and-loss measurements.

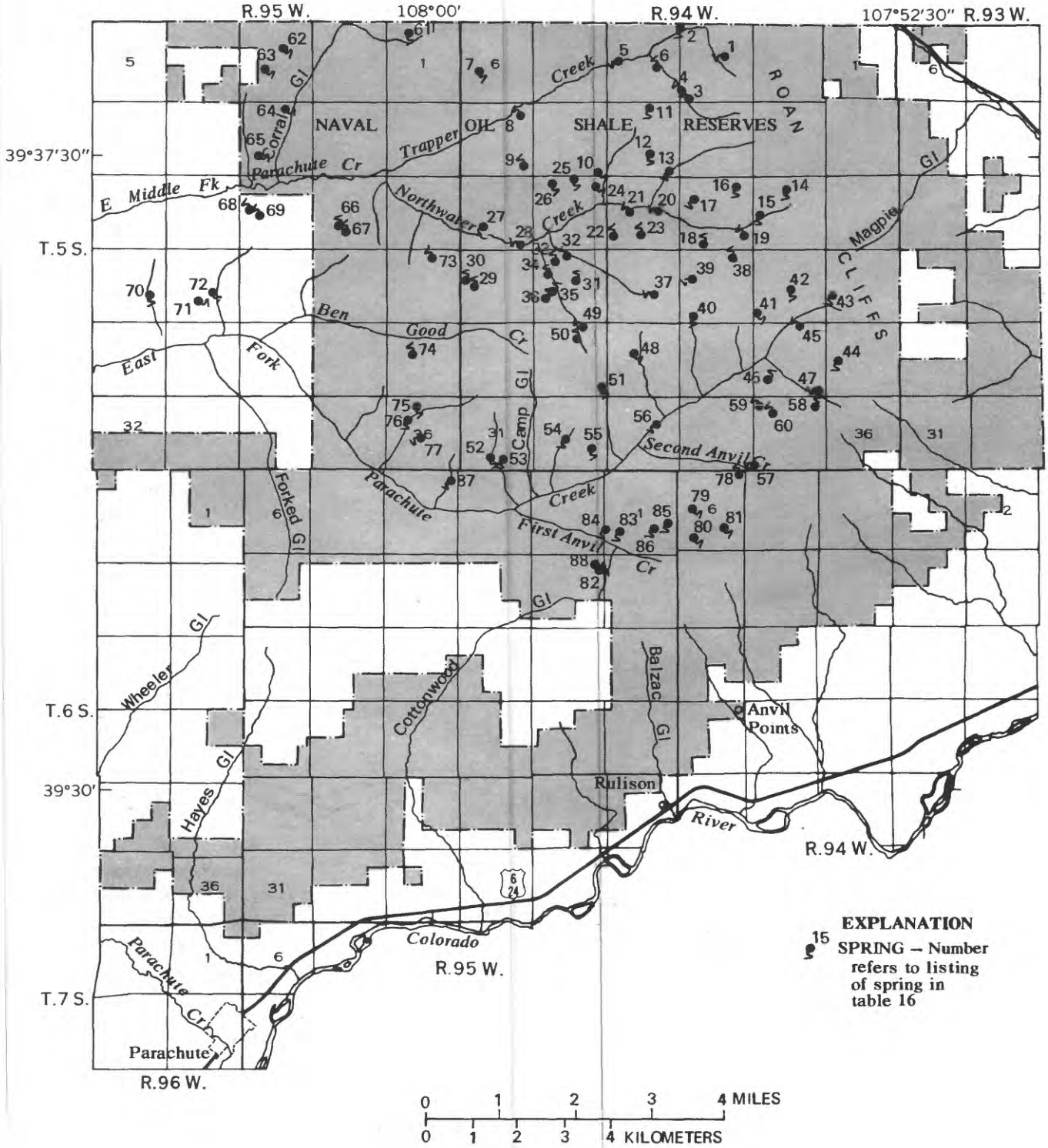

Figure 5.--Location of springs.

Each spring listed in the tables is located by township, range, and section (LOCAL IDENTIFIER), as explained in figure 6, and by latitude and longitude in degrees, minutes, and seconds.

Twenty-two sites where miscellaneous streamflow data were collected from 1975 to 1979 are shown in figure 7. Sites 14, 15, 16, 17, and 18 are located near the Anvil Points Experimental Facility; these samples could be influenced by mine tailings. Data from miscellaneous site measurements are found in table 17.

WATER-QUALITY DATA

Water samples for analyses were collected at streamflow-gaging stations and springs. The discharge records from the streamflow-gaging stations were used in conjunction with the chemical and sediment analyses to compute loads.

Data are presented for water temperature, chemical constituents, specific conductance, and suspended-sediment discharge in tables 7 through 14. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, sodium-adsorption ratio, specific conductance, and pH. Sediment discharge is reported in tons per day.

Descriptive statements are given for water-quality stations located at streamflow-gaging stations. Information given includes the location, drainage area, periods of record for the various water-quality data, extremes of the pertinent data, and general remarks, in a format similar to that used for streamflow-gaging stations.

Two streamflow-gaging stations, 09092970 East Fork Parachute Creek near Rulison and 09092850 East Middle Fork Parachute Creek near Rio Blanco, are equipped with digital monitors providing temperature records at hourly intervals. The reported data consist of maximum and minimum temperatures for each day. The remaining three stations are not equipped with temperature monitors; however, instantaneous temperatures are included with water-quality analyses.

The values of water quality at the stations were obtained using available sampling techniques and available methods of analysis, and represent as well as possible the water quality at the time of sampling. The methods used for collecting and analyzing water samples to determine the kinds and concentrations of chemical constituents are described by Skougstad and others (1979).

Samples were collected at relatively uniform time intervals, without concern for the hydrologic patterns of high or low flow. Most of the samples were collected during periods of relatively low flow. The samples represent fairly well the quality of water in the stream on any given day. They cannot be used, however, to determine the total load of chemical constituents carried during a year or to provide good information on the complete range of concentrations, because the samples usually were not collected during the lowest or highest flows when concentrations were at their extremes.

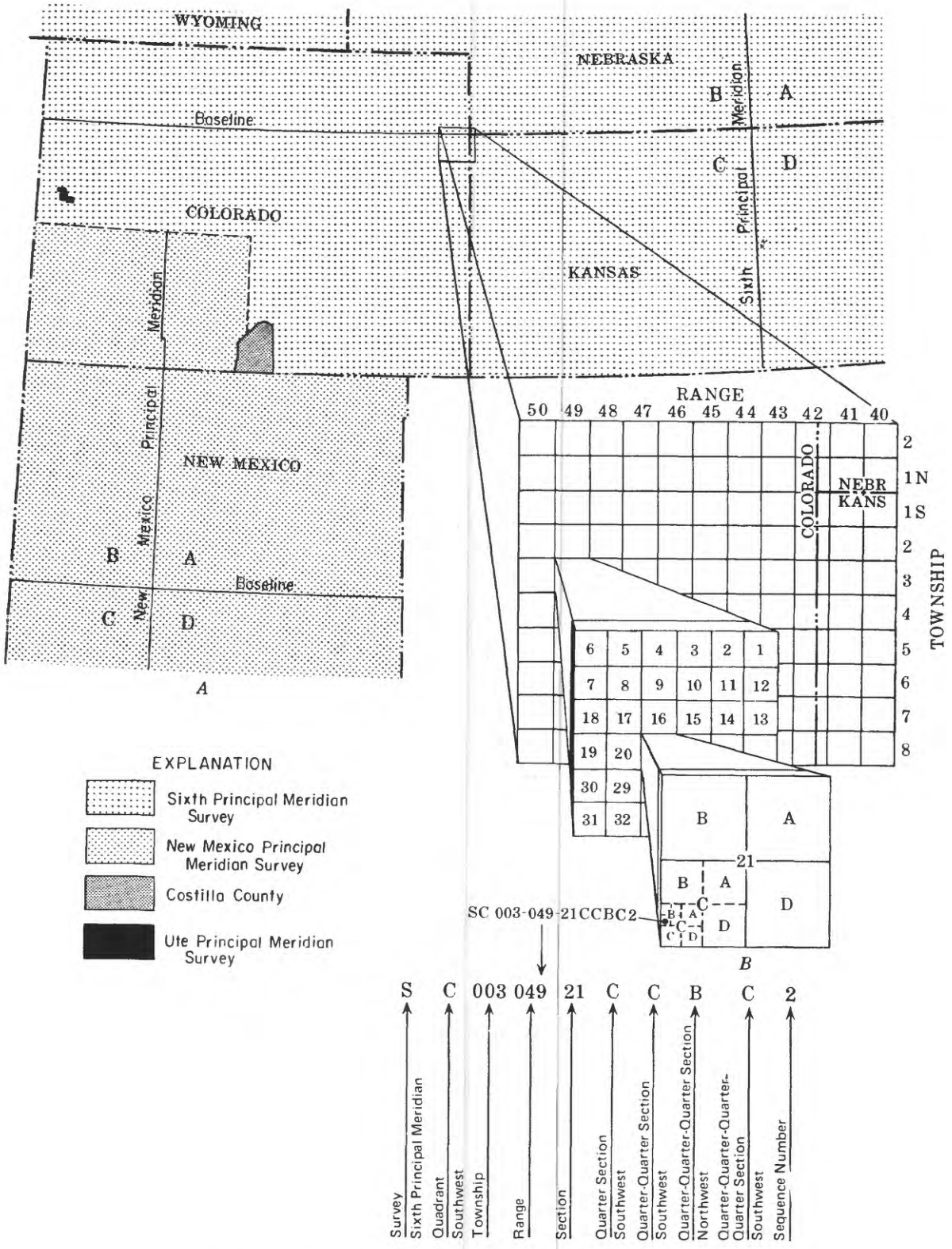

Figure 6.--System of numbering spring locations in Colorado.

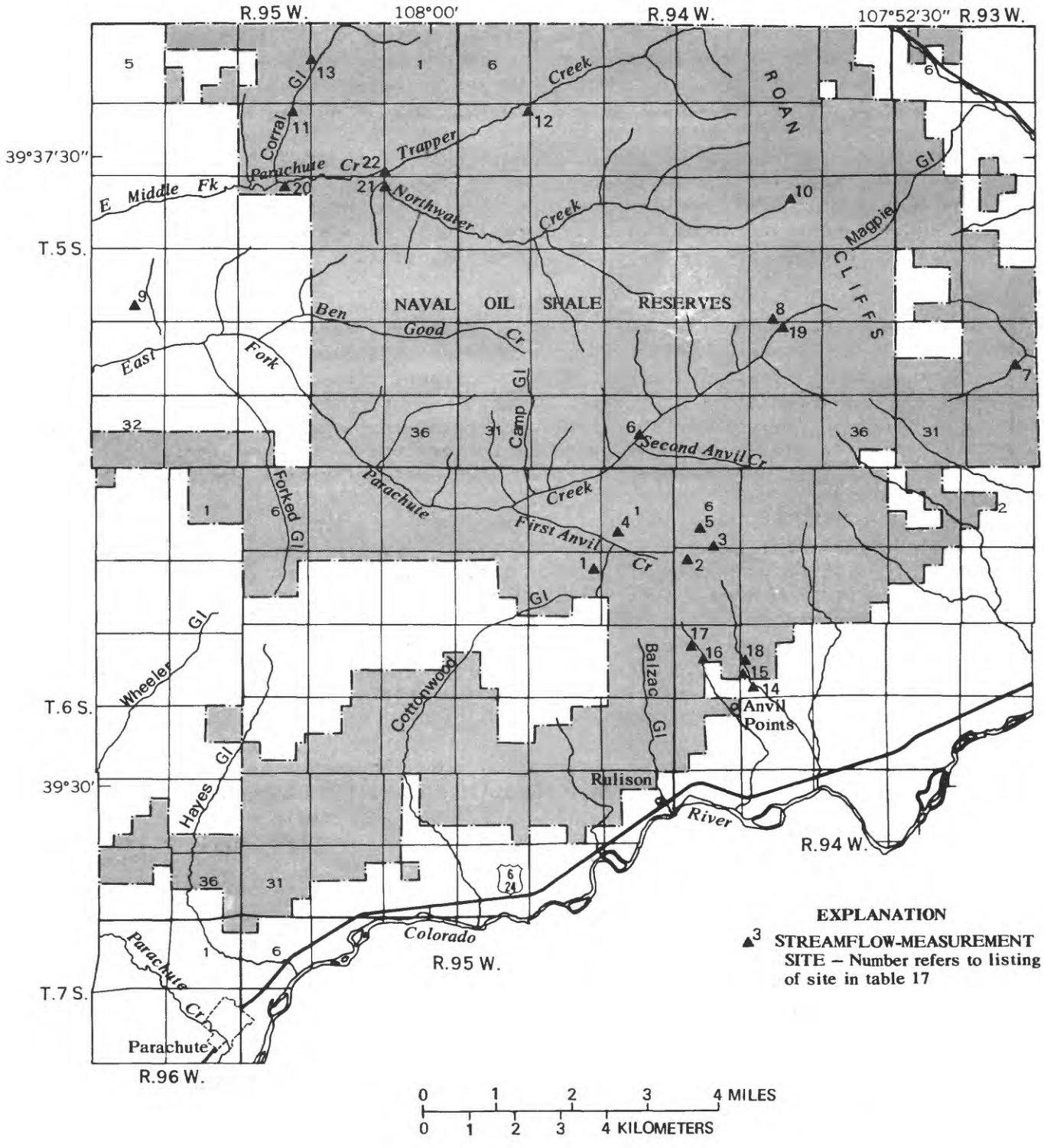

Figure 7.-- Location of miscellaneous spring and surface-water sites where water-quality samples and streamflow measurements were obtained.

Samples were collected at the five streamflow-gaging stations for laboratory analysis of the major inorganic and organic ions as well as selected trace elements. Variations of specific conductance and selected chemical constituents in streamflow at the five streamflow-gaging stations are shown in figure 8.

Specific conductance of water varies more or less in proportion to the amount of material in solution and is an indicator of inorganic water quality. Specific conductance can be correlated with the concentration of dissolved solids in many waters and, in many instances, it also correlates with the concentrations of specific ions in solution such as calcium, magnesium, sodium, sulfate, and hardness as $CaCO_3$.

Two streamflow-gaging stations, 09092970 East Fork Parachute Creek near Rulison and 09092850 East Middle Fork Parachute Creek near Rio Blanco, are equipped with digital monitors providing specific-conductance records at hourly intervals. The reported data consist of mean daily values. The remaining three stations do not have specific-conductance monitors. Instantaneous specific-conductance measurements are, however, included with water-quality samples at these stations. Monthly mean specific conductance at these two streamflow-gaging stations are shown in figure 9.

Suspended-sediment concentrations were determined from samples collected by automatic US PS-69 pumping samplers and by manual methods. The automatic samplers collect samples from a single point in the stream one or more times daily. Periodically, samples are collected manually by using depth-integrating samplers at 15 to 20 verticals across the stream. Two stations, 09092970 East Fork Parachute Creek near Rulison and 09092850 East Middle Fork near Rio Blanco, are equipped with PS-69 automatic pumping samplers. Suspended sediment data are summarized in tables 12, 13, and 14.

Thirteen springs were sampled for chemical constituents. Analyses for these samples are given in table 17 under miscellaneous sites numbered 1 through 13. Springs numbered 1, 3, 4, 5, 6, 9, 11, 12, and 13 in this table are the same as springs numbered 82, 81, 83, 79, 56, 70, 64, 8, and 62, respectively, in table 16.

CLIMATE DATA

Climate data reported include maximum, minimum, and mean daily air temperatures, mean daily relative humidity, mean wind speed, mean wind direction, and total daily solar radiation at the JQS weather station. Daily total precipitation is reported at three stations while snow-course data are reported for one site located approximately 300 feet southeast of the JQS precipitation station (fig. 2). Climate data are given in tables 18 through 28. Mean monthly air temperatures and humidity are shown in figure 10.

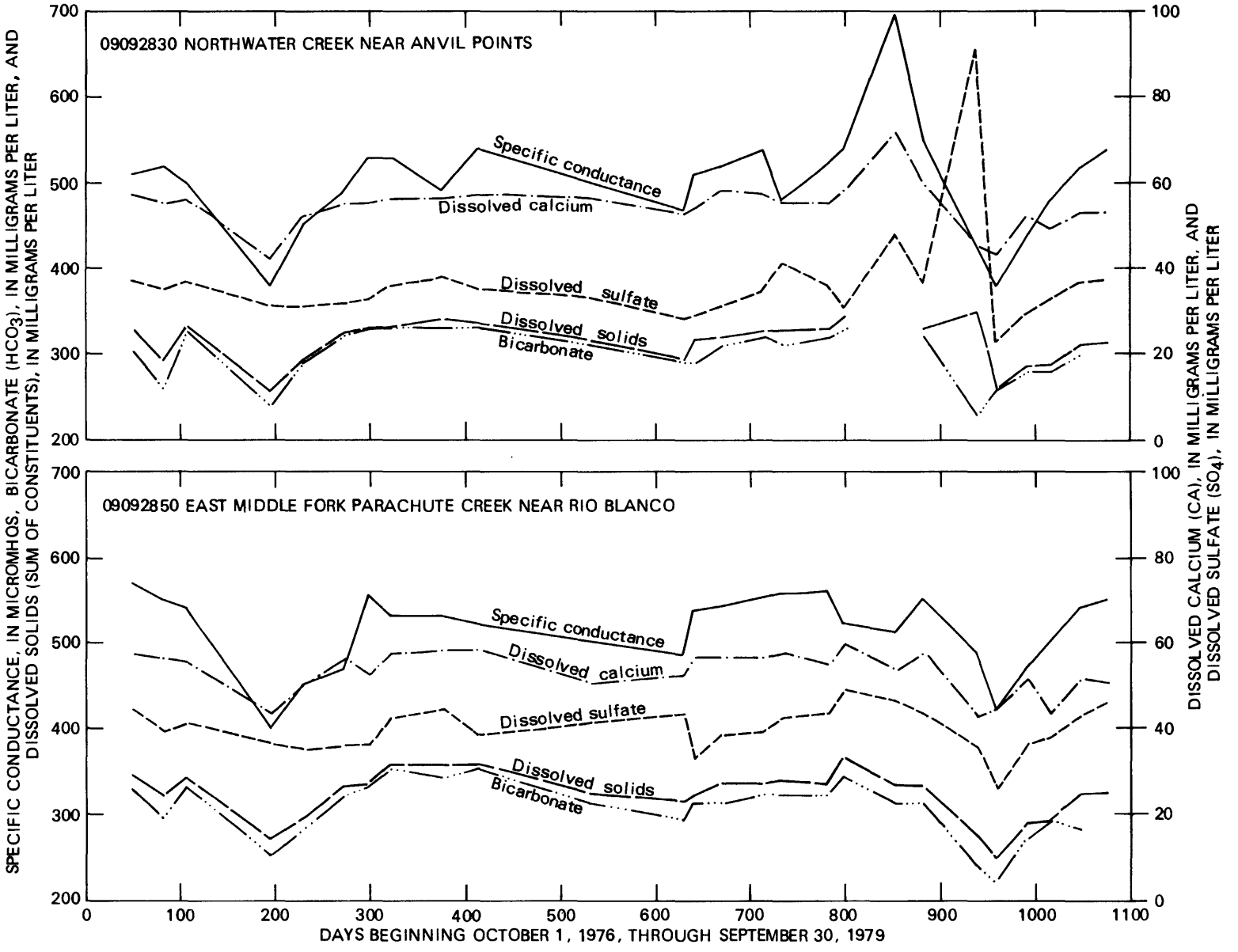

Figure 8.-- Variations of specific conductance and selected chemical constituents at the five streamflow-gaging stations.

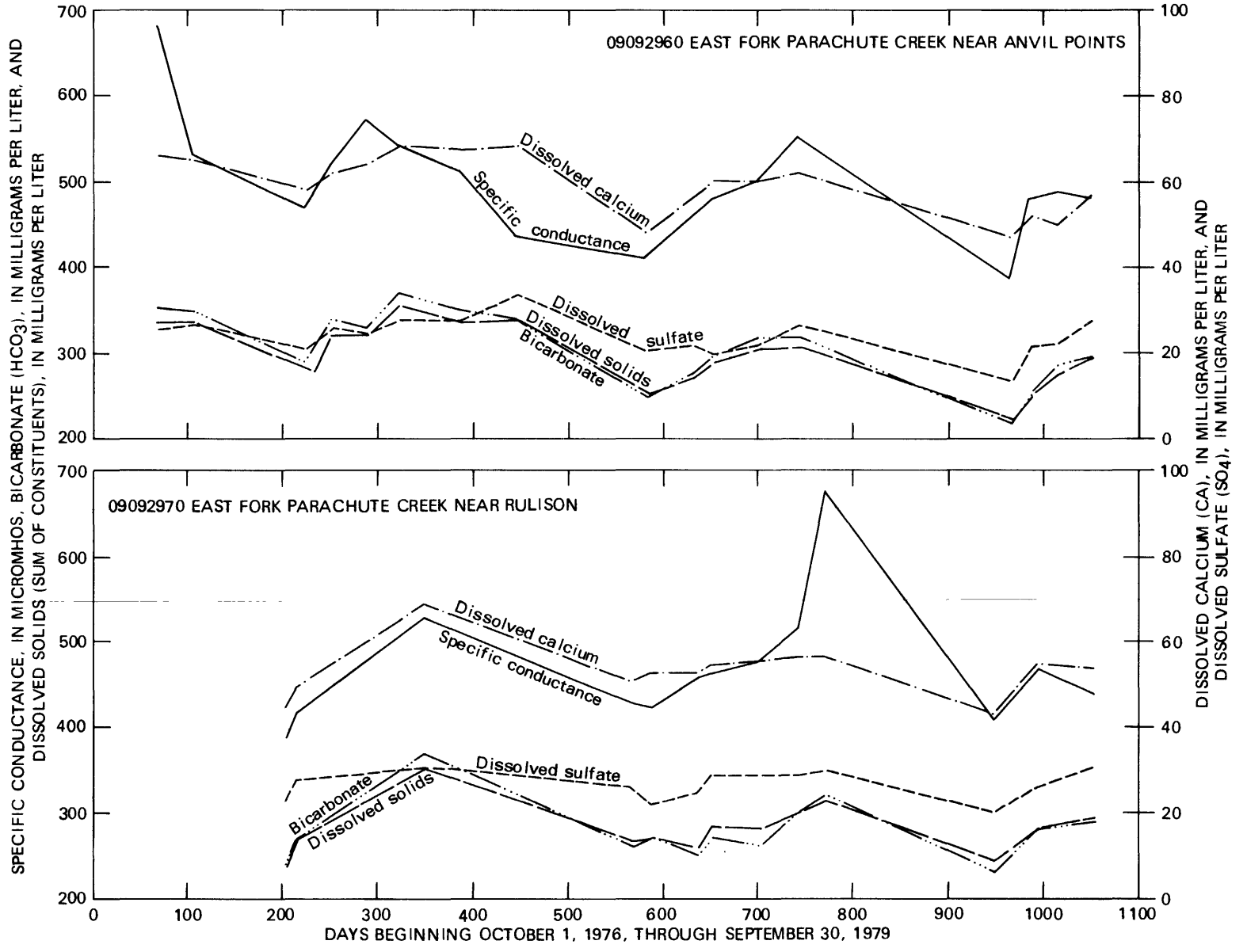

Figure 8.-- Variations of specific conductance and selected chemical constituents at the five streamflow-gaging stations --Continued.

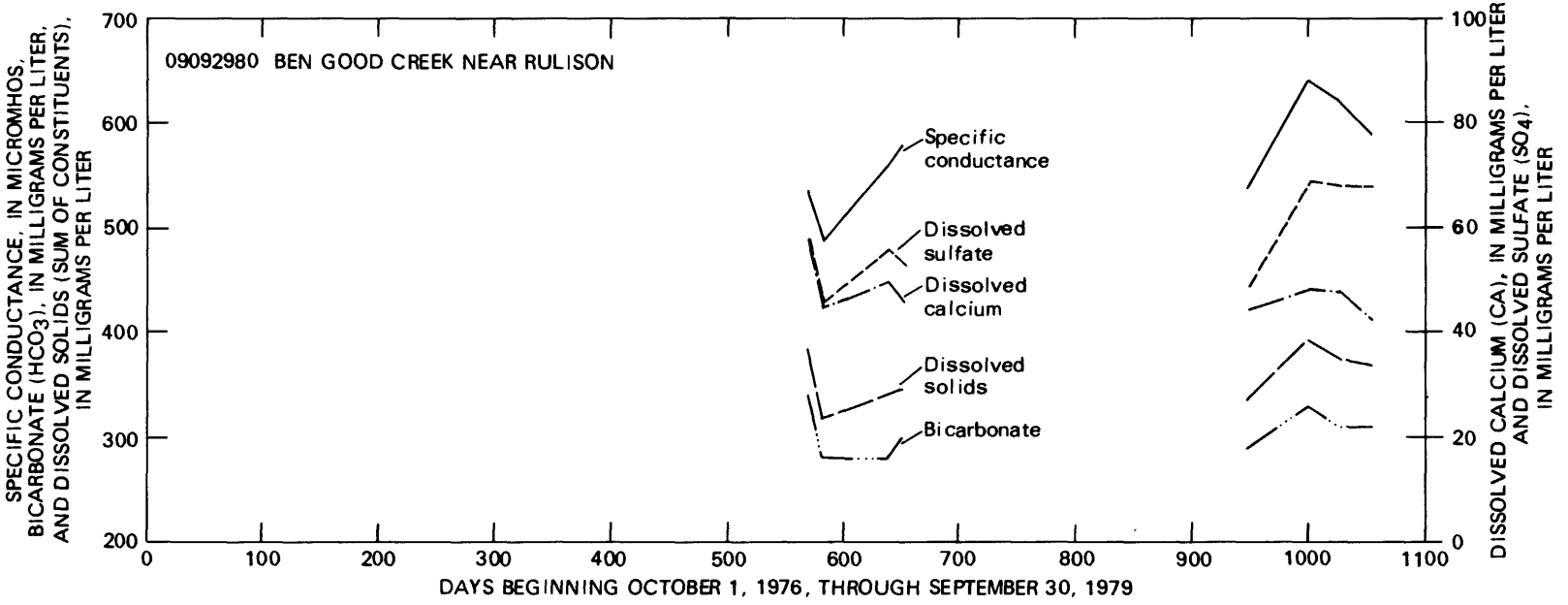

Figure 8.-- Variations of specific conductance and selected chemical constituents at the five streamflow-gaging stations --Continued.

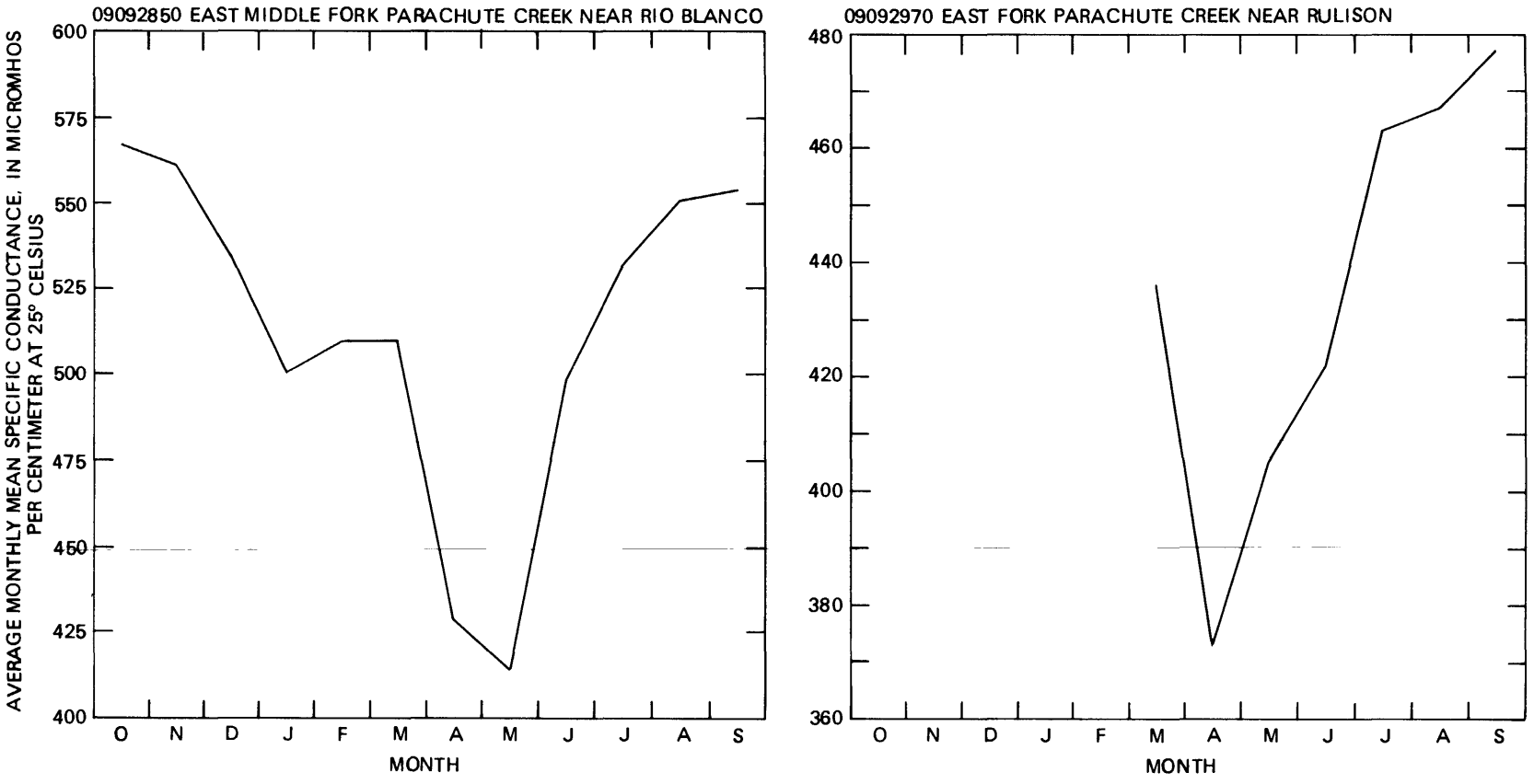

Figure 9.--Mean monthly specific conductance at two streamflow-gaging stations in the Parachute Creek basin for water years 1977 and 1978.

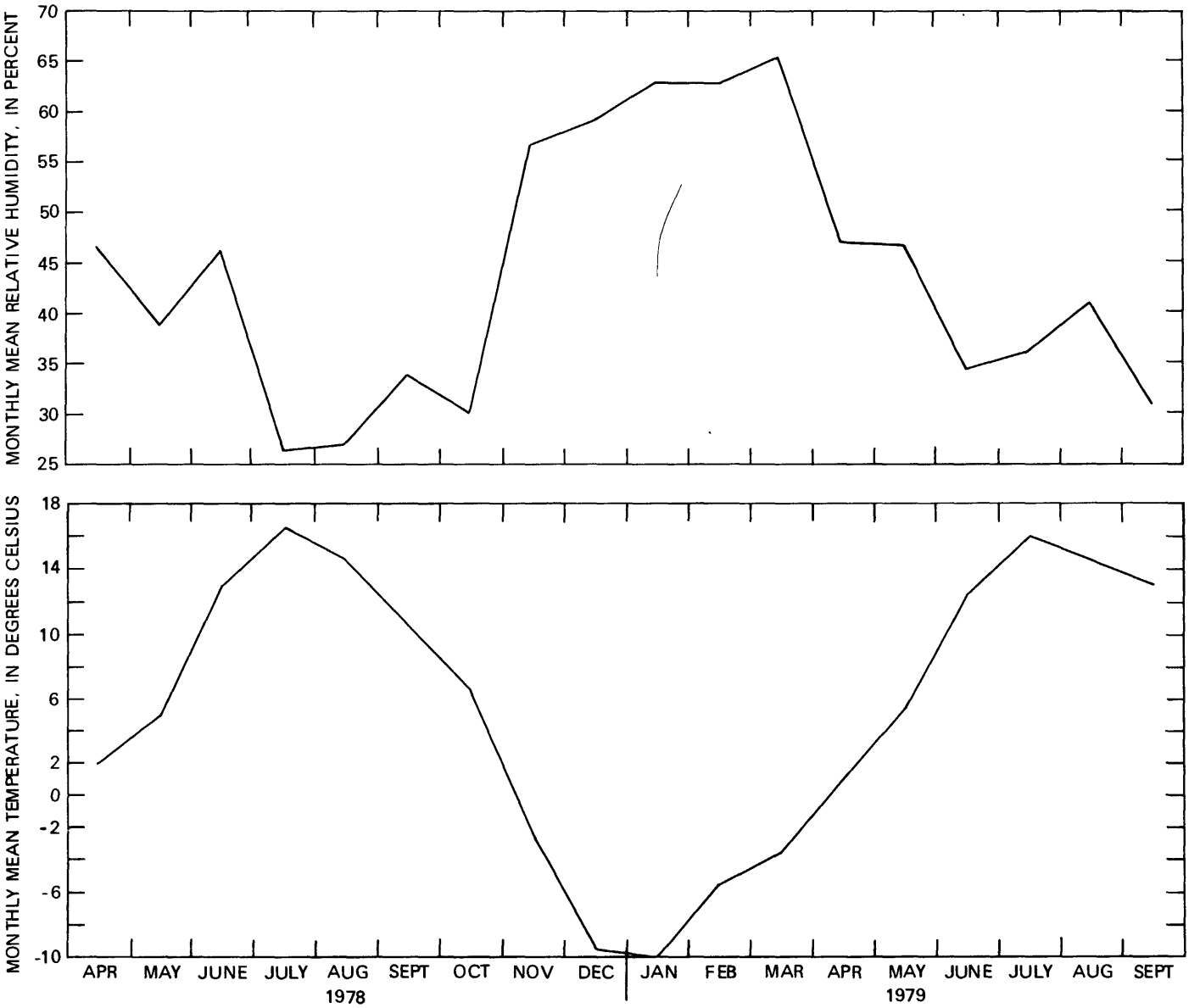

Figure 10.--Mean monthly air temperatures and humidity at JQS weather station.

