HYDROLOGIC DATA FROM NAVAL OIL SHALE RESERVES, PARACHUTE CREEK BASIN, NORTHWESTERN COLORADO, WATER YEARS 1982-83

By Kenneth C. Galyean, Robert A. Jenkins and Dannie L. Collins

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C O N T E N T S

CONVERSION FACTORS

Multiply inch-pound unit	*By*	*To obtain metric unit*
acre-foot (acre-ft)	0.001233	cubic hectometer
cubic foot per second (ft^3/s)	0.02832	cubic meter per second
foot (ft)	0.3048	meter
gallon per minute (gal/min)	0.06309	liter per second
inch (in.)	0.02540	meter
mile (mi)	1.609	kilometer
mile per hour (mi/hr)	1.609	kilometer per hour
square mile (mi^2)	2.590	square kilometer
ton (short)	0.9072	metric ton
ton per day (ton/day)	0.9072	metric ton per day

To convert degree Celsius (°C) to degree Fahrenheit (°F) use the following formula: (°C×9/5)+32 = °F.

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ABSTRACT

This report summarizes 2 years (water years 1982 and 1983) of data collected by the U.S. Geological Survey in cooperation with the U.S. Department of Energy, Naval Petroleum and Oil Shale Reserves, in the Parachute Creek drainage basin of northwestern Colorado. These data are supplemental to data reported by Patt and others (1982) and Galyean and others (1983). Data from five streamflow-gaging stations, two automatic sediment samplers, and two water-quality monitors are presented. The sediment samplers and monitors are located at two of the streamflow-gaging stations. Climate data including mean, maximum, and minimum air temperature and relative humidity, daily solar radiation, mean wind velocity, and mean wind direction are reported for one site. Daily precipitation data are reported for three sites and snow-course data are reported for one site.

INTRODUCTION

The Naval Oil Shale Reserves (NOSR), located in Garfield County, northwestern Colorado, is an area of potential oil-resource development (fig. 1). This report makes available the hydrologic data collected from October 1981 through September 1983 by the U.S. Geological Survey in cooperation with the U.S. Department of Energy. This report is a supplement to the report by Patt and others (1982), and the report by Galyean and others (1983).

Five streamflow-gaging stations, of which two have sediment samplers and water-quality monitors, three precipitation sites, one climate site, and one snow-course site were operated to monitor and collect hydrologic data on the NOSR (fig. 2). Types and frequency of data collected in water years 1982 and 1983 at the five streamflow-gaging stations installed in the NOSR are shown in table 1.

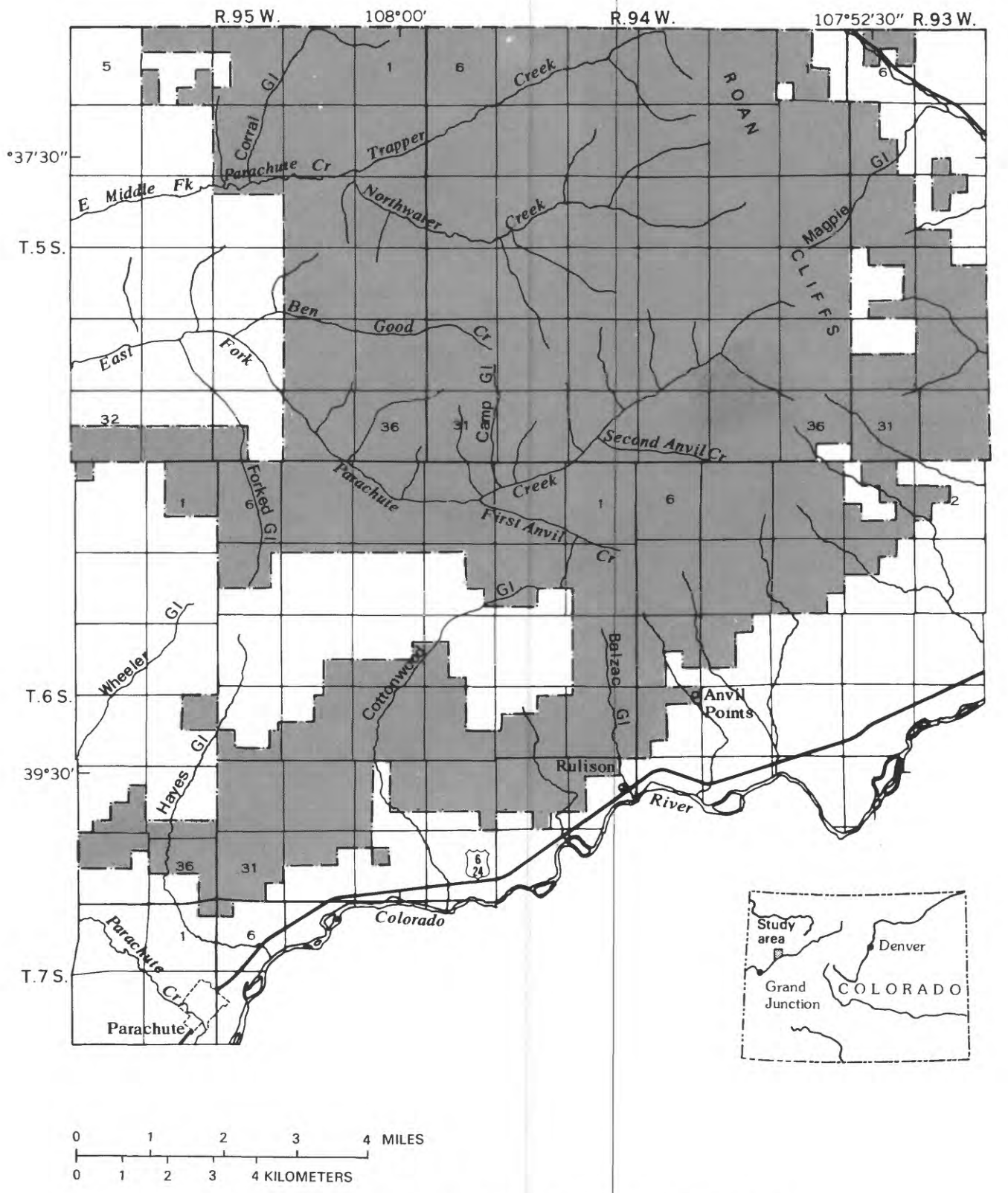

Figure 1.--Location of Naval Oil Shale Reserves.

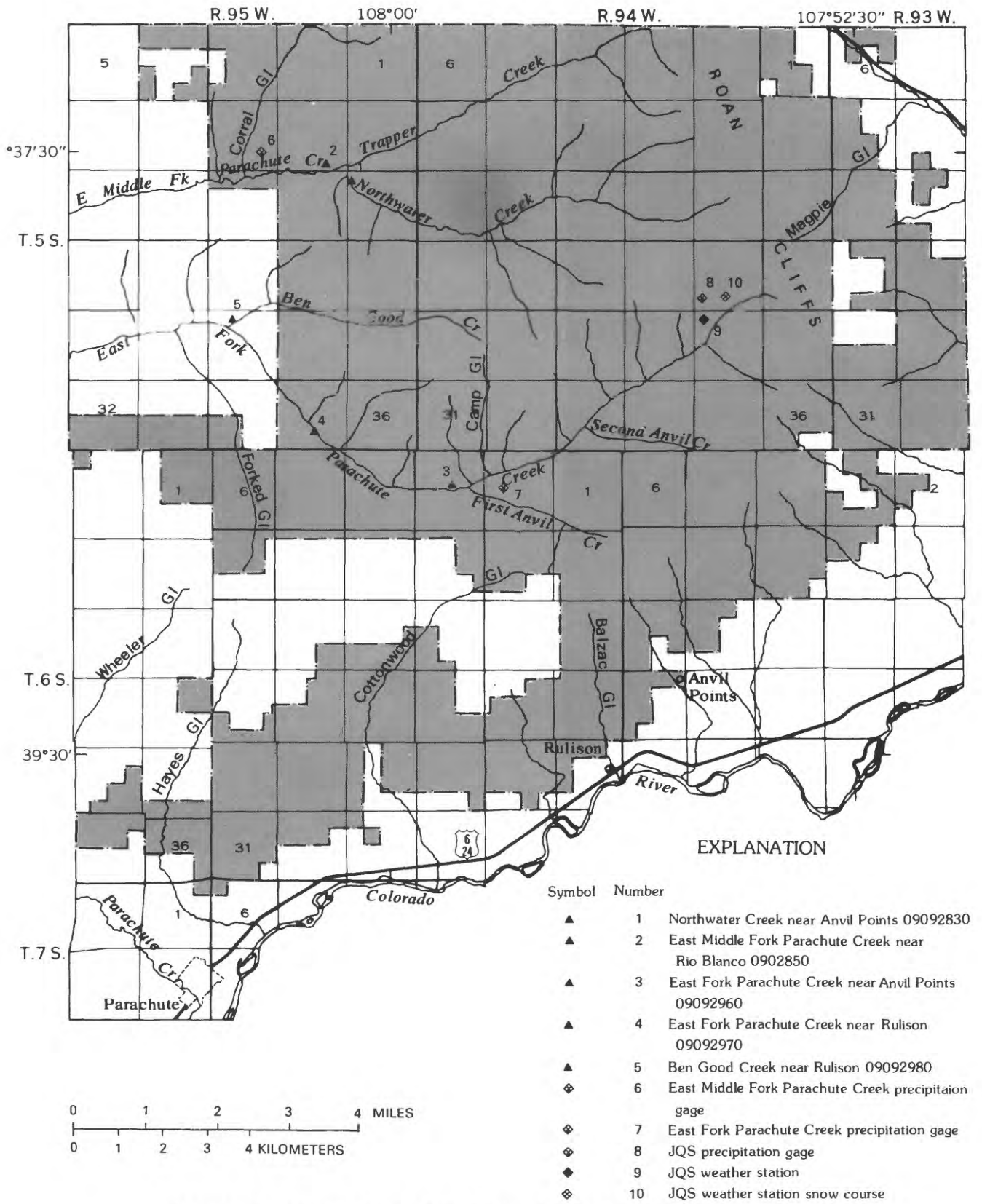

Figure 2.--Location of hydrologic data-collection sites.

Table 1.--*Frequency of measurements and number of samples collected at five streamflow-gaging stations in water years 1982 and 1983*

[Numbers in parentheses indicate number of samples taken or measurements made in that water year; --, no data collected]

Site number on figure 2	Station number	Station name	Water year	Discharge	Specific conductance	Temperature	Water quality	Sediment
1	09092830	Northwater Creek near Anvil Points	1982	Daily	(10)	(10)	(10)	--
			1983	Daily	(7)	(7)	(7)	--
2	09092850	East Middle Fork Parachute Creek near Rio Blanco	1982	Daily	Daily*	Daily*	(10)	Daily
			1983	Daily	(9)	(8)	(9)	Daily
3	09092960	East Fork Parachute Creek near Anvil Points	1982	Daily	(9)	(9)	(9)	--
			1983	Daily	(8)	(8)	(8)	--
4	09092970	East Fork Parachute Creek near Rulison	1982	Daily	Daily	Daily	(12)	Daily
			1983	Daily	Daily	Daily	(11)	Daily
5	09092980	Ben Good Creek near Rulison	1982	Daily	(9)	(9)	(9)	--
			1983	Daily	(9)	(9)	(9)	--

* Through July 27, 1982.

Data collected on the NOSR are presented in tables 2 through 56 in the "Hydrologic Data" section at the end of this report. The data collected at the streamflow-gaging stations, including daily discharges collected at sites 1 through 5 (fig. 2), are presented in tables 2 through 11, water-quality data collected at sites 1 through 5 (fig. 2) are presented in tables 12 through 27, and suspended-sediment data collected at sites 2 and 4 (fig. 2) are presented in tables 28 through 32. Climatic data collected at sites 6 through 10 (fig. 2) are presented in tables 33 through 56.

SURFACE-WATER AND WATER-QUALITY DATA

Surface-water data (tables 2-11) consist of continuous streamflow monitoring data collected at five streamflow-gaging stations (sites 1-5, fig. 2). Water-quality data consist of chemical analyses of samples collected at sites 1 through 5 (fig. 2) and specific-conductance and water temperature measurements made at sites 2 and 4 (fig. 2) (tables 12-27), and sediment collected at sites 2 and 4 (fig. 2) (tables 28-32). Tables 2 through 32 are in the "Hydrologic Data" section at the end of the report. A more detailed discussion of equipment, techniques, and site locations may be found in Patt and others (1982).

Average monthly runoff for the 1982 and 1983 water years for the five streamflow-gaging stations (table 1; fig. 2) is displayed in figure 3. Variations of average monthly mean specific conductance with time at the East Middle Fork Parachute Creek near Rio Blanco and East Fork Parachute Creek near Rulison stations are presented in figure 4.

CLIMATE DATA

Climate data for the JQS weather station, presented in tables 33 through 49 in the "Hydrologic Data" section at the end of this report, include mean, maximum, and minimum daily air temperatures; mean, maximum, and minimum daily relative humidity; daily solar radiation; mean wind velocity; and mean wind direction. Daily precipitation data are reported for three sites (tables 50-55), and snow-course data are reported for one site (table 56). When measured mean values for temperature, humidity, wind velocity, and solar radiation were not available, estimates were derived by correlation studies, using data from nearby weather stations.

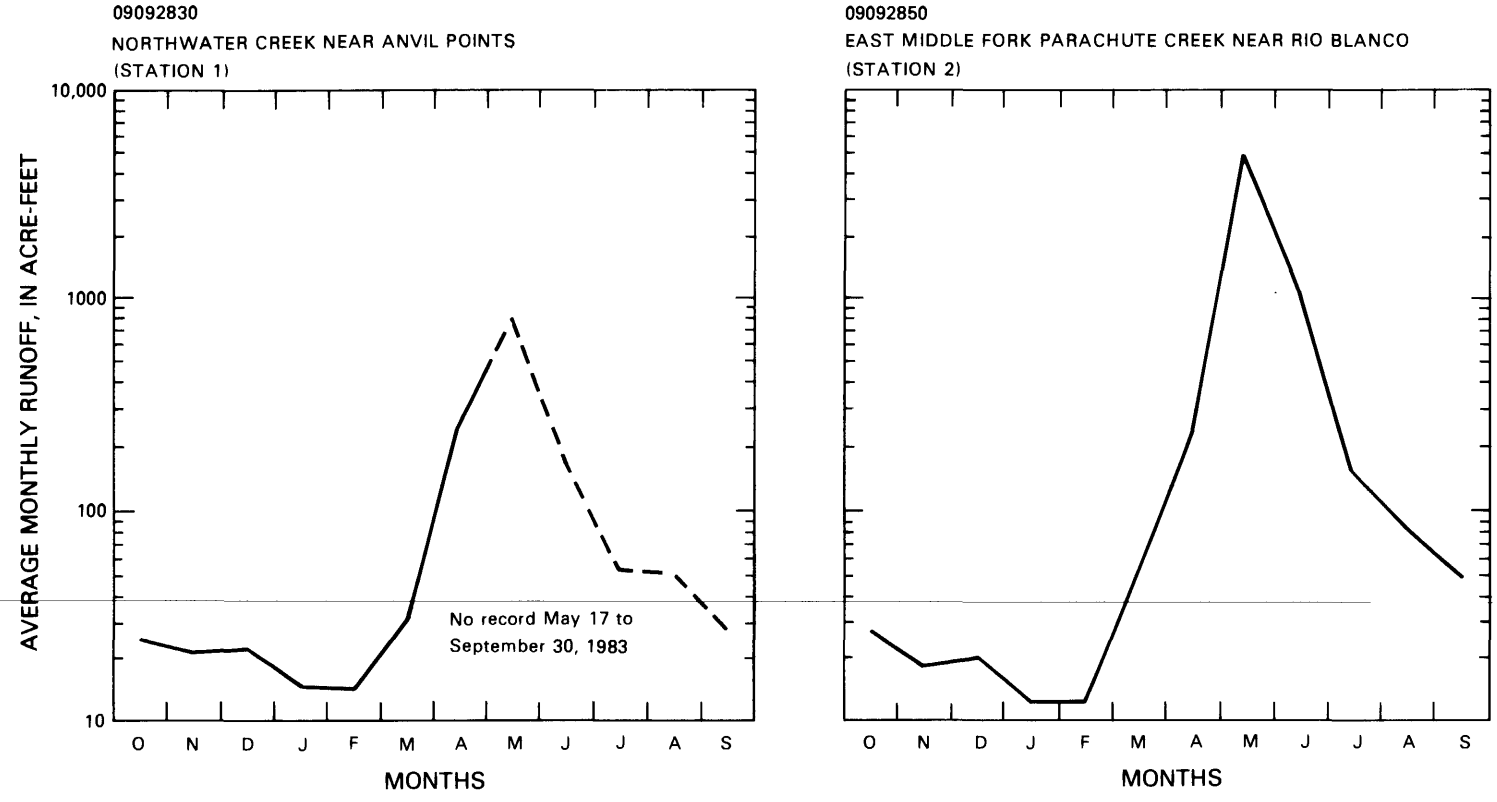

Figure 3.--Average monthly runoff at five streamflow-gaging stations in the Parachute Creek basin for water years 1982 and 1983.