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HYDROLOGIC DATA

ABBREVIATIONS

The following abbreviations are used in tables 2-28:

AC-FT	= acre-foot	MG/L	= milligram per liter
C	= Celsius	m^3/s	= cubic meter per second
CALORIES	= calories per square centimeter per day	mi	= mile
		mi^2	= square mile
CAL YR	= calendar year	MICROMHOS	= micromhos per centimeter at 25° C
CFS	= cubic foot per second	micromhos/cm	= micromhos per centimeter at 25° C
DEG C	= degree Celsius	MIN	= minimum
DEG-MIN-SEC	= degree-minute-second	MPH	= mile per hour
ft	= foot	No.	= number
ft^3/s	= cubic foot per second	PARAM	= parameter
km	= kilometer	SEQ	= sequence
km^2	= square kilometer	t	= metric ton
lat	= latitude	T/DAY	= short ton per day
long	= longitude	UG/L	= microgram per liter
m	= meter	USGS	= U.S. Geological Survey
MAX	= maximum	WTR YR	= water year
M-D-Y	= month-day-year	Y-M-D	= year-month-day

Table 2.--*Surface-water discharge at Northwater Creek near Anvil Points for water years 1977, 1978, and 1979*
[From U.S. Geological Survey, 1978, 1979, 1980]

COLORADO RIVER BASIN

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 poor. No diversions or regulation above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3.7 ft³/s (0.10 m³/s) Aug. 19, gage height, 1.59 ft (0.485 m) from rating curve extended above 1.6 ft³/s (0.05 m³/s); minimum daily, 0.01 ft³/s (0.001 m³/s) Aug. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	.70	.40	.37	.42	.48	.62	1.1	.45	.40	.03	.54
2	.80	.76	.40	.36	.40	.46	.63	1.1	.45	.40	.03	.54
3	.80	.64	.39	.34	.41	.44	.63	1.1	.45	.35	.03	.49
4	.90	.59	.37	.33	.43	.43	.63	1.0	.45	.40	.03	.54
5	1.1	.54	.35	.32	.46	.42	.64	1.1	.45	.35	.03	.45
6	1.0	.54	.35	.32	.48	.45	.64	1.1	.45	.31	.09	.40
7	.90	.45	.37	.32	.50	.52	.64	1.1	.40	.31	.01	.40
8	.90	.40	.39	.32	.52	.54	.64	1.1	.35	.27	.03	.40
9	.90	.35	.40	.30	.54	.50	.64	1.1	.40	.27	.06	.35
10	.90	.35	.42	.33	.54	.44	.76	1.1	.35	.24	.03	.40
11	.90	.35	.44	.37	.54	.40	.90	1.0	.35	.24	.03	.54
12	.90	.36	.45	.40	.54	.46	1.6	.96	.31	.20	.05	.54
13	.85	.40	.45	.42	.56	.50	2.0	1.1	.31	.20	.05	.45
14	.80	.45	.45	.45	.56	.50	3.1	1.2	.31	.20	.10	.40
15	.90	.48	.45	.45	.56	.50	3.0	1.2	.31	.20	.17	.49
16	.90	.52	.45	.45	.56	.50	2.7	1.1	.35	.20	.10	.45
17	.95	.56	.45	.46	.58	.50	2.8	.89	.35	.14	.31	.45
18	1.0	.60	.45	.46	.58	.50	3.1	.76	.35	.14	.35	.45
19	.90	.60	.45	.47	.59	.45	1.7	.64	.40	.17	1.1	.40
20	.80	.60	.45	.44	.60	.40	1.4	.59	.45	.17	.96	.40
21	.85	.60	.45	.43	.54	.48	1.8	.54	.49	.20	.96	.40
22	.85	.60	.45	.42	.48	.54	1.7	.54	.49	.17	.96	.40
23	.75	.60	.45	.41	.43	.60	1.5	.49	.45	.09	.76	.40
24	.65	.60	.45	.41	.43	.57	1.3	.45	.45	.20	.82	.40
25	.80	.52	.45	.41	.43	.55	1.1	.49	.45	.17	1.2	.40
26	.75	.46	.45	.42	.44	.52	1.0	.45	.49	.11	.82	.40
27	.75	.42	.45	.42	.46	.52	1.1	.45	.45	.11	1.2	.40
28	.70	.36	.45	.42	.49	.50	1.1	.45	.45	.09	.96	.45
29	.80	.38	.45	.43	---	.49	1.2	.45	.40	.05	.54	.45
30	.95	.39	.42	.44	---	.52	1.2	.45	.40	.05	.64	.49
31	.70	---	.37	.46	---	.60	---	.49	---	.03	.59	---
TOTAL	26.45	15.17	13.17	12.35	14.07	15.28	41.77	25.59	12.21	6.43	13.14	13.27
MEAN	.85	.51	.42	.40	.50	.49	1.39	.83	.41	.21	.42	.44
MAX	1.1	.76	.45	.47	.60	.60	3.1	1.2	.49	.40	1.2	.54
MIN	.65	.35	.35	.30	.40	.40	.62	.45	.31	.03	.01	.35
AC-FT	52	30	26	24	28	30	83	51	24	13	26	26

WTR YR 1977 TOTAL 208.90 MEAN .57 MAX 3.1 MIN .01 AC-FT 414

NOTE.--NO GAGE-HEIGHT RECORD OCT. 1-31, NOV. 13 to APR. 11.

Table 2.--*Surface-water discharge at Northwater Creek near Anvil Points for water years 1977, 1978 and 1979*--Continued

PARACHUTE CREEK BASIN

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 poor. No diversions or regulation above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 120 ft³/s (3.40 m³/s) May 14, gage height, 2.62 ft (0.799 m) from rating curve extended above 31 ft³/s (0.88 m³/s); minimum daily, 0.20 ft³/s (0.006 m³/s) Nov. 3, Mar. 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.44	.33	.25	.24	.23	.23	1.1	27	10	2.4	1.5	.81
2	.43	.22	.25	.24	.23	.23	.95	27	9.0	2.3	1.4	.81
3	.43	.20	.25	.24	.23	.23	.80	33	8.5	2.4	1.4	.81
4	.42	.22	.25	.24	.23	.23	.72	36	8.4	2.3	1.4	.86
5	.42	.23	.25	.24	.23	.23	.71	36	8.2	2.3	1.3	.81
6	.47	.26	.25	.24	.23	.23	.83	27	7.8	2.3	1.3	.76
7	.57	.27	.25	.23	.23	.23	1.0	21	7.2	2.3	1.2	.78
8	.49	.28	.25	.23	.23	.23	1.6	19	7.0	2.2	1.2	.81
9	.42	.29	.25	.23	.23	.23	1.6	16	6.5	2.1	1.2	.79
10	.41	.28	.25	.23	.23	.23	1.2	14	6.4	2.0	1.2	.77
11	.42	.27	.25	.23	.23	.23	1.4	19	6.2	1.9	1.2	.85
12	.48	.27	.25	.23	.23	.23	2.2	28	6.0	1.9	1.2	.91
13	.36	.26	.25	.23	.23	.23	2.8	48	5.8	2.0	1.2	.99
14	.37	.25	.25	.23	.23	.23	3.3	75	5.8	1.9	1.1	.97
15	.37	.25	.25	.23	.23	.23	4.6	84	5.6	1.9	1.2	.91
16	.35	.25	.25	.23	.23	.23	5.5	59	5.4	2.0	1.2	.91
17	.34	.25	.25	.23	.23	.22	4.8	51	5.4	2.0	1.1	.98
18	.33	.25	.25	.23	.23	.20	3.8	45	5.4	2.0	1.1	1.1
19	.32	.24	.25	.23	.23	.20	3.1	45	5.0	1.9	1.0	.99
20	.31	.24	.25	.23	.23	.27	3.1	44	4.8	1.9	1.0	.92
21	.32	.25	.25	.23	.23	.32	3.8	44	4.0	1.9	1.0	.90
22	.30	.25	.25	.23	.23	.36	3.7	42	3.3	1.9	1.0	.88
23	.31	.25	.25	.23	.23	.34	3.3	34	3.2	1.9	1.0	.87
24	.27	.25	.25	.23	.23	.33	3.4	26	3.1	1.8	.95	.86
25	.26	.25	.25	.23	.23	.34	4.7	23	2.9	1.7	.91	.82
26	.25	.25	.25	.23	.23	.37	10	18	2.8	1.7	.91	.80
27	.24	.25	.25	.23	.23	.43	30	14	2.8	1.7	.91	.76
28	.23	.25	.25	.23	.23	.56	26	12	2.8	1.6	.91	.77
29	.22	.25	.25	.23	---	.63	24	11	2.7	1.6	.91	.77
30	.25	.25	.25	.23	---	.74	25	11	2.6	1.5	.86	.73
31	.23	---	.25	.23	---	.87	---	10	---	1.5	.81	---
TOTAL	11.03	7.61	7.75	7.19	6.44	9.86	179.01	999	164.6	60.8	34.57	25.70
MEAN	.36	.25	.25	.23	.23	.32	5.97	32.2	5.49	1.96	1.12	.86
MAX	.57	.33	.25	.24	.23	.87	30	84	10	2.4	1.5	1.1
MIN	.22	.20	.25	.23	.23	.20	.71	10	2.6	1.5	.81	.73
AC-FT	22	15	15	14	13	20	355	1980	326	121	69	51

CAL YR 1977 TOTAL 180.50 MEAN .49 MAX 3.1 MIN .01 AC-FT 358
WTR YR 1978 TOTAL 1513.56 MEAN 4.15 MAX 84 MIN .20 AC-FT 3000

NOTE.--NO GAGE-HEIGHT RECORD NOV. 9 TO MAR. 16, JUNE 4 TO JULY 31.

Table 2.--*Surface-water discharge at Northwater Creek near Anvil Points for water years 1977, 1978 and 1979*--Continued

PARACHUTE CREEK BASIN

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 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, 225 ft³/s (6.37 m³/s) May 17, gage height, 3.30 ft (1.006 m) from rating curve extended above 92 ft³/s (2.61 m³/s); minimum daily, 0.20 ft³/s (0.006 m³/s) Dec. 8, Jan. 1, 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.72	.66	.60	.20	.50	.81	1.1	24	32	3.7	2.1	1.2
2	.68	.67	.55	.20	.50	.81	1.1	26	27	3.7	2.1	1.1
3	.70	.64	.50	.40	.45	.78	1.3	24	24	3.5	1.9	1.1
4	.69	.64	.55	.55	.45	1.1	1.2	19	23	3.5	1.9	1.0
5	.69	.62	.55	.55	.40	1.2	.76	19	20	3.3	1.9	1.0
6	.68	.60	.45	.55	.45	1.0	1.2	28	18	3.3	1.8	1.0
7	.69	.61	.45	.45	.50	.55	1.7	33	17	3.3	1.8	1.0
8	.67	.63	.20	.35	.50	.40	1.8	32	16	3.1	1.8	.95
9	.68	.63	.30	.45	.50	.70	2.0	29	14	3.1	1.8	.95
10	.67	.66	.40	.50	.50	.75	1.8	22	13	3.0	1.7	.95
11	.67	.79	.40	.50	.50	1.2	1.5	18	12	3.0	1.7	.95
12	.67	.89	.45	.50	.50	1.5	1.3	17	11	3.0	1.7	.95
13	.67	.77	.45	.50	.50	1.5	1.2	17	9.6	2.8	1.7	.85
14	.67	.72	.50	.50	.50	1.1	1.5	24	8.8	2.8	1.5	.85
15	.68	.72	.50	.55	.55	1.3	2.4	42	8.0	2.8	1.7	.85
16	.67	.68	.45	.55	.55	1.4	3.3	92	7.6	2.8	2.1	.85
17	.67	.70	.50	.55	.55	1.4	4.4	130	7.2	2.8	1.7	.85
18	.67	.70	.50	.50	.55	1.4	6.8	127	6.2	2.8	1.9	.85
19	.67	.60	.55	.50	.55	1.5	8.5	120	6.2	2.8	1.9	.85
20	.68	.70	.65	.50	.55	1.4	6.8	115	5.9	2.8	1.8	.85
21	.68	.65	.65	.50	.55	1.3	6.8	110	5.6	2.8	1.7	.85
22	.75	.65	.65	.45	.60	1.2	9.5	109	5.3	2.8	1.5	.85
23	.68	.65	.65	.45	.60	.80	13	108	5.0	2.8	1.5	.75
24	.68	.60	.65	.40	.60	1.0	17	108	4.7	2.8	1.4	.75
25	.68	.65	.60	.45	.60	1.0	19	107	4.4	2.5	1.4	.75
26	.62	.65	.55	.45	.60	1.2	17	100	4.1	2.5	1.4	.85
27	.63	.60	.50	.25	.60	.80	18	82	4.1	2.4	1.4	.95
28	.64	.60	.50	.25	.80	.90	19	68	3.9	2.4	1.2	.85
29	.65	.60	.50	.25	---	.90	20	56	3.9	2.2	1.2	.75
30	.65	.60	.50	.25	---	1.0	22	45	3.7	2.2	1.4	.75
31	.66	---	.35	.25	---	1.0	---	37	---	2.1	1.2	---
TOTAL	20.91	19.88	15.60	13.30	15.00	32.90	212.96	1888	331.2	89.4	51.8	27.05
MEAN	.67	.66	.50	.43	.54	1.06	7.10	60.9	11.0	2.88	1.67	.90
MAX	.75	.89	.65	.55	.80	1.5	22	130	32	3.7	2.1	1.2
MIN	.62	.60	.20	.20	.40	.40	.76	17	3.7	2.1	1.2	.75
AC-FT	41	39	31	26	30	65	422	3740	657	177	103	54

CAL YR 1978 TOTAL 1543.56 MEAN 4.23 MAX 84 MIN .20 AC-FT 3060
WTR YR 1979 TOTAL 2718.00 MEAN 7.45 MAX 130 MIN .20 AC-FT 5390

NOTE.--NO GAGE-HEIGHT RECORD NOV. 17 TO FEB. 28, MAR. 7 TO APR. 4, MAY 15 TO JUNE 18.

Table 3.--*Surface-water discharge at East Middle Fork Parachute Creek near Rio Blanco for water years 1977, 1978 and 1979*
[From U.S. Geological Survey, 1978, 1979, 1980]

PARACHUTE CREEK BASIN

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 poor. No regulation or diversions above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16 ft³/s (0.45 m³/s) Apr. 25, gage height, 1.77 ft (0.539 m), from floodmarks, from rating curve extended above 2.0 ft³/s (0.06 m³/s); maximum gage height, 2.50 ft³/s (0.762 m) Nov. 27 (backwater from ice); minimum daily discharge, 0.20 ft³/s (0.006 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.90	.86	.38	.34	.38	.36	.58	1.9	.28	.36	.28	.33
2	1.0	.78	.38	.36	.38	.34	.72	1.6	.28	.36	.28	.33
3	1.1	.67	.38	.36	.39	.34	1.0	1.5	.29	.45	.28	.33
4	1.2	.62	.38	.32	.40	.34	1.2	1.5	.32	.36	.28	.33
5	1.0	.62	.38	.30	.40	.36	1.5	1.5	.33	.35	.28	.30
6	.90	.72	.38	.28	.42	.38	2.0	1.6	.38	.36	.28	.27
7	.90	.68	.38	.28	.42	.40	2.0	1.6	.41	.36	.28	.27
8	.90	.72	.38	.26	.42	.44	2.0	1.5	.44	.36	.28	.27
9	1.0	.78	.38	.22	.42	.42	2.0	1.6	.50	.36	.28	.27
10	.95	.76	.38	.26	.42	.40	2.0	1.6	.54	.36	.28	.27
11	.90	.64	.38	.28	.42	.36	2.0	1.6	.58	.36	.28	.36
12	.90	.54	.38	.32	.42	.34	2.3	1.5	.64	.36	.28	.45
13	.95	.47	.38	.34	.42	.38	1.9	1.4	.68	.36	.28	.36
14	.95	.50	.38	.36	.42	.38	2.7	1.5	.70	.36	.28	.30
15	1.0	.53	.38	.36	.42	.38	2.0	1.8	.68	.36	.28	.36
16	1.0	.58	.38	.36	.42	.38	2.0	1.5	.68	.31	.28	.33
17	1.0	.60	.38	.36	.42	.38	2.0	1.4	.66	.31	.28	.30
18	.95	.67	.38	.36	.42	.38	2.2	.78	.63	.31	.27	.27
19	.90	.62	.38	.36	.42	.36	2.3	.62	.61	.31	.57	.27
20	.85	.67	.38	.36	.42	.34	2.4	.53	.57	.31	.78	.27
21	.80	.53	.38	.36	.42	.36	2.5	.45	.53	.31	.57	.24
22	.80	.53	.38	.36	.44	.38	2.8	.39	.45	.31	.52	.24
23	.85	.50	.38	.38	.42	.44	3.2	.37	.45	.31	.53	.36
24	.85	.48	.38	.38	.40	.44	6.0	.35	.45	.31	.49	.33
25	.80	.40	.38	.38	.38	.38	10	.33	.45	.31	.78	.30
26	.80	.30	.37	.38	.38	.38	6.0	.32	.45	.29	.53	.27
27	.90	.30	.36	.38	.36	.36	3.0	.32	.42	.28	.78	.24
28	.95	.35	.35	.38	.36	.34	2.6	.31	.39	.28	.57	.22
29	.80	.37	.34	.38	---	.34	2.4	.30	.36	.28	.49	.22
30	.75	.38	.33	.38	---	.36	2.2	.28	.33	.28	.42	.20
31	.80	---	.33	.38	---	.44	---	.27	---	.28	.36	---
TOTAL	28.35	17.17	11.58	10.58	11.41	11.68	77.50	32.22	14.48	10.28	12.62	8.86
MEAN	.91	.57	.37	.34	.41	.38	2.58	1.04	.48	.33	.41	.30
MAX	1.2	.86	.38	.38	.44	.44	10	1.9	.70	.45	.78	.45
MIN	.75	.30	.33	.22	.36	.34	.58	.27	.28	.28	.27	.20
AC-FT	56	34	23	21	23	23	154	64	29	20	25	18

WTR YR 1977 TOTAL 246.73 MEAN .68 MAX 10 MIN .20 AC-FT 489

NOTE.--NO GAGE-HEIGHT RECORD OCT. 1 TO NOV. 1, NOV. 28 to APR. 11, APR. 17 to MAY 1, JULY 5 TO AUG. 17.

Table 3.--*Surface-water discharge at East Middle Fork Parachute Creek near Rio Blanco for water years 1977, 1978 and 1979*--Continued

PARACHUTE CREEK BASIN

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 fair. Numerous beaver dams are located upstream. No regulation or diversion above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 103 ft³/s (2.92 m³/s) at 1200 May 15, gage height, 3.15 ft (0.960 m); minimum daily, 0.18 ft³/s (0.005 m³/s) on several days in October, December, January, and February.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	.27	.30	.24	.20	.27	11	53	16	3.8	2.4	1.1
2	.18	.22	.27	.28	.20	.33	14	50	15	3.5	2.2	1.0
3	.20	.24	.36	.30	.20	.30	12	56	14	3.8	1.9	1.1
4	.20	.24	.36	.30	.20	.30	9.2	54	13	3.6	1.8	1.1
5	.18	.27	.33	.27	.20	.36	7.9	38	13	3.6	1.7	1.0
6	.22	.36	.22	.27	.22	.30	8.3	32	12	3.6	1.7	1.0
7	.53	.39	.22	.24	.22	.24	12	30	11	3.6	1.6	1.1
8	.39	.36	.21	.24	.22	.27	17	28	11	3.4	1.6	1.1
9	.39	.27	.20	.24	.22	.36	20	24	10	3.4	1.7	1.0
10	.33	.22	.20	.27	.27	.36	14	25	9.9	3.1	1.7	.99
11	.30	.22	.22	.24	.24	.36	14	33	9.5	3.0	1.8	1.1
12	.22	.22	.18	.24	.20	.36	17	39	9.3	2.9	1.7	1.1
13	.20	.22	.20	.22	.20	.37	20	48	9.0	3.0	1.7	1.0
14	.22	.22	.20	.24	.20	.38	22	73	8.9	3.0	1.8	.97
15	.22	.22	.22	.24	.18	.38	25	93	8.8	3.0	1.6	.89
16	.22	.22	.24	.24	.22	.39	27	95	8.7	3.1	1.7	.88
17	.22	.22	.27	.24	.20	.42	24	88	8.5	3.2	1.5	.90
18	.22	.22	.27	.24	.18	.49	21	74	8.5	3.1	1.5	1.1
19	.22	.24	.28	.24	.20	.62	19	58	7.9	3.1	1.5	.99
20	.22	.30	.30	.22	.20	.78	19	54	7.5	3.0	1.4	.92
21	.27	.30	.33	.20	.20	1.0	20	56	6.5	3.0	1.3	.89
22	.30	.33	.27	.18	.20	1.9	20	56	5.1	3.0	1.4	.89
23	.30	.36	.27	.18	.20	1.8	19	42	5.0	3.0	1.3	.86
24	.30	.30	.27	.20	.22	1.8	19	35	4.7	2.8	1.2	.82
25	.27	.30	.27	.22	.27	1.3	22	33	4.5	2.8	1.2	.80
26	.27	.30	.27	.22	.27	1.6	34	28	4.5	2.7	1.2	.83
27	.27	.33	.24	.24	.27	2.5	60	25	4.3	2.6	1.2	.80
28	.27	.33	.24	.22	.24	3.3	65	22	4.3	2.6	1.2	.82
29	.27	.30	.24	.20	---	5.1	61	20	4.2	2.5	1.2	.83
30	.33	.33	.24	.20	---	7.9	57	19	4.1	2.5	1.2	.82
31	.36	---	.24	.20	---	10	---	17	---	2.4	1.1	---
TOTAL	8.27	8.32	7.93	7.27	6.04	45.84	710.4	1398	258.7	95.7	48.0	28.70
MEAN	.27	.28	.26	.23	.22	1.48	23.7	45.1	8.62	3.09	1.55	.96
MAX	.53	.39	.36	.30	.27	10	65	95	16	3.8	2.4	1.1
MIN	.18	.22	.18	.18	.18	.24	7.9	17	4.1	2.4	1.1	.80
AC-FT	16	17	16	14	12	91	1410	2770	513	190	95	57

CAL YR 1977 TOTAL 214.15 MEAN .59 MAX 10 MIN .18 AC-FT 425
WTR YR 1978 TOTAL 2623.17 MEAN 7.19 MAX 95 MIN .18 AC-FT 5200

Table 3.--*Surface-water discharge at East Middle Fork Parachute Creek near Rio Blanco for water years 1977, 1978 and 1979*--Continued

PARACHUTE CREEK BASIN

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 ice effect, which are poor. Numerous beaver dams are located upstream. No regulation or diversion above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 186 ft³/s (5.27 m³/s) at 1530 May 17, gage height, 3.39 ft (1.033 m); minimum daily, 0.26 ft³/s (0.007 m³/s) Jan. 29.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.82	.99	.66	.28	.56	.65	2.2	50	32	6.0	6.0	1.8
2	.90	.99	.61	.28	.56	.66	2.3	56	28	5.2	5.0	1.8
3	.90	.98	.56	.46	.51	.82	2.6	59	26	6.0	5.0	1.7
4	.90	.97	.66	.61	.51	1.1	2.4	41	24	6.0	4.0	1.7
5	.90	.96	.66	.61	.52	.99	3.6	40	23	6.2	4.0	1.6
6	.90	.95	.66	.61	.52	.99	5.9	53	22	6.0	3.5	1.6
7	.90	.94	.51	.51	.53	1.1	8.3	96	21	6.2	3.5	1.5
8	.90	.93	.28	.40	.53	1.2	9.4	96	21	6.2	3.3	1.5
9	.82	.92	.40	.51	.54	1.4	11	90	18	5.7	3.3	1.4
10	.82	.90	.46	.56	.55	1.5	11	81	16	5.0	3.1	1.3
11	.82	1.1	.46	.56	.55	2.5	10	74	15	5.0	3.1	1.6
12	.82	1.2	.51	.56	.56	3.4	9.4	72	14	5.0	3.1	1.6
13	.82	.99	.51	.56	.56	3.4	9.1	66	14	5.0	2.9	1.6
14	.82	.99	.56	.56	.57	2.3	10	87	14	4.7	2.6	1.5
15	.82	.90	.56	.61	.58	2.7	13	110	14	4.7	2.4	1.5
16	.82	.77	.51	.61	.58	2.8	19	131	12	4.4	2.4	1.5
17	.77	.77	.56	.61	.59	2.8	29	150	12	4.7	2.3	1.5
18	.82	.61	.56	.56	.59	2.8	32	149	11	5.0	2.3	1.5
19	.82	.66	.61	.56	.60	2.7	33	149	10	5.2	2.2	1.5
20	.82	.72	.72	.55	.61	2.8	28	129	10	5.0	2.2	1.4
21	.82	.72	.72	.54	.61	2.6	30	128	9.7	4.7	2.2	1.4
22	.82	.72	.72	.53	.62	2.5	32	120	8.7	5.0	2.2	1.4
23	.90	.72	.72	.51	.62	1.7	34	112	8.4	5.2	2.2	1.4
24	.90	.66	.72	.46	.63	2.0	36	114	7.7	5.2	2.1	1.4
25	.90	.72	.66	.51	.64	2.3	39	97	7.7	5.2	2.1	1.4
26	.90	.72	.61	.51	.64	2.4	40	86	7.4	5.2	2.1	1.3
27	.90	.70	.56	.28	.65	1.7	40	79	7.0	5.2	2.1	1.3
28	.90	.68	.56	.28	.65	2.0	42	63	7.0	6.0	2.0	1.3
29	.99	.66	.56	.26	---	1.8	41	53	6.2	6.4	2.0	1.3
30	.99	.66	.56	.28	---	2.0	43	46	6.0	6.4	1.9	1.3
31	.99	---	.42	.40	---	2.0	---	36	---	6.0	1.9	---
TOTAL	26.92	25.20	17.83	15.13	16.18	61.62	628.2	2713	432.8	168.7	89.0	44.6
MEAN	.87	.84	.58	.49	.58	1.99	20.9	87.5	14.4	5.44	2.87	1.49
MAX	.99	1.2	.72	.61	.65	3.4	43	150	32	6.4	6.0	1.8
MIN	.77	.61	.28	.26	.51	.66	2.2	36	6.0	4.4	1.9	1.3
AC-FT	53	50	35	30	32	122	1250	5380	858	335	177	88

CAL YR 1978 TOTAL 2668.60 MEAN 7.31 MAX 95 MIN .18 AC-FT 5290
WTR YR 1979 TOTAL 4239.18 MEAN 11.6 MAX 150 MIN .26 AC-FT 8410

Table 4.--*Surface-water discharge at East Fork Parachute Creek near Anvil Points for water years 1977, 1978 and 1979*
[From U.S. Geological Survey, 1978, 1979, 1980]

PARACHUTE CREEK BASIN

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 fair. No diversions or regulation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3.1 ft³/s (0.088 m³/s) Aug. 25, gage height, 1.60 ft (0.488 m); minimum daily, 0.07 ft³/s (0.002 m³/s) Aug. 9-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.96	.96	.74	.58	.59	.85	.81	1.7	.81	.30	.08	.21
2	1.0	.96	.73	.60	.60	.88	.81	1.4	.81	.30	.08	.17
3	1.0	.92	.70	.61	.62	.92	.77	1.4	.72	.26	.08	.21
4	.96	.91	.66	.62	.64	.93	.82	1.4	.72	.21	.08	.21
5	.94	.91	.66	.63	.66	.95	.83	1.3	.72	.26	.08	.21
6	.95	1.0	.66	.63	.68	.93	.88	1.3	.72	.21	.08	.21
7	.95	.91	.63	.63	.70	.88	.88	1.3	.62	.21	.08	.17
8	.94	.91	.60	.63	.70	.87	.88	1.2	.62	.21	.08	.17
9	.93	.91	.61	.62	.70	.87	.88	1.1	.62	.21	.07	.12
10	.89	1.0	.64	.62	.70	.87	.95	1.1	.62	.21	.07	.12
11	.89	1.0	.65	.62	.70	.81	.96	1.1	.52	.17	.07	.26
12	.89	1.1	.64	.63	.70	.78	1.0	1.1	.48	.17	.08	.43
13	.89	1.0	.62	.63	.70	.88	.96	1.1	.48	.12	.08	.39
14	.89	1.0	.65	.62	.70	.88	.96	1.2	.48	.12	.08	.30
15	.90	1.0	.65	.62	.70	.83	.95	1.4	.43	.12	.08	.43
16	.85	1.0	.64	.63	.71	.89	.90	1.4	.43	.12	.12	.34
17	.84	1.0	.64	.63	.71	.89	.95	1.2	.39	.12	.12	.26
18	.88	1.0	.64	.62	.72	.89	1.0	1.1	.39	.12	.21	.21
19	.90	.91	.62	.62	.72	.84	1.1	1.0	.34	.12	.26	.21
20	.90	.91	.61	.62	.72	.86	1.1	1.0	.34	.12	.34	.21
21	.89	.91	.53	.63	.73	.82	1.0	1.0	.34	.12	.39	.26
22	.85	.91	.50	.62	.73	.83	1.2	1.0	.34	.17	.39	.26
23	.84	.89	.53	.62	.77	.88	1.3	.91	.34	.17	.34	.30
24	.87	.87	.59	.61	.78	.83	1.4	.91	.34	.17	.34	.30
25	.91	.86	.67	.61	.80	.81	1.6	1.0	.34	.17	.72	.26
26	.93	.85	.64	.62	.82	.81	1.7	1.0	.34	.17	.39	.26
27	.93	.84	.61	.63	.81	.81	1.9	1.0	.34	.17	.52	.26
28	.87	.82	.59	.64	.81	.75	1.9	1.0	.34	.17	.39	.26
29	.88	.81	.58	.63	---	.64	1.9	.91	.34	.17	.30	.26
30	.92	.79	.58	.61	---	.70	1.7	.91	.34	.17	.21	.30
31	.96	---	.58	.60	---	.76	---	.91	---	.17	.26	---
TOTAL	28.20	27.86	19.39	19.23	19.92	26.14	33.99	35.35	14.66	5.50	6.47	7.56
MEAN	.91	.93	.63	.62	.71	.84	1.13	1.14	.49	.18	.21	.25
MAX	1.0	1.1	.74	.64	.82	.95	1.9	1.7	.81	.30	.72	.43
MIN	.84	.79	.50	.58	.59	.64	.77	.91	.34	.12	.07	.12
AC-FT	56	55	38	38	40	52	67	70	29	11	13	15

WTR YR 1977 TOTAL 244.27 MEAN .67 MAX 1.9 MIN .07 AC-FT 485

NOTE.--NO GAGE-HEIGHT RECORD OCT. 1 TO NOV. 4, NOV. 23 to FEB. 8, FEB. 9 TO APR. 26.

Table 4.--*Surface-water discharge at East Fork Parachute Creek near Anvil Points for water years 1977, 1978 and 1979*--Continued

PARACHUTE CREEK BASIN

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 and those for period of no gage-height record, which are fair. No diversions or regulation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 130 ft³/s (3.68 m³/s) at 0600 May 15, gage height, 2.94 ft (0.896 m); minimum daily, 0.17 ft³/s (0.005 m³/s) Sept. 7, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.29	.44	.40	.36	.38	.44	2.8	36	24	3.2	1.6	1.3
2	.29	.40	.40	.30	.38	.50	3.3	37	20	2.8	1.7	1.3
3	.29	.37	.40	.38	.38	.50	3.1	42	19	2.7	1.5	.52
4	.29	.41	.40	.38	.38	.50	3.1	45	19	2.6	1.3	.72
5	.29	.42	.40	.38	.38	.50	3.3	42	19	2.6	1.2	.72
6	.44	.43	.38	.38	.38	.50	3.3	36	17	2.8	1.2	.26
7	.85	.50	.38	.38	.38	.50	4.4	33	18	2.6	1.2	.17
8	.53	.49	.38	.38	.38	.50	5.6	29	16	2.4	1.2	.39
9	.42	.46	.38	.38	.38	.50	6.2	27	15	2.6	1.3	.26
10	.38	.46	.38	.38	.38	.60	4.1	26	14	2.6	1.4	.21
11	.36	.46	.38	.38	.38	.60	3.8	29	13	2.5	1.3	1.1
12	.33	.46	.38	.38	.38	.60	4.7	36	12	2.6	1.2	1.2
13	.33	.46	.38	.38	.38	.60	10	50	10	2.4	1.5	.72
14	.33	.46	.38	.38	.38	.60	13	80	9.4	2.2	2.0	.43
15	.33	.46	.38	.38	.38	.60	15	119	7.8	2.2	1.7	.30
16	.33	.46	.38	.38	.38	.60	16	113	7.3	2.4	1.4	.17
17	.33	.46	.38	.38	.36	.60	13	106	6.9	2.4	1.3	.21
18	.33	.46	.38	.38	.34	.70	11	84	6.5	2.2	1.3	.72
19	.33	.46	.38	.38	.36	.70	10	65	6.0	2.0	1.2	.72
20	.35	.46	.38	.38	.36	.70	11	62	6.4	2.0	1.3	1.1
21	.41	.40	.30	.38	.36	.70	14	64	5.6	1.7	1.3	1.0
22	.42	.40	.36	.38	.36	.70	13	64	5.0	1.8	1.5	1.0
23	.40	.40	.38	.38	.36	.73	11	64	4.1	1.7	1.3	1.2
24	.37	.40	.38	.38	.38	.80	14	53	4.1	1.6	1.3	1.2
25	.37	.40	.38	.38	.40	.80	19	50	3.7	1.7	1.3	1.2
26	.37	.40	.38	.38	.40	.90	27	43	3.8	1.7	1.3	1.2
27	.37	.40	.38	.36	.40	.90	37	36	3.6	1.4	1.2	1.3
28	.37	.40	.38	.34	.42	1.0	34	32	3.8	1.4	1.2	1.7
29	.38	.40	.38	.36	---	1.2	33	32	3.8	1.5	1.3	1.7
30	.46	.40	.38	.38	---	1.6	35	29	4.1	1.6	1.3	1.5
31	.50	---	.38	.38	---	2.0	---	27	---	1.4	1.3	---
TOTAL	11.84	12.98	11.78	11.60	10.58	22.67	383.7	1591	307.9	67.3	42.1	25.52
MEAN	.38	.43	.38	.37	.38	.73	12.8	51.3	10.3	2.17	1.36	.85
MAX	.85	.50	.40	.38	.42	2.0	37	119	24	3.2	2.0	1.7
MIN	.29	.37	.30	.30	.34	.44	2.8	26	3.6	1.4	1.2	.17
AC-FT	23	26	23	23	21	45	761	3160	611	133	84	51

CAL YR 1977 TOTAL 205.42 MEAN .56 MAX 1.9 MIN .07 AC-FT 407
WTR YR 1978 TOTAL 2498.97 MEAN 6.85 MAX 119 MIN .17 AC-FT 4960

NOTE.--NO GAGE-HEIGHT RECORD FEB. 17 TO APR. 13.

Table 4.--*Surface-water discharge at East Fork Parachute Creek near Anvil Points for water years 1977, 1978 and 1979*--Continued

PARACHUTE CREEK BASIN

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 and those for period of no gage-height record, which are fair. 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, 226 ft³/s (6.40 m³/s) at 0800 May 22, gage height, 3.60 ft (1.097 m); minimum daily, 0.39 ft³/s (0.011 m³/s) Jan. 31.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	.68	.78	.58	.42	.74	2.2	86	37	4.4	2.3	1.6
2	1.5	.68	.76	.51	.49	.73	2.2	93	32	4.6	2.3	1.4
3	1.4	.68	.69	.52	.56	.69	2.4	96	27	4.6	2.2	1.3
4	1.4	.68	.59	.55	.58	.66	2.6	89	23	4.3	2.1	1.2
5	1.3	.67	.58	.58	.56	.68	3.1	89	20	4.2	2.1	1.2
6	1.2	.67	.64	.61	.52	.72	3.7	104	15	4.2	2.1	1.2
7	1.2	.68	.54	.58	.51	.75	4.4	118	13	4.6	2.1	1.1
8	1.2	.68	.49	.53	.52	.82	5.3	110	13	4.3	1.9	1.1
9	1.1	.68	.46	.49	.54	.91	6.3	100	12	4.2	2.5	1.1
10	.99	.72	.45	.52	.56	.90	6.9	92	11	4.0	2.4	1.1
11	.91	.82	.46	.58	.60	.85	6.4	84	9.2	4.0	2.1	1.0
12	.91	1.5	.49	.63	.66	.86	5.9	83	8.2	4.2	2.1	1.0
13	.90	.90	.52	.64	.70	.90	6.6	88	7.3	4.3	2.1	1.0
14	.88	.78	.55	.58	.73	.95	9.6	97	6.8	4.1	2.3	1.0
15	.86	.72	.60	.55	.76	1.1	22	124	6.5	4.3	2.3	1.0
16	.83	.70	.60	.57	.76	1.0	35	170	6.3	4.0	3.0	1.0
17	.81	.70	.59	.62	.73	.98	43	156	5.8	3.8	2.7	1.0
18	.77	.68	.60	.68	.68	.93	50	165	5.6	3.8	2.5	1.0
19	.76	.66	.65	.74	.66	.94	45	170	6.1	3.7	2.9	1.0
20	.72	.65	.68	.72	.63	1.0	36	180	5.7	3.7	2.5	1.0
21	.71	.66	.66	.68	.67	.97	35	174	5.3	3.6	2.4	1.0
22	.69	.67	.60	.66	.76	.96	40	171	4.9	3.5	2.4	1.0
23	.68	.68	.58	.65	.76	1.0	50	143	4.6	3.3	2.0	1.0
24	.68	.70	.60	.62	.70	1.2	57	130	4.6	3.1	1.9	1.0
25	.67	.70	.58	.66	.66	1.3	55	115	4.7	3.3	1.7	.91
26	.67	.68	.53	.64	.68	1.4	53	105	4.3	3.1	1.7	.95
27	.67	.66	.51	.56	.71	1.5	55	95	4.3	2.9	1.7	1.1
28	.67	.66	.54	.50	.74	1.9	59	84	4.0	2.6	1.6	1.1
29	.67	.69	.58	.50	---	2.2	66	74	4.0	2.3	1.4	1.0
30	.68	.72	.63	.45	---	2.3	75	52	4.1	2.5	1.7	1.0
31	.69	---	.61	.39	---	2.3	---	42	---	2.5	1.8	---
TOTAL	28.62	21.75	18.14	18.09	17.85	34.14	843.6	3479	315.3	116.0	66.8	32.36
MEAN	.92	.73	.59	.58	.64	1.10	28.1	112	10.5	3.74	2.15	1.08
MAX	1.5	1.5	.78	.74	.76	2.3	75	180	37	4.6	3.0	1.6
MIN	.67	.65	.45	.39	.42	.66	2.2	42	4.0	2.3	1.4	.91
AC-FT	57	43	36	36	35	68	1670	6900	625	230	132	64

CAL YR 1978 TOTAL 2530.88 MEAN 6.93 MAX 119 MIN .17 AC-FT 5020
WTR YR 1979 TOTAL 4991.65 MEAN 13.7 MAX 180 MIN .39 AC-FT 9900

NOTE.--NO GAGE-HEIGHT RECORD DEC. 9 TO FEB. 25.