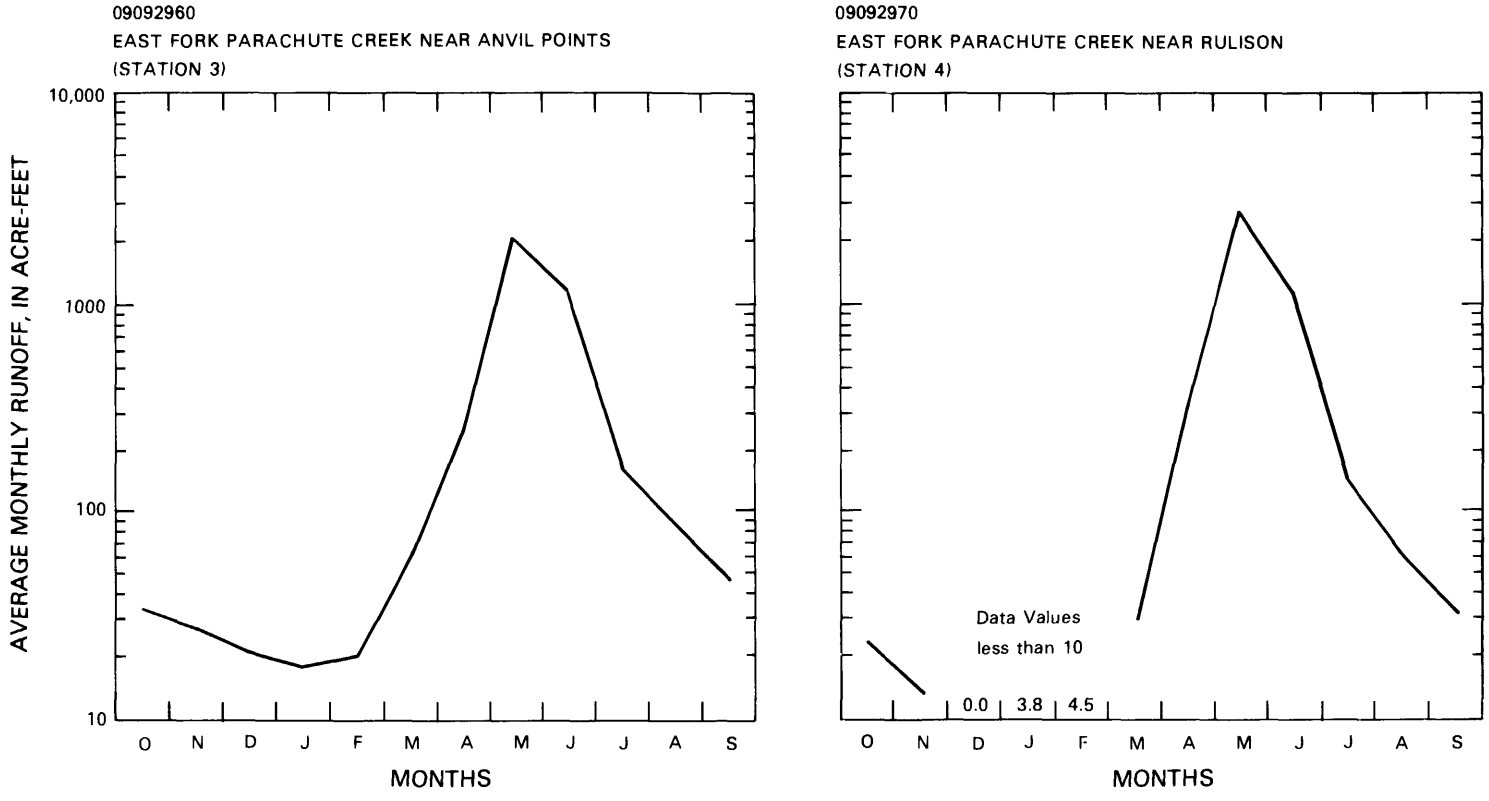

Figure 3.--Average monthly runoff at five streamflow-gaging stations in the Parachute Creek Basin for water years 1982 and 1983--Continued.

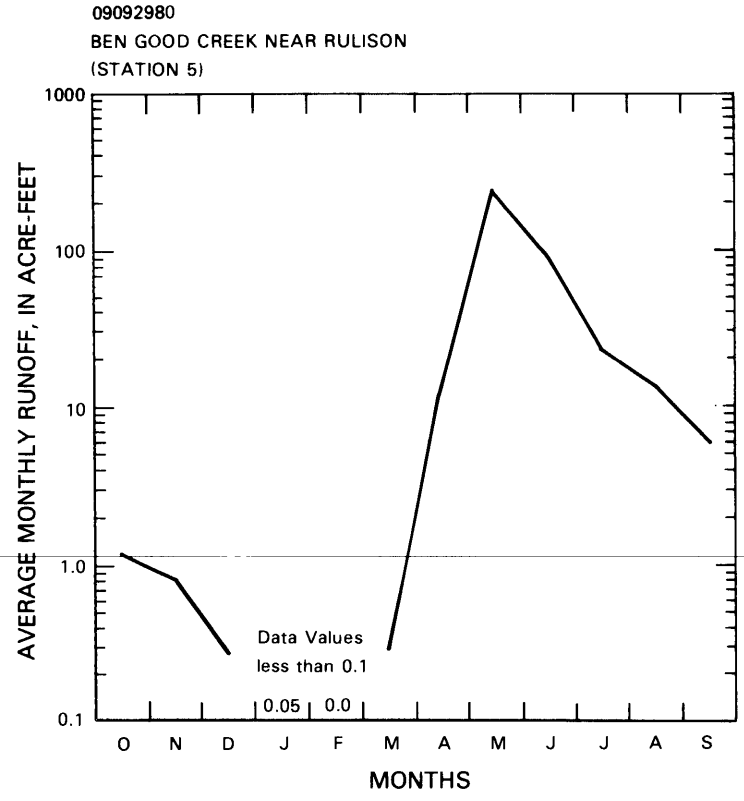

Figure 3.--Average monthly runoff at five streamflow-gaging stations in the Parachute Creek basin for water years 1982 and 1983--Continued.

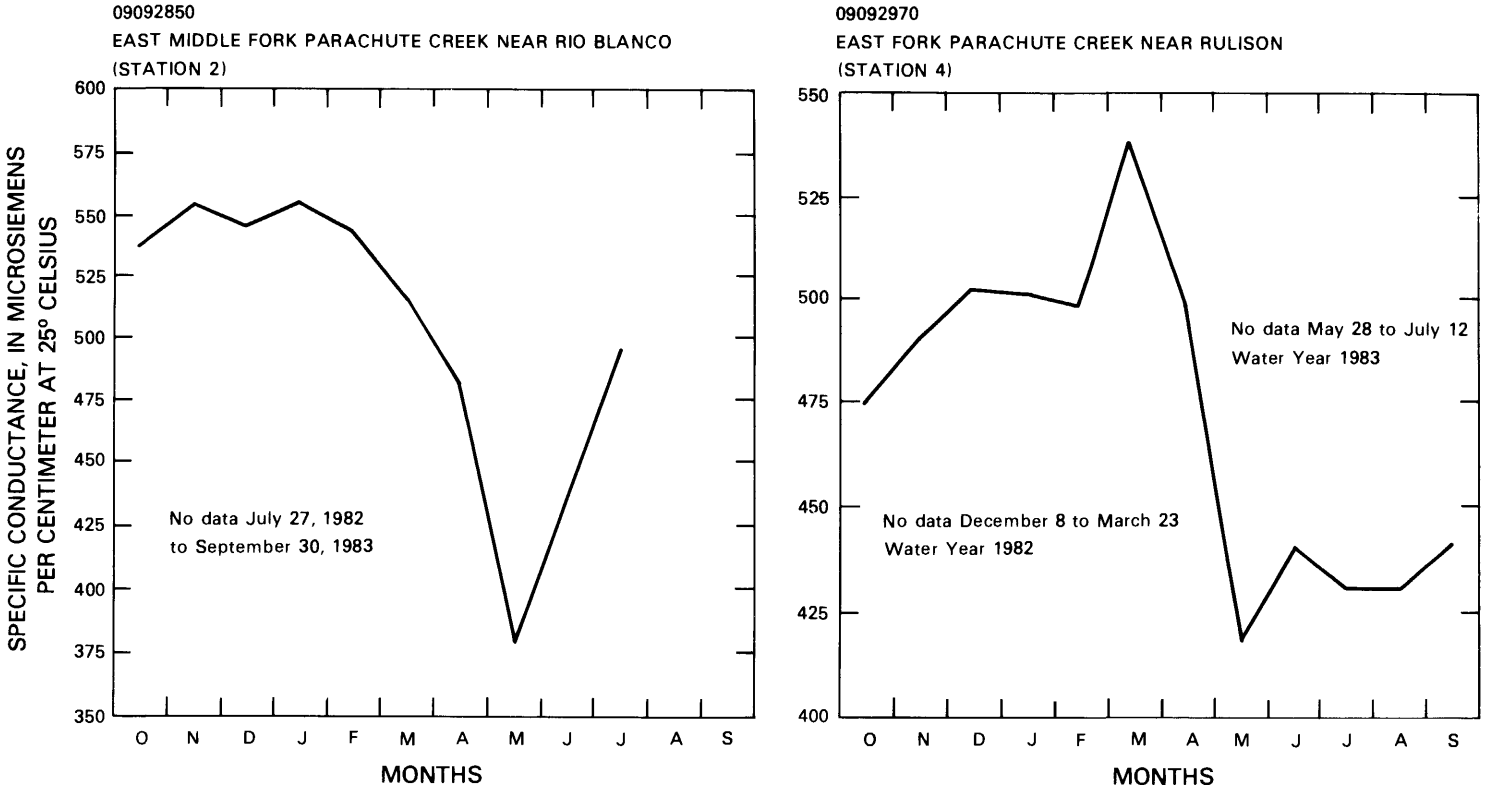

Figure 4.--Average monthly mean specific conductance at two streamflow-gaging stations in the Parachute Creek basin for water years 1982 and 1983.

REFERENCES

Galyean, K.C., Adams, D.B., and Collins, D.L., 1983, Hydrologic data from Naval Oil Shale Reserves, Parachute Creek basin, northwestern Colorado, 1980-81: U.S. Geological Survey Open-File Report 83-858, 76 p.

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

U.S. Geological Survey, 1983, Water resources data for Colorado--Water year 1982, Volume 2, Colorado River basin above Dolores River: U.S. Geological Survey Water-Data Report CO 82-2, 352 p.; available only from U.S. Department of Commerce, National Technical Information Service, Springfield, VA 22161, as report HD-82 053.

_____1984, Water resources data for Colorado--Water year 1983, Volume 2, Colorado River basin above Dolores River: U.S. Geological Survey Water-Data Report CO 83-2, 300 p.; available only from U.S. Department of Commerce, National Technical Information Service, Springfield, VA 22161, as report HD-84-36.

H Y D R O L O G I C D A T A

Abbreviations in Hydrologic-Data Tables

The data in tables 2-32 are from U.S. Geological Survey (1983, 1984).

AC-FT	= acre-feet
acre-ft/yr	= acre-feet per year
CALORIES	= calories per square centimeter per day
mi	= miles
mi^2	= square miles
°C	= degrees Celsius
µS/cm	= microsiemens per centimeter at 25° Celsius
MIN	= minimum
ft	= feet
ft^3/s, FT^3/S	= cubic feet per second
lat	= latitude
long	= longitude
T/DAY	= tons per day
µG/L	= micrograms per liter
MAX	= maximum
WTR YR	= water year
mg/L, MG/L	= milligrams per liter

Table 2.--*Surface-water discharge at station 09092830, Northwater Creek near Anvil Points (site 1), water year October 1981 to September 1982*

[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 downstream from mouth of Bear Gulch, 750 ft upstream from mouth, and 8.5 mi southwest of Rio Blanco.
DRAINAGE AREA.--12.6 mi^2.]

WATER-DISCHARGE RECORDS

[PERIOD OF RECORD.--October 1976 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 7,420 ft from topographic map.
REMARKS.--Records fair except for winter period, which are poor. No diversions or regulation upstream from station.
AVERAGE DISCHARGE.--6 years, 4.12 ft^3/s, 2,980 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 225 ft^3/s May 17, 1979; gage height, 3.30 ft; minimum daily, 0.01 ft^3/s Aug. 7, 1977.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 57 ft^3/s at 1300 May 5; gage height, 3.35 ft; minimum daily, 0.26 ft^3/s Jan. 7, 8.]

DISCHARGE, IN CUBIC FEET PER SECOND
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.33	.74	.52	.37	.60	.86	1.0	35	17	3.3	2.0	.92
2	.32	.85	.47	.37	.60	.82	.78	42	15	2.9	2.1	.86
3	.51	.82	.48	.37	.60	.86	1.0	53	11	2.5	2.0	.82
4	.72	.70	.49	.34	.60	.90	1.1	58	10	2.1	1.9	.70
5	.75	.64	.50	.36	.60	.94	1.2	58	8.7	2.1	2.0	1.0
6	.48	.63	.50	.36	.60	.90	.94	47	7.0	2.1	2.0	.95
7	.34	.68	.50	.26	.60	.90	1.1	29	5.9	2.2	1.8	.78
8	.40	.63	.50	.26	.60	.94	2.0	18	5.8	2.6	1.7	.77
9	.35	.52	.48	.36	.62	1.0	.82	18	5.5	3.0	2.2	.71
10	.33	.48	.48	.39	.64	1.1	.84	18	5.3	2.5	2.4	.73
11	.51	.45	.47	.39	.66	1.1	1.4	17	5.0	2.0	2.0	1.1
12	.65	.46	.50	.38	.66	1.2	3.9	17	4.8	1.8	2.3	.88
13	.71	.58	.49	.37	.68	1.3	7.7	16	4.4	1.6	2.1	1.4
14	.47	.58	.48	.41	.68	1.0	12	16	4.4	1.4	1.9	1.1
15	1.1	.59	.43	.41	.70	1.1	15	15	4.2	1.4	1.7	.87
16	1.4	.59	.42	.41	.70	1.1	16	15	4.1	1.2	1.6	.64
17	.90	.57	.40	.45	.70	1.0	15	15	4.3	1.2	1.6	.67
18	.71	.60	.34	.45	.70	1.1	13	18	4.2	1.0	1.6	.72
19	.54	.57	.40	.45	.72	1.0	4.3	21	3.7	.83	1.5	.81
20	.44	.65	.39	.45	.72	.90	3.0	23	3.4	.83	1.6	.75
21	.45	.48	.41	.45	.74	.90	2.4	21	3.6	.83	1.5	.68
22	.42	.54	.41	.48	.74	.94	3.8	21	3.5	.83	1.4	.61
23	.38	.59	.29	.48	.76	1.0	5.9	21	3.4	.83	1.4	.64
24	.46	.58	.44	.50	.76	.90	8.2	21	3.3	1.0	1.4	.64
25	.46	.54	.38	.50	.86	.72	14	21	3.2	1.0	1.4	.60
26	.47	.50	.33	.50	.80	.76	19	21	3.3	1.0	1.4	.72
27	.48	.50	.39	.54	.76	.74	26	21	3.3	2.0	1.3	1.1
28	.55	.52	.28	.54	1.0	1.0	32	19	3.2	1.5	1.2	1.6
29	.83	.52	.36	.54	---	1.2	28	19	2.9	1.9	1.2	1.6
30	.75	.52	.38	.54	---	1.1	26	19	3.0	2.0	1.1	2.7
31	.64	---	.37	.54	---	2.2	---	19	---	2.0	1.0	---
TOTAL	17.85	17.62	13.28	13.22	19.40	31.48	267.38	772	166.4	53.45	52.3	28.07
MEAN	.58	.59	.43	.43	.69	1.02	8.91	24.9	5.55	1.72	1.69	.94
MAX	1.4	.85	.52	.54	1.0	2.2	32	58	17	3.3	2.4	2.7
MIN	.32	.45	.28	.26	.60	.72	.78	15	2.9	.83	1.0	.60

WTR YR 1982 TOTAL 1452.45 MEAN 3.98 MAX 58 MIN .26

NOTE.--NO GAGE-HEIGHT RECORD NOV. 27 TO MAR. 23.

Table 3.--*Surface-water discharge at station 09092830, Northwater Creek near Anvil Points (site 1), water year October 1982 to September 1983*

[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 downstream from mouth of Bear Gulch, 750 ft upstream from mouth, and 8.5 mi southwest of Rio Blanco.
DRAINAGE AREA.--12.6 mi^2.]

WATER-DISCHARGE RECORDS

[PERIOD OF RECORD.--October 1976 to May 17, 1983, destroyed by flood (discontinued).
GAGE.--Water-stage recorder. Altitude of gage is 7,420 ft, from topographic map.
REMARKS.--Records poor. No diversions or regulation upstream from station.
AVERAGE DISCHARGE.--6 years (water year 1976-82), 4.12 ft^3/s; 2,980 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 225 ft^3/s May 17, 1979; gage height, 3.30 ft; minimum daily, 0.01 ft^3/s Aug. 7, 1977.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1983, exceeded all previous floods at this location.
EXTREMES FOR CURRENT PERIOD.--October 1 to May 17; maximum discharge, not determined; minimum daily, 0.20 ft^3/s Feb. 1, 2, 5.]

DISCHARGE, IN CUBIC FEET PER SECOND
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	.75	.90	.80	.20	.66	1.6	17				
2	1.4	.80	1.0	.80	.20	.76	2.0	13				
3	1.3	1.0	1.0	.80	.25	.78	2.7	12				
4	1.2	.95	1.0	.80	.30	.80	1.7	18				
5	1.1	1.0	1.1	.80	.20	.80	1.7	29				
6	1.2	.90	1.1	.75	.30	.58	1.8	33				
7	1.2	.70	1.1	.70	.25	.28	1.8	28				
8	1.3	.70	1.1	.55	.25	.36	1.8	38				
9	1.3	.65	1.1	.30	.35	.50	1.8	50				
10	1.2	.75	1.1	.30	.35	.60	1.9	64				
11	1.2	.70	.99	.40	.30	.80	1.7	72				
12	1.2	.90	.80	.50	.30	1.0	1.5	76				
13	1.2	1.0	1.1	.70	.30	1.4	1.3	77				
14	1.2	.65	1.1	.60	.35	1.3	1.4	75				
15	.73	.75	1.1	.60	.45	1.2	1.5	75				
16	.45	.80	1.1	.60	.60	1.2	1.6	74				
17	.48	.90	1.0	.35	.44	1.2	2.8	---				
18	.50	.90	1.0	.40	.28	1.1	4.5	---				
19	.60	.85	1.0	.45	.21	1.1	5.4	---				
20	.70	.95	1.0	.40	.25	1.1	5.2	---				
21	.70	.95	1.0	.30	.26	1.1	5.7	---				
22	.70	.95	1.0	.40	.30	1.1	5.7	---				
23	.70	.60	.90	.40	.40	1.1	8.3	---				
24	.60	.30	.90	.45	.38	1.1	16	---				
25	.50	1.0	.90	.45	.30	1.0	23	---				
26	.65	.90	.90	.45	.35	1.1	24	---				
27	.65	.80	.90	.45	.50	.96	23	---				
28	.80	.90	.90	.45	.48	1.0	22	---				
29	1.0	.80	.90	.35	---	.91	20	---				
30	1.0	.85	.80	.45	---	1.7	21	---				
31	.80	---	.80	.25	---	2.4	---	---				
TOTAL	29.76	24.65	30.59	16.00	9.10	30.99	214.4	---				
MEAN	.96	.82	.99	.52	.33	1.00	7.15	---				
MAX	2.2	1.0	1.1	.80	.60	2.4	24	---				
MIN	.45	.30	.80	.25	.20	.28	1.3	---				

NOTE.--NO GAGE-HEIGHT RECORD OCT. 18 TO MAR. 23.

Table 4.--*Surface-water discharge at station 09092850, East Middle Fork Parachute Creek near Rio Blanco (site 2), water year October 1981 to September 1982*

[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 upstream from mouth of Corral Gulch, 1.1 mi downstream from mouth of Northwater Creek, and 9 mi southwest of Rio Blanco.
DRAINAGE AREA.--22.1 mi^2.]

WATER-DISCHARGE RECORDS

[PERIOD OF RECORD.--October 1976 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 7,400 ft from topographic map.
REMARKS.--Records fair except those for periods of no gage-height record, which are poor. Numerous beaver dams are located upstream. No regulation or diversion upstream from station.
AVERAGE DISCHARGE.--6 years, 6.20 ft^3/s, 4,490 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 186 ft^3/s May 17, 1979, gage height, 3.39 ft; minimum daily, 0.09 ft^3/s Dec. 24, 1981.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 93 ft^3/s at 1230 May 5; gage height, 2.96 ft; minimum daily, 0.09 ft^3/s Dec. 24.]

DISCHARGE, IN CUBIC FEET PER SECOND
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	.48	.29	.25	.40	.80	2.9	27	18	5.2	2.1	2.6
2	.46	.53	.27	.25	.40	.78	2.6	37	16	4.3	2.7	1.1
3	.72	.49	.29	.24	.40	.82	3.5	47	15	4.3	2.8	.63
4	.91	.43	.33	.20	.40	.88	3.2	57	14	4.1	2.8	.76
5	.91	.42	.34	.22	.40	.94	2.3	67	13	4.1	2.1	1.1
6	.72	.41	.34	.22	.40	.83	2.6	65	12	4.1	3.1	1.8
7	.72	.43	.35	.12	.40	1.1	2.6	48	11	3.8	3.1	1.2
8	.84	.39	.35	.11	.40	1.1	1.9	43	10	3.3	3.2	.91
9	.85	.36	.35	.21	.42	1.4	2.4	43	9.6	3.6	4.3	1.3
10	.74	.33	.34	.23	.44	1.5	2.7	42	9.4	3.4	3.3	1.3
11	.79	.30	.34	.23	.46	1.5	5.6	40	9.0	3.3	2.5	1.9
12	1.2	.35	.38	.22	.50	2.0	6.9	38	8.8	3.6	2.9	1.6
13	1.3	.36	.38	.22	.52	2.1	10	39	8.7	3.8	2.8	2.4
14	1.1	.36	.37	.27	.54	1.8	16	40	7.8	2.6	2.1	1.9
15	1.3	.35	.31	.27	.56	1.9	14	41	7.2	1.8	2.0	1.5
16	2.2	.31	.31	.27	.58	2.1	7.6	42	7.2	1.8	1.9	1.1
17	.62	.30	.30	.30	.60	2.1	9.8	43	7.2	1.8	1.6	.99
18	.48	.28	.22	.30	.60	2.3	11	44	7.0	2.1	1.4	.99
19	.37	.28	.28	.30	.62	2.1	4.0	45	6.5	2.2	1.3	.91
20	.29	.27	.27	.30	.64	1.9	3.0	47	6.3	1.7	1.6	.82
21	.29	.27	.29	.30	.66	1.9	5.4	45	6.1	1.8	1.6	.99
22	.27	.27	.29	.32	.68	2.3	11	42	6.1	1.6	1.7	.77
23	.26	.27	.17	.32	.70	2.6	8.3	41	5.9	1.5	1.5	.56
24	.31	.29	.09	.34	.66	2.8	12	39	5.6	1.8	2.8	1.1
25	.31	.34	.24	.34	.81	2.8	13	36	5.2	1.9	2.4	1.8
26	.32	.28	.22	.34	.74	2.7	12	32	4.8	2.2	3.8	2.9
27	.33	.28	.26	.36	.72	2.7	9.4	32	4.4	4.6	4.9	3.9
28	.43	.28	.16	.36	.98	3.2	19	26	4.4	3.1	4.4	4.5
29	.52	.28	.23	.36	---	2.8	13	24	4.6	2.2	3.9	4.2
30	.48	.28	.25	.36	---	2.4	21	23	4.6	2.1	3.6	3.9
31	.41	---	.25	.36	---	2.6	---	21	---	1.9	2.0	---
TOTAL	20.85	10.27	8.86	8.49	15.63	58.75	238.7	1256	255.4	89.6	82.2	51.43
MEAN	.67	.34	.29	.27	.56	1.90	7.96	40.5	8.51	2.89	2.65	1.71
MAX	2.2	.53	.38	.36	.98	3.2	21	67	18	5.2	4.9	4.5
MIN	.26	.27	.09	.11	.40	.78	1.9	21	4.4	1.5	1.3	.56

WTR YR 1982 TOTAL 2096.18 MEAN 5.74 MAX 67 MIN .09

NOTE.--NO GAGE-HEIGHT RECORD OCT. 17 TO NOV. 16, AND JAN. 14 to FEB. 23.

Table 5.--*Surface-water discharge at station 09092850, East Middle Fork Parachute Creek near Rio Blanco (site 2), water year October 1982 to September 1983*

[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 upstream from mouth of Corral Gulch, 1.1 mi downstream from mouth of Northwater Creek, and 9 mi southwest of Rio Blanco.
DRAINAGE AREA.--22.1 mi^2.]

WATER-DISCHARGE RECORDS

[PERIOD OF RECORD.--October 1976 to September 1983 (discontinued).
GAGE.--Water-stage recorder. Altitude of gage is 7,400 ft, from topographic map.
REMARKS.--Records poor. Numerous beaver dams are located upstream. No regulation or diversion upstream from station.
AVERAGE DISCHARGE.--7 years, 9.65 ft^3/s; 6,990 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 645 ft^3/s May 27, 1983; gage height, 5.65 ft, from rating curve extended above 180 ft^3/s; minimum daily, 0.09 ft^3/s Dec. 24, 1981.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 645 ft^3/s at 1600 May 27; gage height, 5.65 ft, from rating curve extended above 180 ft^3/s; minimum daily, 0.19 ft^3/s Feb. 1.]

DISCHARGE, IN CUBIC FEET PER SECOND
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	.75	1.1	.80	.19	.77	2.9	23	190	14	4.8	1.3
2	2.1	.80	1.1	.80	.21	.78	2.5	20	179	13	4.6	1.2
3	1.8	1.0	.99	.80	.25	.79	2.6	19	154	12	4.4	1.2
4	1.6	.94	.99	.80	.28	.80	2.9	35	127	11	4.2	1.6
5	2.5	1.0	1.1	.80	.22	.81	2.6	52	115	10	4.1	1.4
6	1.1	.93	1.1	.77	.30	.57	2.3	61	106	9.5	4.0	1.3
7	1.0	.73	1.1	.71	.24	.29	2.6	54	93	9.0	4.0	1.3
8	1.1	.68	1.1	.55	.26	.43	2.9	76	88	8.5	3.8	1.4
9	1.4	.67	1.1	.29	.34	.65	3.0	105	85	8.0	3.6	1.4
10	1.5	.77	1.1	.29	.33	.77	3.3	150	80	7.5	3.4	1.4
11	1.3	.72	.99	.38	.27	1.1	3.4	210	72	7.0	3.4	1.4
12	1.1	.91	.82	.53	.29	1.9	3.1	250	68	6.5	4.0	1.5
13	.76	.99	1.1	.68	.27	2.9	3.0	334	58	6.0	5.2	1.5
14	.75	.66	1.1	.62	.36	2.4	3.0	330	52	5.5	2.3	1.5
15	.54	.76	1.1	.62	.46	2.3	3.1	328	47	5.0	1.7	1.5
16	.49	.81	1.1	.61	.51	2.2	3.6	326	46	5.0	1.5	1.6
17	.59	.88	1.0	.35	.42	2.1	3.9	326	42	5.0	1.5	1.6
18	.48	.88	1.0	.40	.32	2.0	4.5	318	39	5.0	1.7	1.6
19	.63	.87	1.0	.44	.21	2.0	5.2	344	36	5.0	1.6	1.7
20	.73	.95	1.0	.38	.26	1.9	5.4	344	33	5.0	2.0	1.7
21	.73	.94	1.0	.29	.26	1.8	6.1	382	30	5.0	1.6	1.7
22	.73	.94	1.0	.43	.32	1.7	6.7	435	27	5.2	1.5	1.6
23	.73	.58	.90	.37	.49	1.7	7.2	386	25	5.3	1.7	1.8
24	.62	.32	.90	.47	.45	1.7	10	474	23	5.4	1.7	2.1
25	.51	1.0	.90	.46	.30	1.8	23	558	21	5.4	1.7	2.0
26	.66	.92	.90	.46	.37	1.8	24	570	19	5.4	1.7	2.0
27	.66	.83	.90	.45	.53	1.8	24	573	17	5.4	1.6	2.0
28	.81	.91	.90	.45	.49	1.9	23	441	17	5.4	1.5	2.0
29	.98	1.2	.90	.34	---	2.1	22	370	16	5.4	1.7	1.7
30	.97	1.1	.80	.44	---	2.5	24	256	15	5.2	1.6	1.7
31	.80	---	.80	.25	---	2.9	---	232	---	5.0	1.5	---
TOTAL	32.07	25.44	30.89	16.03	9.20	49.16	235.8	8382	1920	215.6	83.6	47.7
MEAN	1.03	.85	1.00	.52	.33	1.59	7.86	270	64.0	6.95	2.70	1.59
MAX	2.5	1.2	1.1	.80	.53	2.9	24	573	190	14	5.2	2.1
MIN	.48	.32	.80	.25	.19	.29	2.3	19	15	5.0	1.5	1.2

WTR YR 1983 TOTAL 11047.49 MEAN 30.3 MAX 573 MIN .19

NOTE.--NO GAGE-HEIGHT RECORD OCT. 8 TO NOV. 29.

Table 6.--*Surface-water discharge at station 09092960, East Fork Parachute Creek near Anvil Points (site 3), water year October 1981 to September 1982*

[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 downstream from first Anvil Creek and 4.2 mi northwest of Anvil Points.
DRAINAGE AREA.--14.5 mi^2.]

WATER-DISCHARGE RECORDS

[PERIOD OF RECORD.--October 1976 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 7,860 ft, from topographic map.
REMARKS.--Records good except those for winter period, which are fair. No diversions or regulation.
AVERAGE DISCHARGE.--6 years, 6.66 ft^3/s, 4,830 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 226 ft^3/s May 22, 1979; gage height, 3.60 ft; minimum daily, 0.07 ft^3/s Aug. 9-11, 1977.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 86 ft^3/s at 1,500 May 4; gage height, 2.82 ft only peak above base of 10 ft^3/s; minimum daily, 0.31 ft^3/s Oct. 1.]

DISCHARGE, IN CUBIC FEET PER SECOND
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.31	1.1	.52	.56	.58	2.3	2.7	42	20	4.6	1.8	1.0
2	.43	1.3	.52	.48	.55	2.3	2.5	52	19	4.0	2.0	.91
3	.80	1.4	.55	.43	.52	2.0	2.6	69	18	3.7	1.8	.91
4	.95	1.0	.52	.39	.43	1.6	2.3	76	17	3.6	1.7	.91
5	.91	.96	.52	.48	.34	1.3	1.9	62	16	3.4	1.6	1.3
6	.72	.90	.52	.39	.34	1.0	2.3	49	15	3.7	1.5	1.1
7	.62	1.0	.52	.34	.45	1.1	1.9	39	14	3.4	1.4	1.0
8	.72	.97	.52	.34	.48	1.0	1.7	36	13	3.3	1.6	1.1
9	.62	.84	.52	.39	.48	.97	1.9	36	13	3.6	2.0	1.1
10	.62	.72	.52	.43	.52	1.1	2.0	34	12	3.4	2.2	1.0
11	.72	.63	.52	.43	.55	1.2	3.6	32	11	3.2	2.3	1.3
12	1.1	.59	.52	.43	.55	2.8	11	32	11	3.0	2.1	1.1
13	1.1	.62	.52	.43	.52	3.4	12	30	10	2.9	2.1	2.5
14	.91	.68	.48	.43	.55	3.9	13	28	9.7	2.7	2.0	2.1
15	1.5	.83	.52	.43	.62	3.5	13	26	9.3	2.5	1.7	1.3
16	1.5	.66	.52	.48	.62	2.9	11	26	8.9	2.4	1.8	1.0
17	1.4	.64	.48	.52	.67	2.6	8.9	27	8.5	2.5	1.7	.91
18	1.2	.55	.48	.52	.52	2.4	9.9	29	8.1	2.5	1.6	.91
19	1.0	.51	.54	.62	.52	2.0	9.0	35	7.7	2.4	1.5	.81
20	.91	.51	.54	.60	.54	1.9	6.7	37	7.3	2.2	1.4	.91
21	.81	.64	.48	.60	.78	1.7	5.9	36	6.5	2.1	1.9	.81
22	.81	.67	.48	.52	1.1	1.5	7.1	35	6.0	1.9	1.7	.72
23	.72	.70	.43	.48	1.3	1.4	9.0	33	5.8	1.9	1.4	.81
24	.72	.68	.39	.52	1.4	1.5	9.4	32	5.4	2.0	1.4	.72
25	.72	.62	.43	.58	1.5	1.9	11	30	5.3	2.1	1.4	.72
26	.72	.52	.43	.58	1.8	2.6	13	29	5.2	2.0	1.4	.91
27	.72	.52	.48	.62	2.1	2.4	15	27	4.9	2.0	1.3	1.4
28	.72	.52	.43	.62	2.2	2.7	18	26	4.5	2.4	1.3	2.4
29	1.2	.58	.48	.62	---	2.9	25	24	4.2	2.1	1.2	2.3
30	1.2	.56	.54	.60	---	2.5	31	23	4.1	1.9	1.1	4.6
31	1.1	---	.52	.58	---	3.1	---	21	---	1.7	1.1	---
TOTAL	27.48	22.42	15.44	15.44	22.53	65.47	264.3	1113	300.4	85.1	51.0	38.56
MEAN	.89	.75	.50	.50	.80	2.11	8.81	35.9	10.0	2.75	1.65	1.29
MAX	1.5	1.4	.55	.62	2.2	3.9	31	76	20	4.6	2.3	4.6
MIN	.31	.51	.39	.34	.34	.97	1.7	21	4.1	1.7	1.1	.72

WTR YR 1982 TOTAL 2021.14 MEAN 5.54 MAX 76 MIN .31

Table 7.--*Surface-water discharge at station 09092960, East Fork Parachute Creek near Anvil Points (site 3), water year October 1982 to September 1983*

[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 downstream from first Anvil Creek and 4.2 mi northwest of Anvil Points.
DRAINAGE AREA.--14.5 mi^2.]