Table 5.--*Surface-water discharge at East Fork Parachute Creek near Rulison for water years 1977, 1978 and 1979*
[From U.S. Geological Survey, 1978, 1979, 1980]

PARACHUTE CREEK BASIN

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.

REMARKS.--Records fair except those for period of no gage-height record in April, which are poor. Peak may have occurred between Apr. 10-20. No regulation or diversions above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period November to September, 2.8 ft³/s (0.079 m³/s) Aug. 25, gage height, 1.98 ft (0.604 m); no flow most days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---		.00	.00	.00	.00	.00	.45	.00	.00	.00	.00
2	---		.00	.00	.00	.00	.00	.10	.00	.00	.00	.00
3	---		.00	.00	.00	.00	.00	.02	.00	.00	.00	.00
4	---		.00	.00	.00	.00	.00	.03	.00	.00	.00	.00
5	---		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	---		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	---		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	---		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	---		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	---		.00	.00	.00	.00	.10	.00	.00	.00	.00	.00
11	---		.00	.00	.00	.00	.30	.00	.00	.00	.00	.00
12	---		.00	.00	.00	.00	.50	.00	.00	.00	.00	.00
13	---		.00	.00	.00	.00	.49	.00	.00	.00	.00	.00
14	---		.00	.00	.00	.00	.41	.00	.00	.00	.00	.00
15	---		.00	.00	.00	.00	.31	.02	.00	.00	.00	.00
16	---		.00	.00	.00	.00	.26	.01	.00	.00	.00	.00
17	---		.00	.00	.00	.00	.28	.00	.00	.00	.00	.00
18	---		.00	.00	.00	.00	1.6	.00	.00	.00	.00	.00
19	---		.00	.00	.00	.00	1.9	.00	.00	.00	.00	.00
20	---		.00	.00	.00	.00	1.9	.00	.00	.00	.00	.00
21	.15		.00	.00	.00	.00	1.8	.00	.00	.00	.00	.00
22	---		.00	.00	.00	.00	1.6	.00	.00	.00	.00	.00
23	---		.00	.00	.00	.00	1.3	.00	.00	.00	.00	.00
24	---		.00	.00	.00	.00	1.2	.00	.00	.00	.00	.00
25	---		.00	.00	.00	.00	.76	.00	.00	.00	.53	.00
26	---		.00	.00	.00	.00	.54	.00	.00	.00	.20	.00
27	---		.00	.00	.00	.00	.58	.00	.00	.00	.34	.00
28	---		.00	.00	.00	.00	.90	.00	.00	.00	.17	.00
29	---		.00	.00	---	.00	.72	.00	.00	.00	.00	.00
30	---		.00	.00	---	.00	.81	.00	.00	.00	.00	.00
31	---		.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	---		.00	.00	.00	.00	18.26	.63	.00	.00	1.24	.00
MEAN	---		.000	.000	.000	.000	.61	.020	.000	.000	.040	.000
MAX	---		.00	.00	.00	.00	1.9	.45	.00	.00	.53	.00
MIN	---		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	---		.00	.00	.00	.00	36	1.2	.00	.00	2.5	.00

NOTE.--NO GAGE-HEIGHT RECORD DEC. 6 TO FEB. 4.

Table 5.--*Surface-water discharge at East Fork Parachute Creek near Rulison for water years 1977, 1978 and 1979*--Continued

PARACHUTE CREEK BASIN

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.

REMARKS.--Records good. No gage-height record Apr. 16, 17, and May 16, 17. No regulation or diversion above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 121 ft³/s (3.42 m³/s) at 1330 May 17, gage height, 3.49 ft (1.064 m), only peak above base of 100 ft³/s (3.43 m³/s); no flow part of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	16	47	22	4.2	1.7	.63
2	.00	.00	.00	.00	.00	.00	11	47	20	4.2	1.8	.63
3	.00	.00	.00	.00	.00	.00	9.0	57	18	4.0	1.5	.63
4	.00	.00	.00	.00	.00	.00	8.7	62	17	3.8	1.4	.60
5	.00	.00	.00	.00	.00	.00	9.2	51	18	3.5	1.3	.60
6	.00	.00	.00	.00	.00	.00	9.5	45	15	3.2	1.2	.60
7	.00	.00	.00	.00	.00	.00	10	42	14	3.2	1.2	.60
8	.00	.00	.00	.00	.00	.00	12	34	13	2.8	1.2	.74
9	.00	.00	.00	.00	.00	.00	13	32	12	2.8	1.2	.65
10	.00	.00	.00	.00	.00	.00	11	33	11	2.5	1.3	.60
11	.00	.00	.00	.00	.00	.00	12	35	10	2.8	1.4	.82
12	.00	.00	.00	.00	.00	.00	14	43	9.8	2.8	1.3	.82
13	.00	.00	.00	.00	.00	.00	16	58	9.2	2.3	1.5	.82
14	.00	.00	.00	.00	.00	.00	18	76	8.8	2.3	1.8	.82
15	.00	.00	.00	.00	.00	.00	18	79	8.5	2.4	1.8	.74
16	.00	.00	.00	.00	.00	.00	14	99	8.2	2.5	1.2	.74
17	.00	.00	.00	.00	.00	.00	12	107	8.0	2.4	1.2	.91
18	.00	.00	.00	.00	.00	.00	13	83	7.2	2.2	1.2	1.7
19	.00	.00	.00	.00	.00	.00	13	69	7.2	2.1	1.1	1.5
20	.00	.00	.00	.00	.00	.00	15	63	7.0	2.1	.99	1.3
21	.00	.00	.00	.00	.00	.00	16	62	6.8	2.0	1.1	1.2
22	.00	.00	.00	.00	.00	.00	14	60	6.2	1.9	1.2	.99
23	.00	.00	.00	.00	.00	.00	14	59	6.0	1.9	1.2	.91
24	.00	.00	.00	.00	.00	.00	17	58	5.8	1.9	.91	.82
25	.00	.00	.00	.00	.00	.00	18	42	5.2	2.0	.91	.74
26	.00	.00	.00	.00	.00	3.6	30	36	5.0	2.0	.91	.74
27	.00	.00	.00	.00	.00	11	41	33	4.8	2.0	.82	.74
28	.00	.00	.00	.00	.00	9.5	43	31	4.8	1.7	.82	.74
29	.00	.00	.00	.00	---	11	42	28	5.0	1.8	.82	.74
30	.00	.00	.00	.00	---	13	42	26	5.2	1.8	.65	.74
31	.00	---	.00	.00	---	16	---	24	---	1.7	.74	---
TOTAL	.00	.00	.00	.00	.00	64.10	531.4	1621	298.7	78.8	37.37	24.81
MEAN	.000	.000	.000	.000	.000	2.07	17.7	52.3	9.96	2.54	1.21	.83
MAX	.00	.00	.00	.00	.00	16	43	107	22	4.2	1.8	1.7
MIN	.00	.00	.00	.00	.00	.00	8.7	24	4.8	1.7	.65	.60
AC-FT	.00	.00	.00	.00	.00	127	1050	3220	592	156	74	49

CAL YR 1977 TOTAL 20.13 MEAN .055 MAX 1.9 MIN .00 AC-FT 40
WTR YR 1978 TOTAL 2656.18 MEAN 7.28 MAX 107 MIN .00 AC-FT 5270

Table 5.--*Surface-water discharge at East Fork Parachute Creek near Rulison for water years 1977, 1978 and 1979*--Continued

PARACHUTE CREEK BASIN

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.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 121 ft³/s (3.42 m³/s) May 17, gage height, 3.49 ft (1.064 m); no flow many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, not determined; minimum daily, 0.26 ft³/s (0.007 m³/s) Jan. 23.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.74	.34	.32	.40	.29	.30	3.5	56	42	8.0	2.2	1.8
2	.82	.34	.32	.43	.30	.30	3.2	55	36	7.9	2.0	1.7
3	.91	.34	.29	.43	.30	.29	3.0	54	33	7.7	1.9	1.6
4	.99	.34	.31	.40	.28	.28	3.5	51	31	7.5	1.8	1.6
5	.99	.32	.32	.45	.28	.30	4.0	42	29	7.2	1.8	1.6
6	.99	.32	.32	.50	.30	.32	4.5	52	27	7.2	1.7	1.5
7	.91	.32	.32	.53	.30	.34	5.5	71	25	7.2	1.7	1.5
8	.82	.32	.32	.40	.29	.40	6.5	66	24	6.6	1.7	1.4
9	.74	.32	.32	.38	.28	.44	9.2	59	20	6.0	1.8	1.5
10	.63	.33	.35	.43	.30	.40	11	52	18	5.6	1.9	1.5
11	.55	.34	.35	.43	.31	.40	11	40	16	5.6	2.0	1.4
12	.50	.52	.35	.43	.31	.45	13	35	14	5.3	1.9	1.4
13	.45	.45	.35	.42	.30	.48	9.2	41	13	5.1	1.8	1.3
14	.42	.37	.35	.40	.28	.50	4.8	50	12	5.0	1.8	1.3
15	.40	.35	.35	.40	.28	.58	9.0	73	13	4.7	1.9	1.3
16	.39	.33	.37	.40	.28	.55	18	107	14	4.7	1.9	1.3
17	.38	.32	.39	.40	.28	.52	24	143	13	4.7	2.0	1.2
18	.37	.33	.43	.43	.28	.48	32	168	13	4.7	2.1	1.2
19	.37	.35	.46	.43	.28	.45	42	190	12	4.7	2.0	1.2
20	.37	.36	.42	.40	.28	.47	30	212	12	4.5	1.8	1.2
21	.37	.36	.37	.28	.29	.50	22	220	11	4.2	2.0	1.1
22	.37	.36	.37	.31	.29	.65	28	202	10	4.0	1.9	1.1
23	.37	.36	.40	.26	.29	.85	37	198	10	4.0	1.8	1.1
24	.37	.36	.41	.30	.28	1.1	37	172	9.2	3.9	1.7	1.0
25	.37	.35	.39	.31	.29	1.4	37	160	9.0	3.8	1.6	.96
26	.36	.32	.42	.32	.30	1.8	35	142	9.3	3.5	1.5	.93
27	.34	.32	.45	.30	.30	2.2	34	118	9.8	3.3	1.5	.93
28	.34	.30	.48	.29	.29	2.3	36	100	8.6	3.1	1.4	.99
29	.34	.32	.45	.29	---	2.3	42	82	8.0	2.8	1.5	1.0
30	.34	.32	.45	.29	---	3.1	49	65	8.0	2.6	1.6	1.0
31	.34	---	.40	.29	---	3.8	---	52	---	2.4	1.7	---
TOTAL	16.65	10.38	11.60	11.73	8.13	28.25	603.9	3128	509.9	157.5	55.9	38.61
MEAN	.54	.35	.37	.38	.29	.91	20.1	101	17.0	5.08	1.80	1.29
MAX	.99	.52	.48	.53	.31	3.8	49	220	42	8.0	2.2	1.8
MIN	.34	.30	.29	.26	.28	.28	3.0	35	8.0	2.4	1.4	.93
AC-FT	33	21	23	23	16	56	1200	6200	1010	312	111	77

CAL YR 1978 TOTAL 2694.81 MEAN 7.38 MAX 107 MIN .00 AC-FT 5350
WTR YR 1979 TOTAL 4580.55 MEAN 12.5 MAX 220 MIN .26 AC-FT 9090

NOTE.--NO GAGE-HEIGHT RECORD OCT. 12 TO DEC. 12, JAN. 27 TO APR. 9, MAY 19 TO SEPT. 30.

Table 6.--*Surface-water discharge at Ben Good Creek near Rulison for water years 1977, 1978 and 1979*
[From U.S. Geological Survey, 1978, 1979, 1980]

PARACHUTE CREEK BASIN

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. No regulation or diversions above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period November to September, 1.4 ft³/s (0.040 m³/s) Apr. 9, gage height, 1.80 ft (0.549 m); maximum gage height, 2.35 ft (0.716 m) Apr. 8 (backwater from ice); no flow most days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2		---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3		---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4		---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5		---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6		---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7		---	.00	.00	.00	.00	.06	.00	.00	.00	.00	.00
8		---	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00
9		---	.00	.00	.00	.00	.23	.00	.00	.00	.00	.00
10		---	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00
11		---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12		---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13		---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14		---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15		---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16		---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17		---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18		---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19		.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20		.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21		.13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22		.19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23		.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24		.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25		.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26		.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27		.07	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29		.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30		.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31		---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL		---	.00	.00	.00	.00	.46	.00	.00	.00	.00	.00
MEAN		---	.000	.000	.000	.000	.015	.000	.000	.000	.000	.000
MAX		---	.00	.00	.00	.00	.23	.00	.00	.00	.00	.00
MIN		---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT		---	.00	.00	.00	.00	.9	.00	.00	.00	.00	.00

NOTE.--NO GAGE-HEIGHT RECORD NOV. 28 TO APR. 7.

Table 6.--*Surface-water discharge at Ben Good Creek near Rulison for water years 1977, 1978 and 1979*--Continued

PARACHUTE CREEK BASIN

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. No regulation or diversions above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8.5 ft³/s (0.241 m³/s) at 0800 May 16, 1978, gage height, 2.48 ft (0.756 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	2.2	1.1	.40	.22	.12
2	.00	.00	.00	.00	.00	.00	.00	2.2	1.0	.40	.19	.12
3	.00	.00	.00	.00	.00	.00	.00	2.4	.87	.40	.18	.12
4	.00	.00	.00	.00	.00	.00	.00	2.8	.87	.40	.17	.12
5	.00	.00	.00	.00	.00	.00	.00	2.7	1.0	.39	.17	.12
6	.00	.00	.00	.00	.00	.00	.00	2.6	.90	.38	.17	.12
7	.00	.00	.00	.00	.00	.00	.00	2.3	.69	.37	.17	.12
8	.00	.00	.00	.00	.00	.00	.00	2.1	.64	.36	.16	.12
9	.00	.00	.00	.00	.00	.00	.00	1.8	.56	.35	.16	.11
10	.00	.00	.00	.00	.00	.00	.00	1.7	.52	.35	.15	.11
11	.00	.00	.00	.00	.00	.00	.00	1.7	.52	.34	.15	.12
12	.00	.00	.00	.00	.00	.00	.00	2.1	.51	.37	.15	.12
13	.00	.00	.00	.00	.00	.00	.00	2.7	.48	.36	.16	.11
14	.00	.00	.00	.00	.00	.00	.00	3.7	.47	.35	.16	.11
15	.00	.00	.00	.00	.00	.00	.25	5.7	.45	.33	.15	.11
16	.00	.00	.00	.00	.00	.00	.49	7.0	.45	.33	.15	.11
17	.00	.00	.00	.00	.00	.00	.52	5.9	.44	.32	.15	.11
18	.00	.00	.00	.00	.00	.00	.44	4.4	.44	.30	.15	.12
19	.00	.00	.00	.00	.00	.00	.41	3.1	.45	.30	.15	.12
20	.00	.00	.00	.00	.00	.00	.42	3.0	.43	.30	.15	.12
21	.00	.00	.00	.00	.00	.00	.58	3.1	.37	.30	.14	.11
22	.00	.00	.00	.00	.00	.00	.64	3.0	.37	.27	.13	.11
23	.00	.00	.00	.00	.00	.00	.75	2.8	.37	.27	.13	.10
24	.00	.00	.00	.00	.00	.00	.76	2.8	.36	.25	.13	.10
25	.00	.00	.00	.00	.00	.00	.82	2.5	.36	.23	.12	.10
26	.00	.00	.00	.00	.00	.00	1.1	2.1	.36	.22	.12	.10
27	.00	.00	.00	.00	.00	.00	2.0	1.9	.35	.21	.12	.10
28	.00	.00	.00	.00	.00	.00	1.9	1.7	.34	.21	.12	.10
29	.00	.00	.00	.00	---	.00	2.0	1.6	.35	.21	.12	.10
30	.00	.00	.00	.00	---	.00	2.2	1.4	.35	.22	.12	.10
31	.00	---	.00	.00	---	.00	---	1.4	---	.22	.12	---
TOTAL	.00	.00	.00	.00	.00	.00	15.28	86.4	16.37	9.71	4.63	3.35
MEAN	.000	.000	.000	.000	.000	.000	.51	2.79	.55	.31	.15	.11
MAX	.00	.00	.00	.00	.00	.00	2.2	7.0	1.1	.40	.22	.12
MIN	.00	.00	.00	.00	.00	.00	.00	1.4	.34	.21	.12	.10
AC-FT	.00	.00	.00	.00	.00	.00	30	171	32	19	9.2	6.6

CAL YR 1977 TOTAL 0.46 MEAN .001 MAX .23 MIN .00 AC-FT .90
WTR YR 1978 TOTAL 135.74 MEAN .37 MAX 7.0 MIN .00 AC-FT 269

Table 6.--*Surface-water discharge at Ben Good Creek near Rulison for water years 1977, 1978 and 1979*--Continued

PARACHUTE CREEK BASIN

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 fair. No regulation or diversions above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12 ft³/s (0.34 m³/s) May 16, 1979, gage height, 2.69 ft (0.820 m); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12 ft³/s (0.34 m³/s) at 0200 May 16, gage height, 2.69 ft (0.820 m); no flow many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.09	.08	.03	.00	.00	.00	4.9	5.5	.87	.44	.30
2	.10	.09	.08	.03	.00	.00	.00	5.3	5.0	.81	.47	.30
3	.10	.09	.08	.03	.00	.00	.00	5.2	4.7	.81	.47	.29
4	.10	.10	.07	.03	.00	.00	.00	4.4	4.2	.81	.43	.27
5	.10	.10	.06	.02	.00	.00	.00	4.0	3.8	.80	.43	.27
6	.10	.10	.06	.02	.00	.00	.00	5.4	3.4	.80	.43	.27
7	.10	.10	.06	.02	.00	.00	.00	8.4	3.1	.80	.43	.27
8	.10	.10	.05	.02	.00	.00	.00	6.0	2.9	.80	.42	.29
9	.10	.10	.05	.02	.00	.00	.00	5.4	2.7	.78	.38	.27
10	.10	.10	.05	.02	.00	.00	.01	5.0	2.6	.76	.39	.27
11	.10	.11	.05	.02	.00	.00	.02	4.8	2.4	.74	.43	.27
12	.10	.13	.05	.02	.00	.00	.01	4.6	2.3	.72	.40	.27
13	.10	.11	.05	.02	.00	.00	.02	4.4	2.2	.66	.39	.27
14	.10	.11	.05	.02	.00	.00	.05	6.4	2.0	.62	.38	.26
15	.10	.11	.05	.02	.00	.00	.12	9.4	1.9	.58	.38	.23
16	.10	.10	.05	.02	.00	.00	.19	10	1.7	.62	.39	.23
17	.10	.10	.05	.02	.00	.00	.30	11	1.6	.61	.39	.23
18	.10	.10	.05	.02	.00	.00	2.1	11	1.5	.55	.39	.22
19	.10	.09	.04	.02	.00	.00	3.9	10	1.4	.52	.39	.22
20	.10	.09	.04	.01	.00	.00	2.7	10	1.3	.50	.39	.22
21	.10	.07	.04	.01	.00	.00	2.6	11	1.3	.49	.41	.23
22	.10	.08	.04	.00	.00	.00	3.2	11	1.2	.50	.37	.23
23	.10	.08	.04	.00	.00	.00	3.9	11	1.2	.52	.34	.23
24	.10	.08	.04	.00	.00	.00	4.6	11	1.1	.53	.33	.22
25	.10	.08	.04	.00	.00	.00	4.3	11	1.1	.49	.30	.22
26	.10	.08	.04	.00	.00	.00	4.0	10	1.0	.47	.30	.22
27	.10	.08	.04	.00	.00	.00	3.6	9.2	.88	.46	.34	.22
28	.10	.08	.04	.00	.00	.00	3.7	8.8	.83	.46	.33	.22
29	.09	.08	.04	.00	---	.00	4.1	8.0	.80	.46	.30	.22
30	.09	.08	.04	.00	---	.00	4.4	7.2	.84	.46	.33	.22
31	.09	---	.04	.00	---	.00	---	6.3	---	.46	.33	---
TOTAL	3.07	2.81	1.56	.44	.00	.00	47.82	240.1	66.45	19.46	11.90	7.45
MEAN	.099	.094	.050	.014	.000	.000	1.59	7.75	2.22	.63	.38	.25
MAX	.10	.13	.08	.03	.00	.00	4.6	11	5.5	.87	.47	.30
MIN	.09	.07	.04	.00	.00	.00	.00	4.0	.80	.46	.30	.22
AC-FT	6.1	5.6	3.1	.9	.00	.00	95	476	132	39	24	15

CAL YR 1978 TOTAL 143.18 MEAN .39 MAX 7.0 MIN .00 AC-FT 284
WTR YR 1979 TOTAL 401.06 MEAN 1.10 MAX 11 MIN .00 AC-FT 796

NOTE.--NO GAGE-HEIGHT RECORD DEC. 2 TO APR. 9, MAY 27 TO JULY 23, JULY 31 TO AUG. 20.

Table 7.--*Water-quality data for Northwater Creek near Anvil Points*
[October 1976-September 1979 data from U.S. Geological Survey, 1978, 1979, 1980]

09092830 Northwater Creek near Anvil Points, CO

Water-quality data, water year October 1975 to September 1976

DATE	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	ALKALINITY (MG/L AS CACO3)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
FEB 09...	.0	.54	480	8.1	4.2	272	332	0	.42	.03

DATE	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	SODIUM PERCENT	POTASSIUM, DISSOLVED (MG/L AS K)	CHLORIDE, DISSOLVED (MG/L AS CL)
FEB 09...	.01	230	0	57	22	33	.9	24	.5	3.6

DATE	SULFATE DISSOLVED (MG/L AS SO4)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
FEB 09...	37	.2	14	2	0	40	0	0	30	2

DATE	MANGANESE, DISSOLVED (UG/L AS MN)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)	LITHIUM DISSOLVED (UG/L AS LI)	SELENIUM, DISSOLVED (UG/L AS SE)	SOLIDS SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS DISSOLVED (TONS PER DAY)	SOLIDS, DISSOLVED (TONS PER AC-FT)	MERCURY DISSOLVED (UG/L AS HG)
FEB 09...	10	910	10	10	1	334	.49	.45	.0

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

PARACHUTE CREEK BASIN

09092830 NORTHWATER CREEK NEAR ANVIL POINTS, CO

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
NOV												
18...	1200	.60	510	8.5	4.0	240	0	57	23	34	1.0	.5
DEC												
20...	1220	.45	520	8.0	.0	230	15	55	22	32	.9	.7
JAN												
14...	1430	.45	500	8.0	.5	230	0	56	22	34	1.0	.6
APR												
12...	1330	1.6	380	8.1	2.0	170	0	42	16	27	.9	.6
MAY												
17...	1130	.89	450	8.3	8.5	210	0	52	18	32	1.0	.8
JUN												
29...	1300	--	490	8.3	1.0	220	0	55	20	39	1.1	.9
JUL												
25...	1200	.40	530	--	--	220	0	55	20	37	1.1	1.0
AUG												
17...	1400	.29	530	8.2	17.0	220	0	56	20	34	1.0	.8

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)
NOV											
18...	302	6	258	37	1.8	.2	14	326	.53	4	0
DEC											
20...	261	0	214	35	1.7	.2	14	292	.35	3	100
JAN											
14...	325	0	267	37	1.8	.2	15	330	.40	4	100
APR											
12...	240	0	200	31	3.8	.2	13	255	1.10	3	0
MAY											
17...	290	0	240	31	1.9	.2	13	294	.71	4	100
JUN											
29...	320	0	262	32	1.7	.2	16	324	--	5	100
JUL											
25...	330	--	270	33	1.7	.2	17	329	.36	4	200
AUG											
17...	330	0	270	36	1.7	.2	17	330	.26	7	400

DATE	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
NOV											
18...	50	1	1	20	0	0	20	.0	1	900	10
DEC											
20...	40	1	2	10	2	10	20	.2	1	860	20
JAN											
14...	40	0	1	30	2	10	10	.0	1	900	10
APR											
12...	50	1	1	40	1	10	0	.0	1	660	0
MAY											
17...	50	1	6	30	3	0	0	.0	0	770	10
JUN											
29...	70	1	3	40	3	3	0	.0	0	870	0
JUL											
25...	70	0	3	70	5	4	20	.0	1	930	0
AUG											
17...	70	1	2	20	5	6	10	.0	0	910	4

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

PARACHUTE CREEK BASIN

09092830 NORTHWATER CREEK NEAR ANVIL POINTS, CO

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (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...	1330	.42	490	8.1	7.5	--	240	0	56	23	37	1.1
NOV												
16...	1300	.31	540	8.1	3.0	--	240	0	57	23	36	1.0
MAR												
16...	1500	.32	500	7.9	2.0	11.0	230	0	56	22	33	.9
JUN												
21...	1400	3.5	466	7.9	15.0	--	210	0	52	19	30	.9
JUL												
13...	1400	2.0	510	8.6	12.0	--	230	0	54	22	32	.9
31...	1315	.72	520	8.1	13.0	--	230	0	58	21	33	.9
SEP												
12...	1215	1.0	540	7.2	8.0	--	230	0	57	22	33	.9

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	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)	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												
09...	.8	330	0	270	38	3.9	.2	16	339	.02	.00	4
NOV												
16...	.6	330	0	270	35	2.0	.2	15	334	.12	.04	4
MAR												
16...	.6	310	0	250	33	1.7	.2	13	314	--	--	3
JUN												
21...	.7	290	0	240	28	1.6	.2	16	292	.12	.03	6
JUL												
13...	1.0	290	12	260	29	2.2	.2	17	315	.19	.02	6
31...	1.1	310	0	250	31	2.4	.2	16	318	.30	.02	6
SEP												
12...	.7	320	0	260	35	2.0	.2	17	326	.01	.02	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...	0	70	0	2	40	1	2	8	.0	0	950	10
NOV												
16...	600	70	0	1	30	0	2	8	.0	0	990	8
MAR												
16...	100	50	1	2	40	1	3	10	.0	1	940	10
JUN												
21...	300	50	1	1	20	1	7	0	.0	1	800	5
JUL												
13...	200	60	3	3	40	20	5	0	.0	0	960	0
31...	200	70	1	5	20	6	6	10	.0	0	930	10
SEP												
12...	300	10	2	1	20	0	5	0	.0	0	960	10

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

PARACHUTE CREEK BASIN

09092830 NORTHWATER CREEK NEAR ANVIL POINTS, CO

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (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)
OCT										
02...	1445	.71	480	8.3	12.0	--	230	0	55	21
NOV										
20...	1400	.72	524	8.1	1.0	--	230	0	55	22
DEC										
07...	1535	.47	542	8.0	.0	--	240	0	58	23
JAN										
30...	1510	.26	697	7.9	.0	--	290	--	72	27
FEB										
28...	1415	.82	550	7.7	3.0	--	240	0	60	22
APR										
25...	1100	17	427	8.0	4.0	--	200	7	45	20
MAY										
16...	1100	92	380	7.9	7.0	--	170	0	43	14
JUN										
18...	1340	6.5	440	8.2	6.0	--	210	0	52	18
JUL										
12...	1530	2.9	480	8.6	18.5	7.1	200	0	49	18
AUG										
13...	1030	1.7	520	8.5	14.0	7.7	220	0	53	20
SEP										
10...	1110	1.1	540	8.0	12.5	8.9	220	0	53	20

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
OCT										
02...	35	1.0	.7	310	0	250	41	2.4	.2	16
NOV										
20...	38	1.1	.6	320	0	260	36	2.2	.2	15
DEC										
07...	38	1.1	.7	330	0	270	39	2.4	.2	16
JAN										
30...	49	1.3	.8	--	0	--	48	3.0	.2	19
FEB										
28...	36	1.0	.4	320	0	260	37	2.0	.2	13
APR										
25...	51	1.6	.9	230	0	190	91	5.5	.2	17
MAY										
16...	26	.9	1.0	260	0	210	23	2.3	.1	15
JUN										
18...	29	.9	.6	280	0	230	30	2.0	.2	14
JUL										
12...	31	1.0	.9	280	1	230	33	1.9	.3	15
AUG										
13...	33	1.0	.8	300	0	250	37	1.8	.3	17
SEP										
10...	34	1.0	.6	--	--	250	38	1.6	.2	17

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

PARACHUTE CREEK BASIN

09092830 NORTHWATER CREEK NEAR ANVIL POINTS, CO

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	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)	BARIUM, DIS-SOLVED (UG/L AS BA)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)
OCT									
02...	326	.44	.63	.05	.04	5	0	120	2
NOV									
20...	329	.45	.64	.26	.04	4	90	70	<1
DEC									
07...	343	.47	.44	.30	.04	4	90	70	<1
JAN									
30...	--	.50	--	.38	.38	6	100	60	2
FEB									
28...	330	.45	.73	.09	.00	3	0	80	0
APR									
25...	351	.48	16.1	1.4	.03	3	90	60	<1
MAY									
16...	260	.35	64.6	1.6	.00	3	100	30	0
JUN									
18...	287	.39	5.04	.47	--	4	100	50	0
JUL									
12...	289	.39	2.26	.01	.03	4	70	50	3
AUG									
13...	312	.42	1.43	.00	.01	4	90	60	<1
SEP									
10...	316	.43	.94	.13	.04	4	90	50	<1

DATE	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...	1	20	13	9	0	.0	0	960	10
NOV									
20...	1	10	7	5	5	.0	1	840	7
DEC									
07...	0	10	8	6	5	.0	1	960	3
JAN									
30...	2	50	7	9	9	.0	1	1200	<3
FEB									
28...	0	310	10	5	20	.0	0	910	10
APR									
25...	3	20	3	8	3	.0	1	790	<3
MAY									
16...	0	0	0	5	0	.0	1	630	10
JUN									
18...	0	10	0	0	0	1.8	1	810	10
JUL									
12...	1	10	0	5	4	.0	0	810	<3
AUG									
13...	2	10	8	6	5	.9	0	920	<3
SEP									
10...	14	10	2	9	5	.0	1	910	80

Table 8.--*Water-quality data for East Middle Fork Parachute Creek near Rio Blanco*
[October 1976-September 1979 data from U.S. Geological Survey, 1978, 1979, 1980]

09092850 East Middle Fork Parachute Creek near Rio Blanco, CO

Water-quality data, water year October 1975 to September 1976

DATE	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	ALKALINITY (MG/L AS CACO3)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3	NITROGEN NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
FEB 09...	.0	.42	490	8.1	4.2	270	329	0	.39	.03

DATE	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	SODIUM PERCENT	POTASSIUM, DISSOLVED (MG/L AS K)	CHLORIDE, DISSOLVED (MG/L AS CL)
FEB 09...	.01	230	0	56	22	36	1.0	25	.6	3.8

DATE	SULFATE DISSOLVED (MG/L AS SO4)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
FEB 09...	45	.3	13	3	0	50	0	1	20	1

DATE	MANGANESE, DISSOLVED (UG/L AS MN)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)	LITHIUM DISSOLVED (UG/L AS LI)	SELENIUM, DISSOLVED (UG/L AS SE)	SOLIDS SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS DISSOLVED (TONS PER DAY)	SOLIDS, DISSOLVED (TONS PER AC-FT)	MERCURY DISSOLVED (UG/L AS HG)
FEB 09...	10	830	10	10	1	342	.39	.47	.0

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

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.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 615 micromhos Dec. 18; minimum, 262 micromhos Mar. 23.
WATER TEMPERATURES: Maximum, 24.5°C July 18, Aug. 9, 14; minimum, 0.0°C many days during November to May.
WATER TEMPERATURES: Maximum, 13.0°C Aug. 25; minimum, 0.0°C several days during the year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
NOV												
18...	1115	--	570	8.3	2.5	230	0	57	22	38	1.1	.7
DEC												
20...	1115	--	550	7.9	.0	230	0	56	22	37	1.1	.7
JAN												
14...	1300	.36	540	8.0	.0	240	0	55	25	37	1.0	.7
APR												
12...	1100	1.9	400	8.1	2.5	180	0	43	17	29	.9	.7
MAY												
17...	1030	1.5	450	8.3	8.0	200	0	50	19	35	1.1	.7
JUN												
29...	1145	--	470	8.1	16.0	230	0	56	21	42	1.2	1.0
JUL												
25...	1000	.70	554	--	15.0	220	0	52	21	41	1.2	1.0
AUG												
17...	1200	.28	530	8.2	16.0	230	0	57	20	42	1.2	1.1

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)
NOV											
18...	327	0	268	44	2.7	.3	15	343	--	4	0
DEC											
20...	294	0	241	39	2.0	.2	15	319	--	2	100
JAN											
14...	330	0	271	41	2.2	.3	14	341	.33	6	0
APR											
12...	250	0	210	36	2.0	.3	13	269	1.44	4	0
MAY											
17...	280	0	230	35	1.8	.2	13	294	1.22	4	0
JUN											
29...	320	0	260	36	2.0	.3	15	332	--	5	100
JUL											
25...	330	--	270	36	2.0	.3	17	335	.63	4	300
AUG											
17...	350	0	290	42	2.1	.3	17	356	.27	4	400

DATE	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
NOV											
18...	90	1	1	10	1	10	10	.0	1	840	10
DEC											
20...	50	1	3	30	3	10	10	.0	1	830	20
JAN											
14...	50	0	1	30	0	10	10	.0	1	860	20
APR											
12...	40	0	1	60	2	10	10	.0	1	640	10
MAY											
17...	70	1	3	40	3	0	10	.0	0	700	9
JUN											
29...	70	1	2	30	1	4	4	.0	2	800	0
JUL											
25...	90	2	2	100	20	4	10	.0	0	890	0
AUG											
17...	90	1	0	10	3	6	8	.0	0	830	2

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

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 CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 603 micromhos Nov. 17; minimum, 301 micromhos Apr. 3.
WATER TEMPERATURES: Maximum, 24.5°C July 18; minimum, freezing point on many days during November to April.
SEDIMENT CONCENTRATIONS: Maximum daily, 1,540 mg/L Apr. 27; minimum daily, 5 mg/L on many days during year.
SEDIMENT LOADS: Maximum daily, 247 tons (224 t) Apr. 27; minimum daily, less than 0.005 ton (0.005 t) estimated, on many days during year.

REVISIONS.--Daily water temperatures for 1977 water year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (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												
10...	0930	.34	530	8.2	6.5	--	240	0	58	24	39	1.1
NOV												
16...	1100	.20	520	8.2	3.0	--	250	0	58	24	43	1.2
MAR												
16...	1320	.32	500	7.9	2.5	11.0	220	0	50	24	35	1.0
JUN												
21...	1200	5.5	482	8.0	15.0	--	210	0	52	20	33	1.0
JUL												
13...	1200	3.2	537	8.5	11.5	--	230	0	56	21	34	1.0
31...	1015	2.2	542	8.2	13.0	--	230	0	56	22	36	1.0
SEP												
12...	0950	1.1	552	8.0	8.0	--	230	0	56	22	35	1.0

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	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)	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												
10...	1.0	340	0	280	44	2.5	.3	17	355	.08	.02	3
NOV												
16...	.9	350	0	290	38	2.1	.4	16	357	.06	.02	4
MAR												
16...	.7	310	0	250	41	2.0	.3	13	321	.22	.04	3
JUN												
21...	.7	290	0	240	43	2.9	.2	15	312	.19	.02	6
JUL												
13...	1.1	310	0	250	33	2.8	.2	17	320	.18	.02	6
31...	1.1	310	0	250	38	2.9	.2	16	334	1.7	.01	6
SEP												
12...	.9	320	0	260	39	2.2	.2	17	332	.14	.04	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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

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												
10...	100	80	2	2	40	10	2	10	.0	0	880	0
NOV												
16...	500	80	1	4	100	1	4	8	.0	0	930	20
MAR												
16...	100	50	2	3	0	7	7	0	.0	1	780	10
JUN												
21...	200	60	1	3	30	2	9	0	.0	1	780	5
JUL												
13...	200	60	2	3	20	6	5	10	.0	0	920	10
31...	200	100	0	0	20	0	6	10	.0	0	880	10
SEP												
12...	300	50	1	2	30	0	5	0	.0	0	870	20

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

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 April 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.
SEDIMENT CONCENTRATIONS: Maximum daily, 5,360 mg/L May 16, 1979; minimum daily, 2 mg/L Nov. 20.
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, 584 micromhos Oct. 20; minimum, 339 micromhos Apr. 22.
WATER TEMPERATURES: Maximum, 22.0°C July 16; minimum, freezing point on many days during November to May.
SEDIMENT CONCENTRATIONS: Maximum daily, 5,360 mg/L May 16; minimum daily, 2 mg/L Nov. 20.
SEDIMENT LOADS: Maximum daily, 1,980 tons (1,800 t) May 16; minimum daily, less than 0.005 ton (0.005 t) several days during year.