WATER-DISCHARGE RECORDS

[PERIOD OF RECORD.--October 1976 to September 1983 (discontinued).
GAGE.--Water-stage recorder. Altitude of gage is 7,860 ft, from topographic map.
REMARKS.--Records good except those for winter period and those for period of no gage-height record, which are poor. No diversions or regulation.
AVERAGE DISCHARGE.--7 years, 8.09 ft^3/s; 5,860 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 364 ft^3/s May 30, 1983; gage height, 4.21 ft; minimum daily, 0.07 ft^3/s Aug. 9-11, 1977.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 364 ft^3/s at 0600 May 30; gage height, 4.21 ft, only peak above base of 10 ft^3/s; minimum daily, 0.46 ft^3/s Feb. 2.]

DISCHARGE, IN CUBIC FEET PER SECOND
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	1.8	.92	.64	.54	.80	2.6	13	260	15	4.6	2.5
2	1.9	1.3	.86	.66	.46	.82	2.5	13	240	15	4.7	2.3
3	1.4	1.0	.91	.66	.50	.86	2.3	14	209	14	7.3	2.3
4	1.2	1.1	.91	.66	.52	.88	2.1	17	195	13	5.8	3.1
5	1.1	.98	.91	.68	.54	.90	1.9	20	170	12	5.4	2.4
6	1.1	.94	.91	.70	.54	.92	4.6	22	110	10	4.9	2.3
7	1.0	1.0	.91	.74	.56	.90	2.6	22	98	10	4.6	2.2
8	1.1	1.0	.91	.74	.56	.92	1.6	26	84	9.6	4.6	2.3
9	1.1	1.1	.91	.72	.58	1.1	1.6	40	78	9.2	4.1	2.1
10	1.1	1.1	.91	.66	.58	1.6	2.0	53	70	8.6	4.4	2.1
11	1.1	.93	.91	.64	.58	2.8	2.6	76	62	7.8	4.0	1.9
12	1.1	.93	.90	.60	.60	3.0	2.7	70	58	7.3	5.9	1.9
13	1.2	.90	.86	.60	.60	3.1	2.5	62	48	7.1	5.9	1.9
14	1.1	.90	.86	.62	.60	3.3	2.4	59	40	6.7	4.2	1.9
15	1.1	.88	.84	.64	.60	2.9	2.4	62	37	6.4	3.7	1.9
16	1.0	.88	.84	.64	.62	3.2	2.6	66	35	6.4	3.5	1.9
17	1.0	.91	.84	.66	.64	2.9	3.9	66	35	5.8	3.5	1.7
18	1.0	.96	.82	.66	.64	2.7	6.0	65	33	5.7	4.5	1.7
19	.96	.98	.82	.64	.64	2.3	8.1	66	31	5.8	3.8	1.7
20	.93	1.0	.80	.64	.68	2.1	9.2	73	29	7.0	5.3	1.7
21	.91	1.0	.80	.64	.72	3.2	10	86	27	7.2	3.6	1.6
22	.93	1.0	.78	.66	.70	1.8	9.6	105	25	6.3	3.3	1.5
23	.90	1.0	.76	.62	.76	1.6	12	123	24	7.1	3.1	1.5
24	.91	1.0	.76	.64	.82	1.5	18	159	22	6.0	2.9	1.5
25	.91	1.0	.74	.66	.82	1.3	22	192	21	6.4	2.9	1.5
26	1.3	1.0	.72	.62	.80	1.6	19	210	19	7.0	2.9	1.5
27	2.2	1.0	.68	.60	.78	1.5	16	220	17	6.2	2.7	1.5
28	1.2	1.0	.66	.62	.80	1.4	15	256	16	5.7	2.7	1.5
29	1.1	1.0	.64	.60	---	1.4	14	281	16	5.1	2.5	1.5
30	1.2	1.0	.64	.60	---	1.9	15	300	15	4.9	2.7	2.5
31	1.9	---	.64	.56	---	2.9	---	280	---	4.7	2.6	---
TOTAL	38.55	30.59	25.37	20.02	17.78	58.10	216.8	3117	2124	249.0	126.6	57.9
MEAN	1.24	1.02	.82	.65	.64	1.87	7.23	101	70.8	8.03	4.08	1.93
MAX	3.6	1.8	.92	.74	.82	3.3	22	300	260	15	7.3	3.1
MIN	.90	.88	.64	.56	.46	.80	1.6	13	15	4.7	2.5	1.5

WTR YR 1983 TOTAL 6081.71 MEAN 16.7 MAX 300 MIN .46

NOTE.--NO GAGE-HEIGHT RECORD MAY 30 TO JULY 5.

Table 8.--*Surface-water discharge at station 09092970, East Fork Parachute Creek near Rulison (site 4), water year October 1981 to September 1982*

[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 downstream from East Fork Falls and 6.4 mi northwest of Rulison.
DRAINAGE AREA.--20.4 mi^2.]

WATER-DISCHARGE RECORDS

[PERIOD OF RECORD.--November 1976 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 6,880 ft, from topographic map, Since Apr. 25, 1980, supplementary water-stage recorder 1,000 ft downstream at different datum.
REMARKS.--Records fair except those for period of no gage-height record, which are poor.
AVERAGE DISCHARGE.--5 years (water years 1978-82), 7.75 ft^3/s, 5,610 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 174 ft^3/s May 11, 1980; gage height, 2.87 ft; maximum gage height, 3.49 ft May 17, 1978, site and datum then in use; no flow many days.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 101 ft^3/s at 1900 May 4; gage height, 2.77 ft, only peak above base of 100 ft^3/s; no flow many days.]

DISCHARGE, IN CUBIC FEET PER SECOND
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.10	.02	.00	.00	.00	1.0	61	20	4.4	1.1	.48
2	.00	.20	.02	.00	.00	.00	.90	71	19	4.0	1.5	.47
3	.00	.30	.01	.00	.00	.00	.80	83	18	4.0	1.3	.47
4	.00	.40	.01	.00	.00	.00	.70	85	16	3.9	1.2	.51
5	.00	.40	.01	.00	.00	.00	.60	89	15	4.0	1.1	1.2
6	.00	.30	.01	.00	.00	.00	.50	78	15	4.5	1.1	1.1
7	.00	.20	.00	.00	.00	.00	.42	62	14	4.2	1.0	.78
8	.00	.10	.00	.00	.00	.00	.40	55	14	4.2	1.0	.90
9	.00	.06	.00	.00	.00	.00	.50	51	14	4.3	1.2	1.0
10	.00	.02	.00	.00	.00	.00	1.0	48	13	3.4	1.6	.76
11	.00	.01	.00	.00	.00	.00	5.0	40	11	3.0	1.5	1.3
12	.00	.00	.00	.00	.00	.00	11	37	12	2.6	1.3	1.3
13	.10	.01	.00	.00	.00	.00	11	33	11	2.1	1.3	3.4
14	.00	.04	.00	.00	.00	.00	13	28	11	2.1	1.2	2.6
15	.05	.05	.00	.00	.00	.00	13	29	10	2.0	.94	1.7
16	.20	.01	.00	.00	.00	.00	11	28	9.7	2.0	1.1	1.2
17	.16	.00	.00	.00	.00	.00	9.3	27	9.3	2.1	1.2	1.0
18	.12	.02	.00	.00	.00	.00	10	30	9.6	2.0	1.1	1.0
19	.10	.00	.00	.00	.00	.00	9.7	37	8.5	1.9	.99	.99
20	.06	.00	.00	.00	.00	.00	8.4	47	7.8	1.8	.96	1.1
21	.04	.01	.00	.00	.00	.00	8.1	49	7.2	1.8	1.1	1.0
22	.01	.02	.00	.00	.00	.00	8.8	43	7.0	1.8	1.2	.82
23	.03	.03	.00	.00	.00	.00	11	42	6.8	1.6	.82	.77
24	.06	.02	.00	.00	.00	.00	13	39	6.2	1.6	.64	.69
25	.03	.01	.00	.00	.00	.20	17	38	5.7	1.5	.67	.72
26	.02	.00	.00	.00	.00	.30	20	36	5.3	1.4	.62	1.1
27	.04	.00	.00	.00	.00	.40	25	31	4.8	1.6	.48	1.9
28	.08	.00	.00	.00	.00	.50	28	29	4.4	2.0	.46	3.0
29	.04	.00	.00	.00	---	.60	33	26	4.1	1.7	.46	2.7
30	.06	.02	.00	.00	---	.70	45	25	4.0	1.5	.55	4.8
31	.08	---	.00	.00	---	.80	---	23	---	1.3	.52	---
TOTAL	1.28	2.33	.08	.00	.00	3.60	317.12	1400	313.4	80.3	31.21	40.76
MEAN	.041	.078	.003	.000	.000	.12	10.6	45.2	10.4	2.59	1.01	1.36
MAX	.20	.40	.02	.00	.00	.80	45	89	20	4.5	1.6	4.8
MIN	.00	.00	.00	.00	.00	.00	.40	23	4.0	1.3	.46	.47

WTR YR 1982 TOTAL 2190.08 MEAN 6.00 MAX 89 MIN .00

NOTE.--NO GAGE-HEIGHT RECORD OCT. 1 TO APR. 12.

Table 9.--*Surface-water discharge at station 09092970, East Fork Parachute Creek near Rulison for water year October 1982 to September 1983*

[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 downstream from East Fork Falls and 6.4 mi northwest of Rulison.
DRAINAGE AREA.--20.4 mi^2.]

WATER-DISCHARGE RECORDS

[PERIOD OF RECORD.--November 1976 to September 1983 (discontinued).
GAGE.--Water-stage recorder. Altitude of gage is 6,880 ft, from topographic map. Since Apr. 25, 1980, supplementary water-stage recorder 1,000 ft downstream at different datum.
REMARKS.--Records fair except those for winter period, which are poor.
AVERAGE DISCHARGE.--6 years (water years 1978-83), 9.68 ft^3/s; 7,010 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 462 ft^3/s May 30, 1983; gage height, 4.14 ft, from highwater mark at supplemental site and datum; no flow many days.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 462 ft^3/s May 30; gage height, 4.14 ft, only peak above base of 100 ft^3/s; minimum daily, 0.16 ft^3/s on Feb. 2.]

DISCHARGE, IN CUBIC FEET PER SECOND
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	2.5	.92	.34	.21	.49	2.6	32	270	14	3.3	1.3
2	2.0	2.0	.77	.33	.16	.50	2.8	30	220	14	3.2	1.3
3	1.5	.50	.76	.34	.19	.71	2.7	32	190	12	4.8	1.2
4	1.2	.34	.72	.35	.25	.70	2.4	38	160	11	6.0	1.8
5	1.0	.45	.63	.33	.25	.53	1.8	46	140	10	3.8	1.7
6	.95	.52	.66	.33	.22	.51	1.9	52	120	9.9	3.6	1.3
7	.79	.60	.70	.31	.23	.59	1.9	52	106	9.0	3.5	1.2
8	.97	.70	.54	.29	.23	.56	2.0	64	93	8.5	3.2	1.3
9	1.5	.80	.69	.26	.24	.56	2.1	100	83	7.9	3.1	.97
10	1.5	1.0	.85	.24	.25	.60	2.2	122	73	7.3	3.4	.87
11	1.5	1.4	.65	.23	.23	1.2	2.6	131	64	6.2	3.2	.91
12	1.3	.72	.62	.22	.23	1.6	2.7	115	62	5.9	3.4	.78
13	1.4	.60	.73	.19	.27	1.9	2.4	94	52	5.6	8.0	.71
14	1.2	.54	.67	.21	.26	2.4	2.9	96	43	5.3	4.3	.70
15	1.0	.50	.67	.22	.27	3.0	3.2	93	38	5.1	3.4	.70
16	.98	.56	.62	.23	.28	4.1	3.7	96	36	5.2	3.0	.70
17	.91	.64	.57	.27	.28	3.6	5.4	99	36	5.0	2.8	.70
18	.88	.78	.50	.27	.29	2.9	7.7	84	34	4.7	3.9	.70
19	.79	.90	.45	.26	.29	2.5	10	90	32	4.6	2.9	.70
20	1.3	.80	.46	.23	.29	2.2	12	98	30	5.1	5.3	.70
21	1.5	.74	.49	.23	.31	3.5	13	108	28	7.7	2.8	.70
22	1.4	.70	.47	.22	.34	3.4	13	125	25	6.3	2.4	.70
23	1.0	.56	.47	.19	.36	2.4	16	139	24	6.3	2.3	.70
24	1.0	.50	.45	.18	.44	2.1	25	194	22	5.7	2.2	.68
25	1.1	.80	.44	.20	.68	2.2	32	240	23	5.5	2.2	.68
26	1.3	1.1	.42	.20	.73	2.6	32	280	21	6.8	1.9	.68
27	3.1	.87	.41	.20	.61	2.2	30	200	20	5.3	1.7	.66
28	1.8	.83	.40	.22	.53	1.7	28	310	19	5.1	1.7	.66
29	1.6	.82	.39	.17	---	1.5	29	320	17	4.4	1.7	.66
30	1.7	.86	.38	.20	---	2.3	33	330	15	3.8	1.7	1.0
31	2.8	---	.37	.20	---	3.2	---	300	---	3.6	1.5	---
TOTAL	44.97	24.63	17.87	7.66	8.92	58.25	326.0	4110	2096	216.8	100.2	27.36
MEAN	1.45	.82	.58	.25	.32	1.88	10.9	133	69.9	6.99	3.23	.91
MAX	4.0	2.5	.92	.35	.73	4.1	33	330	270	14	8.0	1.8
MIN	.79	.34	.37	.17	.16	.49	1.8	30	15	3.6	1.5	.66

WTR YR 1983 TOTAL 7038.66 MEAN 19.3 MAX 330 MIN .16

Table 10.--*Surface-water discharge at station 09092980, Ben Good Creek near Rulison (site 5), water year October 1981 to September 1982*

[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 upstream from East Fork Parachute Creek and 8.3 mi northwest of Rulison.
DRAINAGE AREA.--4.04 mi^2.]

WATER-DISCHARGE RECORDS

[PERIOD OF RECORD.--November 1976 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 6,520 ft, from topographic map.
REMARKS.--Records good. No regulation or diversions upstream from station
AVERAGE DISCHARGE.--Five years, 0.55 ft^3/s, 398 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13 ft^3/s May 7, 1980; gage height, 2.78 ft; no flow many days.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.5 ft^3/s at 2400 May 4; gage height, 2.20 ft; no flow many days.]

DISCHARGE, IN CUBIC FEET PER SECOND
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.14	.49	.29	.13	.06
2	.00	.00	.00	.00	.00	.00	.00	.39	.57	.23	.14	.06
3	.00	.00	.00	.00	.00	.00	.00	.67	.76	.22	.13	.06
4	.00	.00	.00	.00	.00	.00	.00	1.9	.79	.21	.13	.06
5	.00	.00	.00	.00	.00	.00	.00	2.1	.84	.21	.13	.07
6	.00	.00	.00	.00	.00	.00	.00	1.3	1.0	.21	.13	.07
7	.00	.00	.00	.00	.00	.00	.00	1.2	1.1	.21	.13	.07
8	.00	.00	.00	.00	.00	.00	.00	1.0	1.1	.20	.14	.07
9	.00	.00	.00	.00	.00	.00	.00	.94	.97	.20	.13	.07
10	.00	.00	.00	.00	.00	.00	.00	1.1	.58	.19	.12	.06
11	.00	.00	.00	.00	.00	.00	.00	.97	.25	.18	.12	.08
12	.00	.00	.00	.00	.00	.00	.00	1.1	.28	.17	.13	.08
13	.00	.00	.00	.00	.00	.00	.00	.92	.25	.16	.12	.11
14	.00	.00	.00	.00	.00	.00	.00	.69	.25	.15	.12	.09
15	.00	.00	.00	.00	.00	.00	.00	.56	.28	.14	.11	.09
16	.00	.00	.00	.00	.00	.00	.00	.55	.26	.13	.11	.08
17	.00	.00	.00	.00	.00	.00	.00	.64	.25	.13	.10	.07
18	.00	.00	.00	.00	.00	.00	.00	1.1	.26	.13	.10	.07
19	.00	.00	.00	.00	.00	.00	.00	2.0	.24	.14	.09	.08
20	.00	.00	.00	.00	.00	.00	.00	2.0	.24	.13	.09	.08
21	.00	.00	.00	.00	.00	.00	.00	1.8	.27	.13	.09	.08
22	.00	.00	.00	.00	.00	.00	.00	1.6	.29	.14	.08	.07
23	.00	.00	.00	.00	.00	.00	.00	1.5	.29	.12	.08	.06
24	.00	.00	.00	.00	.00	.00	.00	1.3	.28	.11	.08	.06
25	.00	.00	.00	.00	.00	.00	.00	1.2	.27	.06	.08	.06
26	.00	.00	.00	.00	.00	.00	.00	1.0	.27	.00	.08	.07
27	.00	.00	.00	.00	.00	.00	.00	.98	.28	.10	.08	.09
28	.00	.00	.00	.00	.00	.00	.00	.84	.24	.18	.08	.10
29	.00	.00	.00	.00	---	.00	.00	.76	.24	.15	.07	.10
30	.00	.00	.00	.00	---	.00	.00	.68	.25	.14	.06	.13
31	.00	---	.00	.00	---	.00	---	.61	---	.14	.06	---
TOTAL	.00	.00	.00	.00	.00	.00	.00	33.54	13.44	4.90	3.24	2.30
MEAN	.000	.000	.000	.000	.000	.000	.000	1.08	.45	.16	.10	.077
MAX	.00	.00	.00	.00	.00	.00	.00	2.1	1.1	.29	.14	.13
MIN	.00	.00	.00	.00	.00	.00	.00	.14	.24	.00	.06	.06

WTR YR 1982 TOTAL 57.42 MEAN .16 MAX 2.1 MIN .00

NOTE.--NO GAGE-HEIGHT RECORD NOV. 21 TO APR. 26, MAY 26 TO JUNE 20, AUG. 12 TO SEPT. 12.

Table 11.--*Surface-water discharge at station 09092980, Ben Good Creek near Rulison (site 5), water year October 1982 to September 1983*

[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 upstream from East Fork Parachute Creek and 8.3 mi northwest of Rulison.
DRAINAGE AREA.--4.04 mi^2.]

WATER-DISCHARGE RECORDS

[PERIOD OF RECORD.--November 1976 to September 1983 (discontinued).
GAGE.--Water-stage recorder. Altitude of gage is 6,520 ft, from topographic map.
REMARKS.--Records fair, except for periods of no gage-height record, which are poor. No regulation or diversions upstream from station.
AVERAGE DISCHARGE.--6 years, 0.81 ft^3/s; 588 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, not determined; no flow many days.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, unknown; no flow many days.]

DISCHARGE, IN CUBIC FEET PER SECOND
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.08	.03	.01	.00	.00	.05	3.8	26	1.9	1.1	.52
2	.09	.07	.03	.01	.00	.00	.06	3.9	23	1.7	1.2	.46
3	.07	.06	.03	.01	.00	.00	.06	4.1	19	1.7	1.1	.52
4	.07	.06	.03	.01	.00	.00	.07	4.6	14	1.6	1.3	.60
5	.07	.06	.03	.01	.00	.00	.07	5.4	11	1.5	1.2	.54
6	.07	.06	.03	.01	.00	.00	.08	6.9	8.0	1.4	1.1	.52
7	.07	.06	.02	.01	.00	.00	.09	8.4	7.0	1.4	1.1	.52
8	.07	.07	.02	.01	.00	.00	.10	9.4	6.4	1.4	.96	.58
9	.08	.07	.02	.01	.00	.00	.10	11	6.0	1.4	.91	.54
10	.08	.07	.02	.01	.00	.01	.11	13	5.6	1.4	.88	.44
11	.08	.06	.02	.01	.00	.02	.12	8.0	5.0	1.5	.88	.37
12	.07	.06	.02	.00	.00	.02	.13	7.0	4.5	1.5	1.0	.35
13	.06	.06	.02	.00	.00	.02	.16	5.9	4.2	1.5	.92	.34
14	.06	.06	.02	.00	.00	.02	.20	6.2	4.0	1.5	.86	.34
15	.06	.06	.02	.00	.00	.02	.25	6.1	3.8	1.5	.80	.34
16	.05	.06	.02	.00	.00	.02	.30	7.6	3.5	1.3	.76	.30
17	.05	.06	.02	.00	.00	.02	.40	7.9	3.3	1.3	.72	.30
18	.06	.05	.02	.00	.00	.02	.50	8.0	3.1	1.3	.70	.30
19	.09	.06	.02	.00	.00	.02	.60	8.5	3.0	1.2	.72	.30
20	.09	.06	.02	.00	.00	.02	.70	8.9	2.9	1.2	.82	.30
21	.09	.06	.01	.00	.00	.03	.90	9.7	2.8	1.6	.74	.30
22	.09	.06	.01	.00	.00	.03	1.1	12	2.6	1.7	.66	.30
23	.09	.05	.01	.00	.00	.03	1.5	13	2.6	1.4	.64	.30
24	.10	.05	.01	.00	.00	.04	2.0	24	2.5	1.3	.62	.27
25	.10	.05	.01	.00	.00	.04	2.3	35	2.5	1.3	.60	.27
26	.10	.04	.01	.00	.00	.04	2.3	36	2.5	1.3	.56	.27
27	.08	.04	.01	.00	.00	.04	2.5	37	2.3	1.3	.54	.27
28	.07	.04	.01	.00	.00	.04	2.6	38	2.4	1.2	.56	.27
29	.07	.04	.01	.00	---	.04	3.1	39	2.2	1.2	.56	.27
30	.07	.03	.01	.00	---	.04	3.4	40	2.0	1.2	.56	.31
31	.08	---	.01	.00	---	.05	---	30	---	1.2	.56	---
TOTAL	2.38	1.71	.57	.11	.00	.63	25.85	458.3	187.7	43.9	25.63	11.31
MEAN	.077	.057	.018	.004	.000	.020	.86	14.8	6.26	1.42	.83	.38
MAX	.10	.08	.03	.01	.00	.05	3.4	40	26	1.9	1.3	.60
MIN	.05	.03	.01	.00	.00	.00	.05	3.8	2.0	1.2	.54	.27

WTR YR 1983 TOTAL 758.09 MEAN 2.08 MAX 40 MIN .00

NOTE.--NO GAGE-HEIGHT RECORD NOV. 21 TO APR. 26, MAY 26 TO JUNE 20, AUG. 12 TO SEPT. 12.

Table 12.--*Water-quality data for station 09092830, Northwater Creek near Anvil Points (site 1), water year October 1981 to September 1982*

WATER-QUALITY RECORDS
[PERIOD OF RECORD.--October 1976 to current year.]

WATER-QUALITY CONSTITUENTS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (µS/cm)	PH (STAND-ARD UNITS)	TEMPER-ATURE (°C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS $CACO_3$)	HARD-NESS, NONCAR-BONATE (MG/L $CACO_3$)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
OCT												
06...	1320	.58	520	8.3	12.0	8.4	210	0	51	20	35	1
NOV												
17...	0910	.48	525	8.1	2.0	10.1	220	0	55	20	34	1
DEC												
08...	1220	.49	520	8.2	.5	10.9	230	0	56	21	36	1
JAN												
14...	1220	.40	518	8.0	.0	10.4	200	0	48	20	33	1
FEB												
23...	1200	.76	522	8.1	.0	--	230	0	54	22	34	1
MAR												
24...	1030	.96	500	8.1	1.0	--	220	0	53	21	35	1
MAY												
05...	1320	54	370	8.2	3.0	9.1	160	0	42	13	21	.8
JUN												
02...	1510	12	400	8.8	13.5	8.4	180	0	45	16	26	.9
JUL												
12...	1450	1.8	480	8.4	18.0	8.4	220	0	54	20	32	1
SEP												
16...	1400	.70	495	8.8	16.0	8.2	200	0	53	15	35	1

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO_4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO_2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO_4)	ARSENIC DIS-SOLVED (µG/L AS AS)
OCT												
06...	.80	37	2.5	.30	15	310	.42	.49	.13	.060	.18	8
NOV												
17...	.50	40	2.3	.20	12	310	.43	.41	<.09	<.020	--	13
DEC												
08...	.60	38	2.0	.20	14	330	.44	.43	<.10	.070	.21	5
JAN												
14...	.50	37	2.0	.20	13	290	.39	.31	.17	.050	.15	4
FEB												
23...	.60	36	1.6	.20	15	310	.43	.65	.37	.040	.12	5
MAR												
24...	.70	42	2.2	.20	13	310	.42	.81	.23	.030	.09	4
MAY												
05...	.70	5.0	1.3	.10	16	210	.29	31	1.0	.100	.31	4
JUN												
02...	.80	18	1.6	.20	15	240	.33	7.7	<.10	.030	.09	4
JUL												
12...	.90	28	1.8	.20	16	300	.41	1.5	<.10	.040	.12	4
SEP												
16...	.80	34	2.2	.20	15	290	.40	.55	<.10	.040	.12	4

Table 12.--*Water-quality data for station 09092830, Northwater Creek near Anvil Points (site 1), water year October 1981 to September 1982*--Continued

DATE	BARIUM, DIS-SOLVED (µG/L AS BA)	BORON, DIS-SOLVED (µG/L AS B)	CADMIUM DIS-SOLVED (µG/L AS CD)	COPPER, DIS-SOLVED (µG/L AS CU)	IRON, DIS-SOLVED (µG/L AS FE)	LEAD, DIS-SOLVED (µG/L AS PB)	LITHIUM DIS-SOLVED (µG/L AS LI)	MANGA-NESE, DIS-SOLVED (µG/L AS MN)	MERCURY DIS-SOLVED (µG/L AS HG)	SELE-NIUM, DIS-SOLVED (µG/L AS SE)	STRON-TIUM, DIS-SOLVED (µG/L AS SR)	ZINC, DIS-SOLVED (µG/L AS ZN)
WATER-QUALITY CONSTITUENTS												
OCT												
06...	85	50	<1	4	13	1	12	9	.0	0	900	11
NOV												
17...	80	30	<1	4	<10	1	11	12	<.1	<1	900	<3
DEC												
08...	80	50	<1	3	<10	<1	15	67	<.1	<1	900	4
JAN												
14...	77	60	<1	3	15	2	10	7	.1	<1	830	7
FEB												
23...	84	40	<1	9	<10	3	8	3	<.1	<1	910	<3
MAR												
24...	78	50	<1	3	3	1	8	3	<.1	<1	790	<4
MAY												
05...	63	20	<3	3	<9	<1	<12	19	.3	<1	580	<12
JUN												
02...	65	30	<3	5	<9	<1	15	10	<.1	<1	670	<12
JUL												
12...	94	50	<1	5	10	1	8	6	<.1	1	900	13
SEP												
16...	88	--	<1	6	10	<1	9	5	<.1	1	890	4

Table 13.--*Water-quality data for station 09092830, Northwater Creek near Anvil Points (site 1), water year October 1982 to September 1983*

WATER-QUALITY RECORDS

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

WATER-QUALITY CONSTITUENTS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (µS/cm)	PH (STAND-ARD UNITS)	TEMPER-ATURE (°C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS $CACO_3$)	HARD-NESS, NONCAR-BONATE (MG/L $CACO_3$)	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												
08...	1330	1.5	482	8.6	4.0	8.4	210	0	52	20	31	1
NOV												
29...	1120	.81	513	8.4	.5	9.8	220	0	52	21	31	.9
JAN												
06...	1315	.69	524	8.5	.5	12.0	220	0	53	21	32	1
FEB												
16...	1200	.59	533	8.5	.0	10.8	230	0	54	22	33	1
MAR												
23...	1020	1.2	509	8.5	2.0	10.8	220	0	52	21	32	1
APR												
11...	1120	1.6	520	8.5	3.5	--	220	0	52	21	30	.9
MAY												
05...	0900	22	458	8.4	5.0	--	200	0	50	18	27	.9

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO_4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO_2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO_4)	ARSENIC DIS-SOLVED (µG/L AS AS)
OCT												
08...	.60	28	1.7	.30	14	300	.41	1.2	<.10	.020	.06	4
NOV												
29...	.60	33	1.7	.20	13	310	.42	.68	<.10	.010	.03	4
JAN												
06...	.60	30	1.7	.20	14	310	.42	.58	.30	.060	.18	6
FEB												
16...	.60	32	1.6	.20	14	320	.43	.51	.26	.050	.15	4
MAR												
23...	.50	33	1.7	.20	14	310	.42	1.0	.24	.040	.12	4
APR												
11...	.60	33	1.7	.20	14	300	.41	1.3	.25	.060	.18	4
MAY												
05...	.60	32	1.9	.10	16	280	.38	17	1.4	.040	.12	3

Table 13.--*Water-quality data for station 09092830, Northwater Creek near Anvil Points (site 1), water year October 1982 to September 1983*--Continued

WATER-QUALITY CONSTITUENTS

DATE	BARIUM, DIS-SOLVED (µG/L AS BA)	BORON, DIS-SOLVED (µG/L AS B)	CADMIUM DIS-SOLVED (µG/L AS CD)	COPPER, DIS-SOLVED (µG/L AS CU)	IRON, DIS-SOLVED (µG/L AS FE)	LEAD, DIS-SOLVED (µG/L AS PB)	LITHIUM DIS-SOLVED (µG/L AS LI)	MANGA-NESE, DIS-SOLVED (µG/L AS MN)	MERCURY DIS-SOLVED (µG/L AS HG)	SELE-NIUM, DIS-SOLVED (µG/L AS SE)	STRON-TIUM, DIS-SOLVED (µG/L AS SR)	ZINC, DIS-SOLVED (µG/L AS ZN)
OCT												
08...	79	40	<1	3	8	<1	17	4	<.1	<1	860	11
NOV												
29...	80	40	<1	4	4	<1	15	3	<.1	1	850	4
JAN												
06...	81	40	<1	4	<3	<1	13	4	<.1	1	880	6
FEB												
16...	80	40	<1	1	5	<1	13	6	<.1	1	890	<3
MAR												
23...	77	40	<1	3	<3	<1	15	4	<.1	1	880	8
APR												
11...	75	40	<1	2	3	3	14	2	<.1	1	850	9
MAY												
05...	78	20	<1	5	8	<1	120	3	<.1	2	740	<3

Table 14.--*Water-quality data for station 09092850, East Middle Fork Parachute Creek near Rio Blanco (site 2), water year October 1981 to September 1982*

WATER-QUALITY RECORDS

[PERIOD OF RECORD.--October 1976 to current year.
PERIOD OF DAILY RECORD:
SPECIFIC CONDUCTANCE.--October 1976 to current year.
WATER TEMPERATURE.--October 1976 to current year.
INSTRUMENTATION.--Water-quality monitor since October 1976. Pumping sediment sampler since October 1977.
EXTREMES FOR PERIOD OF DAILY RECORD:
SPECIFIC CONDUCTANCE.--Maximum, 615 µS/cm Dec. 1976; minimum, 262 µS/cm Mar. 23, 1977.
WATER TEMPERATURES.--Maximum, 24.5°C July 18, Aug. 9, 14, 1977; minimum, freezing point most days during winter months.
SEDIMENT CONCENTRATIONS.--Maximum daily, 5,360 mg/L May 16, 1979; minimum daily, 0.0 mg/L several days during winter months in the 1981 water year.
SEDIMENT LOADS.--Maximum daily, 1,980 tons May 16, 1979; minimum daily, less than 0.005 ton several days during 1979 water year.
EXTREMES FOR CURRENT YEAR:
SPECIFIC CONDUCTANCE.--Maximum, not determined; minimum, not determined.
WATER TEMPERATURES.--Maximum daily, not determined; minimum, freezing point on many days during November to April.
SEDIMENT CONCENTRATIONS.--Maximum daily, not determined; minimum daily, not determined.
SEDIMENT LOADS.--Maximum daily, not determined; minimum daily, not determined.]

WATER-QUALITY CONSTITUENTS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (µS/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (µS/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (°C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS $CACO_3$)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
OCT												
06...	1100	.73	535	553	8.1	8.0	9.0	210	50	20	39	1
NOV												
17...	1055	.30	560	560	8.2	4.0	10.8	220	55	20	36	1
DEC												
08...	0945	.37	540	523	8.1	.5	10.4	220	51	22	38	1
JAN												
14-14	1220	.27	560	555	8.0	.5	10.8	220	55	21	37	1
FEB												
23...	1235	.70	534	535	8.0	2.0	--	220	53	21	35	1
MAR												
24...	1200	2.4	515	500	8.1	2.5	--	210	50	20	31	1
MAY												
05...	1100	72	380	370	8.2	5.0	9.1	160	42	14	22	.8
18...	1110	33	--	--	--	--	--	--	--	--	--	--
19...	1120	43	--	--	--	7.5	--	--	--	--	--	--
JUN												
02...	1240	17	--	--	--	12.5	--	--	--	--	--	--
02...	1245	17	435	436	8.8	12.0	8.5	180	45	16	27	.9
JUL												
12...	1230	3.6	480	497	8.5	16.0	7.6	210	51	20	34	1
12...	1235	3.6	--	--	--	18.0	--	--	--	--	--	--
29...	1200	2.2	--	--	--	--	--	--	--	--	--	--
SEP												
16...	1230	1.1	522	518	8.6	16.0	--	220	52	21	36	1

Table 14.--*Water-quality data for station 09092850, East Middle Fork Parachute Creek near Rio Blanco (site 2), water year October 1981 to September 1982*--Continued

WATER-QUALITY CONSTITUENTS

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	SULFATE DISSOLVED (MG/L AS SO_4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SiO_2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO_2+NO_3 DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ARSENIC DISSOLVED (µG/L AS AS)	BARIUM, DISSOLVED (µG/L AS BA)
OCT												
06...	1.0	41	2.1	.30	16	330	.44	.64	.17	.060	6	90
NOV												
17...	.70	52	2.4	.30	15	330	.45	.27	<.09	.040	7	81
DEC												
08...	.70	46	2.4	.20	14	330	.45	.33	<.10	.060	5	84
JAN												
14-14	.70	42	2.3	.30	13	330	.45	.24	.10	.040	5	85
FEB												
23...	.70	44	2.3	.20	13	330	.44	.62	.22	.030	4	82
MAR												
24...	.50	33	1.8	.20	14	280	.38	1.8	.34	.040	4	73
MAY												
05...	.70	6.0	1.4	.20	16	220	.29	42	1.0	.060	4	62
18...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	.80	21	2.0	.30	15	250	.34	12	<.10	.030	4	65
JUL												
12...	.80	29	1.8	.20	16	300	.41	2.9	<.10	.040	5	88
12...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
16...	.80	36	2.0	.20	16	300	.40	.88	<.10	.040	4	96