REMARKS.--Daily Sediment data for 1977 water year published in this volume.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (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)
OCT 02...	1225	.85	557	8.2	8.0	--	230	0	57	22
NOV 20...	1200	.72	560	8.1	2.0	--	220	0	54	21
DEC 07...	1330	.51	520	8.1	.5	--	250	0	59	24
JAN 30...	1600	.69	510	7.8	.0	--	220	0	53	22
FEB 28...	1600	.68	550	7.3	1.0	--	230	0	57	22
APR 25...	1325	39	485	8.0	4.0	--	180	0	42	17
MAY 16...	1200	135	420	7.7	7.5	--	170	0	44	15
JUN 18...	1600	11	470	8.4	10.0	--	200	0	51	18
JUL 12...	1130	4.9	500	8.1	16.5	8.3	180	0	43	18
AUG 13...	1300	2.6	540	8.6	15.0	7.5	210	0	51	20
SEP 10...	1330	1.1	550	8.1	17.0	9.8	210	0	50	20

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
OCT 02...	37	1.1	.9	320	0	260	42	2.3	.2	16
NOV 20...	35	1.0	.6	320	0	260	43	2.5	.2	15
DEC 07...	41	1.1	.9	340	0	280	48	3.1	.2	16
JAN 30...	36	1.1	1.1	310	0	250	46	2.6	.2	15
FEB 28...	37	1.1	.6	310	0	250	43	2.2	.2	12
APR 25...	34	1.1	1.0	240	0	200	35	2.1	.2	17
MAY 16...	27	.9	1.4	220	0	180	26	2.6	.2	15
JUN 18...	30	.9	.7	270	0	220	36	2.1	.2	15
JUL 12...	33	1.1	1.0	290	0	240	38	2.2	.3	14
AUG 13...	35	1.1	1.0	280	13	250	43	2.3	.2	17
SEP 10...	37	1.1	1.4	--	--	250	46	2.0	.3	17

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	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)	BARIUM, DIS-SOLVED (UG/L AS BA)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)
OCT									
02...	337	.46	.77	.04	.04	5	100	110	1
NOV									
20...	331	.45	.64	.15	.04	4	80	60	<1
DEC									
07...	362	.49	.50	.16	.05	4	90	60	<1
JAN									
30...	331	.45	.62	.20	.00	4	80	70	2
FEB									
28...	329	.45	.60	.27	.00	4	0	60	0
APR									
25...	274	.37	29.1	1.5	.03	4	200	60	<1
MAY									
16...	248	.34	90.4	1.6	.00	4	100	30	0
JUN									
18...	289	.39	8.58	.42	--	6	200	40	1
JUL									
12...	294	.40	3.89	.03	.03	4	80	60	3
AUG									
13...	322	.44	2.26	.00	.03	4	90	60	<1
SEP									
10...	325	.44	.97	.03	.04	4	90	60	<1

DATE	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...	1	20	2	9	20	.0	0	680	10
NOV									
20...	0	10	7	5	6	.0	1	900	4
DEC									
07...	1	0	3	5	5	.0	1	900	<3
JAN									
30...	1	40	7	<4	5	.0	1	800	<3
FEB									
28...	0	0	0	7	20	.0	1	810	10
APR									
25...	4	30	2	5	6	.0	1	690	<3
MAY									
16...	0	0	0	5	10	.0	1	600	10
JUN									
18...	1	10	2	0	0	.0	1	700	20
JUL									
12...	2	10	1	5	2	.0	0	790	5
AUG									
13...	2	10	7	6	3	.2	0	790	<3
SEP									
10...	17	<10	3	9	6	.0	1	830	20

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

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	3.5	.0	10.0	3.5	20.0	6.0	22.5	8.5	23.5	8.5	21.5	10.0
2	2.5	.0	14.0	2.0	18.5	7.0	23.0	10.5	23.0	8.0	22.0	9.5
3	3.0	.0	8.5	2.5	20.0	7.0	22.5	10.0	22.0	9.0	21.0	10.0
4	4.5	.0	8.5	3.5	19.0	7.5	16.0	11.0	21.5	10.0	21.5	10.0
5	5.0	.0	13.0	1.5	19.0	8.0	19.5	10.0	22.0	11.5	23.5	9.5
6	5.0	.0	15.0	3.5	---	---	22.0	9.5	23.5	11.0	23.0	9.0
7	4.0	.0	15.0	.0	---	---	22.5	9.0	23.5	10.0	22.5	9.5
8	5.0	.0	15.0	.0	---	---	21.0	8.5	21.0	10.5	21.0	10.0
9	5.5	.0	14.0	.0	---	---	22.5	10.0	24.5	9.0	19.0	8.5
10	6.5	.0	11.0	.0	---	---	22.0	8.5	21.5	8.0	20.5	9.5
11	4.0	.0	13.5	.0	---	---	22.5	8.0	21.0	9.0	14.0	11.5
12	5.0	.0	11.5	.0	---	---	23.5	8.5	22.0	8.5	15.5	10.0
13	6.5	.0	11.5	4.0	---	---	21.5	10.0	22.5	8.5	15.5	8.0
14	8.0	.0	7.5	.0	---	---	23.5	9.5	24.5	9.0	18.0	8.0
15	4.0	.5	13.0	4.0	---	---	24.0	9.5	22.0	10.5	17.5	10.0
16	8.0	1.0	14.5	.0	---	---	21.0	9.5	20.5	11.5	17.0	8.5
17	10.0	2.0	14.0	7.0	---	---	23.5	9.5	17.0	12.5	15.0	8.0
18	10.5	1.0	13.5	3.5	---	---	24.5	10.0	19.5	11.5	16.5	6.5
19	2.5	1.5	14.5	2.0	---	---	19.5	11.5	17.5	10.5	15.0	7.0
20	8.5	.5	10.0	3.5	---	---	22.0	11.0	18.0	11.0	17.0	8.0
21	10.5	.0	13.0	2.0	---	---	19.0	11.5	20.0	11.0	14.0	8.0
22	11.5	.0	15.5	2.5	---	---	21.0	12.0	21.0	11.0	16.0	6.0
23	11.5	1.0	14.0	4.0	---	---	18.0	11.5	20.5	11.5	13.0	6.5
24	13.0	1.5	11.5	5.0	---	---	18.5	12.5	19.5	11.5	14.0	5.5
25	8.5	1.5	11.0	5.5	---	---	22.0	12.5	21.5	12.0	15.0	6.5
26	10.0	1.5	13.0	5.0	---	---	22.0	10.5	20.0	11.5	15.0	8.0
27	11.5	2.0	12.5	3.5	---	---	19.5	10.5	17.0	10.0	15.0	6.5
28	9.0	2.5	13.5	5.5	---	---	21.5	10.0	16.5	9.5	17.0	7.5
29	12.5	3.0	18.0	5.0	21.5	10.5	22.5	9.5	20.0	9.0	13.5	7.5
30	14.5	2.5	18.0	5.5	22.5	8.0	23.0	10.0	21.0	10.0	12.0	6.0
31	---	---	19.5	5.5	---	---	23.5	8.5	20.5	10.0	---	---

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

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	13.0	3.5	---	---	2.5	-0.5	.0	-0.5	3.0	-0.5	3.0	.5
2	13.5	4.0	---	---	4.5	1.5	1.0	-0.5	1.0	-0.5	4.5	-0.5
3	15.0	5.5	---	---	5.5	2.5	2.0	.5	2.0	-0.5	2.5	.0
4	14.0	6.5	---	---	4.5	2.0	2.0	1.0	1.5	-0.5	4.0	.0
5	14.5	8.5	---	---	1.5	-0.5	2.0	1.0	2.5	-0.5	3.0	.5
6	13.5	8.0	---	---	3.5	-0.5	2.0	.0	2.5	.5	3.0	.0
7	10.0	7.5	---	---	4.0	-0.5	1.0	-0.5	3.5	.5	5.0	-0.5
8	10.5	5.0	---	---	1.5	-0.5	1.0	-0.5	2.5	-0.5	4.5	.0
9	10.0	4.5	---	---	3.0	-0.5	2.0	.0	1.5	-0.5	4.0	.0
10	---	---	---	---	3.0	.0	2.5	1.0	3.5	.5	3.5	.0
11	---	---	---	---	3.0	-0.5	3.0	.5	2.5	-0.5	4.5	.0
12	---	---	---	---	3.5	-0.5	3.5	-0.5	3.0	-0.5	3.0	.0
13	---	---	---	---	2.0	-0.5	.5	-0.5	2.5	-0.5	4.0	.0
14	---	---	---	---	2.5	1.0	2.0	-0.5	2.0	-0.5	2.5	.0
15	---	---	---	---	3.5	-0.5	2.0	.0	1.5	-0.5	2.5	.0
16	---	---	5.0	1.5	2.0	-0.5	2.0	.0	1.0	-0.5	2.5	.0
17	---	---	5.5	1.0	2.5	-0.5	3.0	.5	.0	.0	4.0	.0
18	---	---	5.5	3.0	2.0	.0	3.0	-0.5	.0	-0.5	4.0	.0
19	---	---	3.5	-0.5	1.5	-0.5	2.5	-0.5	1.0	.0	3.0	.0
20	---	---	1.5	-0.5	.0	-0.5	2.5	.5	1.5	.0	4.5	.0
21	---	---	4.5	-0.5	1.0	-0.5	3.0	-0.5	1.5	.0	4.0	.0
22	---	---	5.0	1.0	1.5	.0	2.5	.0	2.0	-0.5	1.5	.0
23	---	---	4.5	1.0	2.0	.0	2.5	-0.5	2.0	-0.5	5.0	.0
24	---	---	4.5	1.0	2.0	.0	.5	-0.5	2.0	-0.5	4.0	.0
25	---	---	5.5	2.0	1.5	-0.5	.5	-0.5	2.0	.0	3.5	.0
26	---	---	6.0	1.5	1.5	-0.5	1.5	.0	3.0	.5	5.0	.0
27	---	---	3.5	1.0	2.0	.0	1.0	-0.5	2.5	-0.5	5.5	.0
28	---	---	3.5	.5	3.5	.5	.5	-0.5	3.0	-0.5	6.0	.5
29	---	---	4.0	-0.5	3.0	1.0	2.0	.0	---	---	7.0	.0
30	---	---	3.0	-0.5	3.5	-0.5	1.5	-0.5	---	---	7.0	.5
31	---	---	---	---	1.0	-0.5	2.0	-0.5	---	---	7.0	1.0
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	3.0	1.0	9.0	2.5	16.0	3.5	23.0	9.0	19.5	10.5	19.0	9.0
2	2.5	.0	11.5	2.5	14.0	5.0	22.5	8.0	21.0	10.0	18.0	9.0
3	5.0	.5	9.5	3.5	15.0	5.5	21.5	8.0	22.5	10.0	20.0	9.5
4	8.5	.5	8.0	3.0	13.5	7.0	22.0	7.5	22.0	9.0	19.5	9.5
5	7.0	1.0	6.0	2.5	12.5	6.0	---	---	22.0	8.5	20.0	10.0
6	9.0	1.5	9.0	2.0	18.5	4.5	---	---	21.0	9.0	20.0	10.0
7	9.0	2.0	8.0	2.0	14.5	6.0	---	---	22.5	10.5	19.5	11.0
8	9.5	2.5	8.5	2.5	17.0	5.5	---	---	21.0	10.0	17.5	9.5
9	5.5	1.0	13.0	1.0	19.5	6.0	---	---	20.0	11.0	17.5	9.0
10	8.5	.0	14.0	3.0	19.0	7.5	---	---	20.5	11.0	17.0	9.5
11	10.5	1.0	10.5	3.5	20.0	7.0	---	---	21.5	11.0	16.5	9.5
12	10.0	1.5	13.0	2.5	18.0	5.5	---	---	19.5	11.5	14.0	7.0
13	8.0	2.0	14.5	2.5	20.5	6.5	24.0	13.0	17.0	11.5	14.0	5.5
14	9.0	3.0	14.5	3.5	19.0	6.5	24.5	13.5	14.5	10.0	14.0	5.5
15	9.0	3.0	14.0	4.0	21.0	7.0	21.5	11.0	19.5	7.0	16.0	8.0
16	7.5	2.5	14.0	4.5	20.0	6.0	23.0	11.0	20.0	8.0	16.5	8.0
17	5.5	1.0	8.0	4.0	20.0	6.0	22.0	12.5	20.0	8.5	14.5	10.0
18	10.0	-0.5	12.0	2.0	18.5	5.5	24.5	11.0	18.0	8.5	10.0	7.5
19	10.5	.5	14.5	2.0	19.5	8.0	23.5	12.0	18.5	6.5	11.0	6.0
20	11.5	1.0	13.5	3.5	21.0	6.0	23.0	11.0	19.0	8.5	10.5	5.0
21	6.0	2.0	10.0	6.0	22.0	7.5	19.5	10.5	20.0	10.0	11.5	3.5
22	8.5	.0	14.0	4.0	22.0	8.0	23.0	8.5	18.5	12.0	13.0	5.0
23	11.0	1.5	14.0	3.5	22.5	8.5	23.0	9.0	20.0	10.0	14.0	6.0
24	11.0	.5	14.0	4.0	23.0	10.0	---	---	20.5	9.0	12.0	7.0
25	10.5	3.0	12.0	3.5	22.0	10.0	---	---	18.0	9.5	14.0	7.0
26	11.0	3.0	14.5	3.0	21.0	7.0	---	---	20.0	9.0	13.5	6.5
27	7.0	3.5	11.0	5.0	20.0	8.5	---	---	19.5	7.5	13.5	6.5
28	8.0	3.0	14.0	4.0	18.0	10.5	---	---	19.5	8.0	14.0	7.0
29	9.5	2.5	16.0	4.0	18.5	9.5	---	---	19.5	8.5	13.5	7.0
30	9.5	3.5	13.5	6.0	22.5	9.0	---	---	19.0	8.0	12.5	5.5
31	---	---	12.0	5.0	---	---	20.0	10.5	18.5	9.0	---	---

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

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

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	532	---	565	534	514	481	471	429	509	538	562	524
2	531	528	568	532	513	477	475	428	507	534	566	524
3	532	522	567	532	517	479	478	432	511	533	565	529
4	536	524	564	524	508	478	475	444	509	524	561	527
5	537	524	560	530	506	491	469	425	511	529	542	532
6	525	525	556	523	507	491	437	420	---	531	545	532
7	507	524	564	525	504	487	410	419	---	535	545	535
8	525	524	567	528	507	490	387	423	---	540	547	538
9	530	524	565	523	---	489	363	419	---	545	543	539
10	525	524	563	513	493	489	333	421	---	545	535	541
11	---	528	566	514	497	485	348	443	---	544	530	518
12	---	530	568	510	497	488	378	424	---	541	529	524
13	---	522	559	509	495	487	390	419	---	543	556	529
14	---	521	556	514	496	488	380	437	---	539	551	528
15	---	525	549	517	501	489	380	444	---	538	550	533
16	---	469	555	520	498	500	374	440	---	532	554	533
17	---	479	553	521	499	496	322	481	---	522	528	531
18	---	565	561	521	499	495	375	483	---	503	526	529
19	---	563	557	520	496	496	405	490	---	477	511	530
20	---	562	557	520	498	496	415	491	---	478	556	533
21	---	570	530	510	495	496	417	494	---	481	572	533
22	---	601	530	507	483	472	417	496	---	489	577	530
23	---	600	527	511	485	434	420	499	---	498	579	516
24	---	599	527	518	485	453	422	500	---	513	577	521
25	---	599	524	518	484	462	426	497	---	540	566	528
26	---	572	520	524	488	449	425	499	---	554	579	533
27	---	584	522	518	480	456	425	502	---	552	521	532
28	---	566	524	517	483	461	424	502	---	557	517	535
29	---	566	529	521	---	486	425	504	543	556	518	535
30	---	569	520	514	---	483	426	506	541	557	518	535
31	---	---	529	517	---	475	---	509	---	558	520	---

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C); WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	563	---	559	487	483	512	380	---	403	544	566	570
2	562	---	555	482	483	502	---	418	413	544	564	571
3	563	---	552	477	489	508	---	415	422	544	565	569
4	567	---	551	474	493	508	---	414	---	---	565	569
5	568	---	550	471	493	507	413	416	---	---	566	569
6	555	---	547	467	489	509	---	425	---	---	565	568
7	537	---	550	469	490	513	443	427	---	---	566	569
8	555	---	540	468	487	514	415	425	---	---	569	568
9	560	---	546	461	487	509	408	422	---	---	566	570
10	---	---	547	461	490	507	426	---	---	---	568	569
11	---	---	543	464	491	500	432	432	---	---	568	559
12	---	---	534	464	495	510	414	421	---	---	569	564
13	---	---	523	470	485	506	397	410	---	560	567	565
14	---	---	518	467	494	505	---	---	---	557	557	568
15	---	---	512	463	484	494	---	---	---	557	561	570
16	---	596	507	467	497	522	384	---	---	551	564	581
17	---	601	520	467	513	519	384	---	---	572	568	577
18	---	597	515	467	514	519	380	---	---	574	569	562
19	---	584	516	455	517	517	370	---	---	567	567	563
20	---	579	517	470	506	497	---	---	---	562	570	562
21	---	582	513	473	502	494	354	---	542	565	570	562
22	---	578	510	476	509	---	356	---	544	564	568	567
23	---	576	507	474	511	476	360	378	537	566	569	568
24	---	575	503	477	513	479	358	380	541	---	568	570
25	---	572	500	479	515	484	333	386	543	---	571	568
26	---	569	492	479	513	471	---	380	543	---	569	566
27	---	565	488	478	512	---	---	367	546	---	568	565
28	---	559	489	482	513	---	398	369	544	---	568	565
29	---	559	489	482	---	448	408	374	540	---	568	564
30	---	556	489	483	---	446	409	384	543	---	567	565
31	---	---	488	485	---	---	---	390	---	567	570	---

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	568		---	512	552	549	447	421	484	525	560
2	578	571		---	513	551	545	422	427	486	525	560
3	579	568		---	520	556	530	454	432	486	520	560
4	578	567		---	521	562	549	442	434	484	525	560
5	577	568		---	526	558	550	433	441	486	525	555
6	578	571		---	525	556	532	---	443	488	530	560
7	577	570		---	527	548	516	---	442	487	530	560
8	572	571		---	530	543	533	---	438	489	530	560
9	573	570		---	533	548	536	---	445	488	530	560
10	573	568		---	536	552	531	---	459	491	535	562
11	574	548		---	536	547	539	---	462	496	535	569
12	580	525		---	536	544	549	---	465	505	535	572
13	580	544		---	536	548	548	---	467	520	540	568
14	581	549		---	539	559	536	---	467	525	545	570
15	581	555		---	545	557	504	---	468	515	540	571
16	581	556		---	548	555	457	375	472	510	535	571
17	581	563		---	551	555	480	354	480	510	545	573
18	582	564		---	551	558	388	367	485	505	540	571
19	582	567		---	531	558	401	361	485	515	545	571
20	584	560		---	528	556	381	359	489	520	540	569
21	582	---		---	529	557	354	356	493	520	545	565
22	574	---		---	531	556	339	353	493	515	550	558
23	577	---		---	532	559	363	353	493	525	545	566
24	578	---		---	532	552	468	348	493	520	545	566
25	572	---		---	538	549	479	347	492	520	550	566
26	568	---		---	541	550	482	351	491	520	555	561
27	568	---		---	544	546	470	353	489	520	555	555
28	568	---		---	551	529	480	357	487	520	555	557
29	568	---		---	---	535	483	340	487	525	555	559
30	568	---		511	---	544	464	---	488	520	550	559
31	568	---		511	---	543	---	---	---	525	560	---

Table 9.--*Water-quality data for East Fork Parachute Creek near Anvil Points*
[October 1976-September 1979 data from U.S. Geological Survey, 1978, 1979, 1980]

09092960 East Fork Parachute Creek near Anvil Points, CO

Water-quality data, water year October 1975 to September 1976

DATE	TEMPERATURE (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	ALKALINITY (MG/L AS CACO3)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	NITROGEN NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
FEB 08...	.5	.86	480	8.1	4.3	280	341	0	.72	.00

DATE	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	SODIUM PERCENT	POTASSIUM, DISSOLVED (MG/L AS K)	CHLORIDE, DISSOLVED (MG/L AS CL)
FEB 08...	.00	260	0	65	24	21	.6	15	.6	6.0

DATE	SULFATE DISSOLVED (MG/L AS SO4)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
FEB 08...	30	.2	14	1	0	50	1	4	30	2

DATE	MANGANESE, DISSOLVED (UG/L AS MN)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)	LITHIUM DISSOLVED (UG/L AS LI)	SELENIUM, DISSOLVED (UG/L AS SE)	SOLIDS SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS DISSOLVED (TONS PER DAY)	SOLIDS, DISSOLVED (TONS PER AC-FT)	MERCURY DISSOLVED (UG/L AS HG)
FEB 08...	10	680	10	0	2	333	.77	.45	.0

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

PARACHUTE CREEK BASIN

09092960 EAST FORK PARACHUTE CREEK NEAR ANVIL POINTS, CO

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
DEC												
06...	1330	.91	680	7.9	1.5	9.8	280	0	66	27	22	.6
JAN												
13...	1400	.91	530	8.1	.0	--	280	0	65	28	22	.6
MAY												
10...	0945	1.0	468	8.1	5.5	7.2	230	0	58	20	20	.6
JUN												
08...	1130	.62	520	8.1	13.0	7.5	250	0	62	23	22	.6
JUL												
14...	1215	.12	570	8.4	15.0	7.6	260	0	64	25	26	.7
AUG												
17...	1045	.12	540	8.2	12.5	7.9	270	0	68	25	26	.7

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)
DEC												
06...	.8	354	0	290	26	1.9	.2	14	337	.82	6	200
JAN												
13...	.6	349	0	286	27	1.6	.2	15	336	.76	4	0
MAY												
10...	.5	290	0	240	21	.0	.2	15	279	--	3	0
JUN												
08...	1.0	340	0	279	26	1.5	.2	16	322	.23	4	100
JUL												
14...	.8	330	0	270	25	1.3	.2	17	323	--	3	0
AUG												
17...	1.1	370	0	300	28	4.3	.2	18	355	.05	4	300

DATE	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
DEC											
06...	50	1	4	40	3	0	10	.0	1	710	10
JAN											
13...	50	0	2	30	2	10	0	.0	1	720	20
MAY											
10...	60	1	2	10	1	0	5	.0	0	600	9
JUN											
08...	70	1	2	20	2	7	0	.0	1	690	10
JUL											
14...	80	1	1	40	4	6	4	.0	1	740	0
AUG											
17...	100	1	1	10	3	4	0	.0	0	760	10

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

PARACHUTE CREEK BASIN

09092960 EAST FORK PARACHUTE CREEK NEAR ANVIL POINTS, CO

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (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												
20...	1330	.38	510	8.2	6.5	10.0	280	0	67	26	25	.7
DEC												
19...	1400	.40	435	8.1	1.0	10.2	280	3	68	27	23	.6
MAY												
03...	1230	40	410	7.1	7.0	--	190	0	48	18	18	.6
JUN												
22...	1415	5.7	460	8.0	18.0	8.4	230	0	56	21	19	.6
JUL												
13...	1300	2.6	480	7.8	17.0	6.3	250	0	60	23	20	.6
AUG												
28...	1200	1.2	500	7.8	11.5	8.2	240	0	60	22	25	.7

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	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)	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												
20...	.8	350	0	290	28	1.6	.2	15	337	.05	.02	4
DEC												
19...	.6	340	0	280	34	1.7	.2	15	339	.25	.15	0
MAY												
03...	.7	250	0	210	21	1.8	.2	16	255	1.6	.00	3
JUN												
22...	.7	280	0	230	22	1.4	.2	15	275	.34	.02	4
JUL												
13...	.8	300	0	250	20	1.4	.2	16	292	.32	.02	5
AUG												
28...	.8	320	0	260	22	1.5	.2	16	307	.10	.03	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												
20...	100	70	0	1	20	1	0	0	.0	0	680	10
DEC												
19...	100	60	0	3	20	1	10	0	.0	1	680	20
MAY												
03...	0	40	0	2	40	2	0	10	.0	1	560	10
JUN												
22...	0	40	0	2	20	7	0	0	.0	0	600	20
JUL												
13...	200	50	2	2	20	1	0	0	.0	1	760	10
AUG												
28...	300	50	1	2	10	7	0	10	.0	1	800	10

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

PARACHUTE CREEK BASIN

09092960 EAST FORK PARACHUTE CREEK NEAR ANVIL POINTS, CO

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (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)
OCT										
10...	1400	1.1	550	7.9	7.0	9.6	250	0	62	23
MAY										
22...	1115	159	388	7.4	5.0	9.5	180	0	47	15
JUN										
14...	1145	6.6	480	8.3	11.0	--	210	0	52	19
JUL										
12...	1345	4.4	488	8.2	20.0	7.6	220	0	50	22
AUG										
16...	1100	2.6	480	7.8	13.0	7.2	230	0	57	22

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
OCT										
10...	23	.6	.6	320	0	260	27	1.1	.2	14
MAY										
22...	15	.5	.9	220	0	180	14	1.5	.2	15
JUN										
14...	12	.4	.6	260	--	210	22	1.4	.3	14
JUL										
12...	22	.7	.9	290	0	240	23	1.5	.2	16
AUG										
16...	22	.6	.9	300	0	250	28	1.4	.2	16

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	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)	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)
OCT									
10...	310	.92	.11	.03	4	0	50	1	1
MAY									
22...	225	96.6	1.6	.06	3	0	30	4	0
JUN									
14...	255	4.54	1.1	.01	3	100	30	1	0
JUL									
12...	280	3.33	.24	.01	3	80	40	5	0
AUG									
16...	297	2.09	.22	.03	3	90	50	<1	4

DATE	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)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
10...	20	3	10	0	.0	0	670	10	--
MAY									
22...	30	39	3	0	.0	1	440	10	--
JUN									
14...	10	0	0	0	.0	1	500	0	--
JUL									
12...	<0	21	<4	<1	.0	0	660	<3	--
AUG									
16...	10	4	<4	1	.0	1	680	<3	3.3

Table 10--*Water-quality data for East Fork Parachute Creek near Rulison*
[From U.S. Geological Survey, 1978, 1979, 1980]

PARACHUTE CREEK BASIN

09092970 EAST FORK PARACHUTE CREEK NEAR RULISON, CO

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.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 580 micromhos May 3; minimum, 180 micromhos Aug. 25.
WATER TEMPERATURES: Maximum, 13.0°C Aug. 25; minimum, 0.0°C several days during year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA+MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
APR												
21...	1445	1.7	390	8.0	4.0	9.3	190	0	45	18	19	.6
MAY												
03...	1230	.06	420	8.3	5.0	9.4	210	0	50	21	21	.6
SEP												
13...	1000	.40	530	8.1	9.0	--	280	0	69	25	24	.6

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)
APR												
21...	.9	240	0	200	23	1.9	.2	12	242	.63	3	100
MAY												
03...	1.1	270	0	220	28	2.0	.2	13	272	.22	4	200
SEP												
13...	.9	370	0	300	31	1.6	.2	18	353	.04	3	0

DATE	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
APR											
21...	50	1	10	30	0	0	0	.0	1	510	10
MAY											
03...	70	1	2	0	0	10	0	.0	1	560	10
SEP											
13...	80	1	1	60	4	4	10	.0	1	780	0

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

PARACHUTE CREEK BASIN

09092970 EAST FORK PARACHUTE CREEK NEAR RULISON, CO

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.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 500 micromhos June 15; minimum, 210 micromhos May 3.
WATER TEMPERATURES: Maximum, 15.5°C July 16, 17; minimum, not determined.
SEDIMENT CONCENTRATIONS: Maximum daily, 1,680 mg/L May 17; minimum daily, 6 mg/L Sept. 1.
SEDIMENT LOADS: Maximum daily, 485 tons (440 t) May 17; minimum daily, 0.01 ton (0.01 t) on many days during period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (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												
19...	1245	14	430	7.8	4.5	9.4	210	0	51	20	20	.6
MAY												
11...	1230	29	425	7.7	7.5	8.8	210	0	53	19	18	.5
JUN												
28...	1200	5.0	450	8.0	12.0	9.7	220	19	53	22	21	.6
JUL												
12...	1230	3.2	465	7.8	13.5	7.6	230	7	55	22	23	.7
AUG												
30...	1145	.65	480	7.7	9.0	8.6	230	18	56	22	25	.7

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	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)	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)
APR												
19...	.6	260	0	210	26	1.8	.1	13	267	1.3	.02	3
MAY												
11...	.6	270	0	220	22	1.6	.1	15	270	1.5	.04	3
JUN												
28...	.8	250	0	205	25	1.5	.2	11	259	.12	.01	5
JUL												
12...	.9	270	0	220	29	1.4	.2	16	284	.44	.02	5
AUG												
30...	.9	260	0	210	29	2.5	.2	16	281	.02	.02	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)
APR												
19...	100	40	0	2	70	0	6	0	.0	1	660	10
MAY												
11...	200	40	1	1	100	5	2	10	.0	0	580	0
JUN												
28...	100	50	2	2	20	6	4	0	.0	0	690	10
JUL												
12...	100	60	3	2	30	4	10	0	.0	0	760	20
AUG												
30...	300	70	2	3	20	8	2	0	.0	0	710	10

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

PARACHUTE CREEK BASIN

09092970 EAST FORK PARACHUTE CREEK NEAR RULISON, CO

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.--Water-quality monitor inoperative entire year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 580 micromhos May 3, 1977; minimum, 180 micromhos Aug. 25, 1977.
WATER TEMPERATURES: Maximum, 15.5°C July 16, 17, 1978; minimum, 0.0°C several days during year.
SEDIMENT CONCENTRATIONS: Maximum daily, 1,680 mg/L May 17, 1978; minimum daily, 6 mg/L Sept. 1, 1978.
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: Not determined.
WATER TEMPERATURES: Not determined.
SEDIMENT CONCENTRATIONS: Maximum daily, 1,680 mg/L May 17; minimum daily, 6 mg/L Sept. 1.
SEDIMENT LOADS: Maximum daily, 485 tons (440 t) May 17; minimum daily, 0.01 ton (0.01 t) on many days during period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (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)
OCT										
11...	1245	.58	520	7.8	4.5	9.8	240	0	57	23
NOV										
08...	1100	.34	675	7.6	.0	10.2	250	0	57	25
MAY										
05...	1215	37	410	8.4	6.0	--	180	0	43	17
JUN										
21...	1030	12	470	8.0	8.0	9.4	230	0	55	22
AUG										
20...	1115	2.2	440	7.9	10.0	8.8	230	0	54	22

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
OCT									
11...	25	.7	.8	300	0	250	29	1.7	.2
NOV									
08...	27	.8	.8	320	0	260	30	1.7	.2
MAY									
05...	22	.7	.6	230	--	190	20	1.8	.2
JUN									
21...	20	.6	.6	280	0	230	26	1.6	.2
AUG									
20...	25	.7	.8	290	0	240	31	1.4	.2

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

PARACHUTE CREEK BASIN

09092970 EAST FORK PARACHUTE CREEK NEAR RULISON, CO

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	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)	BARIUM, DIS-SOLVED (UG/L AS BA)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)
OCT									
11...	14	300	.47	.02	.02	4	0	80	2
NOV									
08...	14	315	.29	.04	.02	4	80	80	5
MAY									
05...	17	244	24.4	1.9	.03	4	70	0	1
JUN									
21...	14	282	9.14	.81	.05	3	0	90	1
AUG									
20...	16	295	1.75	.14	.05	4	80	50	10

DATE	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									
11...	1	30	2	0	0	.0	0	680	10
NOV									
08...	2	10	35	5	1	.0	1	690	5
MAY									
05...	0	10	10	4	1	.0	1	610	20
JUN									
21...	0	0	1	0	0	.0	1	420	10
AUG									
20...	4	<10	4	<4	<1	.0	0	720	<3

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

PARACHUTE CREEK BASIN

09092970 EAST FORK PARACHUTE CREEK NEAR RULISON, CO

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	6.5	2.0					---	---		
2	---	---	10.5	.5					---	---		
3	---	---	6.5	.0					---	---		
4	---	---	8.0	2.0					---	---		
5	---	---	---	---					---	---		
6	---	---	---	---					---	---		
7	---	---	---	---					---	---		
8	---	---	---	---					---	---		
9	---	---	---	---					---	---		
10	---	---	---	---					---	---		
11	---	---	---	---					---	---		
12	---	---	---	---					---	---		
13	---	---	---	---					---	---		
14	---	---	---	---					---	---		
15	---	---	---	---					---	---		
16	---	---	---	---					---	---		
17	---	---	---	---					---	---		
18	---	---	---	---					---	---		
19	---	---	---	---					---	---		
20	---	---	---	---					---	---		
21	---	.0	---	---					---	---		
22	5.0	.0	---	---					---	---		
23	5.5	.0	---	---					---	---		
24	6.0	.5	---	---					---	---		
25	5.5	.0	---	---					13.0	4.5		
26	5.5	.0	---	---					12.5	8.0		
27	8.0	.5	---	---					8.5	4.0		
28	5.0	.0	---	---					8.0	3.0		
29	7.5	1.0	---	---					---	---		
30	9.5	1.5	---	---					---	---		
31	---	---	---	---					---	---		

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

PARACHUTE CREEK BASIN

09092970 EAST FORK PARACHUTE CREEK NEAR RULISON, CO

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1			---	---	14.0	7.0	---	---	12.0	7.5		
2			---	---	12.5	7.5	---	---	11.5	7.0		
3			---	---	---	---	---	---	11.5	5.5		
4			---	---	---	---	---	---	11.0	5.5		
5			---	---	---	---	---	---	11.0	11.0		
6			---	---	---	---	---	---	11.0	5.0		
7			---	---	---	---	---	---	12.0	7.0		
8			---	---	---	---	---	---	12.5	6.5		
9			---	---	---	---	---	---	11.5	8.0		
10			---	---	---	---	---	---	11.0	7.0		
11			---	---	---	---	---	---	12.0	7.0		
12			---	---	---	---	14.5	7.0	11.0	7.5		
13			---	---	---	---	14.0	6.5	10.5	8.0		
14			---	---	---	---	13.5	7.0	8.5	6.5		
15			---	---	---	---	14.5	8.0	9.0	9.0		
16			---	---	---	---	15.5	10.5	9.5	9.5		
17			---	---	---	---	15.5	10.0	10.0	10.0		
18			12.5	6.5	---	---	15.0	9.5	8.0	8.0		
19			12.5	7.0	---	---	14.0	7.5	9.0	9.0		
20			12.5	5.0	---	---	13.0	8.5	10.0	10.0		
21			11.0	6.5	---	---	12.0	7.0	10.5	10.5		
22			---	---	---	---	12.0	5.0	10.5	10.5		
23			11.5	8.5	---	---	12.5	5.5	10.5	10.5		
24			12.5	5.0	---	---	12.5	5.5	---	---		
25			11.0	6.5	---	---	12.0	6.5	---	---		
26			---	---	---	---	12.5	7.0	---	---		
27			11.5	8.5	---	---	13.5	7.0	---	---		
28			12.5	8.0	---	---	12.5	7.5	---	---		
29			14.0	7.0	---	---	12.0	8.5	---	---		
30			13.5	8.5	---	---	13.0	8.0	---	---		
31			---	---	---	---	11.0	6.5	---	---		

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

PARACHUTE CREEK BASIN

09092970 EAST FORK PARACHUTE CREEK NEAR RULISON, CO

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---					---	---	---	---	
2	---	---	---					---	---	---	---	
3	---	---	---					---	---	---	---	
4	---	---	---					---	---	---	---	
5	---	---	---					---	---	---	---	
6	---	---	---					6.0	---	---	---	
7	---	---	---					---	---	---	---	
8	---	.0	---					---	---	---	---	
9	---	---	---					---	---	---	---	
10	---	---	---					---	---	---	---	
11	4.5	---	---					---	---	---	---	
12	---	---	---					---	---	---	---	
13	---	---	.0					---	---	---	---	
14	---	---	---					---	---	---	---	
15	---	---	---					---	---	---	---	
16	---	---	---					---	---	---	---	
17	---	---	---					---	---	---	---	
18	---	---	---					---	---	---	---	
19	---	---	---					---	---	---	---	
20	---	---	---					---	---	---	10.0	
21	---	---	---					---	8.0	---	---	
22	---	---	---					---	---	---	---	
23	---	---	---					---	---	---	---	
24	4.0	---	---					---	---	13.0	---	
25	---	---	---					---	---	---	---	
26	---	---	---					---	---	---	---	
27	---	---	---					---	---	---	---	
28	---	---	---					---	---	---	---	
29	---	---	---					---	---	---	---	
30	---	---	---					---	---	---	---	
31	---	---	---					---	---	---	---	

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

PARACHUTE CREEK BASIN

09092970 EAST FORK PARACHUTE CREEK NEAR RULISON, CO

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	404			---	
2							---	415			---	
3							---	426			---	
4							---	418			---	
5							---	---			---	
6							---	---			---	
7							---	---			---	
8							---	---			---	
9							---	---			---	
10							---	---			---	
11							---	---			---	
12							---	---			---	
13							---	---			---	
14							---	---			---	
15							---	351			---	
16							---	350			---	
17							---	---			---	
18							---	---			---	
19							---	---			---	
20							---	---			---	
21							371	---			---	
22							304	---			---	
23							293	---			---	
24							309	---			---	
25							326	---			408	
26							338	---			490	
27							348	---			461	
28							361	---			492	
29							375	---			---	
30							389	---			---	
31							---	---			---	

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

PARACHUTE CREEK BASIN

09092970 EAST FORK PARACHUTE CREEK NEAR RULISON, CO

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	403	396	385	440	470	460
2						---	419	356	390	440	472	460
3						---	425	384	390	445	472	465
4						---	431	414	395	445	472	460
5						---	429	429	400	450	474	460
6						---	427	444	400	460	476	450
7						---	425	427	395	460	470	460
8						---	429	423	395	466	469	470
9						---	326	400	400	462	474	480
10						---	316	363	400	462	474	460
11						---	342	378	410	459	471	480
12						---	355	370	410	465	469	470
13						---	365	368	413	471	466	470
14						---	411	402	433	471	469	480
15						---	410	407	456	470	470	480
16						---	393	417	450	468	474	490
17						---	394	395	440	469	472	490
18						---	392	387	430	469	472	480
19						---	437	413	420	469	468	485
20						---	444	404	421	467	464	490
21						---	441	408	435	468	462	495
22						---	447	427	447	467	470	490
23						---	437	444	453	467	468	485
24						---	430	443	456	467	470	480
25						---	419	430	454	468	465	480
26						456	408	438	457	469	460	490
27						454	401	463	459	469	465	490
28						432	398	465	412	467	470	490
29						429	398	465	420	466	475	490
30						424	399	470	430	467	480	490
31						421	---	475	---	466	479	---

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

PARACHUTE CREEK BASIN

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---							---	---	---	
2	---	---							---	---	---	
3	---	---							---	---	---	
4	---	---							---	---	---	
5	---	---							---	---	---	
6	---	---							---	---	---	
7	---	---							---	---	---	
8	---	675							---	---	---	
9	---	---							---	---	---	
10	---	---							---	---	---	
11	---	---							---	---	---	
12	520	---							---	---	---	
13	---	---							---	---	---	
14	---	---							---	---	---	
15	---	---							---	---	---	
16	---	---							---	---	---	
17	---	---							---	---	---	
18	---	---							---	---	---	
19	---	---							---	---	---	
20	---	---							---	---	440	
21	---	---							470	---	---	
22	---	---							---	---	---	
23	---	---							---	---	---	
24	---	---							---	455	---	
25	---	---							---	---	---	
26	---	---							---	---	---	
27	---	---							---	---	---	
28	---	---							---	---	---	
29	---	---							---	---	---	
30	---	---							---	---	---	
31	---	---							---	---	---	

Table 11.--*Water-quality data for Ben Good Creek near Rulison*
[October 1977-September 1979 data from U.S. Geological Survey, 1978, 1979, 1980]

PARACHUTE CREEK BASIN

09092980 BEN GOOD CREEK NEAR RULISON, CO

WATER-QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1976 to SEPTEMBER 1977

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
NOV		
19 ...	580	2.0

PERIOD OF RECORD.-- October 1977 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (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												
21...	1315	.53	535	7.8	5.0	9.4	260	0	57	27	47	1.3
MAY												
04...	1030	2.7	490	7.3	2.5	10.2	200	0	45	21	38	1.2
JUN												
28...	1400	.34	560	8.2	13.5	9.4	240	8	50	27	45	1.3
JUL												
12...	1430	.33	580	8.1	15.5	7.5	220	0	46	26	46	1.3

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	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)	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)
APR												
21...	.9	340	0	280	58	2.9	.5	17	384	1.0	.03	4
MAY												
04...	1.0	280	0	230	46	3.2	.3	17	318	1.6	.00	2
JUN												
28...	.8	280	0	230	56	4.4	.6	14	340	.54	.01	2
JUL												
12...	1.3	300	0	250	53	2.9	.6	19	347	.44	.03	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												
21...	400	70	1	2	30	2	10	0	.0	1	1500	20
MAY												
04...	0	50	0	2	60	0	0	0	.0	0	1200	10
JUN												
28...	200	100	3	2	10	10	20	5	.0	0	1400	10
JUL												
12...	200	100	3	2	10	2	20	0	.0	0	1500	10

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

PARACHUTE CREEK BASIN

09092980 BEN GOOD CREEK NEAR RULISON, CO

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1977 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (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)
MAY										
05...	1330	2.6	540	8.4	8.0	--	200	0	45	21
JUN										
26...	1130	1.0	640	8.1	11.0	9.4	250	0	49	30
JUL										
24...	1400	.52	620	8.1	16.5	9.4	240	0	48	29
AUG										
20...	1400	.32	590	8.0	12.5	--	220	0	43	28

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
MAY									
05...	44	1.4	1.0	290	--	240	49	3.6	.3
JUN									
26...	53	1.5	1.0	330	0	270	69	3.5	.5
JUL									
24...	49	1.4	1.2	310	0	250	68	3.2	.5
AUG									
20...	48	1.4	1.0	310	0	250	68	3.1	.5

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	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)	BARIUM, DIS-SOLVED (UG/L AS BA)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)
MAY									
05...	20	335	2.35	1.5	.02	3	90	50	7
JUN									
26...	19	393	1.06	.86	.00	1	90	60	2
JUL									
24...	19	375	.53	.61	.00	2	90	130	<1
AUG									
20...	20	368	.32	.42	.04	2	90	100	4

DATE	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)
MAY									
05...	0	0	130	10	<1	.1	1	1300	20
JUN									
26...	1	0	9	20	<1	.0	1	1500	<3
JUL									
24...	1	<0	0	20	<1	.0	1	1400	<3
AUG									
20...	4	<10	4	20	<1	.0	1	1400	<3

Table 12.--*Suspended-sediment data for Northwater Creek near Anvil Points*

PARACHUTE CREEK BASIN

09092830 NORTHWATER CREEK NEAR ANVIL POINTS, CO

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT				
09...	1345	.42	15	.02
NOV				
16...	1240	.25	10	.01
JUL				
31...	1315	.72	21	.04

Table 12.--*Suspended-sediment data for Northwater Creek near Anvil Points*--Continued

PARACHUTE CREEK BASIN

09092830 NORTHWATER CREEK NEAR ANVIL POINTS, CO

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUN				
18...	1500	6.2	61	1.0
AUG				
13...	1045	1.7	11	.05
SEP				
10...	1120	1.1	22	.07

Table 13.—*Suspended-sediment data for East Middle Fork Parachute Creek near Rio Blanco*
[From U.S. Geological Survey, 1978, 1979, 1980]

PARACHUTE CREEK BASIN

09092850 EAST MIDDLE FORK PARACHUTE CREEK NEAR RIO BLANCO, CO

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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	.58	---	.02	1.9	---	.04	.28	---	.03
2	.72	---	.02	1.6	10	.04	.28	---	.03
3	1.0	---	.03	1.5	---	.04	.29	---	.03
4	1.2	---	.03	1.5	---	.04	.32	---	.03
5	1.5	---	.03	1.5	---	.04	.33	---	.03
6	2.0	---	.03	1.6	---	.04	.38	---	.03
7	2.0	---	.03	1.6	---	.04	.41	---	.03
8	2.0	---	.03	1.5	---	.03	.44	---	.03
9	2.0	---	.03	1.6	---	.03	.50	---	.03
10	2.0	---	.04	1.6	---	.03	.54	---	.03
11	2.0	---	.04	1.6	---	.03	.58	---	.03
12	2.3	7	.04	1.5	---	.03	.64	---	.03
13	1.9	---	.04	1.4	---	.02	.68	---	.04
14	2.7	---	.04	1.5	---	.02	.70	---	.04
15	2.0	---	.04	1.8	---	.02	.68	---	.04
16	2.0	---	.04	1.5	---	.02	.68	---	.04
17	2.0	---	.04	1.4	5	.02	.66	---	.04
18	2.2	---	.04	.78	---	.02	.63	---	.04
19	2.3	---	.04	.62	---	.02	.61	---	.04
20	2.4	---	.04	.53	---	.02	.57	---	.04
21	2.5	---	.04	.45	---	.02	.53	25	.04
22	2.8	---	.06	.39	---	.02	.45	---	.04
23	3.2	---	.10	.37	---	.02	.45	---	.04
24	6.0	---	.80	.35	---	.02	.45	---	.04
25	10	---	22	.33	---	.03	.45	---	.04
26	6.0	---	.80	.32	---	.03	.45	---	.03
27	3.0	---	.10	.32	---	.03	.42	---	.03
28	2.6	---	.05	.31	---	.03	.39	---	.03
29	2.4	---	.04	.30	---	.03	.36	32	.03
30	2.2	---	.04	.28	---	.03	.33	34	.03
31	---	---	---	.27	---	.03	---	---	---
TOTAL	77.50	---	24.72	32.22	---	0.88	14.48	---	1.03

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	.36	32	.03	.28	---	.02	.33	---	.04
2	.36	31	.03	.28	---	.02	.33	42	.04
3	.45	36	.04	.28	---	.02	.33	---	.04
4	.36	50	.05	.28	---	.02	.33	---	.04
5	.36	41	.04	.28	---	.02	.30	---	.04
6	.36	29	.03	.28	---	.02	.27	---	.03
7	.36	32	.03	.28	---	.02	.27	---	.03
8	.36	32	.03	.28	---	.02	.27	---	.03
9	.36	44	.04	.28	---	.02	.27	---	.03
10	.36	38	.04	.28	---	.03	.27	---	.03
11	.36	30	.03	.28	---	.03	.36	---	.03
12	.36	36	.03	.28	---	.03	.45	---	.03
13	.36	42	.04	.28	---	.03	.36	---	.02
14	.36	28	.03	.28	---	.03	.30	---	.02
15	.36	---	.03	.28	---	.03	.36	---	.02
16	.31	15	.01	.28	---	.03	.33	---	.02
17	.31	32	.03	.28	46	.03	.30	---	.02
18	.31	30	.03	.27	66	.05	.27	---	.02
19	.31	13	.01	.57	---	.05	.27	---	.02
20	.31	29	.02	.78	---	.05	.27	---	.01
21	.31	26	.02	.67	---	.05	.24	---	.01
22	.31	50	.04	.62	---	.05	.24	---	.01
23	.31	38	.03	.53	---	.05	.36	---	.01
24	.31	---	.03	.49	---	.05	.33	---	.01
25	.31	38	.03	.78	---	.05	.30	---	.01
26	.29	15	.01	.53	---	.04	.27	---	.01
27	.28	---	.01	.78	---	.04	.24	---	.00
28	.28	---	.01	.57	---	.04	.22	---	.00
29	.28	---	.01	.49	---	.04	.22	---	.00
30	.28	---	.01	.42	---	.04	.20	---	.00
31	.28	---	.02	.36	---	.04	---	---	---
TOTAL	10.26	---	0.84	12.62	---	1.06	8.86	---	0.62
YEAR	246.73		29.15						

Table 13.--*Suspended-sediment data for East Middle Fork Parachute Creek near Rio Blanco*--Continued

PARACHUTE CREEK BASIN

09092850 EAST MIDDLE FORK PARACHUTE CREEK NEAR RIO BLANCO, CO

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

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	.18	---	.00	.27	---	.01	.30		.01
2	.18	---	.00	.22	---	.01	.27		.01
3	.20	---	.01	.24	---	.01	.36		.01
4	.20	---	.01	.24	---	.01	.36		.01
5	.18	---	.00	.27	---	.01	.33		.01
6	.22	---	.01	.36	---	.01	.22		.01
7	.53	---	.01	.39	---	.01	.22		.01
8	.33	---	.01	.36	---	.01	.21		.01
9	.39	---	.01	.27	---	.01	.20		.01
10	.33	5	.00	.22	---	.01	.20		.01
11	.30	---	.01	.22	---	.01	.22		.01
12	.22	---	.01	.22	---	.01	.18		.00
13	.20	---	.01	.22	---	.01	.20		.01
14	.22	---	.01	.22	---	.01	.20		.01
15	.22	---	.01	.22	---	.01	.22		.10
16	.22	---	.01	.22	7	.00	.24		.01
17	.22	---	.01	.22	---	.01	.27		.01
18	.22	---	.01	.22	---	.01	.27		.01
19	.22	---	.01	.24	---	.01	.28		.01
20	.22	---	.01	.30	---	.01	.30		.01
21	.27	---	.01	.30	---	.01	.33		.01
22	.30	---	.01	.33	---	.01	.27		.00
23	.30	---	.01	.36	---	.01	.27		.00
24	.30	---	.01	.30	---	.01	.27		.00
25	.27	---	.01	.30	---	.01	.27		.00
26	.27	---	.01	.30	---	.01	.27		.00
27	.27	---	.01	.33	---	.01	.24		.00
28	.27	---	.01	.33	---	.01	.24		.00
29	.27	---	.01	.30	---	.01	.24		.00
30	.33	---	.01	.33	---	.01	.24		.00
31	.36	---	.01	---	---	---	.24		.00
TOTAL	8.27	---	0.27	8.32	---	0.29	7.93		0.29

Table 13.--*Suspended-sediment data for East Middle Fork Parachute Creek near Rio Blanco*--Continued

PARACHUTE CREEK BASIN

09092850 EAST MIDDLE FORK PARACHUTE CREEK NEAR RIO BLANCO, CO

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

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	.24		.00	.20		.00	.27		.00
2	.24		.00	.20		.00	.33		.00
3	.30		.00	.20		.00	.30		.00
4	.30		.00	.20		.00	.30		.00
5	.27		.00	.20		.00	.36		.00
6	.27		.00	.22		.00	.30		.00
7	.24		.00	.22		.00	.24		.00
8	.24		.00	.22		.00	.27		.00
9	.24		.00	.22		.00	.36		.00
10	.27		.00	.27		.00	.36		.00
11	.24		.00	.24		.00	.36		.00
12	.24		.00	.20		.00	.36		.00
13	.22		.00	.20		.00	.37		.00
14	.24		.00	.20		.00	.38		.00
15	.24		.00	.18		.00	.38		.00
16	.24		.00	.22		.00	.39		.00
17	.24		.00	.20		.00	.42		.00
18	.24		.00	.18		.00	.49		.01
19	.24		.00	.20		.00	.62		.02
20	.22		.00	.20		.00	.78		.04
21	.20		.00	.20		.00	1.0		.08
22	.18		.00	.20		.00	1.9		.18
23	.18		.00	.20		.00	1.8		.14
24	.20		.00	.22		.00	1.8		.17
25	.22		.00	.27		.00	1.3		.10
26	.22		.00	.27		.00	1.6		.17
27	.24		.00	.27		.00	2.5		.34
28	.22		.00	.24		.00	3.3		.58
29	.20		.00	---			5.1		1.1
30	.20		.00	---			7.9		2.8
31	.20		.00	---			10		5.9
TOTAL	7.27		0.00	6.04		0.00	45.84		11.63

Table 13.--*Suspended-sediment data for East Middle Fork Parachute Creek near Rio Blanco*--Continued

PARACHUTE CREEK BASIN

09092850 EAST MIDDLE FORK PARACHUTE CREEK NEAR RIO BLANCO, CO

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

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	11	---	5.9	53	---	61	16	---	1.9
2	14	---	8.3	50	329	44	15	---	1.8
3	12	---	6.5	56	282	43	14	---	1.7
4	9.2	---	4.0	54	340	50	13	---	1.6
5	7.9	---	2.6	38	246	26	13	47	1.6
6	8.3	---	3.4	32	320	29	12	---	1.0
7	12	---	7.1	30	279	23	11	---	1.0
8	17	---	11	28	253	20	11	---	1.0
9	20	---	12	24	183	12	10	---	.80
10	14	140	5.3	25	---	22	9.9	---	.70
11	14	190	7.2	33	---	39	9.5	---	.80
12	17	210	9.6	39	---	60	9.3	---	.90
13	20	270	15	48	---	88	9.0	---	.80
14	22	400	18	73	---	170	8.9	---	.70
15	25	960	65	93	---	240	8.8	---	.70
16	27	1650	120	95	---	230	8.7	---	.60
17	24	615	40	88	---	150	8.5	---	.60
18	21	---	29	74	---	96	8.5	---	.60
19	19	---	26	58	---	60	7.9	---	.40
20	19	---	22	54	---	44	7.5	---	.40
21	20	---	25	56	---	41	6.5	11	.30
22	20	---	24	56	---	32	5.1	---	.30
23	19	---	22	42	159	18	5.0	---	.30
24	19	---	27	35	151	14	4.7	---	.30
25	22	---	50	33	113	10	4.5	---	.30
26	34	---	120	28	105	7.9	4.5	---	.30
27	60	1540	247	25	84	5.7	4.3	---	.30
28	65	1400	237	22	68	4.0	4.3	---	.40
29	61	973	157	20	64	3.4	4.2	---	.30
30	57	---	92	19	49	2.5	4.1	---	.20
31	---	---	---	17	46	2.1	---	---	---
TOTAL	719.4	---	1418.9	1398	---	1647.6	258.7	---	22.60

Table 13.--*Suspended-sediment data for East Middle Fork Parachute Creek near Rio Blanco*--Continued

PARACHUTE CREEK BASIN

09092850 EAST MIDDLE FORK PARACHUTE CREEK NEAR RIO BLANCO, CO

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

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	3.8	---	.20	2.4	---	.30	1.1	46	.14
2	3.5	---	.20	2.2	27	.16	1.0	20	.05
3	3.8	---	.20	1.9	15	.08	1.1	24	.07
4	3.6	---	.20	1.8	23	.11	1.1	74	.22
5	3.6	---	.20	1.7	18	.08	1.0	64	.17
6	3.6	---	.20	1.7	23	.11	1.0	44	.12
7	3.6	---	.20	1.6	17	.07	1.1	14	.04
8	3.4	---	.20	1.6	15	.06	1.1	16	.05
9	3.4	---	.20	1.7	15	.07	1.0	12	.03
10	3.1	---	.20	1.7	13	.06	.99	14	.04
11	3.0	---	.20	1.8	18	.09	1.1	18	.05
12	2.9	---	.20	1.7	17	.08	1.1	20	.06
13	3.0	36	.29	1.7	---	.08	1.0	24	.06
14	3.0	37	.30	1.8	---	.09	.97	46	.12
15	3.0	27	.22	1.6	---	.08	.89	48	.12
16	3.1	24	.20	1.7	19	.09	.88	28	.07
17	3.2	25	.22	1.5	21	.09	.90	42	.10
18	3.1	23	.19	1.5	19	.08	1.1	28	.08
19	3.1	19	.16	1.5	18	.07	.99	28	.07
20	3.0	45	.36	1.4	15	.06	.92	32	.08
21	3.0	29	.23	1.3	15	.05	.89	48	.12
22	3.0	39	.32	1.4	12	.05	.89	32	.08
23	3.0	30	.24	1.3	9	.03	.86	16	.04
24	2.8	31	.23	1.2	6	.02	.82	22	.05
25	2.8	27	.20	1.2	15	.05	.80	30	.06
26	2.7	29	.21	1.2	27	.09	.83	30	.07
27	2.6	30	.21	1.2	24	.08	.80	28	.06
28	2.6	25	.18	1.2	18	.06	.82	20	.04
29	2.5	42	.28	1.2	13	.04	.83	16	.04
30	2.5	31	.21	1.2	13	.04	.82	16	.04
31	2.4	27	.17	1.1	18	.05	---	---	---
TOTAL	95.7	---	6.82	48.0	---	2.47	28.70	---	2.34
YEAR	2623.17		3113.21						

Table 13.—*Suspended-sediment 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

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

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	.82	21	.05	.99	---	.08	.66	---	.02
2	.90	31	.08	.99	---	.08	.61	---	.02
3	.90	36	.09	.98	---	.08	.56	---	.02
4	.90	42	.10	.97	---	.08	.66	---	.02
5	.90	35	.09	.96	---	.06	.66	---	.02
6	.90	35	.09	.95	---	.06	.66	---	.03
7	.90	40	.10	.94	---	.06	.51	22	.03
8	.90	42	.10	.93	---	.06	.28	---	.01
9	.82	38	.08	.92	---	.05	.40	---	.01
10	.82	39	.09	.90	---	.05	.46	---	.01
11	.82	40	.09	1.1	---	.06	.46	---	.01
12	.82	41	.09	1.2	---	.06	.51	---	.01
13	.82	34	.08	.99	---	.04	.51	---	.01
14	.82	36	.08	.99	---	.04	.56	---	.02
15	.82	43	.10	.90	---	.04	.56	---	.02
16	.82	38	.08	.77	---	.03	.51	---	.01
17	.77	37	.08	.77	---	.02	.56	---	.02
18	.82	42	.09	.61	---	.02	.56	---	.02
19	.82	40	.09	.66	---	.01	.61	---	.02
20	.82	38	.08	.72	2	.00	.72	---	.02
21	.82	38	.08	.72	---	.01	.72	---	.02
22	.82	38	.09	.72	---	.02	.72	---	.02
23	.90	40	.10	.72	---	.02	.72	---	.02
24	.90	43	.10	.66	---	.02	.72	---	.02
25	.90	41	.10	.72	---	.02	.66	---	.02
26	.90	---	.10	.72	---	.02	.61	---	.02
27	.90	---	.10	.70	---	.02	.56	---	.02
28	.90	---	.08	.68	---	.02	.56	---	.02
29	.99	---	.09	.66	---	.02	.56	---	.02
30	.99	---	.09	.66	---	.02	.56	---	.02
31	.99	---	.09	---	---	---	.42	---	.01
TOTAL	26.92	---	2.74	25.20	---	1.17	17.83	---	0.56

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	.28		.01	.56		.02	.66		.02
2	.28		.01	.56		.02	.66		.02
3	.46		.01	.51		.01	.82		.03
4	.61		.02	.51		.01	1.1		.06
5	.61		.02	.52		.01	.99		.07
6	.61		.02	.52		.01	.99		.08
7	.51		.01	.53		.01	1.1		.10
8	.40		.01	.53		.01	1.2		.20
9	.51		.01	.54		.01	1.4		.20
10	.56		.02	.55		.01	1.5		.20
11	.56		.02	.55		.01	2.5		.50
12	.56		.02	.56		.02	3.4		.80
13	.56		.02	.56		.02	3.4		.80
14	.56		.02	.57		.02	2.3		.40
15	.61		.02	.58		.02	2.7		.60
16	.61		.02	.58		.02	2.8		.60
17	.61		.02	.59		.02	2.8		.60
18	.56		.02	.59		.02	2.8		.60
19	.56		.02	.60		.02	2.7		.60
20	.55		.01	.61		.02	2.8		.60
21	.54		.01	.61		.02	2.6		.50
22	.53		.01	.62		.02	2.5		.50
23	.51		.01	.62		.02	1.7		.30
24	.46		.01	.63		.02	2.0		.40
25	.51		.01	.64		.02	2.3		.40
26	.51		.01	.64		.02	2.4		.50
27	.28		.00	.65		.02	1.7		.30
28	.28		.00	.65		.02	2.0		.40
29	.26		.00	---			1.8		.30
30	.28		.00	---			2.0		.40
31	.40		.01	---			2.0		.40
TOTAL	15.13		0.40	16.18		0.47	61.62		11.48

Table 13.--*Suspended-sediment data for East Middle Fork Parachute Creek near Rio Blanco*--Continued

PARACHUTE CREEK BASIN

09092850 EAST MIDDLE FORK PARACHUTE CREEK NEAR RIO BLANCO, CO

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

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	2.2	---	.40	50	---	70	32	60	5.2
2	2.3	---	.40	56	---	110	28	60	4.5
3	2.6	---	.50	59	---	130	26	84	5.9
4	2.4	---	.50	41	---	40	24	80	5.2
5	3.6	---	.80	40	---	37	23	83	5.2
6	5.9	---	.80	53	---	90	22	110	6.5
7	8.3	---	1.5	96	---	590	21	88	5.0
8	9.4	---	1.9	96	---	590	21	46	2.6
9	11	---	2.6	90	---	460	18	77	3.7
10	11	---	2.6	81	---	350	16	50	2.2
11	10	---	2.2	74	---	260	15	46	1.9
12	9.4	---	1.9	72	---	240	14	64	2.4
13	9.1	---	1.8	66	---	180	14	170	6.4
14	10	---	2.2	87	---	430	14	42	1.6
15	13	---	3.7	110	---	900	14	36	1.4
16	19	---	7.0	131	5360	1980	12	46	1.5
17	29	---	18	150	4810	1970	12	58	1.9
18	32	---	22	149	---	1800	11	21	.62
19	33	---	23	149	---	1800	10	9	.24
20	28	---	17	129	---	1200	10	13	.35
21	30	---	20	128	1740	612	9.7	12	.31
22	32	---	22	120	907	294	8.7	18	.42
23	34	---	25	112	764	228	8.4	16	.36
24	36	---	28	114	693	214	7.7	14	.29
25	39	255	28	97	481	126	7.7	13	.27
26	40	325	36	86	---	110	7.4	10	.20
27	40	---	37	79	---	110	7.0	14	.26
28	42	---	41	63	---	71	7.0	22	.42
29	41	---	40	53	---	43	6.2	23	.38
30	43	---	44	46	---	27	6.0	15	.24
31	---	---	---	36	---	12	---	---	---
TOTAL	628.2	---	431.80	2713	---	15074	432.8	---	67.46

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	6.0	7	.11	6.0	15	.24	1.8	60	.29
2	6.2	3	.05	5.0	17	.23	1.8	60	.29
3	6.0	30	.49	5.0	18	.24	1.7	60	.28
4	6.0	46	.74	4.0	21	.23	1.7	60	.28
5	6.2	36	.60	4.0	22	.24	1.6	75	.32
6	6.0	30	.49	3.5	24	.23	1.6	75	.32
7	6.2	50	.84	3.5	27	.26	1.5	75	.30
8	6.2	6	.10	3.3	---	.28	1.5	90	.36
9	5.7	25	.38	3.3	---	.30	1.4	72	.27
10	5.0	---	.27	3.1	---	.42	1.3	90	.32
11	5.0	---	.27	3.1	---	.45	1.6	57	.25
12	5.0	30	.40	3.1	---	.47	1.6	129	.56
13	5.0	33	.45	2.9	69	.54	1.6	159	.69
14	4.7	31	.39	2.6	54	.38	1.5	159	.64
15	4.7	35	.44	2.4	42	.27	1.5	156	.63
16	4.4	34	.40	2.4	69	.45	1.5	141	.57
17	4.7	19	.24	2.3	60	.37	1.5	129	.52
18	5.0	18	.24	2.3	57	.35	1.5	99	.40
19	5.2	20	.28	2.2	66	.39	1.5	96	.39
20	5.0	23	.31	2.2	60	.36	1.4	87	.33
21	4.7	18	.23	2.2	72	.43	1.4	108	.41
22	5.0	20	.27	2.2	66	.39	1.4	---	.39
23	5.2	16	.22	2.2	48	.28	1.4	123	.46
24	5.2	16	.22	2.1	30	.17	1.4	114	.43
25	5.2	21	.30	2.1	39	.22	1.4	111	.42
26	5.2	20	.28	2.1	42	.24	1.3	90	.32
27	5.2	13	.18	2.1	120	.68	1.3	---	.25
28	6.0	6	.10	2.0	45	.24	1.3	---	.21
29	6.4	18	.31	2.0	45	.24	1.3	39	.14
30	6.4	24	.42	1.9	60	.31	1.3	66	.18
31	6.0	23	.37	1.9	60	.31	---	---	---
TOTAL	168.7	---	10.39	89.0	---	10.21	44.6	---	11.22
YEAR	4239.18		15621.90						

Table 14.--*Suspended-sediment data for East Fork Parachute Creek near Rulison*
[From U.S. Geological Survey, 1979]

PARACHUTE CREEK BASIN

09092970 EAST FORK PARACHUTE CREEK NEAR RULISON, CO

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

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			.00			.00		---
12	.00			.00			.00		---
13	.00			.00			.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			3.6		.33
27	.00			.00			11		1.4
28	.00			.00			9.5		1.1
29	.00			---			11		1.4
30	.00			---			13		1.9
31	.00			---			16		2.5
TOTAL	0.00			0.00			64.10		8.63

Table 14.--*Suspended-sediment data for East Fork Parachute Creek near Rulison*-- Continued

PARACHUTE CREEK BASIN

09092970 EAST FORK PARACHUTE CREEK NEAR RULISON, CO

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

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	10	---	2.5	47	---	16	22	---	4.2
2	11	---	1.4	47	---	16	20	---	3.5
3	9.0	---	1.0	57	---	26	18	---	3.0
4	8.7	---	1.0	62	---	33	17	---	2.6
5	9.2	---	1.1	51	---	19	18	---	2.8
6	9.5	---	1.1	45	---	15	15	---	2.1
7	10	44	1.2	42	---	13	14	---	1.8
8	12	---	1.6	34	---	8.8	13	---	1.6
9	13	---	1.9	32	---	8.0	12	---	1.3
10	11	---	1.4	33	---	8.4	11	---	1.1
11	12	---	1.6	35	92	8.7	10	---	.95
12	14	---	2.1	43	---	14	9.8	---	.92
13	16	---	2.5	58	---	27	9.2	---	.83
14	18	---	3.1	76	---	68	8.8	---	.73
15	18	---	3.1	79	---	80	8.5	---	.69
16	14	---	2.1	99	---	330	8.2	---	.63
17	12	---	1.6	107	1680	485	8.0	---	.60
18	13	---	1.9	83	---	100	7.2	---	.50
19	13	54	1.9	69	---	47	7.2	---	.48
20	15	---	2.3	63	---	35	7.0	---	.45
21	16	---	2.5	62	---	33	6.8	---	.42
22	14	---	2.1	60	---	30	6.2	---	.36
23	14	---	2.1	59	---	28	6.0	---	.33
24	17	---	2.8	58	---	27	5.8	---	.31
25	18	---	3.1	42	---	13	5.2	---	.26
26	30	---	7.1	36	---	9.8	5.0	---	.24
27	41	---	12	33	---	8.4	4.8	---	.22
28	43	---	14	31	---	7.5	4.8	16	.21
29	42	---	13	28	---	6.4	5.0	---	.23
30	42	---	13	26	---	5.6	5.2	---	.26
31	---	---	---	24	78	5.1	---	---	---
TOTAL	531.4	---	108.1	1621	---	1531.7	298.7	---	33.62

Table 14.--*Suspended-sediment data for East Fork Parachute Creek near Rulison*--Continued

PARACHUTE CREEK BASIN

09092970 EAST FORK PARACHUTE CREEK NEAR RULISON, CO

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

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	4.2	---	.21	1.7	29	.13	.63	6	.01
2	4.2	---	.22	1.8	---	.15	.63	---	.01
3	4.0	---	.22	1.5	---	.11	.63	14	.02
4	3.8	---	.22	1.4	---	.10	.60	---	.01
5	3.5	22	.21	1.3	---	.09	.60	---	.01
6	3.2	44	.38	1.2	---	.07	.60	---	.01
7	3.2	50	.43	1.2	---	.07	.60	---	.01
8	2.8	31	.23	1.2	---	.07	.74	---	.02
9	2.8	32	.24	1.2	---	.07	.65	---	.01
10	2.5	24	.16	1.3	---	.09	.60	---	.01
11	2.8	22	.17	1.4	---	.10	.82	---	.03
12	2.8	---	.25	1.3	---	.09	.82	---	.03
13	2.3	30	.19	1.5	---	.11	.82	---	.03
14	2.3	34	.21	1.8	---	.15	.82	---	.03
15	2.4	26	.17	1.8	---	.15	.74	---	.02
16	2.5	---	.22	1.2	---	.07	.74	---	.02
17	2.4	---	.21	1.2	---	.07	.91	---	.04
18	2.2	---	.19	1.2	---	.07	1.7	---	.13
19	2.1	50	.28	1.1	---	.06	1.5	---	.11
20	2.1	43	.24	.99	---	.05	1.3	---	.09
21	2.0	38	.21	1.1	---	.06	1.2	---	.07
22	1.9	46	.24	1.2	---	.07	.99	---	.05
23	1.9	61	.31	1.2	---	.07	.91	---	.04
24	1.9	39	.20	.91	---	.04	.82	---	.03
25	2.0	35	.19	.91	---	.04	.74	---	.02
26	2.0	82	.44	.91	---	.04	.74	---	.02
27	2.0	54	.29	.82	---	.03	.74	---	.02
28	1.7	45	.21	.82	---	.03	.74	---	.02
29	1.8	41	.20	.82	---	.03	.74	---	.02
30	1.8	41	.20	.65	---	.01	.74	---	.02
31	1.7	43	.20	.74	10	.02	---	---	---
TOTAL	78.8	---	7.34	37.37	---	2.31	24.81	---	0.96
YEAR	2656.18		1692.66						

Table 14.—*Suspended-sediment data for East Fork Parachute Creek near Rulison*—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT				
11...	1230	.67	1	.00
NOV				
08...	1100	.34	18	.02
MAY				
05...	1200	37	170	17
24...	1200	200	990	535
JUN				
21...	1030	12	4	.13
JUL				
24...	1145	3.9	26	.28
AUG				
20...	1115	2.2	17	.10

Table 15.-- *Gain-and-loss measurements for Parachute Creek tributaries*

Stream	Tributary to	Location		Date of measurement (M-D-Y)	Time of measurement	Discharge (ft^3/s)	Temperature (degrees Celsius)	Specific conductance (micromhos/cm)
		Latitude	Longitude					
			NORTHWATER CREEK					
Northwater Creek	East Middle Fork Parachute Creek	39°37'07"	107°54'38"	9/26/78	0930	0.004	11.5	560
Northwater Creek	East Middle Fork Parachute Creek	39°36'46"	107°54'59"	9/26/78	1000	.01	9.5	520
Tributary from right bank	Northwater Creek	39°36'38"	107°55'31"	9/26/78	1030	.01	9.5	350
Tributary spring on right bank 0.05 mi above drill pad	Northwater Creek	39°36'39"	107°56'00"	9/26/78	1100	.005	7.5	540
Northwater Creek	East Middle Fork Parachute Creek	39°36'47"	107°56'17"	9/26/78	1120	.09	8.5	500
Northwater Creek	East Middle Fork Parachute Creek	39°36'56"	107°56'52"	9/26/78	0940	.26	7.0	325
Northwater Creek	East Middle Fork Parachute Creek	39°36'48"	107°57'48"	9/26/78	0955	.21	7.0	470
Spring on left bank	Northwater Creek	39°36'47"	107°57'47"	9/26/78	1015	.02	7.5	500
Northwater Creek above Raspberry Creek	East Middle Fork Parachute Creek	39°36'37"	107°58'13"	9/26/78	1045	.29	8.0	490
Raspberry Creek at mouth	Northwater Creek	39°36'37"	107°58'14"	9/26/78	1040	.04	7.5	580
Spring on left bank	Northwater Creek	39°36'32"	107°58'23"	9/26/78	1050	.001	4.5	540
Yellowjacket Creek at mouth	Northwater Creek	39°36'31"	107°58'25"	9/26/78	1100	.12	9.0	540
Northwater Creek below mouth of Yellowjacket Creek	East Middle Fork Parachute Creek	39°36'32"	107°58'26"	9/26/78	1120	.66	8.0	520
Spring on left bank 100 ft below Yellowjacket Creek	Northwater Creek	39°36'28"	107°58'38"	9/26/78	1200	.002	6.5	560
Buck Gulch at mouth	Northwater Creek	39°36'48"	108°00'09"	9/26/78	1245	.008	6.5	500

Table 15.-- *Gain-and-loss measurements for Parachute Creek tributaries*--Continued