DATE	BORON, DISSOLVED (µG/L AS B)	CADMIUM DISSOLVED (µG/L AS CD)	COPPER, DISSOLVED (µG/L AS CU)	IRON, DISSOLVED (µG/L AS FE)	LEAD, DISSOLVED (µG/L AS PB)	LITHIUM DISSOLVED (µG/L AS LI)	MANGANESE, DISSOLVED (µG/L AS MN)	MERCURY DISSOLVED (µG/L AS HG)	SELENIUM, DISSOLVED (µG/L AS SE)	STRONTIUM, DISSOLVED (µG/L AS SR)	ZINC, DISSOLVED (µG/L AS ZN)
OCT											
06...	60	<1	3	<10	1	48	25	.0	0	830	10
NOV											
17...	40	<1	5	<10	1	10	8	<.1	<1	810	<3
DEC											
08...	50	<1	2	24	<1	13	260	<.1	<1	820	5
JAN											
14-14	40	<1	3	13	2	13	5	.1	<1	800	6
FEB											
23...	40	<1	6	<10	3	9	5	<.1	<1	800	20
MAR											
24...	50	<1	3	<3	1	8	1	<.1	<1	820	<4
MAY											
05...	30	<3	3	10	<1	<12	7	.2	<1	550	<12
18...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
JUN											
02...	--	--	--	--	--	--	--	--	--	--	--
02...	30	<3	4	11	<1	16	4	<.1	<1	620	<12
JUL											
12...	50	<1	15	<3	<1	10	4	<.1	<1	820	9
12...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
SEP											
16...	--	<1	4	7	3	10	5	<.1	<1	870	38

Table 15.--*Water-quality data for station 09092850, East Middle Fork Parachute Creek near Rio Blanco (site 2), water year October 1982 to September 1983*

WATER-QUALITY RECORDS

[PERIOD OF RECORD.--October 1976 to September 1983 (discontinued).
PERIOD OF DAILY RECORD:
SPECIFIC CONDUCTANCE.--October 1976 to September 1982 (discontinued).
WATER TEMPERATURE.--October 1976 to September 1982 (discontinued).
SUSPENDED-SEDIMENT DISCHARGE.--October 1976 to September 1982 (discontinued).
INSTRUMENTATION.--Water-quality monitor, October 1976 to September 1982. Pumping sediment sampler October 1977 to September 1982.
EXTREMES FOR PERIOD OF DAILY RECORD:
SPECIFIC CONDUCTANCE.--Maximum, 615 µS/cm Dec. 18, 1976; minimum, 262 µS/cm Mar. 23, 1977.
WATER TEMPERATURE.--Maximum, 24.5°C July 18, Aug. 9, 14, 1977; minimum, freezing point most days during winter months.
SEDIMENT CONCENTRATIONS.--Maximum daily, 5,360 mg/L May 16, 1979; minimum daily, 0.0 mg/L several days during winter months in the 1981 water year.
SEDIMENT LOADS.--Maximum daily, 1,980 tons May 16, 1979; minimum daily, less than 0.005 ton several days during 1979 water year.]

WATER-QUALITY CONSTITUENTS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (µS/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (°C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS $CACO_3$)	HARD-NESS, NONCAR-BONATE (MG/L $CACO_3$)	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												
08...	1300	1.4	497	8.4	4.0	10.6	220	0	54	20	34	1
NOV												
29...	1110	1.3	522	8.2	.5	9.8	220	0	52	21	34	1
JAN												
06...	1110	.83	530	8.4	.5	11.6	220	0	53	22	34	1
FEB												
16...	1200	.66	524	8.4	.0	10.8	220	0	52	22	35	1
MAR												
23...	1120	2.3	519	8.5	3.0	10.8	220	0	51	22	36	1
APR												
11...	1045	3.2	510	8.6	4.0	11.0	210	0	51	21	33	1
MAY												
05...	1020	49	478	8.5	4.0	--	200	0	50	19	31	1
JUN												
02...	1020	180	381	8.4	--	9.3	170	0	46	14	24	.8
JUL												
29...	1200	5.4	457	8.5	19.0	6.7	200	0	50	19	33	1

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO_4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO_2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO_4)	ARSENIC DIS-SOLVED (µG/L AS AS)
OCT												
08...	.80	29	1.8	.30	14	310	.42	1.2	<.10	.020	.06	4
NOV												
29...	.60	38	1.8	.20	13	320	.43	1.1	<.10	<.010	--	4
JAN												
06...	.70	34	2.0	.20	13	320	.43	.71	.30	.050	.15	4
FEB												
16...	.70	38	2.0	.20	13	320	.44	.58	.19	.050	.15	4
MAR												
23...	.70	41	1.9	.20	13	320	.43	2.0	.28	.020	.06	4
APR												
11...	.60	42	1.9	.20	13	300	.41	2.6	.20	.040	.12	4
MAY												
05...	.70	42	2.5	.10	16	300	.40	39	1.1	.040	.12	4
JUN												
02...	.60	19	1.8	.10	18	240	.32	115	1.1	.060	.18	4
JUL												
29...	.80	36	2.3	.20	17	300	.41	4.4	.19	.040	.12	5

Table 15.--*Water-quality data for station 09092850, East Middle Fork Parachute Creek near Rio Blanco (site 2), water year October 1982 to September 1983*--Continued

DATE	BARIUM, DIS-SOLVED (µG/L AS BA)	BORON, DIS-SOLVED (µG/L AS B)	CADMIUM DIS-SOLVED (µG/L AS CD)	COPPER, DIS-SOLVED (µG/L AS CU)	IRON, DIS-SOLVED (µG/L AS FE)	LEAD, DIS-SOLVED (µG/L AS PB)	LITHIUM DIS-SOLVED (µG/L AS LI)	MANGA-NESE, DIS-SOLVED (µG/L AS MN)	MERCURY DIS-SOLVED (µG/L AS HG)	SELE-NIUM, DIS-SOLVED (µG/L AS SE)	STRON-TIUM, DIS-SOLVED (µG/L AS SR)	ZINC, DIS-SOLVED (µG/L AS ZN)
WATER-QUALITY CONSTITUENTS												
OCT												
08...	84	50	<1	2	9	<1	19	5	<.1	<1	810	52
NOV												
29...	81	40	<1	3	<3	<1	16	3	<.1	1	790	11
JAN												
06...	86	40	<1	4	<3	<1	11	2	<.1	1	810	4
FEB												
16...	80	40	<1	1	7	<1	13	3	<.1	1	800	4
MAR												
23...	78	40	<1	4	<3	<1	15	2	<.1	1	810	3
APR												
11...	73	40	<1	3	<3	4	15	2	<.1	1	790	4
MAY												
05...	77	30	<1	3	6	<1	40	4	<.1	2	680	<3
JUN												
02...	200	20	<1	2	50	<1	10	20	<.1	1	520	10
JUL												
29...	83	40	<1	6	<3	<1	13	1	<.1	1	770	5

Table 16.--*Water-temperature data for station 09092850, East Middle Fork Parachute Creek near Rio Blanco (site 2), water year October 1981 to September 1982*

WATER TEMPERATURE, IN DEGREES CELSIUS

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

Table 16.--*Water-temperature data for station 09092850, East Middle Fork Parachute Creek near Rio Blanco (site 2), water year October 1981 to September 1982*--Continued

WATER TEMPERATURE, IN DEGREES CELSIUS

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

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

Table 17.--*Specific-conductance data for station 09092850, East Middle Creek Fork Parachute Creek near Rio Blanco (site 2), water year October 1981 to September 1982*

SPECIFIC CONDUCTANCE (µS/cm)
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	536	551	543	549	550	529	512	402	433	---		
2	533	553	543	552	551	523	511	397	432	---		
3	522	554	543	553	550	525	514	375	431	---		
4	521	554	543	555	552	526	509	377	430	---		
5	520	553	542	551	555	527	511	376	431	---		
6	535	554	542	551	554	529	510	369	431	---		
7	538	552	542	559	552	528	509	377	433	---		
8	530	553	541	558	549	527	514	383	433	---		
9	533	555	542	557	548	524	513	382	434	---		
10	539	558	541	558	547	525	512	382	---	---		
11	534	559	541	558	546	522	504	370	---	---		
12	526	559	541	558	547	501	486	---	---	490		
13	532	558	541	558	547	508	476	---	---	495		
14	537	559	542	560	545	509	470	---	---	493		
15	529	560	542	560	544	506	468	---	440	498		
16	515	560	543	559	544	510	474	---	447	498		
17	535	561	544	559	544	509	475	---	450	501		
18	541	556	547	559	546	510	473	---	457	500		
19	544	556	545	558	545	507	458	355	463	500		
20	546	558	547	557	543	509	441	372	465	501		
21	547	556	545	555	541	508	458	383	---	499		
22	548	554	545	554	537	507	483	380	---	499		
23	550	553	553	555	534	511	471	376	---	494		
24	546	551	552	554	534	511	473	381	---	502		
25	545	547	549	554	534	520	477	389	---	504		
26	548	550	550	553	533	517	471	369	---	500		
27	547	548	547	553	532	514	465	373	---	458		
28	548	546	552	556	530	507	462	386	---	---		
29	541	544	551	551	---	507	437	391	---	---		
30	535	541	550	554	---	516	411	398	---	---		
31	544	---	550	551	---	513	---	413	---	---		
MEAN	537	554	545	555	544	516	482	382	441	496		

WTR YR 1982 MEAN 512 MAX 561 MIN 355

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

Table 18.--*Water-quality data for station 09092960, East Fork Parachute Creek near Anvil Points (site 3), water year October 1981 to September 1982*

WATER-QUALITY RECORDS

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

WATER-QUALITY CONSTITUENTS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE ($\mu S/cm$)	PH (STAND-ARD UNITS)	TEMPER-ATURE (°C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS $CACO_3$)	HARD-NESS, NONCAR-BONATE (MG/L $CACO_3$)	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
NOV												
04...	1400	1.1	473	8.2	3.5	9.4	250	0	61	23	21	.6
DEC												
16...	1300	.52	487	8.5	2.0	9.8	250	67	59	24	21	.6
JAN												
26...	1300	.59	483	8.2	1.5	9.6	250	0	59	24	22	.6
MAR												
12...	1000	2.5	450	8.2	1.5	--	230	0	56	21	18	.5
APR												
29...	1400	26	440	8.2	7.5	8.5	190	0	49	17	17	.6
JUN												
21...	1200	6.6	460	8.4	8.5	8.4	220	0	55	20	37	1
JUL												
20...	1500	2.2	506	8.6	19.0	6.6	220	0	52	21	20	.6
AUG												
19...	1300	1.5	454	8.4	15.0	7.3	230	0	55	22	21	.6
SEP												
22...	1200	.79	436	8.6	9.5	8.4	240	0	61	22	22	.6

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO_4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO_2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO_4)	ARSENIC DIS-SOLVED ($\mu G/L$ AS AS)
NOV												
04...	.70	23	2.6	.10	14	300	.41	.99	<.09	.040	.12	5
DEC												
16...	.60	26	1.6	.20	13	250	.34	.36	.21	.030	.09	4
JAN												
26...	.60	18	1.6	.20	14	310	.42	.49	.33	.050	.15	4
MAR												
12...	.60	13	1.4	.20	13	270	.36	1.8	.35	.020	.06	4
APR												
29...	.70	15	2.2	.20	16	240	.32	17	.96	.040	.12	4
JUN												
21...	1.6	20	1.5	.20	17	290	.39	5.2	.27	.020	.06	4
JUL												
20...	.80	24	1.3	.20	17	280	.39	1.7	.17	.020	.06	4
AUG												
19...	.60	20	1.1	.20	18	280	.38	1.1	.10	.060	.18	5
SEP												
22...	.50	21	1.8	.20	16	300	.41	.65	<.10	.030	.09	4

Table 18.--*Water-quality data for station 09092960, East Fork Parachute Creek near Anvil Points (site 3), water year October 1981 to September 1982*--Continued

WATER-QUALITY CONSTITUENTS

DATE	BARIUM, DIS-SOLVED (µG/L AS BA)	BORON, DIS-SOLVED (µG/L AS B)	CADMIUM DIS-SOLVED (µG/L AS CD)	COPPER, DIS-SOLVED (µG/L AS CU)	IRON, DIS-SOLVED (µG/L AS FE)	LEAD, DIS-SOLVED (µG/L AS PB)	LITHIUM DIS-SOLVED (µG/L AS LI)	MANGA-NESE, DIS-SOLVED (µG/L AS MN)	MERCURY DIS-SOLVED (µG/L AS HG)	SELE-NIUM, DIS-SOLVED (µG/L AS SE)	STRON-TIUM, DIS-SOLVED (µG/L AS SR)	ZINC, DIS-SOLVED (µG/L AS ZN)
NOV												
04...	78	30	9	1	<10	2	10	2	.0	<1	660	5
DEC												
16...	81	40	<1	<1	<10	<1	11	2	<.1	<1	650	<3
JAN												
26...	78	40	<1	2	<10	3	8	<1	<.1	<1	670	4
MAR												
12...	70	30	<1	2	<10	2	7	2	<.1	1	600	4
APR												
29...	71	30	<3	1	45	<1	<12	8	<.1	1	520	35
JUN												
21...	70	30	4	6	4	<1	15	5	<.1	1	610	41
JUL												
20...	82	40	1	2	<3	<1	7	2	<.1	<1	630	<3
AUG												
19...	90	50	<1	3	<3	<1	14	1	<.1	1	650	4
SEP												
22...	82	40	<1	6	3	<1	9	1	<.1	<1	660	3

Table 19.--*Water-quality data for station 09092960, East Fork Parachute Creek near Anvil Points (site 3), water year October 1982 to September 1983*

WATER-QUALITY RECORDS

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

WATER-QUALITY CONSTITUENTS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (µS/cm)	PH (STAND-ARD UNITS)	TEMPER-ATURE (°C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS $CACO_3$)	HARD-NESS, NONCAR-BONATE (MG/L $CACO_3$)	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												
14...	1400	.96	462	8.6	3.5	10.0	240	0	59	22	21	.6
NOV												
29...	1000	.97	556	8.4	1.5	--	240	0	57	23	21	.6
FEB												
16...	1300	.59	487	8.5	2.0	--	250	0	59	24	22	.6
MAY												
05...	1100	18	460	8.2	7.0	--	230	0	56	21	15	.4
JUN												
02...	1100	231	390	8.3	6.0	--	190	0	48	16	14	.5
JUL												
05...	1400	12	458	8.7	14.5	8.3	220	0	56	20	19	.6
AUG												
09...	1300	4.1	460	8.7	18.0	7.6	230	0	55	22	20	.6
SEP												
07...	1300	2.1	445	8.6	13.0	8.8	220	0	52	21	20	.6

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO_4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO_2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO_4)	ARSENIC DIS-SOLVED (µG/L AS AS)
OCT												
14...	.60	25	1.4	.20	14	300	.41	.79	<.10	<.010	--	3
NOV												
29...	.60	26	1.5	.20	13	300	.41	.80	.37	.020	.06	3
FEB												
16...	.60	23	3.3	.20	14	310	.42	.49	.50	.040	.12	4
MAY												
05...	.60	19	1.1	.20	15	270	.37	13	.71	.020	.06	3
JUN												
02...	.60	12	1.3	.10	18	230	.31	143	1.1	.030	.09	4
JUL												
05...	.50	18	1.3	.20	17	280	.39	9.2	1.6	.040	.12	4
AUG												
09...	.60	19	1.3	.20	17	290	.40	3.2	.39	.040	.12	4
SEP												
07...	.60	20	1.3	.20	15	280	.38	1.6	.15	.030	.09	5

Table 19.--*Water-quality data for station 09092960, East Fork Parachute Creek near Anvil Points (site 3), water year October 1982 to September 1983*--Continued

DATE	BARIUM, DIS-SOLVED (µG/L AS BA)	BORON, DIS-SOLVED (µG/L AS B)	CADMIUM DIS-SOLVED (µG/L AS CD)	COPPER, DIS-SOLVED (µG/L AS CU)	IRON, DIS-SOLVED (µG/L AS FE)	LEAD, DIS-SOLVED (µG/L AS PB)	LITHIUM DIS-SOLVED (µG/L AS LI)	MANGA-NESE, DIS-SOLVED (µG/L AS MN)	MERCURY DIS-SOLVED (µG/L AS HG)	SELE-NIUM, DIS-SOLVED (µG/L AS SE)	STRON-TIUM, DIS-SOLVED (µG/L AS SR)	ZINC, DIS-SOLVED (µG/L AS ZN)
WATER-QUALITY CONSTITUENTS												
OCT 14...	74	40	<1	4	<3	<1	12	<1	<.1	1	640	<3
NOV 29...	68	40	2	3	<3	2	17	2	<.1	1	640	12
FEB 16...	74	40	<1	4	<3	<1	13	2	<.1	1	650	11
MAY 05...	74	30	<1	3	36	<1	18	2	<.1	1	580	6
JUN 02...	100	20	1	3	18	2	12	3	--	1	440	15
JUL 05...	75	30	<1	1	<3	1	12	2	.1	1	580	6
AUG 09...	82	40	<1	2	<3	<1	13	1	.2	1	630	4
SEP 07...	72	40	<1	2	<3	2	12	2	<.1	<1	590	10

Table 20.--*Water-quality data for station 09092970, East Fork Parachute Creek near Rulison (site 4), water year October 1981 to September 1982*

WATER-QUALITY RECORDS

[PERIOD OF RECORD.--October 1976 to current year.
PERIOD OF DAILY RECORD:
SPECIFIC CONDUCTANCE.--October 1976 to current year.
WATER TEMPERATURE.--October 1976 to current year.
SUSPENDED-SEDIMENT DISCHARGE.--December 1976 to current year.
INSTRUMENTATION.--Water-quality monitor since October 1976. Pumping sediment sampler since December 1976.
REMARKS.--Daily maximum and minimum specific-conductance data available in District office.
EXTREMES FOR PERIOD OF DAILY RECORD:
SPECIFIC CONDUCTANCE.--Maximum, 627 µS/cm Mar. 26, 1982; minimum, 97 µS/cm Dec. 18, 1981.
WATER TEMPERATURES.--Maximum, 20.5°C June 26, 1981; minimum, 0.0°C several days during year.
SEDIMENT CONCENTRATIONS.--Maximum daily, 1,680 mg/L May 17, 1978; minimum daily, 1 mg/L July 29, 1981.
SEDIMENT LOADS.--Maximum daily, 485 tons May 17, 1978; minimum daily, 0.00 ton on many days during 1982 water year.
EXTREMES FOR CURRENT YEAR:
SPECIFIC CONDUCTANCE.--Maximum, 627 µS/cm Mar. 26; minimum, 316 µS/cm Oct. 31.
WATER TEMPERATURES.--Maximum, 19.0°C July 10, 22, 24; minimum 0.0°C many days during October to April.
SEDIMENT CONCENTRATIONS.--Maximum daily, 222 mg/L Apr. 30; minimum daily, 1 mg/L Sept. 16.
SEDIMENT LOADS.--Maximum daily, 200 tons May 5; minimum daily, 0.00 ton on many days during July and Aug.]