Stream	Tributary to	Location		Date of measurement (M-D-Y)	Time of measurement	Discharge (ft^3/s)	Temperature (degrees Celsius)	Specific conductance (micromhos/cm)
		Latitude	Longitude					
		NORTHWATER CREEK--Continued						
Northwater Creek below Buck Gulch	East Middle Fork Parachute Creek	39°36'49"	108°00'09"	9/26/78	1300	0.75	7.0	510
Northwater Creek between Buck Gulch and Bear Gulch	East Middle Fork Parachute Creek	39°36'57"	108°00'24"	9/26/78	1425	.79	11.0	490
Spring on right bank	Northwater Creek	39°37'08"	108°00'41"	9/26/78	1445	.10	12.0	600
Northwater Creek near Anvil Points	East Middle Fork Parachute Creek	39°37'13"	108°00'44"	9/26/78	1510	.80	10.5	520
		TRAPPERS CREEK						
Trappers Creek	East Middle Fork Parachute Creek	39°38'37"	107°57'09"	9/25/78	1130	0.021	14.0	470
Trappers Creek	East Middle Fork Parachute Creek	39°38'08"	107°58'31"	9/25/78	1200	.067	17.5	500
Trappers Creek	East Middle Fork Parachute Creek	39°37'27"	108°00'22"	9/25/78	1245	.21	14.0	530
Trappers Creek	East Middle Fork Parachute Creek	39°37'41"	107°59'33"	9/25/78	1300	.30	16.0	530
Tributary side of canyon just below previous site	Trappers Creek	39°37'27"	108°00'26"	9/25/78	1430	.024	17.5	560
Trappers Creek at mouth	East Middle Fork Parachute Creek	39°37'20"	108°00'41"	9/25/78	1500	.19	17.5	510
		EAST MIDDLE FORK PARACHUTE CREEK						
East Middle Fork Parachute Creek 50 ft below confluence of Northwater and Trappers Creeks	East Middle Fork Parachute Creek	39°37'21"	108°00'42"	9/25/78	1530	0.03	16.0	500

Table 15.--*Gain-and-loss measurements for Parachute Creek tributaries*--Continued

Stream	Tributary to	Location		Date of measurement (M-D-Y)	Time of measurement	Discharge (ft^3/s)	Temperature (degrees Celsius)	Specific conductance (micromhos/cm)
		Latitude	Longitude					
EAST MIDDLE FORK PARACHUTE CREEK--Continued								
East Middle Fork Parachute Creek near Rio Blanco	Middle Fork Parachute Creek	39°37'15"	108°01'46"	9/25/78	1645	0.90	13.5	540
Corral Gulch at mouth	East Middle Fork Parachute Creek	39°37'12"	108°02'22"	9/25/78	1710	.24	13.5	600
East Middle Fork Parachute Creek below Corral Gulch	Middle Fork Parachute Creek	39°37'09"	108°02'22"	9/25/78	1725	1.72	12.0	580
BEN GOOD CREEK								
Ben Good Creek	East Fork Parachute Creek	39°35'17"	107°58'48"	9/25/78	1240	0.005	6.5	460
Ben Good Creek	East Fork Parachute Creek	39°35'25"	107°59'33"	9/25/78	1310	.014	13.0	400
Tributary	Ben Good Creek	39°35'18"	108°00'23"	9/25/78	1330	.007	20.5	540
EAST FORK PARACHUTE CREEK								
JQS Gulch	East Fork Parachute Creek	39°35'44"	107°54'02"	9/25/78	1130	0.002	16.5	---
JQS Gulch	East Fork Parachute Creek	39°35'38"	107°54'38"	9/25/78	1200	.014	12.0	---
JQS Gulch	East Fork Parachute Creek	39°55'30"	107°54'37"	9/25/78	1300	.019	11.0	---
Draw coming in on right bank	JQS Gulch	39°35'25"	107°54'44"	9/25/78	1330	.006	18.5	---
JQS Gulch	East Fork Parachute Creek	39°35'23"	107°54'43"	9/25/78	1345	.05	14.5	435
East Fork Parachute Creek	Parachute Creek	39°34'59"	107°55'06"	9/25/78	1615	.08	----	---
East Fork Parachute Creek	Parachute Creek	39°34'57"	107°55'17"	9/25/78	1630	.08	11.5	465

Table 15.--*Gain-and-loss measurements for Parachute Creek tributaries*--Continued

Stream	Tributary to	Location		Date of measurement (M-D-Y)	Time of measurement	Discharge (ft^3/s)	Temperature (degrees Celsius)	Specific conductance (micromhos/cm)
		Latitude	Longitude					
EAST FORK PARACHUTE CREEK--Continued								
East Fork Parachute Creek	Parachute Creek	39°34'43"	107°55'51"	9/25/78	1650	0.30	15.0	---
East Fork Parachute Creek	Parachute Creek	39°34'38"	107°55'54"	9/25/78	1715	.27	14.5	480
East Fork Parachute Creek	Parachute Creek	39°34'27"	107°56'26"	9/25/78	1730	.34	13.0	---
Third Water Gulch at mouth	East Fork Parachute Creek	39°34'28"	107°56'26"	9/25/78	1750	.05	12.5	480
East Fork Parachute Creek	Parachute Creek	39°34'25"	107°56'28"	9/25/78	1315	.46	14.5	460
Second Anvil Creek at mouth	East Fork Parachute Creek	39°34'05"	107°56'52"	9/25/78	1415	.03	14.5	490
East Fork Parachute Creek below Second Anvil Creek	Parachute Creek	39°34'04"	107°56'54"	9/25/78	1430	.63	14.5	480
Timber Gulch at mouth	East Fork Parachute Creek	39°33'53"	107°57'07"	9/25/78	1445	No flow	----	---
East Fork Parachute Creek at Timber Gulch	Parachute Creek	39°33'54"	107°57'05"	9/25/78	1510	.50	16.5	500
East Fork Parachute Creek between Timber and J. V. Gulches	Parachute Creek	39°33'42"	107°57'33"	9/25/78	1550	.51	14.5	470
J. V. Gulch at mouth	East Fork Parachute Creek	39°33'32"	107°58'10"	9/25/78	1610	.01	9.5	530
East Fork Parachute Creek below J. V. Gulch	Parachute Creek	39°33'33"	107°58'11	9/25/78	1645	.66	14.5	460
Camp Gulch at mouth	East Fork Parachute Creek	39°33'29"	107°58'26"	9/25/78	1715	.065	13.0	480

Table 15.--*Gain-and-loss measurements for Parachute Creek tributaries*--Continued

Stream	Tributary to	Location		Date of measurement (M-D-Y)	Time of measurement	Discharge (ft^3/s)	Temperature (degrees Celsius)	Specific conductance (micromhos/cm)
		Latitude	Longitude					
		EAST FORK PARACHUTE CREEK--Continued						
East Fork Parachute Creek below Camp Gulch	Parachute Creek	39°33'28"	107°58'27"	9/25/78	1745	0.35	14.5	450
East Fork Parachute Creek above mouth at Grassy Gulch	Parachute Creek	39°33'22"	107°58'42"	9/25/78	1800	.75	11.0	480
Grassy Gulch at mouth	East Fork Parachute Creek	39°33'22"	107°58'43"	9/25/78	1815	.029	9.0	510
East Fork Parachute Creek below First Anvil Creek	Parachute Creek	39°33'21"	107°58'43"	9/25/78	1830	.97	10.5	480
First Anvil Creek at mouth	East Fork Parachute Creek	39°33'18"	107°58'44"	9/25/78	1840	.16	9.5	450
East Fork Parachute Creek above First Anvil Creek	Parachute Creek	39°33'21"	107°58'43"	9/26/78	0930	.92	10.0	480
East Fork Parachute Creek near Anvil Points	Parachute Creek	39°33'20"	107°58'52"	9/26/78	1000	1.21	10.0	530
East Fork Parachute Creek below Spring Gulch	Parachute Creek	39°33'20"	108°00'01"	9/26/78	1020	1.03	12.0	500
East Fork Parachute Creek below Sheep-Trail Hollow	Parachute Creek	39°33'21"	108°00'06"	9/26/78	1050	1.14	13.0	410
East Fork Parachute Creek below Trail Gulch	Parachute Creek	39°33'40"	108°00'37"	9/26/78	1115	1.05	13.5	510
East Fork Parachute Creek above falls	Parachute Creek	39°33'47"	108°00'49"	9/26/78	1140	1.20	11.5	505

Table 16.--*Spring inventory data*

Units: LSD, land-surface datum, in feet; DISCHARGE, in gallons per minute.
Parameter codes: 400, pH; 95, specific conductance, in micromhos per centimeter at 25° Celsius;
10, temperature of water, in degrees Celsius.

SPRING NUMBER IN FIGURE 5	LOCAL NUMBER	LATITUDE DEG-MIN-SEC	LONGITUDE DEG-MIN-SEC	ALTITUDE AT LSD	DATE	PARAMETER VALUE	PARAM CODE	DATE	DISCHARGE
1	SC00509403ACC1	393841	1075540	8580.00	08/07/1979	530.0	95	08/07/1979	.20
					08/07/1979	12.0	10		
					08/07/1979	8.0	400		
2	SC00509403BBB1	393903	1075611	8440.00	08/10/1979	660.0	95	08/10/1979	.10
					08/10/1979	8.0	400		
					08/10/1979	9.0	10		
3	SC00509403CCC1	393811	1075608	8430.00	08/07/1979	8.0	400	08/07/1979	2.00
					08/07/1979	510.0	95		
					08/07/1979	6.0	10		
4	SC00509403CCC2	393814	1075612	8400.00	08/07/1979	6.5	10	08/07/1979	1.50
					08/07/1979	7.9	400		
					08/07/1979	500.0	95		
5	SC00509404CBA1	393833	1075706	8250.00	08/08/1979	8.0	10	08/08/1979	2.00
					08/08/1979	500.0	95		
					08/08/1979	7.9	400		
6	SC00509404DAB1	393833	1075634	8270.00	08/10/1979	7.6	400	08/10/1979	1.50
					08/10/1979	8.0	10		
					08/10/1979	400.0	95		
7	SC00509406CAC1	393828	1075915	8200.00	08/08/1979	520.0	95	08/08/1979	2.50
					08/08/1979	8.0	10		
					08/08/1979	7.9	400		
8	SC00509407AAA1	393808	1075836	8020.00	08/07/1979	7.8	400	08/07/1979	12.00
					08/07/1979	510.0	95		
					08/07/1979	8.0	10		
9	SC00509407DDA1	393729	1075833	8400.00	08/06/1979	8.0	10	08/06/1979	.10
					08/06/1979	7.6	400		
					08/06/1979	445.0	95		
10	SC00509408DDD1	393722	1075722	8310.00	08/09/1979	460.0	95	08/09/1979	1.50
					08/09/1979	7.8	400		
					08/09/1979	8.0	10		
11	SC00509409ABB1	393809	1075631	8570.00	08/07/1979	7.9	400	08/07/1979	1.50
					08/07/1979	7.0	10		
					08/07/1979	405.0	95		
12	SC00509409DCA1	393729	1075631	8530.00	08/09/1979	8.0	10	08/09/1979	.10
					08/09/1979	8.1	400		
					08/09/1979	500.0	95		
13	SC00509409DDD1	393721	1075622	8480.00	08/09/1979	8.0	10	08/09/1979	2.00
					08/09/1979	7.8	400		
					08/09/1979	510.0	95		
14	SC00509414BAD1	393706	1075439	8850.00	06/14/1977	8.0	10	06/14/1977	6.00
					06/14/1977	500.0	95		
					06/14/1977	7.5	400		
15	SC00509414CBB1	393646	1075503	8680.00	06/14/1977	7.5	400	06/14/1977	6.00
					06/14/1977	7.0	10		
					06/14/1977	500.0	95		
16	SC00509415AAC1	393713	1075519	8745.00	08/08/1979	7.6	400	08/08/1979	1.00
					08/08/1979	7.5	10		
					08/08/1979	410.0	95		

Table 16.--*Spring inventory data*--Continued

SPRING	LOCAL NUMBER	LATITUDE DEG-MIN-SEC	LONGITUDE DEG-MIN-SEC	ALTITUDE AT LSD	DATE	PARAMETER VALUE	PARAM CODE	DATE	DISCHARGE
17	SC00509415BCA1	393703	1075600	8550.00	08/09/1979	465.0	95	08/09/1979	1.00
					08/09/1979	8.0	10		
					08/09/1979	7.7	400		
18	SC00509415CDC1	393631	1075552	8580.00	07/20/1979	7.3	400	07/20/1979	2.00
					07/20/1979	8.0	10		
					07/20/1979	425.0	95		
19	SC00509415DDA1	393636	1075507	8900.00	08/09/1979	7.0	10	08/09/1979	2.00
					08/09/1979	7.5	400		
					08/09/1979	490.0	95		
20	SC00509416ACD1	393653	1075637	8350.00	06/14/1977	450.0	95	06/14/1977	2.00
					06/14/1977	7.3	400		
					06/14/1977	5.0	10		
21	SC00509416BDC1	393654	1075657	8320.00	06/14/1977	8.5	10	06/14/1977	22.00
					06/14/1977	7.5	400		
					06/14/1977	500.0	95		
22	SC00509416CCB1	393637	1075714	8440.00	08/09/1979	7.0	10	08/09/1979	2.00
					08/09/1979	465.0	95		
					08/09/1979	7.9	400		
23	SC00509416CDA1	393632	1075650	8555.00	08/09/1979	400.0	95	08/09/1979	.20
					08/09/1979	8.0	10		
					08/09/1979	8.1	400		
24	SC00509417AAA1	393710	1075724	8310.00	08/09/1979	470.0	95	08/09/1979	1.00
					08/09/1979	8.0	10		
					08/09/1979	7.8	400		
25	SC00509417ABB1	393715	1075754	8420.00	06/14/1977	7.4	400	06/14/1977	3.00
					06/14/1977	410.0	95		
					06/14/1977	5.5	10		
26	SC00509417BBC1	393705	1075821	8400.00	08/09/1979	500.0	95	08/09/1979	.10
					08/09/1979	7.9	400		
					08/09/1979	9.0	10		
27	SC00509418DAC1	393642	1075843	8240.00	08/09/1979	520.0	95	08/09/1979	.10
					08/09/1979	7.9	400		
					08/09/1979	10.0	10		
28	SC00509418DDC1	393624	1075842	8180.00	06/16/1977	7.0	10		
					06/16/1977	500.0	95		
					06/16/1977	7.3	400		
29	SC00509419BCC1	393550	1075852	8360.00	12/07/1977	8.0	400	12/07/1977	1.00
					12/07/1977	4.0	10		
					12/07/1977	540.0	95		
30	SC00509419BCC2	393604	1075931	8260.00	12/08/1977	7.8	400	12/08/1977	.10
					12/08/1977	470.0	95		
					12/08/1977	4.0	10		
31	SC00509420ABB1	393617	1075751	8270.00	09/26/1978	10.0	10	09/26/1978	1.00
					09/26/1978	450.0	95		
					09/26/1978	7.5	400		
32	SC00509420BAA1	393623	1075802	8240.00	06/15/1977	8.0	10	06/15/1977	1.00
					06/15/1977	660.0	95		
					06/15/1977	7.2	400		

Table 16.--*Spring inventory data*--Continued

SPRING	LOCAL NUMBER	LATITUDE DEG-MIN-SEC	LONGITUDE DEG-MIN-SEC	ALTITUDE AT LSD	DATE	PARAMETER VALUE	PARAM CODE	DATE	DISCHARGE
33	SC00509420BAD1	393614	1075819	8240.00	12/07/1977	4.0	10	12/07/1977	3.00
					12/07/1977	560.0	95		
					12/07/1977	7.8	400		
34	SC00509420BCA1	393609	1075815	8260.00	06/16/1977	6.0	10	06/16/1977	1.00
					06/16/1977	500.0	95		
					06/16/1977	7.3	400		
35	SC00509420CAB1	393558	1075807	8330.00	06/15/1977	490.0	95	09/26/1978	10.00
					06/15/1977	7.3	400		
					06/15/1977	6.5	10		
					09/26/1978	8.3	400		
					09/26/1978	520.0	95		
					09/26/1978	12.0	10		
36	SC00509420CAC1	393551	1075821	8370.00	12/07/1977	5.5	10	12/07/1977	1.00
					12/07/1977	7.9	400		
					12/07/1977	470.0	95		
37	SC00509421DBB1	393550	1075614	8620.00	07/19/1979	7.0	10	07/19/1979	2.50
					07/19/1979	7.3	400		
					07/19/1979	500.0	95		
38	SC00509422ABD1	393613	1075531	8720.00	07/20/1979	5.0	10	07/20/1979	1.00
					07/20/1979	7.5	400		
					07/20/1979	395.0	95		
39	SC00509422BCD1	393605	1075558	8740.00	06/15/1977	5.0	10	06/15/1977	2.00
					06/15/1977	430.0	95		
					06/15/1977	7.9	400		
40	SC00509422CCD1	393534	1075603	8810.00	07/16/1979	7.7	400	07/16/1979	4.20
					07/16/1979	440.0	95		
					07/16/1979	7.0	10		
41	SC00509423CCC1	393537	1075460	8840.00	06/16/1977	7.2	400	06/16/1977	3.00
					06/16/1977	445.0	95		
					06/16/1977	6.0	10		
42	SC00509423DBB1	393555	1075430	8900.00	07/16/1979	7.4	400	07/16/1979	2.10
					07/16/1979	8.0	10		
					07/16/1979	440.0	95		
43	SC00509424CBB1	393556	1075357	8920.00	07/16/1979	7.3	400	07/16/1979	1.10
					07/16/1979	13.5	10		
					07/16/1979	400.0	95		
44	SC00509425CBA1	393501	1075348	9040.00	07/24/1979	8.1	400	07/24/1979	.10
					07/24/1979	11.0	10		
					07/24/1979	500.0	95		
45	SC00509426ABA1	393530	1075421	8840.00	07/27/1979	10.0	10	07/01/1979	.50
					07/27/1979	7.4	400		
					07/27/1979	450.0	95		
46	SC00509426DCA1	393451	1075422	8720.00	07/27/1979	7.5	10	07/25/1979	1.00
					07/27/1979	500.0	95		
					07/27/1979	7.9	400		
47	SC00509426DDD1	393443	1075401	8850.00	07/27/1979	7.5	10	07/27/1979	1.00
					07/27/1979	465.0	95		
					07/27/1979	7.6	400		

Table 16.--*Spring inventory data*--Continued

SPRING NUMBER IN FIGURE 5	LOCAL NUMBER	LATITUDE DEG-MIN-SEC	LONGITUDE DEG-MIN-SEC	ALTITUDE AT LSD	DATE	PARAMETER VALUE	PARAM CODE	DATE	DISCHARGE
48	SC00509428BDC1	393507	1075657	8670.00	09/25/1978	7.0	10	09/25/1978	1.00
					09/25/1978	410.0	95		
					09/25/1978	7.7	400		
49	SC00509429ABA1	393530	1075739	8550.00	06/15/1977	450.0	95	06/15/1977	5.00
					06/15/1977	5.0	10		
					06/15/1977	7.1	400		
50	SC00509429ABB1	393531	1075748	8500.00	06/15/1977	4.5	10	06/15/1977	2.00
					06/15/1977	380.0	95		
					06/15/1977	7.0	400		
51	SC00509429DDA1	393446	1075725	8608.00	07/19/1979	6.5	10	07/19/1979	2.50
					07/19/1979	420.0	95		
					07/19/1979	7.3	400		
52	SC00509431CDA1	393359	1075910	8320.00	07/17/1979	6.5	10	07/17/1979	7.50
					07/17/1979	475.0	95		
					07/17/1979	7.4	400		
53	SC00509431DCB1	393359	1075854	8340.00	07/17/1979	7.0	10	07/17/1979	1.00
					07/17/1979	470.0	95		
					07/17/1979	7.5	400		
54	SC00509432CAA1	393412	1075755	8600.00	07/17/1979	6.0	10	07/17/1979	12.00
					07/17/1979	450.0	95		
					07/17/1979	7.7	400		
55	SC00509432DAC1	393403	1075735	8565.00	07/17/1979	7.4	400	07/17/1979	1.00
					07/17/1979	500.0	95		
					07/17/1979	10.0	10		
56	SC00509433ACD1	393418	1075639	8235.00	09/25/1978	7.0	10	06/25/1978	6.00
					09/25/1978	7.5	400		
					09/25/1978	600.0	95		
57	SC00509434DDD1	393339	1075512	8760.00	07/24/1979	8.0	10	07/24/1979	3.00
					07/24/1979	460.0	95		
					07/24/1979	7.5	400		
58	SC00509435ACC1	393410	1075427	9070.00	07/24/1979	8.5	10	07/24/1979	2.00
					07/24/1979	345.0	95		
					07/24/1979	8.0	400		
59	SC00509435BBC1	393433	1075507	9040.00	07/25/1979	7.4	400	07/25/1979	20.00
					07/25/1979	495.0	95		
					07/25/1979	6.5	10		
60	SC00509435BDB1	393425	1075441	9000.00	07/24/1979	7.8	400	07/24/1979	3.00
					07/24/1979	440.0	95		
					07/24/1979	7.0	10		
61	SC00509502BAA1	393904	1080119	7955.00	08/08/1979	7.9	400	08/08/1979	.10
					08/08/1979	510.0	95		
					08/08/1979	8.0	10		
62	SC00509503ADA1	393843	1080153	7880.00	08/07/1979	8.0	400	08/07/1979	3.00
					08/07/1979	600.0	95		
					08/07/1979	8.0	10		
63	SC00509503CAA1	393830	1080227	7880.00	08/08/1979	8.0	400	08/08/1979	2.50
					08/08/1979	525.0	95		
					09/08/1979	9.0	10		

Table 16.--*Spring inventory data*--Continued

SPRING	LOCAL NUMBER	LATITUDE DEG-MIN-SEC	LONGITUDE DEG-MIN-SEC	ALTITUDE AT LSD	DATE	PARAMETER VALUE	PARAM CODE	DATE	DISCHARGE
64	SC00509510ABA1	393804	1080210	7695.00	08/08/1979	7.4	400	08/08/1979	4.00
					08/08/1979	865.0	95		
					08/08/1979	8.0	10		
65	SC00509510CBC1	393735	1080252	7770.00	08/08/1979	9.0	10	08/08/1979	2.00
					08/08/1979	630.0	95		
					08/08/1979	8.1	400		
66	SC00509514DAD1	393643	1080051	8070.00	07/17/1979	6.0	10	07/17/1979	4.00
					07/17/1979	370.0	95		
					07/17/1979	7.5	400		
67	SC00509514DAD2	393641	1080050	8080.00	07/17/1979	7.5	400	07/17/1979	3.00
					07/17/1979	430.0	95		
					07/17/1979	6.0	10		
68	SC00509515BCD1	393656	1080104	7870.00	07/17/1979	7.5	400	07/17/1979	3.00
					07/17/1979	450.0	95		
					07/17/1979	7.5	10		
69	SC00509515BDC1	393653	1080235	7800.00	07/18/1979	6.5	10	07/18/1979	.50
					07/18/1979	610.0	95		
					07/18/1979	7.4	400		
70	SC00509520DBA1	393555	1080422	7660.00	07/18/1979	7.6	400	07/18/1979	2.00
					07/18/1979	725.0	95		
					07/18/1979	6.5	10		
71	SC00509521CAD1	393549	1080338	7740.00	07/18/1979	7.6	400	07/18/1979	3.50
					07/18/1979	660.0	95		
					07/18/1979	8.5	10		
72	SC00509521DBA1	393552	1080320	7540.00	07/18/1979	7.6	400	07/18/1979	20.00
					07/18/1979	740.0	95		
					07/18/1979	8.5	10		
73	SC00509524ABA1	393619	1075957	8160.00	12/08/1977	7.7	400	12/08/1977	.10
					12/08/1977	540.0	95		
					12/08/1977	4.0	10		
74	SC00509525BDC1	393508	1080019	8220.00	07/17/1979	7.5	400	07/17/1979	1.00
					07/17/1979	410.0	95		
					07/17/1979	12.5	10		
75	SC00509536BAD1	393430	1080009	8110.00	07/17/1979	7.4	400	07/17/1979	25.00
					07/17/1979	500.0	95		
					07/17/1979	8.5	10		
76	SC00509536BDB1	393425	1080021	8080.00	07/17/1979	9.0	10	07/17/1979	19.00
					07/17/1979	500.0	95		
					07/17/1979	7.4	400		
77	SC00509536CAA1	393409	1080007	8140.00	07/17/1979	8.0	10	07/17/1979	1.10
					07/17/1979	490.0	95		
					07/17/1979	7.3	400		

Table 16.--*Spring inventory data*--Continued

SPRING NUMBER IN FIGURE 5	LOCAL NUMBER	LATITUDE DEG-MIN-SEC	LONGITUDE DEG-MIN-SEC	ALTITUDE AT LSD	DATE	PARAMETER VALUE	PARAM CODE	DATE	DISCHARGE
78	SC00609406BAB1	393343	1075559	8840.00	07/25/1979	6.5	10	07/25/1976	.10
					07/25/1979	390.0	95		
					07/25/1979	7.6	400		
79	SC00609406CBA1	393314	1075602	8880.00	07/25/1979	7.6	400	07/25/1979	.50
					07/25/1979	415.0	95		
					07/25/1979	7.0	10		
80	SC00609406CCD1	393255	1075605	8640.00	07/25/1979	7.5	10	07/25/1979	2.50
					07/25/1979	585.0	95		
					07/25/1979	7.4	400		
81	SC00609406DCB1	393259	1075538	8810.00	07/25/1979	7.0	10	07/25/1979	4.00
					07/25/1979	750.0	95		
					07/25/1979	7.3	400		
82	SC00609511ADD1	393225	1075724	8630.00	09/18/1975	500.0	95	09/18/1975	.00
					09/18/1975	8.1	400		
					09/18/1975	14.5	10		
83	SC00609501CCA1	393300	1075715	8400.00	07/24/1979	7.0	10	07/24/1979	10.00
					07/24/1979	540.0	95		
					07/24/1979	7.1	400		
84	SC00609501CCB1	393256	1075721	8240.00	07/25/1979	6.5	10	07/25/1979	.50
					07/25/1979	480.0	95		
					07/25/1979	8.1	400		
85	SC00609501DAD1	393303	1075621	8830.00	07/24/1979	7.6	400	07/24/1979	.50
					07/24/1979	445.0	95		
					07/24/1979	11.0	10		
86	SC00609501DCA1	393251	1075640	8630.00	07/24/1979	7.1	400	07/24/1979	1.00
					07/24/1979	520.0	95		
					07/24/1979	7.0	10		
87	SC00609504AAA1	393347	1075943	8200.00	07/17/1979	7.3	400	07/17/1979	.20
					07/17/1979	520.0	95		
					07/17/1979	9.0	10		
88	SC00609511ADD2	393222	1075725	8635.00	07/24/1979	480.0	95	07/24/1979	2.00
					07/24/1979	7.4	400		

Table 17.-- *Water-quality analyses and instantaneous flow measurements for miscellaneous spring and surface-water sites*

Type of site: SP, spring; SW, surface water.

SITE NUMBER IN FIGURE 7	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	SEQ. NO.	SITE	DATE OF SAMPLE (Y-M-D)	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)
1	SC00609511ADD1	39 32 25	107 57 24	00	SP	75-09-18	1400	.01	500	8.1	14.5
2	SC00509407BBA1	39 32 45	107 56 03	01	SP	79-09-07	1330	--	--	--	--
3	SC00509406DCB1	39 32 59	107 55 38	01	SP	79-07-25	0900	.01	750	7.3	7.0
4	SC00609501CCA1	39 33 00	107 57 15	01	SP	79-07-24	1500	.02	540	7.1	7.0
5	SC00609406CBA1	39 33 14	107 56 02	01	SP	79-07-25	1200	.00	415	7.6	7.0
6	SC00509433ACD1	39 34 18	107 56 39	01	SP	78-09-25	1230	--	600	7.6	7.0
7	SC00509329DBA1	39 35 03	107 50 59	01	SP	78-07-18	1330	.01	900	7.9	17.0
8	SC00509423CCA1	39 35 40	107 55 00	01	SP	79-09-11	1100	--	--	--	--
9	SC00509520DBA1	39 35 55	108 04 22	01	SP	79-07-18	1330	.01	725	7.6	6.5
10	SC00509414AAA1	39 37 13	107 54 32	00	SP	75-09-18	1630	.00	580	7.7	9.5
11	SC00509510ABA1	39 38 04	108 02 10	01	SP	79-08-08	1030	--	865	7.5	8.0
12	SC00509407AAA1	39 38 08	107 58 36	01	SP	79-08-07	1430	--	510	7.8	8.0
13	SC00509503ADA1	39 38 43	108 01 53	01	SP	79-08-07	2015	--	600	8.0	8.0
14	SC00609417CCA1	39 31 13	107 55 03	01	SW	78-06-02	1130	.20	1490	8.6	18.0
					SW	79-04-10	1330	E1.0	1950	--	7.0
					SW	79-07-06	1245	.00	2000	8.5	19.5
15	SC00609417CBB1	39 31 26	107 55 10	01	SW	79-04-10	1300	E.10	3600	--	10.0
16	SC006094 18 CAA1	39 31 28	107 55 40	01	SW	78-06-02	1330	.30	1000	8.7	20.5
17	SC006094 18 BAD1	39 31 31	107 55 55	01	SW	78-06-02	1430	.05	3350	8.9	23.8
18	SC006094 17 BCC1	39 31 33	107 55 12	01	SW	78-06-02	1515	.20	1200	8.6	20.5
					SW	79-04-10	1230	.80	1750	--	7.0
					SW	79-07-06	1030	.01	1300	8.5	14.5
19	SC00509426DCC1	39 35 36	107 54 20	00	SW	75-09-17	1830	.10	500	8.5	12.5
20	SC00509515BAA1	39 37 10	108 02 24	01	SW	78-09-26	1500	--	595	8.5	13.0
21	SC00509512CCC1	39 37 19	108 00 41	00	SW	75-09-17	1300	1.1	520	8.7	15.0
22	SC00509512CCC2	39 37 20	108 00 40	00	SW	75-09-17	1400	.52	560	8.7	15.5

Table 17.--*Water-quality analyses and instantaneous flow measurements for miscellaneous spring and surface-water sites*--Continued

SITE NUMBER IN FIGURE 7	LOCAL IDENTIFIER	DATE OF SAMPLE (Y-M-D)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	SODIUM+POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)
1	SC00509511ADD1	75-09-18	210	0	52	19	32	25	1.0	--	1.0
2	SC00509407BBA1	79-09-07	290	0	75	25	17	11	.4	17	.2
3	SC00509406DCB1	79-07-25	300	32	73	29	16	10	.4	16	.2
4	SC00609501CCA1	79-07-24	230	0	55	22	24	19	.7	24	.3
5	SC00609406CBA1	79-07-25	150	0	41	12	23	33	.9	23	.4
6	SC00509433ACD1	78-09-25	280	0	67	27	24	16	.6	--	.3
7	SC00509329DBA1	78-07-18	320	0	68	36	83	36	2.0	--	1.4
8	SC00509423CCA1	79-09-11	170	0	45	14	32	29	1.1	32	.4
9	SC00509520DBA1	79-07-18	250	0	47	32	71	57	2.0	72	.8
10	SC00509414ABB1	75-09-18	260	0	63	24	30	20	.8	--	.6
11	SC00509510ABA1	79-08-08	350	150	77	38	4.0	2	.1	4.4	.4
12	SC00509407AAA1	79-08-07	200	26	49	18	12	12	.4	13	.8
13	SC00509503ADA1	79-08-07	350	99	77	38	3.0	2	.1	3.6	.6
14	SC00609417CCA1	78-06-02	500	250	84	69	150	40	2.9	--	5.0
		79-04-10	750	530	160	85	140	29	2.2	150	6.4
		79-07-06	580	370	94	83	210	65	3.8	220	11
15	SC00609417CBB1	79-04-10	1300	700	260	150	420	42	5.1	430	11
16	SC006094 18 CAA1	78-06-02	320	110	53	46	98	40	2.4	--	2.0
17	SC006094 18 BAD1	78-06-02	570	30	64	100	680	72	12	--	10
18	SC006094 17 BCC1	78-06-02	430	240	66	65	100	33	2.1	--	3.0
		79-04-10	710	490	150	80	180	36	3.0	--	5.7
		79-07-06	450	260	70	68	130	61	2.7	130	3.9
19	SC00509426DCC1	75-09-17	240	0	61	21	21	16	.6	--	1.0
20	SC00509515BAA1	78-09-26	240	0	57	23	43	28	1.2	--	.8
21	SC00509512CCC1	75-09-17	220	0	53	21	33	25	1.0	--	.7
22	SC00509512CCC2	75-09-17	220	0	51	23	41	29	1.2	--	1.0

Table 17.-- *Water-quality analyses and instantaneous flow measurements for miscellaneous spring and surface-water sites*--Continued

SITE NUMBER IN FIGURE 7	LOCAL IDENTIFIER	DATE OF SAMPLE (Y-M-D)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)
1	SC00509511ADD1	75-09-18	282	0	231	3.6	34	1.3	.1	22	--
2	SC00509407BBA1	79-09-07	--	--	290	--	33	1.4	.2	18	--
3	SC00509406DCB1	79-07-25	--	--	270	--	36	1.8	.1	15	--
4	SC00609501CCA1	79-07-24	--	--	260	--	22	1.7	.2	19	--
5	SC00509406CBA1	79-07-25	--	--	180	--	23	2.8	.1	22	--
6	SC00509433ACD1	78-09-25	360	0	300	16	22	--	--	--	--
7	SC00509329DBA1	78-07-18	400	0	330	8.1	100	3.4	.3	19	--
8	SC00509423CCA1	79-09-11	--	--	220	--	13	1.2	.1	22	--
9	SC00509520DBA1	79-07-18	--	--	270	--	120	7.5	.2	20	--
10	SC00509414ABB1	75-09-18	346	0	284	11	25	2.2	.1	20	--
11	SC00509510ABA1	79-08-08	--	--	200	--	130	3.4	.2	22	--
12	SC00509407AAA1	79-08-07	--	--	170	--	36	2.9	.2	8.8	--
13	SC00509503ADA1	79-08-07	--	--	250	--	88	4.1	.2	2.3	--
14	SC00609417CCA1	78-06-02	270	12	240	1.2	490	11	1.0	14	--
		79-04-10	270	--	220	--	840	5.3	.8	9.7	--
		79-07-06	--	--	210	--	820	8.9	--	--	1520
15	SC00609417CBB1	79-04-10	700	--	570	--	1500	11	2.6	11	2950
16	SC005094 18 CAA1	78-06-02	230	13	210	.8	270	2.3	.6	14	--
17	SC005094 18 BAD1	78-06-02	530	65	540	1.3	1300	5.3	4.9	9.7	--
18	SC005094 17 BCC1	78-06-02	210	13	190	1.0	410	1.9	1.0	15	--
		79-04-10	--	--	220	--	800	2.7	.7	9.8	--
		79-07-06	--	--	190	--	490	1.9	--	--	973
19	SC00509426DCC1	75-09-17	318	0	261	1.6	15	1.6	.1	17	--
20	SC00509515BAA1	78-09-26	330	2	270	1.7	49	2.4	.4	17	--
21	SC00509512CCC1	75-09-17	290	5	246	1.0	29	1.7	.2	16	--
22	SC00509512CCC2	75-09-17	295	6	252	1.0	46	2.5	.2	18	--

Table 17.-- *Water-quality analyses and instantaneous flow measurements for miscellaneous spring and surface-water sites*-- Continued

SITE NUMBER IN FIGURE 7	LOCAL IDENTIFIER	DATE OF SAMPLE (Y-M-D)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)
1	SC00509511ADD1	75-09-18	302	.41	.00	--	--	.06	--	.000	.00
2	SC00509407BBA1	79-09-07	350	.48	--	--	--	1.2	.010	.000	.00
3	SC00509406DCB1	79-07-25	342	.47	.01	--	--	2.0	.020	--	--
4	SC00509501CCA1	79-07-24	306	.42	.02	--	--	1.3	.020	--	--
5	SC00509406CBA1	79-07-25	250	.34	.00	--	--	3.9	.040	--	--
6	SC00509433ACD1	78-09-25	--	--	--	--	--	--	--	--	--
7	SC00509329DBA1	78-07-18	514	.70	.01	--	--	1.0	--	--	--
8	SC00509423CCA1	79-09-11	263	.36	--	--	--	.74	.990	.050	.15
9	SC00509520DBA1	79-07-18	467	.64	.01	--	--	1.5	.050	--	--
10	SC00509414ABB1	75-09-18	342	.47	.00	--	--	1.3	--	.020	.06
11	SC00509510ABA1	79-08-08	395	.54	--	--	--	.00	.010	--	--
12	SC00509407AAA1	79-08-07	231	.31	--	--	--	.31	.020	--	--
13	SC00509503ADA1	79-08-07	367	.50	--	--	--	.88	.030	--	--
14	SC00509417CCA1	78-06-02	988	1.34	.53	1090	--	3.7	--	.010	.03
		79-04-10	1400	1.90	3.78	15600	4.7	4.8	--	.000	.00
		79-07-06	--	2.07	.02	--	--	--	--	--	--
15	SC00509417CBB1	79-04-10	2730	4.01	.80	2980	2.6	2.5	--	.000	.00
16	SC005094 18 CAA1	78-06-02	624	.85	.51	--	--	2.3	--	.010	.03
17	SC005094 18 BAD1	78-06-02	2530	3.44	.34	--	--	4.9	--	.010	.03
18	SC005094 17 BCC1	78-06-02	797	1.08	.43	--	--	3.7	--	.010	.03
		79-04-10	1380	1.88	2.98	--	--	4.6	.010	.070	.21
		79-07-06	--	1.32	.02	--	--	--	--	--	--
19	SC00509426DCC1	75-09-17	296	.40	.08	--	--	.12	--	.030	.09
20	SC00509515BAA1	78-09-26	359	.49	--	--	--	.05	--	--	--
21	SC00509512CCC1	75-09-17	304	.41	.89	--	--	.06	--	.030	.09
22	SC00509512CCC2	75-09-17	335	.46	.47	--	--	.02	--	.010	.03