WATER-QUALITY CONSTITUENTS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (µS/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (µS/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (°C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS $CACO_3$)	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
NOV												
05...	1300	.42	523	506	8.6	.5	6.5	250	60	24	23	.7
MAR												
24...	1300	.50	512	--	8.5	.0	--	240	56	24	23	.7
APR												
12...	1300	8.9	--	--	--	1.5	--	--	--	--	--	--
12...	1400	8.9	381	403	8.8	1.5	10.3	200	47	19	20	.6
28...	1400	24	400	384	8.4	2.5	10.2	200	50	17	19	.6
30...	1300	44	--	--	--	--	--	--	--	--	--	--
MAY												
21...	1300	50	--	--	--	9.0	--	--	--	--	--	--
21...	1500	50	405	385	8.2	9.0	--	200	52	17	19	.6
27...	1100	32	--	--	--	8.0	--	--	--	--	--	--
27...	1330	32	415	439	8.6	11.0	8.1	200	50	18	18	.6
JUN												
11...	1400	10	435	465	8.5	12.0	9.0	220	53	20	21	.6
11...	1430	10	--	--	--	12.0	--	--	--	--	--	--
JUL												
01...	1200	4.3	--	--	--	12.0	--	--	--	--	--	--
01...	1400	4.3	450	469	8.6	15.0	7.6	220	54	21	22	.7
13...	1500	2.7	416	437	8.8	15.0	7.6	200	48	20	22	.7
AUG												
06...	1300	1.1	--	--	--	14.0	--	--	--	--	--	--
06...	1400	1.1	436	452	8.7	14.0	8.5	200	45	22	24	.8
18...	1300	1.1	--	--	--	15.5	--	--	--	--	--	--
30...	1200	.60	--	--	--	12.0	--	--	--	--	--	--
31...	1300	.60	--	--	--	12.5	--	--	--	--	--	--
SEP												
02...	1200	.55	485	483	8.8	7.5	8.3	220	50	22	24	.7
24...	1000	.57	--	--	--	4.5	--	--	--	--	--	--
24...	1100	.57	474	482	8.7	5.0	9.5	230	52	23	25	.7

Table 20.--*Water-quality data for station 09092970, East Fork Parachute Creek near Rulison (site 4), water year October 1981 to September 1982*--Continued

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	SULFATE DISSOLVED (MG/L AS SO_4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SiO_2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO_2+NO_3 DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ARSENIC DISSOLVED (µG/L AS AS)	BARIUM, DISSOLVED (µG/L AS BA)
NOV												
05...	.70	30	1.8	.20	14	300	.40	.34	<.09	.030	4	79
MAR												
24...	.70	31	1.7	.20	14	290	.39	.39	.37	.040	4	77
APR												
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	.80	9.0	10	.20	12	240	.33	5.9	.31	.030	3	60
28...	.70	5.0	1.5	.20	15	240	.32	15	1.1	.030	5	67
30...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	.70	14	1.3	.20	17	240	.33	32	.75	.040	4	65
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	.60	6.0	1.5	.20	16	240	.33	21	.71	.030	4	65
JUN												
11...	.50	21	1.4	.20	16	270	.37	7.7	.45	.010	4	78
11...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	.80	21	1.5	.20	16	270	.37	3.2	.18	.010	5	82
13...	.70	21	1.1	.20	15	260	.35	1.9	<.10	.030	5	72
AUG												
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	.70	24	1.1	.20	18	260	.35	.77	<.10	.030	5	81
18...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
02...	.60	24	1.3	.30	18	280	.38	.41	<.10	.030	5	80
24...	--	--	--	--	--	--	--	--	--	--	--	--
24...	.60	25	1.3	.20	17	280	.38	.43	<.10	.020	5	83

Table 20.--*Water-quality data for station 09092970, East Fork Parachute Creek near Rulison (site 4), water year October 1981 to September 1982*--Continued

DATE	BORON, DIS-SOLVED (µG/L AS B)	CADMIUM DIS-SOLVED (µG/L AS CD)	COPPER, DIS-SOLVED (µG/L AS CU)	IRON, DIS-SOLVED (µG/L AS FE)	LEAD, DIS-SOLVED (µG/L AS PB)	LITHIUM DIS-SOLVED (µG/L AS LI)	MANGA-NESE, DIS-SOLVED (µG/L AS MN)	MERCURY DIS-SOLVED (µG/L AS HG)	SELE-NIUM, DIS-SOLVED (µG/L AS SE)	STRON-TIUM, DIS-SOLVED (µG/L AS SR)	ZINC, DIS-SOLVED (µG/L AS ZN)
NOV											
05...	50	<1	1	<10	3	12	2	<.1	<1	710	5
MAR											
24...	50	<1	1	<3	<1	6	<1	<.1	1	690	<4
APR											
12...	--	--	--	--	--	--	--	--	--	--	--
12...	50	<3	3	<10	<1	17	3	<.1	1	550	<12
28...	30	<3	2	12	<1	<12	3	<.1	1	550	<12
30...	--	--	--	--	--	--	--	--	--	--	--
MAY											
21...	--	--	--	--	--	--	--	--	--	--	--
21...	30	<3	3	20	8	13	<3	<.1	1	540	<12
27...	--	--	--	--	--	--	--	--	--	--	--
27...	30	<3	2	<9	1	<12	<3	<.1	1	540	<12
JUN											
11...	20	2	4	<3	<1	12	4	<.1	1	610	<3
11...	--	--	--	--	--	--	--	--	--	--	--
JUL											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	40	1	4	7	2	6	2	<.1	1	660	12
13...	50	3	4	<3	1	10	3	<.1	<1	600	10
AUG											
06...	--	--	--	--	--	--	--	--	--	--	--
06...	60	<1	5	<3	<1	12	2	<.1	<1	660	8
18...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
SEP											
02...	60	<1	2	<3	<1	12	<1	<.1	<1	690	4
24...	--	--	--	--	--	--	--	--	--	--	--
24...	50	<1	2	<3	3	10	<1	<.1	<1	700	<3

Table 21.--*Water-quality data for station 09092970, East Fork Parachute Creek near Rulison (site 4), water year October 1982 to September 1983*

WATER-QUALITY RECORDS

[PERIOD OF RECORD.--October 1976 to September 1983 (discontinued).
PERIOD OF DAILY RECORD:
SPECIFIC CONDUCTANCE.--October 1976 to September 1983 (discontinued).
WATER TEMPERATURE.--October 1976 to September 1983 (discontinued).
SUSPENDED-SEDIMENT DISCHARGE.--December 1976 to September 1983 (discontinued).
INSTRUMENTATION.--Water-quality monitor since October 1976. Pumping sediment sampler since December 1976.
REMARKS.--Daily maximum and minimum specific-conductance data available in District office.
EXTREMES FOR PERIOD OF DAILY RECORD:
SPECIFIC CONDUCTANCE.--Maximum, 627 µS/cm Mar. 26, 1982; minimum, 97 µS/cm Dec. 18, 1981.
WATER TEMPERATURES.--Maximum, 21.5°C Aug. 4, 1983; minimum, 0.0°C several days during year.
SEDIMENT CONCENTRATIONS.--Maximum daily, 1,680 mg/L May 17, 1978; minimum daily, 1 mg/L July 29, 1981, Sept. 13, 1983.
SEDIMENT LOADS.--Maximum daily, 485 tons May 17, 1978; minimum daily, 0.00 ton on many days during 1982 and 1983 water years.
EXTREMES FOR CURRENT YEAR:
SPECIFIC CONDUCTANCE.--Maximum, 586 µS/cm Nov. 3; minimum recorded, 212 µS/cm Aug. 12.
WATER TEMPERATURES.--Maximum, 21.5°C Aug. 4; minimum 0.0°C many days during October to April.
SEDIMENT CONCENTRATIONS.--Maximum recorded, 103 mg/L Aug. 13; minimum daily, 1 mg/L Sept. 13.
SEDIMENT LOADS.--Maximum recorded, 2.22 tons Aug. 13; minimum daily, 0.00 ton on many days during July and August.]

WATER-QUALITY CONSTITUENTS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (µS/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (µS/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (°C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS $CACO_3$)	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												
07...	1000	.78	--	--	--	1.5	--	--	--	--	--	--
07...	1100	.78	488	491	--	1.5	9.6	230	53	23	23	.7
NOV												
04...	1200	.19	556	557	8.5	.5	10.2	260	59	26	25	.7
DEC												
14...	1300	.77	541	523	8.0	.0	10.4	250	59	25	24	.7
JAN												
13...	1200	.18	555	521	8.5	.5	--	250	58	25	25	.7
MAR												
02...	1200	.49	490	504	8.5	1.0	--	230	54	23	23	.7
APR												
26...	1400	31	--	--	--	4.5	--	--	--	--	--	--
26...	1430	31	540	470	8.4	4.5	11.0	220	53	21	20	.6
MAY												
28...	1230	446	388	389	8.6	9.0	10.4	170	44	15	21	.7
JUN												
07...	1400	103	--	--	--	10.0	--	--	--	--	--	--
20...	1100	31	432	482	8.5	9.5	9.8	210	51	20	24	.7
JUL												
12...	1430	6.9	443	456	8.8	16.5	8.4	210	50	20	21	.7
AUG												
04...	1300	4.6	--	--	--	15.5	--	--	--	--	--	--
05...	1300	4.3	455	455	8.8	15.5	8.5	210	50	21	22	.7
SEP												
09...	1200	1.1	410	432	8.7	11.0	9.6	200	46	21	23	.7

Table 21.--*Water-quality data for station 09092970, East Fork Parachute Creek near Rulison (site 4), water year October 1982 to September 1983*--Continued

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	SULFATE DISSOLVED (MG/L AS SO_4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SiO_2)	SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO_2+NO_3 DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ARSENIC DISSOLVED (µG/L AS AS)	BARIUM, DISSOLVED (µG/L AS BA)
WATER-QUALITY CONSTITUENTS												
OCT												
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	.70	25	1.5	.20	15	290	.40	.62	<.10	<.010	4	76
NOV												
04...	.70	29	1.8	.20	15	320	.44	.17	<.10	.010	4	81
DEC												
14...	.60	28	1.8	.30	14	320	.43	.66	.27	<.010	4	80
JAN												
13...	.70	27	1.7	.20	15	320	.43	.16	.43	.020	4	78
MAR												
02...	.60	26	1.5	.20	14	300	.40	.39	.48	.030	4	76
APR												
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	.80	27	1.8	.20	15	280	.38	23	1.1	.060	3	75
MAY												
28...	1.2	20	2.0	<.10	19	230	.32	281	1.2	.050	4	100
JUN												
07...	--	--	--	--	--	--	--	--	--	--	--	--
20...	.70	32	1.9	.20	18	290	.39	24	1.0	<.010	6	100
JUL												
12...	.60	22	1.6	.20	16	270	.37	5.1	.38	.040	5	73
AUG												
04...	--	--	--	--	--	--	--	--	--	--	--	--
05...	.80	22	1.6	.20	16	280	.38	3.3	.40	.030	5	77
SEP												
09...	.80	23	1.6	.20	14	260	.36	.80	<.10	.030	4	72

Table 21.--*Water-quality data for station 09092970, East Fork Parachute Creek near Rulison (site 4), water year October 1982 to September 1983*--Continued

DATE	BORON, DIS-SOLVED (µG/L AS B)	CADMIUM DIS-SOLVED (µG/L AS CD)	COPPER, DIS-SOLVED (µG/L AS CU)	IRON, DIS-SOLVED (µG/L AS FE)	LEAD, DIS-SOLVED (µG/L AS PB)	LITHIUM DIS-SOLVED (µG/L AS LI)	MANGA-NESE, DIS-SOLVED (µG/L AS MN)	MERCURY DIS-SOLVED (µG/L AS HG)	SELE-NIUM, DIS-SOLVED (µG/L AS SE)	STRON-TIUM, DIS-SOLVED (µG/L AS SR)	ZINC, DIS-SOLVED (µG/L AS ZN)
WATER-QUALITY CONSTITUENTS											
OCT											
07...	--	--	--	--	--	--	--	--	--	--	--
07...	50	<1	2	<3	6	17	1	<.1	<1	670	7
NOV											
04...	50	<1	2	<3	<1	10	<1	<.1	1	750	12
DEC											
14...	50	<1	1	<3	2	13	<1	<.1	1	730	4
JAN											
13...	50	<1	1	<3	<1	15	1	<.1	1	700	4
MAR											
02...	70	<1	3	6	<1	12	5	<.1	1	650	4
APR											
26...	--	--	--	--	--	--	--	--	--	--	--
26...	30	<1	6	43	<1	11	5	<.1	2	640	91
MAY											
28...	30	<1	3	60	2	9	3	<.1	1	550	13
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
20...	40	<1	2	<3	<1	9	2	<.1	2	690	4
JUL											
12...	30	<1	3	<3	7	9	<1	<.1	1	620	<3
AUG											
04...	--	--	--	--	--	--	--	--	--	--	--
05...	40	<1	2	8	<1	22	4	.7	1	630	8
SEP											
09...	50	<1	1	4	1	15	2	<.1	1	590	7

Table 22.--*Water-temperature data for station 09092970, East Fork Parachute Creek near Rulison (site 4), water year October 1981 to September 1982*

WATER TEMPERATURE, IN DEGREES CELSIUS

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

Table 22.--*Water-temperature data for station 09092970, East Fork Parachute Creek near Rulison (site 4), water year October 1981 to September 1982*--Continued

WATER TEMPERATURE, IN DEGREES CELSIUS

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

Table 23.--*Water-temperature data for station 09092970, East Fork Parachute Creek near Rulison (site 4), water year October 1982 to September 1983*

WATER TEMPERATURE, IN DEGREES CELSIUS

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

Table 23.--*Water-temperature data for station 09092970, East Fork Parachute Creek near Rulison (site 4), water year October 1982 to September 1983*--Continued

TEMPERATURE, IN DEGREES CELSIUS

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

Table 24.--*Specific-conductance data for station 09092970, East Fork Parachute Creek near Rulison (site 4), water year October 1981 to September 1982*

SPECIFIC CONDUCTANCE (µS/cm)
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	370	488			---	576	386	438	442	441	437
2	---	404	504			---	574	387	440	450	436	440
3	---	420	505			---	563	387	441	447	435	440
4	---	447	499			---	546	387	442	442	439	434
5	456	471	485			---	546	395	443	448	441	436
6	---	474	490			---	534	389	447	436	439	442
7	---	453	450			---	534	374	442	432	440	444
8	---	470	---			---	534	368	443	428	438	439
9	---	461	---			---	518	367	442	423	439	443
10	---	472	---			---	507	366	442	420	440	442
11	---	476	---			---	468	375	442	435	440	446
12	445	478	---			---	426	378	442	432	439	450
13	447	450	---			---	429	380	441	430	440	435
14	---	438	---			---	432	390	439	432	435	451
15	426	462	---			---	420	398	440	435	440	456
16	450	458	---			---	419	404	438	436	442	456
17	459	469	---			---	421	403	436	438	439	453
18	462	472	---			---	409	406	436	432	437	452
19	462	501	---			---	423	405	442	432	439	453
20	461	---	---			---	441	391	441	439	437	454
21	461	462	---			---	455	399	442	430	436	457
22	464	450	---			---	447	412	442	437	438	458
23	460	448	---			---	433	413	444	437	438	458
24	458	457	---			500	426	415	443	434	437	461
25	472	455	---			492	420	419	444	440	439	465
26	471	---	---			522	414	422	444	435	439	458
27	455	---	---			616	406	425	442	437	436	458
28	448	---	---			602	405	427	443	441	437	457
29	446	496	---			598	399	430	441	438	438	467
30	430	490	---			603	395	430	440	439	436	459
31	386	---	---			587	---	433	---	440	437	---
MEAN	451	458	489			565	464	399	441	436	438	450