Table 17.--*Water-quality analyses and instantaneous flow measurements for miscellaneous spring and surface-water sites*--Continued

SITE NUMBER IN FIGURE 7	LOCAL IDENTIFIER	DATE OF SAMPLE (Y-M-D)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOV. (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, TOTAL RECOVERABLE (UG/L AS B)
1	SC00609511ADD1	75-09-18	--	--	--	--	6	--	--	<200	--
2	SC00509407BBA1	79-09-07	--	--	--	--	2	--	--	90	--
3	SC00609406DCB1	79-07-25	--	--	--	--	--	--	--	--	--
4	SC00809501CCA1	79-07-24	--	--	--	--	--	--	--	--	--
5	SC00609406CBA1	79-07-25	--	--	--	--	--	--	--	--	--
6	SC00509433ACD1	78-09-25	--	--	--	--	2	--	--	90	--
7	SC00509329DBA1	78-07-19	--	--	0	--	3	--	--	200	--
8	SC00509423CCA1	79-09-11	--	--	--	--	5	--	--	90	--
9	SC00509520DBA1	79-07-18	--	--	--	--	--	--	--	--	--
10	SC00509414ABB1	75-09-18	--	--	--	--	10	--	--	<200	--
11	SC00509510ABA1	79-08-08	--	--	--	--	--	--	--	--	--
12	SC00509407AAA1	79-08-07	--	--	--	--	--	--	--	--	--
13	SC00509503ADA1	79-08-07	--	--	--	--	--	--	--	--	--
14	SC00509417CCA1	78-06-02	10000	10000	0	3	1	100	--	100	380
		79-04-10	50	30	20	20	1	800	800	0	420
		79-07-06	--	--	--	3	2	--	--	--	370
15	SC00509417CBB1	79-04-10	2200	1600	640	11	10	100	100	0	910
16	SC006094 18 CAA1	78-06-02	--	--	0	--	2	--	--	50	--
17	SC006094 18 BAD1	78-06-02	--	--	10	--	8	--	--	100	--
18	SC006094 17 BCC1	78-06-02	--	--	30	--	1	--	--	100	--
		79-04-10	--	--	110	--	1	--	--	0	--
		79-07-06	--	--	--	2	1	--	--	--	290
19	SC00509426DCC1	75-09-17	--	--	--	--	9	--	--	<200	--
20	SC00509515BAA1	78-09-26	--	--	--	--	4	--	--	100	--
21	SC00509512CCC1	75-09-17	--	--	--	--	7	--	--	<200	--
22	SC00509512CCC2	75-09-17	--	--	--	--	4	--	--	<200	--

Table 17.-- *Water-quality analyses and instantaneous flow measurements for miscellaneous spring and surface-water sites*--Continued

SITE NUMBER IN FIGURE 7	LOCAL IDENTIFIER	DATE OF SAMPLE (Y-M-D)	BORON, SUSPENDED RECOVERABLE (UG/L AS B)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
1	SC00609511ADD1	75-09-18	--	20	--	--	0	--	--	0	--
2	SC00509407BBA1	79-09-07	--	--	--	--	<1	4	--	--	--
3	SC00609406DCB1	79-07-25	--	--	--	--	--	--	--	--	--
4	SC00609501CCA1	79-07-24	--	--	--	--	--	--	--	--	--
5	SC00509406CBA1	79-07-25	--	--	--	--	--	--	--	--	--
6	SC00509433ACD1	78-09-25	--	40	--	--	<1	--	--	2	--
7	SC00509329DBA1	78-07-18	--	120	--	--	1	--	--	3	--
8	SC00509423CCA1	79-09-11	--	--	--	--	<1	2	--	--	--
9	SC00509520DBA1	79-07-18	--	--	--	--	--	--	--	--	--
10	SC00509414ABB1	75-09-18	--	30	--	--	0	--	--	2	--
11	SC00509510ABA1	79-08-08	--	--	--	--	--	--	--	--	--
12	SC00509407AAA1	79-08-07	--	--	--	--	--	--	--	--	--
13	SC00509503ADA1	79-08-07	--	--	--	--	--	--	--	--	--
14	SC00609417CCA1	78-06-02	--	330	1	0	3	--	0	--	1500
		79-04-10	170	250	1	0	3	--	0	3	160000
		79-07-06	0	390	--	--	--	--	--	--	--
15	SC00609417CBB1	79-04-10	0	980	2	0	2	--	0	4	2500
16	SC005094 18 CAA1	78-06-02	--	140	--	--	2	--	--	--	--
17	SC005094 18 BAD1	78-06-02	--	1600	--	--	2	--	--	--	--
18	SC006094 17 BCC1	78-06-02	--	310	--	--	1	--	--	--	--
		79-04-10	--	240	--	--	4	--	--	3	--
		79-07-06	0	340	--	--	--	--	--	--	--
19	SC00509426DCC1	75-09-17	--	10	--	--	0	--	--	1	--
20	SC00509515BAA1	78-09-26	--	50	--	--	0	--	--	0	--
21	SC00509512CCC1	75-09-17	--	30	--	--	0	--	--	0	--
22	SC00509512CCC2	75-09-17	--	40	--	--	0	--	--	0	--

Table 17.--*Water-quality analyses and instantaneous flow measurements for miscellaneous spring and surface-water sites*--Continued

SITE NUMBER IN FIGURE 7	LOCAL IDENTIFIER	DATE OF SAMPLE (Y-M-D)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)
1	SC00609511ADD1	75-09-18	--	40	--	--	0	--	--	10	10
2	SC00509407BBA1	79-09-07	--	<10	--	--	0	--	--	--	<1
3	SC00609406DCB1	79-07-25	--	10	--	--	--	--	--	--	<1
4	SC00609501CCA1	79-07-24	--	20	--	--	--	--	--	--	<1
5	SC00609406CBA1	79-07-25	--	10	--	--	--	--	--	--	<1
6	SC00509433ACD1	78-09-25	--	<10	--	--	1	--	--	6	<1
7	SC005D9329DBA1	78-07-18	--	10	--	--	5	--	--	20	0
8	SC00509423CCA1	79-09-11	--	<10	--	--	0	--	--	--	3
9	SC00509520D9A1	79-07-18	--	10	--	--	--	--	--	--	<1
10	SC00509414ABB1	75-09-18	--	20	--	--	0	--	--	10	130
11	SC00509510ABA1	79-08-08	--	20	--	--	--	--	--	--	10
12	SC00509407AAA1	79-08-07	--	<10	--	--	--	--	--	--	1
13	SC00509503ADA1	79-08-07	--	<10	--	--	--	--	--	--	10
14	SC00609417CCA1	78-06-02	1500	40	4	--	4	70	--	70	30
		79-04-10	160000	30	140	130	14	390	280	110	20
		79-07-06	--	--	--	--	--	130	0	130	--
15	SC00609417CBB1	79-04-10	2500	40	26	9	17	170	0	180	100
16	SC005094 18 CAA1	78-06-02	--	0	--	--	2	--	--	40	10
17	SC005094 18 BAD1	78-06-02	--	40	--	--	0	--	--	120	0
18	SC005094 17 BCC1	78-06-02	--	20	--	--	0	--	--	50	0
		79-04-10	--	20	--	--	42	--	--	90	10
		79-07-06	--	--	--	--	--	50	0	50	--
19	SC00509426DCC1	75-09-17	--	20	--	--	0	--	--	0	10
20	SC00509515BAA1	78-09-26	--	50	--	--	1	--	--	9	0
21	SC00509512CCC1	75-09-17	--	0	--	--	0	--	--	10	10
22	SC00509512CCC2	75-09-17	--	0	--	--	0	--	--	10	0

Table 17.--*Water-quality analyses and instantaneous flow measurements for miscellaneous spring and surface-water sites*--Continued

SITE NUMBER IN FIGURE 7	LOCAL IDENTIFIER	DATE OF SAMPLE (Y-M-D)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, SUSPENDED RECOV. (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR)
1	SC00509511ADD1	75-09-18	.0	--	--	--	--	--	0	--	--
2	SC00509407BBA1	79-09-07	.0	--	--	--	--	--	2	0	--
3	SC00509406DCB1	79-07-25	--	--	--	--	--	--	--	--	--
4	SC00609501CCA1	79-07-24	--	--	--	--	--	--	--	--	--
5	SC00509406CBA1	79-07-25	--	--	--	--	--	--	--	--	--
6	SC00509433ACD1	78-09-25	.0	--	--	--	--	--	1	--	--
7	SC00509329DBA1	78-07-18	--	--	--	--	--	--	2	--	--
8	SC00509423CCA1	79-09-11	.0	--	--	--	--	--	0	0	--
9	SC00509520DBA1	79-07-18	--	--	--	--	--	--	--	--	--
10	SC00509414ABB1	75-09-18	.0	--	--	--	--	--	1	--	--
11	SC00509510ABA1	79-08-08	--	--	--	--	--	--	--	--	--
12	SC00509407AAA1	79-08-07	--	--	--	--	--	--	--	--	--
13	SC00509503ADA1	79-08-07	--	--	--	--	--	--	--	--	--
14	SC00609417CCA1	78-06-02	--	95	--	89	9	--	10	--	1200
		79-04-10	.0	33	0	70	21	7	14	--	2100
		79-07-06	.0	48	0	83	10	0	10	--	--
15	SC00509417CBB1	79-04-10	.0	1600	1500	120	11	4	7	--	3200
16	SC006094 18 CAA1	78-06-02	--	--	--	30	--	--	6	--	--
17	SC006094 18 BAD1	78-06-02	--	--	--	590	--	--	12	--	--
18	SC006094 17 BCC1	78-06-02	--	--	--	83	--	--	10	--	--
		79-04-10	.0	--	--	57	--	--	15	--	--
		79-07-06	.0	51	0	93	10	0	11	--	--
19	SC00509426DCC1	75-09-17	.0	--	--	--	--	--	0	--	--
20	SC00509515BAA1	78-09-26	.0	--	--	--	--	--	1	--	--
21	SC00509512CCC1	75-09-17	.0	--	--	--	--	--	0	--	--
22	SC00509512CCC2	75-09-17	.2	--	--	--	--	--	0	--	--

Table 17.-- *Water-quality analyses and instantaneous flow measurements for miscellaneous spring and surface-water sites*--Continued

SITE NUMBER IN FIGURE 7	LOCAL IDENTIFIER	DATE OF SAMPLE (Y-M-D)	STRONTIUM, SUSPENDED RECOV, (UG/L AS SR)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	PHENOLS (UG/L)	ALDRIN, DISSOLVED (UG/L)	CHLORDANE, DISSOLVED (UG/L)
1	SC00509511ADD1	75-09-18	--	610	--	--	0	--	--	--	--
2	SC00509407BBA1	79-09-07	--	--	--	--	--	--	--	--	--
3	SC00609406DCB1	79-07-25	--	--	--	--	--	--	--	--	--
4	SC00509501CCA1	79-07-24	--	--	--	--	--	--	--	--	--
5	SC00609406CBA1	79-07-25	--	--	--	--	--	--	--	--	--
6	SC00509433ACD1	78-09-25	--	630	--	--	<3	--	--	--	--
7	SC00509329DBA1	78-07-18	--	670	--	--	40	--	--	--	--
8	SC00509423CCA1	79-09-11	--	--	--	--	--	--	--	.00	.0
9	SC00509520DBA1	79-07-18	--	--	--	--	--	--	--	--	--
10	SC00509414ABB1	75-09-18	--	550	--	--	10	--	--	--	--
11	SC00509510ABA1	79-08-08	--	--	--	--	--	--	--	--	--
12	SC00509407AAA1	79-08-07	--	--	--	--	--	--	--	--	--
13	SC00509503ADA1	79-08-07	--	--	--	--	--	--	--	--	--
14	SC00609417CCA1	78-06-02	--	1500	20	10	10	6.8	0	--	--
		79-04-10	200	1900	1100	1100	20	--	7	--	--
		79-07-06	--	--	--	--	--	8.8	5	--	--
15	SC00609417CBB1	79-04-10	0	3200	40	10	30	--	80	--	--
16	SC006094 18 CAA1	78-06-02	--	960	--	--	10	--	--	--	--
17	SC006094 18 BAD1	78-06-02	--	1700	--	--	10	--	--	--	--
18	SC006094 17 BCC1	78-06-02	--	1300	--	--	10	--	--	--	--
		79-04-10	--	1800	--	--	10	--	--	--	--
		79-07-06	--	--	--	--	--	4.8	0	--	--
19	SC00509426DCC1	75-09-17	--	560	--	--	0	--	--	--	--
20	SC00509515BAA1	78-09-26	--	970	--	--	0	--	--	--	--
21	SC00509512CCC1	75-09-17	--	820	--	--	0	--	--	--	--
22	SC00509512CCC2	75-09-17	--	740	--	--	10	--	--	--	--

Table 17.--*Water-quality analyses and instantaneous flow measurements for miscellaneous spring and surface-water sites*--Continued

SITE NUMBER IN FIGURE 7	LOCAL IDENTIFIER	DATE OF SAMPLE (Y-M-D)	DDD, DISSOLVED (UG/L)	DDE, DISSOLVED (UG/L)	DDT, DISSOLVED (UG/L)	DIELDRIN DISSOLVED (UG/L)	ENDRIN, DISSOLVED (UG/L)	HEPTACHLOR, DISSOLVED (UG/L)	HEPTACHLOR EPOXIDE DISSOLVED (UG/L)	PCB, DISSOLVED (UG/L)	2,4-D, DISSOLVED (UG/L)
1	SC00609511AUD1	75-09-18	--	--	--	--	--	--	--	--	--
2	SC00609407BBA1	79-09-07	--	--	--	--	--	--	--	--	.00
3	SC00609406DCB1	79-07-25	--	--	--	--	--	--	--	--	--
4	SC00609501CCA1	79-07-24	--	--	--	--	--	--	--	--	--
5	SC00609406CBA1	79-07-25	--	--	--	--	--	--	--	--	--
6	SC00509433ACD1	78-09-25	--	--	--	--	--	--	--	--	--
7	SC00509329DBA1	78-07-18	--	--	--	--	--	--	--	--	--
8	SC00509423CCA1	79-09-11	.00	.00	.00	.00	.00	.00	.00	.0	.00
9	SC00509520DBA1	79-07-18	--	--	--	--	--	--	--	--	--
10	SC00509414ABB1	75-09-19	--	--	--	--	--	--	--	--	--
11	SC00509510ABA1	79-08-09	--	--	--	--	--	--	--	--	--
12	SC00509407AAA1	79-08-07	--	--	--	--	--	--	--	--	--
13	SC00509503ADA1	79-08-07	--	--	--	--	--	--	--	--	--
14	SC00509417CCA1	78-06-02	--	--	--	--	--	--	--	--	--
		79-04-10	--	--	--	--	--	--	--	--	--
		79-07-06	--	--	--	--	--	--	--	--	--
15	SC00509417CBB1	79-04-10	--	--	--	--	--	--	--	--	--
16	SC005094 18 CAA1	78-06-02	--	--	--	--	--	--	--	--	--
17	SC005094 18 BAD1	78-06-02	--	--	--	--	--	--	--	--	--
18	SC005094 17 BCC1	78-06-02	--	--	--	--	--	--	--	--	--
		79-04-10	--	--	--	--	--	--	--	--	--
		79-07-06	--	--	--	--	--	--	--	--	--
19	SC00509426DCC1	75-09-17	--	--	--	--	--	--	--	--	--
20	SC00509515BAA1	78-09-26	--	--	--	--	--	--	--	--	--
21	SC00509512CCC1	75-09-17	--	--	--	--	--	--	--	--	--
22	SC00509512CCC2	75-09-17	--	--	--	--	--	--	--	--	--

Table 17.—*Water-quality analyses and instantaneous flow measurements for miscellaneous spring and surface-water sites*—Continued

SITE NUMBER IN FIGURE 7	LOCAL IDENTIFIER	DATE OF SAMPLE (Y-M-D)	2,4,5-T DISSOLVED (UG/L)	MIREX, DISSOLVED (UG/L)	SILVEX, DISSOLVED (UG/L)	LINDANE DISSOLVED (UG/L)	TOXAPHENE, DISSOLVED (UG/L)
1	SC00609511ADD1	75-09-18	--	--	--	--	--
2	SC00609407BBA1	79-09-07	.00	--	.00	--	--
3	SC00609406DCB1	79-07-25	--	--	--	--	--
4	SC00609501CCA1	79-07-24	--	--	--	--	--
5	SC00609406CBA1	79-07-25	--	--	--	--	--
6	SC00509433ACD1	78-09-25	--	--	--	--	--
7	SC00509329DBA1	78-07-18	--	--	--	--	--
8	SC00509423CCA1	79-09-11	.00	.00	.00	.00	0
9	SC00509520DBA1	79-07-18	--	--	--	--	--
10	SC00509414ABB1	75-09-18	--	--	--	--	--
11	SC00509510ABA1	79-08-08	--	--	--	--	--
12	SC00509407AAA1	79-08-07	--	--	--	--	--
13	SC00509503ADA1	79-08-07	--	--	--	--	--
14	SC00609417CCA1	78-06-02	--	--	--	--	--
		79-04-10	--	--	--	--	--
		79-07-06	--	--	--	--	--
15	SC00609417CBB1	79-04-10	--	--	--	--	--
16	SC006094 18 CAA1	78-06-02	--	--	--	--	--
17	SC006094 18 BAD1	78-06-02	--	--	--	--	--
18	SC006094 17 BCC1	78-06-02	--	--	--	--	--
		79-04-10	--	--	--	--	--
		79-07-06	--	--	--	--	--
19	SC00509426DCC1	75-09-17	--	--	--	--	--
20	SC00509515BAA1	78-09-26	--	--	--	--	--
21	SC00509512CCC1	75-09-17	--	--	--	--	--
22	SC00509512CCC2	75-09-17	--	--	--	--	--

Table 18.--*Mean air temperature at JQS weather station for water years 1978 and 1979*

STATION NUMBER 393529107545900 JQS WEATHER STATION-NAVAL OIL SHALE RESERVE, CO. METEOROLOGICAL SOURCE AGENCY USGS
LATITUDE 393529 LONGITUDE 1075459

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	1.0	8.0	15.5	13.5	16.0
2							---	2.5	11.0	17.0	16.5	16.5
3							---	3.5	10.0	13.5	13.5	17.5
4							---	.5	6.5	---	14.5	18.5
5							---	-4.0	4.5	16.5	17.0	19.0
6							---	-3.5	8.5	13.0	17.5	18.5
7							---	-3.5	10.0	16.0	16.5	13.5
8							---	-0.5	11.0	17.0	17.5	12.0
9							---	3.0	15.0	16.5	17.0	14.0
10							---	8.5	16.5	16.0	17.0	14.0
11							---	8.0	11.0	14.0	17.5	4.5
12							---	3.5	14.5	16.5	17.0	3.0
13							1.5	1.0	16.0	18.5	11.5	5.5
14							4.0	14.0	16.0	20.5	5.0	9.0
15							1.5	14.5	15.5	17.5	8.0	10.0
16							2.0	9.5	14.5	17.0	15.0	11.5
17							-5.0	-2.0	10.5	14.5	14.0	10.5
18							-1.5	2.5	14.0	15.5	5.0	8.0
19							1.5	6.0	14.5	17.0	11.5	-4.0
20							5.0	8.0	12.5	18.0	14.5	-2.5
21							-1.0	6.5	16.5	16.5	15.5	2.5
22							-3.0	9.0	16.5	14.5	13.5	9.5
23							2.0	11.5	18.0	16.5	15.5	12.0
24							5.0	9.0	18.5	17.5	16.5	12.5
25							8.5	8.5	15.0	19.0	16.0	11.5
26							9.5	8.0	12.5	18.5	16.0	12.5
27							2.5	6.0	16.5	19.5	15.0	13.5
28							3.0	7.0	14.0	17.5	12.5	6.0
29							1.5	9.5	10.5	14.5	13.5	12.0
30							1.5	7.5	13.0	15.5	14.5	11.0
31							---	3.5	---	16.5	16.5	---
TOTAL							38.5	158.5	391.0	496.0	444.5	318.0
MEAN							2.0	5.0	13.0	16.5	14.5	10.5
MAX							9.5	14.5	18.5	20.5	17.5	19.0
MIN							-5.0	-4.0	4.5	13.0	5.0	-4.0

WTR YR 1978 TOTAL 1846.5 MEAN 11.0 MAX 20.5 MIN -5.0

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 18.--*Mean air temperature at JQS weather station for water years 1978 and 1979*--Continued

STATION NUMBER 393529107545900 JQS WEATHER STATION-NAVAL OIL SHALE RESERVE, CO. METEOROLOGICAL SOURCE AGENCY USGS
LATITUDE 393529 LONGITUDE 1075459

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.5	6.5	-2.5	-24.5	-11.5	-4.0	-9.5	2.5	5.5	14.5	17.5	14.5
2	7.5	-1.0	-14.0	-17.0	-10.5	-5.5	-10.5	1.0	8.5	12.5	17.5	15.5
3	6.5	5.0	-15.5	-7.5	-13.5	-11.0	-9.0	-2.0	11.0	12.0	18.5	16.5
4	9.5	6.5	-6.5	-4.5	-11.5	-10.5	-6.0	3.5	12.5	12.5	20.5	16.5
5	7.5	4.0	-9.0	-6.0	-11.5	-6.0	.0	7.5	13.5	15.5	21.5	17.0
6	9.5	.5	-17.0	-10.5	-8.0	-1.5	4.0	4.0	13.0	13.0	20.0	17.0
7	10.0	3.5	-22.5	-15.0	-5.5	1.0	2.5	-3.0	6.0	15.5	18.0	17.5
8	10.0	7.5	-21.5	12.5	-4.5	-3.5	2.5	-3.0	.0	17.0	15.0	17.5
9	9.5	7.0	-14.5	-10.5	-4.0	-10.0	2.5	-3.5	2.5	17.0	15.5	18.0
10	10.5	-7.0	-11.0	-9.0	-2.5	-6.5	-4.0	-4.0	9.0	18.5	15.0	14.5
11	10.0	-9.0	-7.5	-4.0	-0.5	-0.5	-7.0	-2.0	12.0	17.5	16.5	13.5
12	9.5	-3.5	-5.5	-3.5	1.0	-1.0	-6.5	.5	15.5	14.0	17.5	9.0
13	4.5	-6.5	-9.5	-12.0	4.0	-1.5	-2.0	7.0	17.0	20.5	14.0	7.0
14	7.5	-9.0	-4.0	-9.5	2.5	.5	3.5	9.0	17.0	18.5	10.0	6.0
15	9.5	-9.0	-5.5	-5.0	-3.0	-1.5	7.0	10.5	16.0	18.0	9.5	10.0
16	10.0	-10.0	-9.5	-4.0	-3.0	-1.0	8.5	8.0	14.0	17.5	8.0	13.0
17	9.0	-11.5	-1.5	-6.0	-6.0	-4.0	7.5	10.0	13.5	18.0	9.5	13.0
18	6.0	-10.0	.0	-2.0	-6.0	-6.0	6.0	11.5	7.0	15.0	7.5	14.0
19	8.5	-1.5	-4.0	-8.0	-4.0	-4.0	-1.0	10.0	6.5	16.0	7.0	12.5
20	6.0	.0	-10.0	-9.5	-6.5	-3.0	.0	10.5	10.5	14.5	8.0	11.5
21	3.5	1.0	-9.5	-7.0	-5.0	-3.0	5.5	11.5	11.0	15.5	11.5	11.5
22	-0.5	-1.0	-7.5	-12.0	-7.5	-5.0	6.5	12.0	14.5	14.0	13.0	12.5
23	1.0	-3.5	-7.5	-15.5	-7.5	-6.0	8.0	12.0	13.5	13.5	14.0	14.0
24	3.0	-5.5	-6.0	-10.0	-8.5	-2.5	5.5	8.5	15.0	13.0	15.0	14.0
25	-2.0	-3.5	-6.0	-10.0	-5.5	-1.5	1.0	8.0	17.5	17.0	13.5	14.0
26	.0	-8.5	-8.5	-15.5	-4.0	-0.5	2.0	10.5	18.0	17.0	14.0	9.5
27	4.5	-9.5	-4.5	-16.5	-6.5	-1.0	4.0	11.0	17.5	18.5	15.5	9.5
28	5.5	-6.5	-4.0	-15.0	-6.5	-0.5	2.5	11.5	17.5	19.0	16.5	10.5
29	6.0	-4.5	-7.5	-20.0	---	-4.5	4.0	6.0	19.0	18.0	16.5	11.5
30	.0	-2.5	-16.5	-20.0	---	-3.5	5.0	1.5	17.0	17.5	12.0	12.0
31	3.5	---	-20.0	-14.5	---	-7.5	---	2.5	---	16.0	14.5	---
TOTAL	200.0	-81.5	-288.5	-311.5	-155.5	-115.0	32.5	173.0	371.0	496.5	442.5	393.0
MEAN	6.5	-2.5	-9.5	-10.0	-5.5	-3.5	1.0	5.5	12.5	16.0	14.5	13.0
MAX	14.5	7.5	.0	12.5	4.0	1.0	8.5	12.0	19.0	20.5	21.5	18.0
MIN	-2.0	-11.5	-22.5	-24.5	-13.5	-11.0	-10.5	-4.0	.0	12.0	7.0	6.0

WTR YR 1979 TOTAL 1156.5 MEAN 3.0 MAX 21.5 MIN -24.5

Table 19.--*Maximum air temperature at JQS weather station for water years 1978 and 1979*

STATION NUMBER 393529107545900 JQS WEATHER STATION-NAVAL OIL SHALE RESERVE, CO. METEOROLOGICAL SOURCE AGENCY USGS
LATITUDE 393529 LONGITUDE 1075459

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	9.5	15.0	20.5	18.5	19.5
2							---	8.5	16.5	21.5	21.5	20.5
3							---	5.5	15.0	17.0	19.0	21.0
4							---	1.5	12.0	---	19.5	22.5
5							---	-1.5	9.0	---	22.0	22.0
6							---	.0	15.0	19.5	23.5	22.0
7							---	2.0	13.5	23.0	21.5	20.0
8							---	2.5	16.0	22.0	22.0	17.5
9							---	8.5	20.5	23.5	21.5	20.0
10							---	12.0	22.0	22.0	21.0	18.0
11							---	10.0	17.0	19.0	22.0	11.0
12							---	9.5	21.0	22.0	21.5	8.5
13							5.0	15.5	20.5	24.5	15.5	12.0
14							7.5	18.5	20.0	26.5	9.0	15.0
15							6.0	18.5	20.5	25.0	16.0	16.0
16							5.0	16.5	19.0	23.5	20.0	16.5
17							-3.0	2.0	16.0	24.0	19.5	10.5
18							3.5	8.0	20.0	21.5	11.0	10.0
19							8.5	13.5	19.5	24.0	18.0	-0.5
20							8.0	16.5	19.5	21.5	18.5	2.5
21							3.5	9.0	21.5	19.0	19.5	11.5
22							.0	15.5	21.5	21.0	16.0	15.0
23							5.5	16.5	22.5	20.5	19.5	18.5
24							12.0	13.0	22.0	24.5	20.5	18.5
25							12.5	12.0	17.5	21.5	19.5	17.5
26							12.0	14.5	18.5	25.0	20.0	18.5
27							7.5	10.5	19.5	24.0	19.5	20.0
28							6.0	12.0	17.0	21.5	18.0	18.5
29							10.0	14.5	15.0	19.0	19.0	16.0
30							5.5	15.0	17.5	21.0	19.5	17.5
31							---	8.5	---	20.5	19.5	---
TOTAL							115.0	318.0	540.0	638.0	591.5	476.0
MEAN							6.5	10.5	18.0	22.0	19.0	16.0
MAX							12.5	18.5	22.5	26.5	23.5	22.5
MIN							-3.0	-1.5	9.0	17.0	9.0	-0.5

WTR YR 1978 TOTAL 2678.5 MEAN 16.0 MAX 26.5 MIN -3.0

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 19.--*Maximum air temperature at JQS weather station for water years 1978 and 1979*--Continued

STATION NUMBER 393529107545900 JQS WEATHER STATION-NAVAL OIL SHALE RESERVE, CO. METEOROLOGICAL SOURCE AGENCY USGS
LATITUDE 393529 LONGITUDE 1075459

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.5	12.5	1.5	-19.0	-6.5	-1.5	-3.5	8.0	12.5	19.5	23.0	22.0
2	13.0	11.5	-6.0	-9.5	-7.0	-1.0	-6.0	5.5	14.5	18.0	22.0	21.5
3	13.0	12.5	-9.5	-4.0	-9.0	-7.0	-4.0	.0	15.5	18.0	25.0	23.0
4	14.5	12.5	-1.5	-2.5	-7.0	-5.0	-3.0	8.5	18.0	18.0	27.0	22.5
5	13.5	9.0	-1.0	-2.0	-5.0	-1.5	4.5	11.0	19.0	20.5	27.5	24.5
6	15.5	7.5	-13.5	-7.0	-3.0	1.5	7.0	9.5	19.0	14.5	25.5	25.0
7	15.5	11.5	-17.5	-9.5	-1.5	5.5	5.5	-0.5	.5	22.0	24.5	25.0
8	15.5	13.5	-17.0	-6.5	.0	2.0	9.0	.0	8.5	22.0	22.0	24.5
9	15.0	11.5	-9.0	-5.0	.0	-6.0	10.5	3.5	14.5	22.5	22.5	24.5
10	15.0	5.0	-8.5	-4.5	2.0	4.0	.0	-0.5	18.5	24.0	21.0	21.0
11	16.0	-1.5	-1.0	-1.5	3.0	9.5	-3.0	2.5	21.0	24.0	24.0	20.5
12	14.5	.0	.0	-0.5	4.0	3.0	-3.0	5.5	22.0	25.0	22.0	16.5
13	10.5	-2.5	-4.5	-6.5	7.0	4.0	1.5	10.5	20.5	24.0	19.0	13.5
14	14.0	-6.5	.0	-5.0	5.5	6.5	7.5	13.0	20.5	24.5	13.5	14.0
15	16.0	-7.0	-0.5	-3.0	.5	2.0	10.5	16.0	18.5	23.5	15.5	19.5
16	15.0	-5.5	-3.5	-1.5	1.5	2.5	12.5	13.5	17.0	25.0	12.0	21.0
17	13.0	-6.0	1.5	-1.0	-2.0	-0.5	10.5	14.0	16.5	23.0	13.5	21.0
18	10.0	-2.5	2.0	.0	-1.0	-2.5	8.5	15.0	10.0	21.0	13.5	22.0
19	14.5	3.0	.0	-5.0	.0	5.5	3.5	14.5	16.5	7.0	11.0	20.5
20	12.0	5.0	-7.0	-4.5	-4.0	.0	4.0	15.5	19.5	10.5	12.0	16.5
21	8.0	6.0	-4.5	-2.5	-1.5	1.0	9.0	16.0	20.5	11.0	17.0	18.0
22	1.5	3.0	-3.5	-5.0	-5.0	-2.0	10.0	17.0	20.0	9.0	20.0	19.0
23	8.0	1.5	-5.0	-9.5	-3.5	.0	10.5	32.0	22.0	20.5	21.5	21.0
24	7.0	-1.0	-3.0	-5.0	-4.5	2.5	8.0	15.0	23.0	19.5	21.0	21.5
25	1.0	2.0	-1.5	-6.0	.5	2.5	6.0	11.0	22.0	23.5	20.5	19.0
26	7.0	-5.5	-2.5	-10.0	.5	2.5	7.5	17.0	21.5	23.0	21.0	16.0
27	11.0	-5.0	-1.5	-11.5	-4.5	2.0	8.5	15.0	22.5	24.0	22.0	16.0
28	11.0	-3.5	-1.0	-9.5	-4.0	3.0	7.0	15.0	24.5	24.5	22.5	17.5
29	10.5	-2.0	-3.0	-16.0	---	-2.5	9.0	8.0	25.0	25.0	22.5	19.0
30	8.0	1.5	-12.0	-13.5	---	-0.5	11.5	8.5	20.5	23.0	16.0	19.0
31	9.5	---	-13.0	-9.5	---	-5.0	---	8.0	---	21.0	20.0	---
TOTAL	366.0	80.5	-145.5	-196.0	-44.5	24.5	159.5	327.5	544.0	630.5	620.0	604.5
MEAN	12.0	2.5	-4.5	-6.5	-1.5	1.0	5.5	10.5	18.0	20.5	20.0	20.0
MAX	17.5	13.5	2.0	.0	7.0	9.5	12.5	32.0	25.0	25.0	27.5	25.0
MIN	1.0	-7.0	-17.5	-19.0	-9.0	-7.0	-6.0	-0.5	.5	7.0	11.0	13.5

WTR YR 1979 TOTAL 2971.0 MEAN 8.0 MAX 32.0 MIN -19.0

Table 20.--*Minimum air temperature at JQS weather station for water years 1978 and 1979*

STATION NUMBER 393529107545900 JQS WEATHER STATION-NAVAL OIL SHALE RESERVE, CO. METEOROLOGICAL SOURCE AGENCY USGS
LATITUDE 393529 LONGITUDE 1075459

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	-3.0	.0	9.0	10.0	11.5
2							---	3.0	5.0	11.0	9.0	9.5
3							---	.0	5.5	11.0	6.0	12.0
4							---	-5.0	3.0	---	8.0	13.5
5							---	-5.5	2.0	10.5	9.5	14.5
6							---	-7.0	.5	6.0	10.5	15.0
7							---	-6.0	4.5	8.0	10.5	8.5
8							---	-4.0	3.0	10.5	12.0	9.0
9							---	-3.5	8.5	11.0	13.5	7.5
10							---	-4.0	12.5	10.5	13.5	10.0
11							---	2.5	3.0	8.5	14.5	-0.5
12							---	-3.0	6.5	10.5	14.0	-3.0
13							-2.5	3.0	12.0	10.0	6.0	-1.5
14							-1.5	8.0	11.0	13.5	.0	3.5
15							3.0	11.0	10.5	11.0	-1.0	5.5
16							3.5	.0	9.5	11.0	8.5	5.5
17							-7.0	-4.0	.5	9.5	4.0	5.5
18							-8.0	-2.5	5.5	8.0	-1.0	-3.0
19							-4.5	-1.0	8.0	11.0	3.0	-5.0
20							.0	.0	4.5	12.0	10.0	-5.5
21							-8.0	4.0	11.5	9.5	9.5	-5.5
22							-8.0	2.0	11.0	6.0	10.5	4.5
23							-4.0	8.0	12.5	9.5	11.0	4.5
24							-5.0	5.5	14.5	11.5	12.0	8.0
25							4.5	4.5	9.5	12.5	12.5	5.5
26							5.5	2.0	4.0	14.0	11.5	5.5
27							.0	3.0	13.5	14.0	10.0	8.5
28							.0	2.0	11.0	12.5	6.0	9.5
29							-2.0	2.5	9.0	10.0	7.5	7.0
30							.0	-13.5	7.0	9.5	8.0	4.0
31							---	-2.0	---	11.5	13.5	---
TOTAL							-34.0	-3.0	219.0	313.0	272.5	164.0
MEAN							-2.0	.0	7.5	10.5	9.0	5.5
MAX							5.5	11.0	14.5	14.0	14.5	15.0
MIN							-8.0	-13.5	.0	6.0	-1.0	-5.5

WTR YR 1978 TOTAL 931.5 MEAN 5.5 MAX 15.0 MIN -13.5

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 20.--*Minimum air temperature at JQS weather station for water years 1978 and 1979*--Continued

STATION NUMBER 393529107545900 JQS WEATHER STATION-NAVAL OIL SHALE RESERVE, CO. METEOROLOGICAL SOURCE AGENCY USGS
LATITUDE 393529 LONGITUDE 1075459

TEMPERATURE, AIR (DEG. C), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.0	1.5	-7.0	-28.0	-19.0	-6.0	-12.5	-0.5	-2.0	8.0	10.5	4.5
2	2.5	2.5	-19.0	-25.5	-13.5	-10.0	-14.5	-1.0	1.0	6.5	10.5	9.0
3	-2.0	-1.0	-21.5	-11.0	-17.5	-15.0	-14.5	-4.5	5.0	8.5	12.0	9.0
4	4.5	1.0	-11.0	-6.0	-15.5	-16.0	-12.0	-4.0	7.5	6.0	14.5	10.0
5	1.5	-1.0	-17.5	-9.5	-18.5	-11.0	-3.5	2.5	7.5	9.5	16.5	8.0
6	4.0	-5.5	-19.0	-12.0	-12.0	-4.5	-1.5	-3.5	8.0	10.0	14.5	8.5
7	5.0	-4.0	-25.5	-21.5	-7.0	-1.5	-3.5	-4.5	3.5	8.5	10.5	10.0
8	6.0	3.5	-25.0	-20.0	-7.0	-11.0	-4.5	-5.0	-2.0	11.5	9.5	11.5
9	2.5	4.0	-20.5	-13.5	-6.0	-13.0	-2.0	-6.0	-2.5	9.0	9.0	12.0
10	6.0	-12.0	-14.5	-13.0	-7.0	-14.5	-7.5	-7.5	2.0	12.0	8.0	8.5
11	4.0	-13.0	-14.0	-5.0	-3.0	-6.0	-9.5	-7.0	5.5	10.5	8.0	6.0
12	4.0	-7.0	-11.5	-12.0	-1.5	-5.5	-9.5	-7.0	9.5	11.0	12.0	1.0
13	.0	-8.5	-15.0	-15.5	1.5	-5.0	-9.0	.5	11.0	14.0	10.5	1.0
14	1.5	-11.5	-6.0	-12.5	-2.5	-4.5	-0.5	2.5	13.5	9.0	8.0	-2.0
15	3.0	-10.0	-10.0	-6.5	-6.0	-5.0	2.5	5.5	11.5	12.5	6.0	.0
16	5.0	-11.5	-16.0	-6.0	-5.5	-4.5	4.0	3.5	8.5	13.0	5.5	4.5
17	6.5	-17.0	-5.0	-10.0	-8.5	-6.0	5.0	4.5	9.5	11.5	5.0	4.0
18	3.0	-18.0	-1.0	-4.0	-10.0	-8.0	1.5	7.0	3.0	9.0	6.0	6.0
19	3.0	-7.0	-7.0	-11.0	-5.5	-9.0	-6.5	3.0	1.0	7.0	5.5	7.0
20	2.5	-5.0	-13.5	-12.0	-8.0	-5.0	-7.0	3.5	3.0	10.5	5.5	5.0
21	1.5	-3.5	-13.5	-11.0	-6.5	-6.0	.0	6.0	7.5	11.0	5.0	5.5
22	-2.5	-4.0	-10.0	-19.5	-11.0	-8.0	2.5	8.0	8.5	9.0	5.5	7.5
23	-3.5	-7.0	-9.5	-20.5	-11.0	-11.5	4.5	7.5	7.0	9.0	6.0	8.0
24	.0	-9.0	-9.5	-15.0	-11.0	-8.0	-0.5	3.0	8.0	7.5	7.5	8.5
25	-5.0	-5.5	-9.0	-12.5	-11.0	-5.5	-3.5	4.5	11.0	9.0	7.5	9.0
26	-6.0	-11.5	-13.5	-18.5	-8.0	-4.5	-4.5	4.5	13.5	12.0	6.5	5.5
27	-1.5	-14.5	-9.0	-20.5	-9.5	-2.5	-1.0	7.0	11.5	13.5	7.0	3.5
28	1.0	-11.5	-5.0	-18.0	-10.5	-2.5	-1.0	8.5	10.5	12.0	11.0	4.0
29	2.0	-9.5	-15.5	-24.0	---	-5.5	-0.5	.5	12.5	13.5	10.0	4.5
30	-3.5	-8.0	-19.0	-25.0	---	-6.0	-1.0	-2.5	15.0	11.5	8.5	4.5
31	-0.5	---	-24.5	-19.5	---	-10.5	---	-2.5	---	10.5	9.5	---
TOTAL	54.5	-203.5	-417.5	-458.5	-250.5	-231.5	-110.0	26.5	209.0	316.0	271.5	184.0
MEAN	2.0	-7.0	-13.5	-15.0	-9.0	-7.5	-3.5	1.0	7.0	10.0	9.0	6.0
MAX	10.0	4.0	-1.0	-4.0	1.5	-1.5	5.0	8.5	15.0	14.0	16.5	12.0
MIN	-6.0	-18.0	-25.5	-28.0	-19.0	-16.0	-14.5	-7.5	-2.5	6.0	5.0	-2.0

WTR YR 1979 TOTAL -610.0 MEAN -1.5 MAX 16.5 MIN -28.0

Table 21.--*Humidity at JQS weather station for water years 1978 and 1979*

STATION NUMBER 393529107545900 JQS WEATHER STATION-NAVAL OIL SHALE RESERVE, CO. METEOROLOGICAL SOURCE AGENCY USGS
LATITUDE 393529 LONGITUDE 1075459

HUMIDITY, RELATIVE (PERCENT), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	66.6	27.1	25.0	51.6	22.0
2							---	56.3	23.5	9.1	31.5	25.5
3							---	49.4	32.4	6.5	34.1	26.2
4							---	47.8	53.5	4.2	22.3	19.8
5							---	---	65.5	13.3	12.8	19.3
6							---	52.4	---	25.6	16.8	25.1
7							---	69.9	43.0	16.4	28.2	43.8
8							---	56.7	37.8	8.5	24.6	37.6
9							---	48.4	20.3	28.8	28.1	32.1
10							---	35.0	11.9	39.1	31.0	29.2
11							---	42.2	22.7	49.6	32.8	57.4
12							---	33.1	14.5	28.1	39.3	43.4
13							49.6	25.8	13.6	10.8	54.5	29.9
14							47.7	20.8	15.1	11.9	64.0	32.4
15							51.1	20.0	14.3	31.7	32.1	49.8
16							53.2	20.6	10.1	39.2	10.0	37.5
17							51.8	70.3	19.5	53.5	7.6	43.7
18							38.9	44.6	12.7	44.8	41.7	55.5
19							29.8	34.4	16.0	33.5	20.6	70.0
20							28.1	36.0	22.5	27.2	26.1	59.2
21							52.8	58.8	12.1	21.4	28.0	33.8
22							46.8	39.1	14.9	24.8	40.2	28.7
23							38.2	18.1	14.3	18.2	22.2	23.5
24							37.1	15.7	26.4	21.3	13.8	23.5
25							32.6	17.1	---	---	15.5	28.3
26							34.2	15.4	20.4	20.0	15.4	26.3
27							57.0	37.1	24.9	18.3	4.4	16.7
28							60.1	42.0	38.6	37.4	22.7	23.0
29							66.3	25.7	64.5	57.5	24.4	25.6
30							61.1	29.7	41.0	37.7	22.0	24.7
31							---	34.9	---	25.9	19.4	---
TOTAL							836.4	1163.9	733.1	789.3	837.7	1013.5
MEAN							46.5	38.8	26.2	26.3	27.0	33.8
MAX							66.3	70.3	65.5	57.5	64.0	70.0
MIN							28.1	15.4	10.1	4.2	4.4	16.7

WTR YR 1978 TOTAL 5373.9 MEAN 32.2 MAX 70.3 MIN 4.2

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 21.--*Humidity at JQS weather station for water years 1978 and 1979*--Continued

STATION NUMBER 393529107545900 JQS WEATHER STATION-NAVAL OIL SHALE RESERVE, CO. METEOROLOGICAL SOURCE AGENCY USGS
LATITUDE 393529 LONGITUDE 1075459

HUMIDITY, RELATIVE (PERCENT), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.8	38.4	71.6	67.2	68.7	71.6	74.1	72.0	36.7	44.8	14.8	25.3
2	27.4	34.8	78.3	45.3	77.2	84.6	71.3	81.6	34.7	49.9	13.9	21.6
3	15.8	46.5	66.8	35.2	70.1	68.3	68.2	78.1	36.5	46.1	10.0	27.1
4	10.5	32.4	31.2	42.7	66.2	50.3	79.2	44.2	43.0	48.1	8.1	18.7
5	11.3	36.1	45.6	64.5	51.2	75.9	61.3	27.3	44.0	28.5	12.3	16.2
6	8.5	27.5	48.2	77.1	40.4	72.6	36.6	45.2	48.6	40.7	20.6	18.5
7	9.6	31.8	49.9	62.1	37.1	67.1	41.4	90.8	61.0	39.3	28.1	17.4
8	12.1	25.6	24.8	51.5	25.1	73.1	57.5	85.9	83.2	24.1	50.3	23.6
9	20.1	30.6	69.7	67.6	47.4	63.5	---	80.4	86.6	16.2	46.7	28.0
10	15.2	71.9	97.2	74.4	54.5	36.0	86.6	71.0	7.4	14.8	38.1	46.2
11	20.2	81.6	39.0	66.0	63.8	26.7	77.9	72.8	19.3	17.8	32.6	40.0
12	23.6	70.3	48.3	69.6	52.7	37.9	69.7	58.3	23.8	23.5	38.8	26.8
13	30.8	59.7	48.6	65.1	36.5	39.1	60.4	35.8	24.0	26.7	59.8	40.1
14	11.7	74.8	62.3	62.2	64.5	33.7	40.6	21.2	21.8	30.4	72.1	21.4
15	11.2	74.7	69.0	67.1	65.4	69.6	32.4	23.1	24.9	33.1	78.4	19.5
16	9.4	77.6	68.9	71.9	86.3	60.8	25.6	44.1	14.6	40.1	82.2	18.8
17	17.3	75.2	59.1	82.4	86.8	67.5	28.9	41.4	11.6	41.6	67.1	21.3
18	50.8	62.0	80.1	70.8	81.0	76.0	28.7	37.2	34.0	52.5	73.0	18.3
19	34.3	45.4	58.1	69.9	59.3	63.1	42.7	38.0	52.6	45.2	77.5	38.4
20	49.1	43.3	55.2	62.3	65.7	86.3	37.4	36.6	42.6	59.3	69.0	51.6
21	86.8	40.0	53.8	53.4	65.5	89.5	23.1	63.7	24.1	61.1	51.4	45.7
22	95.9	49.1	58.3	63.8	77.8	82.8	28.4	17.6	22.2	56.9	36.8	30.5
23	64.6	54.2	51.6	57.0	76.8	71.5	22.5	22.3	36.2	65.2	32.9	31.3
24	56.5	50.4	55.7	44.6	66.5	57.5	29.3	57.8	31.3	56.6	29.6	31.4
25	66.2	82.6	55.2	74.9	46.9	61.8	47.4	78.6	27.4	30.7	33.6	61.2
26	29.5	76.7	48.2	78.6	59.6	58.3	29.7	15.4	27.9	28.0	34.1	60.0
27	22.4	66.9	44.5	69.8	85.2	62.2	37.5	16.0	24.9	26.8	36.2	38.1
28	18.3	71.1	64.9	67.8	75.1	69.3	50.8	13.0	27.3	21.3	26.3	30.5
29	18.8	81.7	68.7	47.1	---	73.7	34.7	23.8	24.2	17.2	20.1	25.7
30	29.5	87.6	81.5	65.2	---	86.0	35.2	16.3	33.7	14.2	43.2	27.0
31	37.1	---	76.7	50.9	---	83.8	---	33.0	---	18.6	31.4	---
TOTAL	929.3	1700.5	1831.0	1948.0	1753.3	2020.1	1359.1	1442.5	1030.1	1119.3	1269.0	920.2
MEAN	30.0	56.7	59.1	62.8	62.6	65.2	46.9	46.5	34.3	36.1	40.9	30.7
MAX	95.9	87.6	97.2	82.4	86.8	89.5	86.6	90.8	86.6	65.2	82.2	61.2
MIN	8.5	25.6	24.8	35.2	25.1	26.7	22.5	13.0	7.4	14.2	8.1	16.2

WTR YR 1979 TOTAL 17322.4 MEAN 47.6 MAX 97.2 MIN 7.4

Table 22.--*Solar radiation at JQS weather station for water years 1978 and 1979*

STATION NUMBER 393529107545900 JQS WEATHER STATION-NAVAL OIL SHALE RESERVE, CO. METEOROLOGICAL SOURCE AGENCY USGS
LATITUDE 393529 LONGITUDE 1075459

SOLAR RADIATION, INCIDENTAL , INTENSITY, IN CALORIES. WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	405	536	543	422	435
2							---	551	412	542	476	295
3							---	431	391	541	501	442
4							---	210	314	541	503	412
5							---	30	304	540	501	409
6							---	205	470	539	467	405
7							---	241	248	568	493	284
8							---	154	336	573	464	411
9							---	541	578	429	438	334
10							---	436	502	494	436	299
11							---	235	609	412	367	370
12							---	561	540	544	216	481
13							310	550	662	515	272	443
14							552	549	532	524	363	277
15							504	554	632	260	478	359
16							439	550	615	299	476	572
17							378	101	540	433	470	252
18							673	523	503	521	473	284
19							578	567	507	457	454	247
20							663	389	582	519	214	372
21							290	53	595	351	213	370
22							620	443	577	446	212	438
23							626	495	554	554	393	484
24							631	581	412	455	390	373
25							521	167	545	487	388	414
26							592	575	545	518	462	458
27							405	201	452	485	462	192
28							407	472	174	388	410	190
29							484	565	173	458	428	341
30							430	335	529	509	451	388
31							---	256	---	339	299	---
TOTAL							9103	11926	14369	14784	12592	11031
MEAN							506	385	479	477	406	368
MAX							673	581	662	573	503	572
MIN							290	30	173	260	212	190

WTR YR 1978 TOTAL 73805 MEAN 432 MAX 673 MIN 30

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 22.--*Solar radiation at JQS weather station for water years 1978 and 1979*--Continued

STATION NUMBER 393529107545900 JQS WEATHER STATION-NAVAL OIL SHALE RESERVE, CO. METEOROLOGICAL SOURCE AGENCY USGS
LATITUDE 393529 LONGITUDE 1075459

SOLAR RADIATION, INCIDENTAL , INTENSITY, IN CALORIES. WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	305	116	42	162	55	56	221	216	535	361	447	434
2	339	253	42	84	111	108	176	153	536	409	348	428
3	338	223	147	40	198	361	379	218	534	172	513	416
4	334	130	65	41	114	391	179	155	481	305	506	425
5	280	198	41	41	192	33	409	279	481	448	429	421
6	278	163	40	41	219	103	412	157	406	359	351	360
7	262	204	39	156	61	309	372	159	172	535	467	361
8	198	191	160	107	211	287	422	158	172	406	424	328
9	253	212	154	43	202	319	188	159	483	405	350	305
10	298	57	100	43	149	334	133	283	543	357	475	389
11	382	56	147	43	65	334	134	217	544	477	274	378
12	379	83	156	44	65	337	327	518	544	521	216	239
13	252	54	114	163	155	325	194	523	512	534	215	436
14	328	106	156	45	101	217	441	429	307	501	152	390
15	344	197	125	46	218	162	443	492	364	402	150	485
16	188	195	112	46	247	137	434	253	546	354	212	478
17	67	143	39	46	253	164	400	373	453	498	149	460
18	56	215	38	72	190	116	424	502	174	496	148	104
19	290	102	100	117	74	271	427	514	453	513	208	158
20	48	77	82	181	75	108	454	520	547	296	207	211
21	112	172	153	99	114	109	204	521	547	350	461	259
22	75	149	61	76	79	159	145	534	543	520	458	300
23	259	132	129	151	150	303	207	397	543	507	447	328
24	73	71	148	75	81	367	147	290	531	517	444	257
25	210	45	154	50	82	363	148	350	530	516	301	234
26	211	92	158	50	101	209	412	512	412	294	252	187
27	259	174	38	188	73	116	470	470	363	437	436	284
28	223	43	141	52	220	213	333	299	541	526	369	278
29	164	43	117	52	---	170	445	441	541	401	443	244
30	22	43	63	200	---	217	391	474	243	365	331	268
31	151	---	160	54	---	173	---	519	---	465	437	---
TOTAL	6978	3939	3221	2608	3855	6871	9471	11085	13581	13247	10620	9845
MEAN	225	131	104	84	138	222	316	358	453	427	343	328
MAX	382	253	160	200	253	391	470	534	547	535	513	485
MIN	22	43	38	40	55	33	133	153	172	172	148	104

WTR YR 1979 TOTAL 95321 MEAN 261 MAX 547 MIN 22

Table 23.--*Wind velocity at JQS weather station for water years 1978 and 1979*

STATION NUMBER 393529107545900 JQS WEATHER STATION-NAVAL OIL SHALE RESERVE, CO. METEOROLOGICAL SOURCE AGENCY USGS
LATITUDE 393529 LONGITUDE 1075459

WIND VELOCITY (MPH), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	5.4	3.9	---		---
2							---	5.4	5.4	---		---
3							---	5.8	5.6	---		---
4							---	4.5	4.7	---		---
5							---	4.6	3.3	---		---
6							---	5.0	4.4	---		---
7							---	5.3	3.7	5.2		---
8							---	5.7	4.2	5.6		---
9							---	4.8	6.6	5.1		5.4
10							---	7.4	12	6.3		8.3
11							---	11	5.8	5.6		6.5
12							---	4.8	5.5	5.6		4.7
13							---	4.3	6.0	4.0		5.1
14							7.4	5.4	5.7	3.4		5.5
15							7.1	7.8	8.6	5.0		6.2
16							15	9.4	8.9	5.1		---
17							7.8	4.9	5.5	5.1		---
18							5.1	5.9	7.0	---		---
19							3.7	3.9	7.0	5.0		---
20							6.7	4.9	---	5.8		---
21							11	3.0	---	5.9		---
22							8.2	5.4	---	3.8		5.0
23							7.9	8.3	---	4.6		3.6
24							3.1	10	---	---		5.3
25							7.5	7.9	---	---		4.1
26							12	5.9	---	---		4.3
27							11	3.7	---	---		3.9
28							6.1	3.8	---	---		---
29							5.1	7.2	---	---		---
30							5.2	---	---	---		---
31							---	---	---	---		---
TOTAL							129.9	171.4	113.8	81.1		67.9
MEAN							7.6	5.9	6.0	5.1		5.2
MAX							15	11	12	6.3		8.3
MIN							3.1	3.0	3.3	3.4		3.6

WTR YR 1978 TOTAL 564.1 MEAN 6.0 MAX 15 MIN 3.0

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 23.--*Wind velocity at JQS weather station for water years 1978 and 1979*--Continued

STATION NUMBER 393529107545900 JQS WEATHER STATION-NAVAL OIL SHALE RESERVE, CO. METEOROLOGICAL SOURCE AGENCY USGS
LATITUDE 393529 LONGITUDE 1075459

WIND VELOCITY (MPH), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
SUMMATION VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	3.8	1.3	2.5		---	2.0	---
2	---	---	7.2	---	7.1	3.4	1.7	2.7		---	1.1	---
3	---	---	3.1	---	2.2	2.7	2.2	3.9		---	2.5	---
4	---	---	6.8	---	---	---	8.5	3.7		---	.8	---
5	3.1	---	2.4	---	---	---	2.7	10		---	2.8	2.9
6	3.3	---	4.3	---	---	1.0	7.3	12		---	2.0	2.9
7	2.8	---	2.4	---	---	1.3	7.8	4.5		---	2.3	3.5
8	3.6	---	1.9	---	---	6.2	---	3.7		---	3.2	3.2
9	3.1	---	5.8	---	16	2.3	---	3.1		---	1.8	3.8
10	---	10	8.6	---	---	---	3.1	3.8		---	2.4	2.9
11	---	---	---	---	---	---	2.9	3.0		---	---	2.5
12	4.0	---	---	---	---	---	2.6	2.5		---	---	3.1
13	---	---	4.9	---	---	---	7.9	5.2		---	---	3.5
14	---	---	---	---	---	---	5.1	2.8		---	---	1.2
15	---	---	6.6	---	3.8	---	4.4	4.3		---	---	1.4
16	5.0	2.3	---	---	8.6	11	3.1	3.5		---	---	2.7
17	---	2.8	.4	---	---	2.7	12	3.2		---	---	3.8
18	3.5	2.7	---	---	---	---	17	---		---	---	2.0
19	4.9	7.6	---	---	---	---	6.8	---		---	---	1.9
20	4.9	6.0	---	---	---	---	3.8	---		---	---	2.3
21	5.0	5.1	---	---	---	---	4.0	---		---	---	3.5
22	---	12	---	---	---	2.5	4.3	3.1		---	---	3.4
23	---	4.4	---	---	---	---	10	2.0		---	---	2.8
24	4.1	3.9	---	4.5	---	---	9.4	2.4		2.5	---	3.1
25	7.1	7.4	---	2.6	---	2.5	3.2	---		2.9	---	2.9
26	3.7	6.3	---	---	3.8	---	3.1	---		2.4	---	2.2
27	3.2	1.1	---	---	2.3	10	3.2	---		3.7	---	2.9
28	5.2	7.3	---	---	---	9.4	3.4	---		3.1	---	1.3
29	7.8	5.8	---	---	---	9.4	3.0	---		2.9	---	2.4
30	---	7.6	---	---	---	3.6	3.4	---		2.4	---	2.0
31	---	---	---	---	---	3.6	---	---		2.7	.0	---
TOTAL	74.3	92.3	54.4	7.1	43.8	75.4	147.2	81.9		22.6	20.9	70.1
MEAN	4.4	5.8	4.5	3.6	6.3	4.7	5.3	4.1		2.8	1.9	2.7
MAX	7.8	12	8.6	4.5	16	11	17	12		3.7	3.2	3.8
MIN	2.8	1.1	.4	2.6	2.2	1.0	1.3	2.0		2.4	.0	1.2

WTR YR 1979 TOTAL 690.0 MEAN 4.2 MAX 17 MIN .0

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 24.--*Wind direction at JQS weather station for water years 1978 and 1979*

STATION NUMBER 393529107545900 JQS WEATHER STATION-NAVAL OIL SHALE RESERVE, CO. METEOROLOGICAL SOURCE AGENCY USGS
LATITUDE 393529 LONGITUDE 1075459

WIND DIRECTION, IN DEGREES FROM TRUE NORTH (CLOCKWISE), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	121	137	---		---
2							---	175	170	---		---
3							---	237	192	---		---
4							---	294	143	---		---
5							---	147	71	---		---
6							---	228	87	---		---
7							---	299	195	149		---
8							---	158	156	258		---
9							---	170	223	174		159
10							---	247	243	156		198
11							---	256	254	182		277
12							---	266	146	247		259
13							---	253	192	198		232
14							219	152	192	76		170
15							216	181	241	138		230
16							241	255	254	142		---
17							293	284	265	184		---
18							267	245	161	---		---
19							148	177	268	203		---
20							219	125	---	190		---
21							272	136	---	246		---
22							266	176	---	111		201
23							257	190	---	134		112
24							145	216	---	---		103
25							131	219	---	---		92
26							215	177	---	---		35
27							248	172	---	---		146
28							274	134	---	---		---
29							174	208	---	---		---
30							158	---	---	---		---
31							---	---	---	---		---
TOTAL							3743	5898	3590	2788		2214
MEAN							220	203	189	174		170
MAX							293	299	268	258		277
MIN							131	121	71	76		35

WTR YR 1978 TOTAL 18233 MEAN 194 MAX 299 MIN 35

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 24.--*Wind direction at JQS weather station for water years 1978 and 1979*--Continued

STATION NUMBER 393529107545900 JQS WEATHER STATION-NAVAL OIL SHALE RESERVE, CO, METEOROLOGICAL SOURCE AGENCY USGS
LATITUDE 393529 LONGITUDE 1075459

WIND DIRECTION, IN DEGREES FROM TRUE NORTH (CLOCKWISE), WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	208	211	220		---	137	---
2	---	---	236	---	251	178	192	148		---	114	---
3	---	---	179	---	270	206	188	147		---	126	---
4	---	---	215	---	---	---	257	166		---	73	---
5	97	---	159	---	---	---	219	240		---	138	168
6	136	---	182	---	---	118	218	265		---	150	160
7	171	---	193	---	---	265	248	166		---	161	173
8	219	---	114	---	---	207	---	201		---	123	178
9	135	---	206	---	240	55	---	126		---	147	177
10	---	225	225	---	---	---	250	153		---	98	103
11	---	---	---	---	---	---	329	239		---	40	47
12	227	---	---	---	---	---	277	201		---	---	87
13	---	---	141	---	---	---	247	253		---	---	24
14	---	---	---	---	---	---	231	166		---	---	94
15	---	---	237	---	260	---	195	119		---	---	130
16	225	154	---	---	214	206	153	178		---	---	70
17	---	195	22	---	---	251	209	162		---	---	126
18	159	234	---	---	---	---	224	---		---	---	82
19	148	215	---	---	---	---	257	---		---	---	111
20	183	235	---	---	---	---	179	---		---	---	152
21	210	196	---	---	---	---	148	---		---	---	192
22	---	242	---	---	---	246	179	113		---	---	219
23	---	221	---	---	---	---	214	100		279	---	124
24	161	76	---	176	---	---	259	143		108	---	145
25	183	217	---	197	---	216	303	---		148	---	167
26	86	174	---	---	---	---	171	---		142	---	160
27	159	145	---	---	214	220	166	---		176	---	133
28	255	254	---	---	---	218	190	---		152	---	125
29	234	252	---	---	---	228	136	---		208	---	175
30	154	248	---	---	---	225	190	---		192	---	126
31	---	---	---	---	---	111	---	---		105	0	---
TOTAL	3142	3283	2109	373	1449	3158	6040	3506		1510	1307	3448
MEAN	175	205	176	187	242	197	216	175		168	109	133
MAX	255	254	237	197	270	265	329	265		279	161	219
MIN	86	76	22	176	214	55	136	100		105	0	24

WTR YR 1979 TOTAL 29325 MEAN 178 MAX 329 MIN 0

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

Table 25.--*Precipitation data at East Middle Fork Parachute Creek precipitation gage for water years 1977, 1978, and 1979*

PRECIPITATION DATA
(in inches)

Station: East Middle Fork Parachute Year: 1977

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

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			.13	.03	.08	.09	.30					
2				.04		.20	.04					
3				.21		.04		.05				
4				.04		.01						
5			.07	.06					.10			
6									.05			
7									.22			
8				.04								
9						.07					.18	
10						.53		.04			.02	.02
11						.05	.12					.78
12							.31					.02
13							.05					.01
14						.09		.33			.08	.20
15							.12	.22			.10	.02
16				.09			.01	.02				
17						.51					.04	
18						.23	.01			.18		
19							.12			.28	1.03	
20							.02			.02	.07	
21										.14	.22	
22				.15	.25							.27
23				.21	.03							.02
24			.05								.15	
25			.07			.43		.11			.18	
26		.06			.25	.13	.06	.07			.37	
27		.01			.04		.03				.17	
28						.22	.02	.06				
29							.08		.20			
30									.20			
31												
SUM			.32	.87	.65	2.6	1.29	.90	.77	.62	2.61	1.34

Start of Record Nov 23 1976

Table 25.--*Precipitation data at East Middle Fork Parachute Creek precipitation gage for water years 1977, 1978, and 1979*--Continued

PRECIPITATION DATA

(in inches)

Station: East Middle Fork Parachute Year: 1978

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

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					CLOCK STOPPED-	CLOCK STOPPED-	.35	.13			.17	
2					TOTAL PRECIPITATION 5.55		.43					
3							.13					
4				.16				.02	.33			
5		.05		.09				.12	.05			
6	.91	.38		.24								
7	.03	.02					.12	.05				
8	.01	.10					05	.14				
9	.01			CLOCKED STOPPED			.17					
10											.03	
11												.13
12			.12		1/15/78 to 3/15/78						.06	
13											.14	
14											.27	
15			.78			V						
16			.05									
17			.10					.30				.15
18		.10	.20					.03				.30
19		.70	.02			.14						.06
20	.18											
21	.01							.17				
22		.02				.60					.09	
23			.09									
24						.27						
25												
26												
27		.18	.13									
28		.11	.02							.16		
29	.36	.03	.09				.19		.11			
30	.04		.74	V	V							
31	.13					.10						
SUM	1.68	1.69	2.34				1.42	1.05	.56	.16	.76	.64

Table 25.--*Precipitation data at East Middle Fork Parachute Creek precipitation gage for water years 1977, 1978, and 1979*--Continued

PRECIPITATION DATA
(in inches)

Station: East Middle Fork Parachute Year: 1979

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

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2					.12	.07		.25				
3					.07	.20		.65				
4								.45				
5					.04							
6								.13		.05		
7			CLOCK STOPPED					.81				
8								.78	.23		.10	
9								.27				
10		.17					.35					.05
11		.85					.45	.14				.05
12		.66						.03				
13		.04										
14		.23										
15										.05	.07	
16						.10				.08	.20	
17												
18						.06					.29	
19					.12	.01					.03	
20	.05				.05	.56					.26	
21	.23				.25	.13				.05	.03	
22					.35	.33						
23					.32							
24					.04			.36				
25												
26					.05							.15
27					.04	.10						.02
28						.25						
29						.27						
30						.19		.07			.23	
31				.07		.09						
SUM	.28	1.95			1.45	2.36	.80	3.94	.23	.23	1.21	.27

CLOCK STOPPED
Total Precipitation 12-7-78 to 1-30-79 = 2.82

Table 26.--*Precipitation data at JQS precipitation gage for water years 1977, 1978, and 1979*

PRECIPITATION DATA
(in inches)

Station: JQS Year: 1977

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

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				.04	.07	CLOCK STOPPED NO DATA	CLOCK STOPPED NO DATA			.02		
2				.05				.02				
3				.47				.15				
4				.13					.20	.20		
5				.09								
6												
7									.02			
8				.08					.05			
9					CLOCK STOPPED NO DATA							
10								.02				.38
11												.34
12											.17	.23
13								.17			.06	
14								.32				.35
15								.18			.56	.02
16				.11				.05			.12	
17										.02	.20	
18										.25	.03	
19												
20								.02		.18	.53	
21				.05						.05		.02
22				.25							.37	.03
23				.10						.02	.27	.16
24			.10					.07		.08		
25								.04	.01			
26								.06	.01			
27												
28												
29										.05		
30							.09					
31			.11									
SUM				1.37				1.10	.29	.87	2.31	1.53

Table 26.--*Precipitation data at JQS precipitation gage for water years 1977, 1978, and 1979*--Continued

PRECIPITATION DATA
(in inches)

Station: JQS Year: 1978

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

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			.02			CLOCK STOPPED NO DATA	CLOCK STOPPED NO DATA	.11			.28	
2												
3												
4	.07		.06	.36					.15			
5	.02	.09		.26	.20				.16			
6	.80	.11		.42	.11			.28				
7		.05		.02	.14			.13				.22
8		.18			.20			.27				
9				CLOCK STOPPED NO DATA	.10						.03	
10					.19						.10	
11					.28							.22
12			.23		.05						.13	
13											.14	
14					.05						.25	
15			.45		.05							
16			.34									
17			.07				.08	.21				.34
18		.13	.49		.16		.05	.15				.33
19		.98			.27							
20	.04	02			.06				.06			.13
21	.08				CLOCK STOPPED NO DATA			.32			.05	
22		.07					.08				.09	
23		.04	.18									
24												
25										.05		
26												
27		.19	.11				.10					
28		.13	.07									
29	.85	.05	.14							.06		
30		.02	.26				.17					
31	.21		.93									
SUM	2.07	2.06	3.35					1.47	.37	.11	1.07	1.24

Table 26.--*Precipitation data at JQS precipitation gage for water years 1977, 1978, and 1979*--Continued

PRECIPITATION DATA
(in inches)

Station: JQS Year: 1979

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

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		CLOCK STOPPED NO DATA	.19		CLOCK STOPPED NO DATA	CLOCK STOPPED NO DATA	CLOCK STOPPED NO DATA	CLOCK STOPPED NO DATA	CLOCK STOPPED NO DATA	.03		
2			.12									
3			.13									
4			.02									
5			.10	.01								
6			.17	.03						.10		
7			.03	.05								
8			.07								.17	
9			.02									
10	.37		.01									.11
11			.03	.01								.04
12			.02	.09								
13			.04	.07							.02	
14				.06							.01	
15											.14	
16											.27	
17			.10						.16			
18			.51	.08							.50	
19			.26								.05	
20			.04								.08	
21			.03	.18							.25	
22			.01									
23	CLOCK STOPPED NO DATA			CLOCK STOPPED NO DATA						.08		
24		.03										
25		.07	.04									
26		.04	.02									.29
27		.05										.05
28		.01'										
29		.03										
30		.08	.01								.29	
31			.01									
SUM			1.98							.21	1.78	.49

Table 27.--*Precipitation data at East Fork Parachute Creek precipitation gage for water years 1977, 1978, and 1979*

PRECIPITATION DATA
(in inches)

Station: East Fork Parachute Year: 1977

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

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				.03	.10	.15	.16			CLOCK STOPPED NO DATA		
2				.04		.22	.08	.03				
3				.14			.01	.03			.13	
4				.09							.01	
5			.07						.34			
6									.08			
7												
8				.06								
9						.15						
10						.37		.06	.12			.16
11							.18					.43
12							.13		CLOCK STOPPED NO DATA			.56
13							.02	.03				
14												.40
15							.08	.65		.01	.02	
16				.06				.?2		.05		
17						.50					.11	.01
18						.29				.23		
19							.06			.01	.47	
20							.05	.07		.28	.16	.01
21					.11					.02	.32	
22				.27	.18					.01	.02	.22
23				.10	.01					.07	.05	
24			.05		.01						.68	
25		.04			.03	.53		.16			.01	
26					.27	.05		.05		.07	.54	
27						.21						
28								.02				
29												
30		.15										
31			.05									
SUM			.17	0.79	0.71	2.47	.77	1.12			2.52	1.79

Start of Record November 23, 1976

Table 27.--*Precipitation data at East Fork Parachute Creek precipitation gage for water years 1977, 1978, and 1979*--Continued

PRECIPITATION DATA
(in inches)

Station: East Fork Parachute Year: 1978

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

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		CLOCK STOPPED NO DATA	CLOCK STOPPED NO DATA			.32	.44	.30			.04	
2						.36	.22					
3				.05		.23	.40	.06				
4	.05			.32		.54						
5				.20		.08	.08	.22	.44			
6	.77			.38		.60		.10				
7						.43		.18				.12
8						.02		.22				
9				.03			.19					
10				.03						.05	.15	
11				.02								.15
12				.17		.09	.02				.08	
13				CLOCK STOPPED NO DATA		.26					.25	
14						.14					.12	
15						.09				.06		
16						.11				.08		
17							.40					.25
18												.37
19												.01
20	CLOCK STOPPED NO DATA											.10
21						.09		.22			.19	
22						.50					.07	
23			.12			.16						
24					.15	.26						
25										.09		
26												
27			.16				.05					
28					.45							
29			.12				.24		.24	.03		
30			.77				.03					
31												
SUM					.60	4.28	1.67	1.70	.68	.31	.90	1.00

Table 27.--*Precipitation data at East Fork Parachute Creek precipitation gage for water years 1977, 1978, and 1979*--Continued

PRECIPITATION DATA
(in inches)

Station: East Fork Parachute Year: 1979

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

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			.21	.05	CLOCK STOPPED NO DATA	CLOCK STOPPED NO DATA	CLOCK STOPPED NO DATA	CLOCK STOPPED NO DATA				
2			.20									
3			.06									
4												
5			.08						.02			
6			.26	.05					.05	.10	.05	
7			.03	.15					.03			
8			.10						.24		.10	
9			.07	.01					.07		.11	.05
10			.11									
11		.10	.07									
12		.30	.05	.15								
13		.05	.05	.12								
14		.37										
15		.04										
16		.05									.28	
17				.14								
18			.24						.08	.19	.10	
19			.18						.04		.10	
20											.05	
21			.05							.14	.10	
22												
23				CLOCK STOPPED NO DATA						.10		
24								.40				
25		.05	.56					.18				.05
26		.04	.10					.05			.03	
27		.05										
28			.01									
29												
30		.04									.25	
31												
SUM	.00		2.43					.63	.53	.53	1.17	.10

Table 28.--*JQS snow-course data for water year 1979*

[Lat N. 39°35'34", long W. 107°55'00". Elevation above sea level: 8,860 feet]

Date (M-D-Y)	Depth (inches)	Water content (inches)	Density (percent)
1-23-79	46.9	11.8	25.1
2-26-79	58.4	20.1	34.3
3-24-79	56.3	20.7	36.8

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