WTR YR 1982 MEAN 447 MAX 616 MIN 366

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

Table 25.--*Specific-conductance data for station 09092970, East Fork Parachute Creek near Rulison (site 4), water year October 1982 to September 1983*

SPECIFIC CONDUCTANCE (µS/cm)
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	469	512	505	516	497	488	531	471		---	428	415
2	482	527	512	518	497	488	543	478		---	427	415
3	484	548	519	514	505	500	537	480		---	433	421
4	485	544	521	507	512	498	544	478		---	426	418
5	491	538	520	500	499	494	549	476		---	446	423
6	488	539	522	498	504	499	551	473		---	451	424
7	489	530	515	497	497	506	548	478		---	453	423
8	481	505	517	504	496	505	541	469		---	455	421
9	490	486	517	510	493	508	531	446		---	451	424
10	504	492	498	516	491	504	535	432		---	448	432
11	514	498	507	518	495	491	536	423		---	445	436
12	499	516	523	514	502	482	537	436		---	430	438
13	487	507	529	512	497	489	545	451		432	372	438
14	499	523	516	508	493	493	554	453		429	411	435
15	490	526	521	499	496	510	559	457		427	424	436
16	494	533	506	503	496	516	532	451		425	426	438
17	499	536	510	498	496	513	549	456		425	425	438
18	502	518	521	493	499	514	538	466		422	422	437
19	515	491	523	494	494	522	549	463		419	416	438
20	515	518	519	494	495	531	554	463		419	409	450
21	517	512	513	497	500	537	547	458		409	416	452
22	506	511	497	490	499	529	559	431		425	418	453
23	510	538	490	497	498	522	544	420		432	414	447
24	508	542	502	494	499	525	522	409		436	409	438
25	504	516	513	492	496	535	---	362		434	408	441
26	497	530	522	493	496	528	---	340		429	410	440
27	483	533	515	492	496	534	466	243		428	412	440
28	513	531	514	486	494	535	464	---		429	413	447
29	539	515	527	493	---	529	467	---		425	412	446
30	503	509	526	491	---	515	460	---		422	409	438
31	490	---	523	492	---	517	---	---		427	412	---
MEAN	498	521	515	501	498	512	532	439		426	424	435
WTR YR 1983	MEAN	484	MAX	559	MIN	243						

Table 26.--*Water-quality data for station 09092980, Ben Good Creek near Rulison (site 5), water year October 1981 to September 1982*

WATER-QUALITY RECORDS
[PERIOD OF RECORD.--October 1976 to current year]

WATER-QUALITY CONSTITUENTS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (µS/cm)	PH (STAND-ARD UNITS)	TEMPER-ATURE (°C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS $CACO_3$)	HARD-NESS, NONCAR-BONATE (MG/L $CACO_3$)	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												
28...	1200	.08	600	8.6	4.5	9.2	200	0	51	17	48	2
MAY												
21...	1600	1.6	415	8.6	13.0	--	170	0	43	15	33	1
28...	1200	.93	440	8.7	8.0	9.2	180	0	43	17	35	1
JUN												
11...	1100	.40	540	8.5	8.0	9.2	230	0	52	24	43	1
30...	1400	.23	540	8.4	14.0	8.0	220	0	45	26	47	1
JUL												
13...	1200	.16	532	8.7	14.0	7.6	220	0	44	26	47	1
AUG												
05...	1100	.14	525	8.7	13.0	9.3	220	0	44	26	47	1
SEP												
01...	1200	.06	588	8.7	11.0	8.2	220	0	42	27	50	2
23...	1300	.06	582	9.3	2.5	7.7	210	0	41	26	50	2

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO_4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO_2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO_4)	ARSENIC DIS-SOLVED (µG/L AS AS)
APR												
28...	1.0	60	3.0	.60	18	340	.47	.07	.40	.010	.03	4
MAY												
21...	1.0	10	3.6	.30	20	250	.34	1.1	.66	.040	.12	4
28...	1.0	19	2.6	.30	18	270	.36	.68	.48	.030	.09	3
JUN												
11...	.80	50	2.8	.50	18	350	.48	.38	.40	<.010	--	2
30...	.90	50	2.7	.50	19	340	.46	.21	.25	.010	.03	3
JUL												
13...	.70	53	2.8	.50	19	340	.47	.15	.18	.010	.03	2
AUG												
05...	.80	55	2.8	.50	19	340	.46	.13	.16	.030	.09	2
SEP												
01...	.90	58	2.9	.50	20	340	.46	.06	.12	.030	.09	3
23...	.80	59	3.0	.50	20	340	.46	.05	.13	.010	.03	3

Table 26.--*Water-quality data for station 09092980, Ben Good Creek near Rulison (site 5), water year October 1981 to September 1982*--Continued

DATE	BARIUM, DIS-SOLVED (µG/L AS BA)	BORON, DIS-SOLVED (µG/L AS B)	CADMIUM DIS-SOLVED (µG/L AS CD)	COPPER, DIS-SOLVED (µG/L AS CU)	IRON, DIS-SOLVED (µG/L AS FE)	LEAD, DIS-SOLVED (µG/L AS PB)	LITHIUM DIS-SOLVED (µG/L AS LI)	MANGA-NESE, DIS-SOLVED (µG/L AS MN)	MERCURY DIS-SOLVED (µG/L AS HG)	SELE-NIUM, DIS-SOLVED (µG/L AS SE)	STRON-TIUM, DIS-SOLVED (µG/L AS SR)	ZINC, DIS-SOLVED (µG/L AS ZN)
APR												
28...	86	100	<3	1	<9	<1	23	<3	<.1	1	1400	18
MAY												
21...	76	40	<3	<1	25	8	17	<3	<.1	1	970	15
28...	76	50	<3	1	<9	4	18	5	<.1	1	1000	62
JUN												
11...	89	60	<1	3	12	2	22	2	<.1	1	1300	5
30...	86	80	2	2	6	2	17	4	<.1	1	1200	59
JUL												
13...	83	90	3	<1	<3	1	19	2	<.1	<1	1200	5
AUG												
05...	89	90	<1	3	<3	<1	28	1	<.1	<1	1300	5
SEP												
01...	87	100	<1	1	<3	<1	18	<1	<.1	1	1300	<3
23...	86	100	<1	<1	4	<1	21	<1	.9	<1	1300	14

Table 27.--*Water-quality data for station 09092980, Ben Good Creek near Rulison (site 5), water year October 1982 to September 1983*

WATER-QUALITY RECORDS

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

WATER-QUALITY CONSTITUENTS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SPE-CIFIC CON-DUCT-ANCE (µS/cm)	PH (STAND-ARD UNITS)	TEMPER-ATURE (°C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS $CACO_3$)	HARD-NESS, NONCAR-BONATE (MG/L $CACO_3$)	CALCIUM DIS-SOLVED (MG/L AS CA)	SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
OCT												
12...	1200	.06	517	8.7	2.0	10.2	240	0	50	27	50	1
NOV												
04...	1400	.06	590	8.6	.5	10.1	230	0	49	26	48	1
DEC												
14...	1550	.02	620	8.7	.0	10.0	240	0	50	27	51	1
APR												
26...	1445	3.5	540	8.5	4.5	11.2	210	0	50	20	39	1
MAY												
28...	1300	37	424	8.4	9.5	9.4	170	0	43	15	31	1
JUN												
20...	1300	2.96	648	8.6	10.0	9.6	250	2	55	28	45	1
JUL												
11...	1400	1.5	620	8.7	12.0	9.4	250	0	50	31	47	1
AUG												
05...	1400	1.1	595	8.7	16.0	8.6	240	0	46	29	46	1
SEP												
12...	1315	.35	440	8.6	13.0	9.3	230	0	44	29	48	1

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO_4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO_2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO_2+NO_3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO_4)	ARSENIC DIS-SOLVED (µG/L AS AS)
OCT												
12...	1.0	57	3.1	.60	19	380	.51	.06	<.100	<.100	--	2
NOV												
04...	1.1	55	2.9	.50	17	370	.50	.06	<.100	<.010	--	2
DEC												
14...	.70	59	2.9	.50	18	370	.51	.02	.130	<.010	--	2
APR												
26...	1.6	52	2.9	.20	17	330	.45	3.1	1.20	.080	.25	3
MAY												
28...	1.1	32	3.4	<.10	21	260	.36	26	1.30	1.30	4.0	3
JUN												
20...	1.1	65	3.4	.40	19	370	.50	2.9	.900	<.010	--	2
JUL												
11...	1.1	71	3.3	.50	18	390	.53	1.6	.870	.030	.09	2
AUG												
05...	1.0	66	3.4	.50	19	370	.51	1.1	.570	.010	.03	2
SEP												
12...	.80	68	3.3	.50	18	370	.50	.35	.310	.020	.06	<1

Table 27.--*Water-quality data for station 09092980, Ben Good Creek near Rulison (site 5), water year October 1982 to September 1983*--Continued

DATE	BARIUM, DIS-SOLVED (µG/L AS BA)	BORON, DIS-SOLVED (µG/L AS B)	CADMIUM DIS-SOLVED (µG/L AS CD)	COPPER, DIS-SOLVED (µG/L AS CU)	IRON, DIS-SOLVED (µG/L AS FE)	LEAD, DIS-SOLVED (µG/L AS PB)	LITHIUM DIS-SOLVED (µG/L AS LI)	MANGA-NESE, DIS-SOLVED (µG/L AS MN)	MERCURY DIS-SOLVED (µG/L AS HG)	SELE-NIUM, DIS-SOLVED (µG/L AS SE)	STRON-TIUM, DIS-SOLVED (µG/L AS SR)	ZINC, DIS-SOLVED (µG/L AS ZN)
WATER-QUALITY CONSTITUENTS												
OCT												
12...	83	100	<1	3	<3	<1	29	<1	<.1	1	1300	19
NOV												
04...	78	90	<1	4	<3	<1	19	1	<.1	1	1300	<3
DEC												
14...	82	90	<1	1	<3	<1	22	<1	<.1	1	1400	3
APR												
26...	97	30	<1	4	39	<1	16	3	<.1	2	1100	8
MAY												
28...	160	30	<1	2	90	3	11	4	<.1	1	830	7
JUN												
20...	96	60	<1	2	4	<1	18	2	<.1	2	1300	15
JUL												
11...	88	80	<1	2	7	10	20	<1	<.1	2	1300	13
AUG												
05...	83	90	<1	1	<3	<1	27	<1	<.1	1	1300	13
SEP												
12...	80	90	<1	1	6	<1	26	2	.1	1	1200	6

Table 28.--*Instantaneous streamflow measurements and suspended-sediment data for station 09092850, East Middle Fork Parachute Creek near Rio Blanco (site 2) for selected dates during 1982*

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAY									
05...	1100	72	654	127	JUL				
18...	1110	33	130	12	12...	1235	3.6	10	.10
19...	1120	43	273	32	19...	1200	2.2	23	.14
JUN									
02...	1240	17	17	.78					

Table 29.--*Discharge and suspended-sediment data for station 09092850, East Middle Fork Parachute Creek near Rio Blanco (site 2), water year October 1981 to September 1982*

SUSPENDED-SEDIMENT DISCHARGE (T/DAY)

DAY	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	.40	9	.01	.48			.29		
2	.46	11	.01	.53			.27		
3	.72	15	.03	.49			.29		
4	.91	29	.07	.43			.33		
5	.91	---	---	.42			.34		
6	.72	---	---	.41			.34		
7	.72	---	---	.43			.35		
8	.84	---	---	.39			.35		
9	.85	---	---	.36			.35		
10	.74	---	---	.33			.34		
11	.79	---	---	.30			.34		
12	1.2	---	---	.35			.38		
13	1.3	---	---	.36			.38		
14	1.1	---	---	.36			.37		
15	1.3	---	---	.35			.31		
16	2.2	---	---	.31			.31		
17	.62	---	---	.30			.30		
18	.48	---	---	.28			.22		
19	.37	---	---	.28			.28		
20	.29	---	---	.27			.27		
21	.29	---	---	.27			.29		
22	.27	---	---	.27			.29		
23	.26	---	---	.27			.17		
24	.31	---	---	.29			.09		
25	.31	---	---	.34			.24		
26	.32	---	---	.28			.22		
27	.33	---	---	.28			.26		
28	.43	---	---	.28			.16		
29	.52	---	---	.28			.23		
30	.48	---	---	.28			.25		
31	.41	---	---	---			.25		
TOTAL	20.85	---	0.12	10.27			8.86		

Table 29.--*Discharge and suspended-sediment data for station 09092850, East Middle Fork Parachute Creek near Rio Blanco (site 2), water year October 1981 to September 1982*--Continued

SUSPENDED-SEDIMENT DISCHARGE (T/DAY)

DAY	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)
	JANUARY			FEBRUARY			MARCH		
1	.25			.40			.80		
2	.25			.40			.78		
3	.24			.40			.82		
4	.20			.40			.88		
5	.22			.40			.94		
6	.22			.40			.83		
7	.12			.40			1.1		
8	.11			.40			1.1		
9	.21			.42			1.4		
10	.23			.44			1.5		
11	.23			.46			1.5		
12	.22			.50			2.0		
13	.22			.52			2.1		
14	.27			.54			1.8		
15	.27			.56			1.9		
16	.27			.58			2.1		
17	.30			.60			2.1		
18	.30			.60			2.3		
19	.30			.62			2.1		
20	.30			.64			1.9		
21	.30			.66			1.9		
22	.32			.68			2.3		
23	.32			.70			2.6		
24	.34			.66			2.8		
25	.34			.81			2.8		
26	.34			.74			2.7		
27	.36			.72			2.7		
28	.36			.98			3.2		
29	.36			---			2.8		
30	.36			---			2.4		
31	.36			---			2.6		
TOTAL	8.49			15.63			58.75		

Table 29.--*Discharge and suspended-sediment data for station 09092850, East Middle Fork Parachute Creek near Rio Blanco (site 2), water year October 1981 to September 1982*--Continued

SUSPENDED-SEDIMENT DISCHARGE (T/DAY)

DAY	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)
		APRIL			MAY			JUNE	
1	2.9			27	---	---	18		
2	2.6			37	---	---	16		
3	3.5			47	---	---	15		
4	3.2			57	---	---	14		
5	2.3			67	565	102	13		
6	2.6			65	370	65	12		
7	2.6			48	---	---	11		
8	1.9			43	---	---	10		
9	2.4			43	---	---	9.6		
10	2.7			42	---	---	9.4		
11	5.6			40	---	---	9.0		
12	6.9			38	---	---	8.8		
13	10			39	---	---	8.7		
14	16			40	---	---	7.8		
15	14			41	---	---	7.2		
16	7.6			42	---	---	7.2		
17	9.8			43	---	---	7.2		
18	11			44	160	19	7.0		
19	4.0			45	290	35	6.5		
20	3.0			47	220	28	6.3		
21	5.4			45	140	17	6.1		
22	11			42	155	18	6.1		
23	8.3			41	100	11	5.9		
24	12			39	90	9.5	5.6		
25	13			36	65	6.3	5.2		
26	12			32	57	4.9	4.8		
27	9.4			32	48	4.1	4.4		
28	19			26	44	3.1	4.4		
29	13			24	30	1.9	4.6		
30	21			23	26	1.6	4.6		
31	---			21	---	---	---		
TOTAL	238.7			1256	---	326.4	255.4		

Table 29.--*Discharge and suspended-sediment data for station 09092850, East Middle Fork Parachute Creek near Rio Blanco (site 2), water year October 1981 to September 1982*--Continued

SUSPENDED SEDIMENT DISCHARGE (T/DAY)

DAY	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)
		JULY			AUGUST			SEPTEMBER	
1	5.2	---	---	2.1			2.6		
2	4.3	---	---	2.7			1.1		
3	4.3	---	---	2.8			.63		
4	4.1	---	---	2.8			.76		
5	4.1	---	---	2.1			1.1		
6	4.1	---	---	3.1			1.8		
7	3.8	---	---	3.1			1.2		
8	3.3	---	---	3.2			.91		
9	3.6	---	---	4.3			1.3		
10	3.4	---	---	3.3			1.3		
11	3.3	---	---	2.5			1.9		
12	3.6	---	---	2.9			1.6		
13	3.8	---	---	2.8			2.4		
14	2.6	---	---	2.1			1.9		
15	1.8	---	---	2.0			1.5		
16	1.8	16	.08	1.9			1.1		
17	1.8	---	---	1.6			.99		
18	2.1	---	---	1.4			.99		
19	2.2	---	---	1.3			.91		
20	1.7	---	---	1.6			.82		
21	1.8	---	---	1.6			.99		
22	1.6	---	---	1.7			.77		
23	1.5	---	---	1.5			.56		
24	1.8	---	---	2.8			1.1		
25	1.9	---	---	2.4			1.8		
26	2.2	---	---	3.8			2.9		
27	4.6	---	---	4.9			3.9		
28	3.1	---	---	4.4			4.5		
29	2.2	23	.14	3.9			4.2		
30	2.1	---	---	3.6			3.9		
31	1.9	---	---	2.0			---		
TOTAL	89.6	---	0.22	82.2			51.43		
YEAR	2096.18		326.74						

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

Table 30.--*Discharge and suspended-sediment data for station 09092970, East Fork Parachute Creek near Rulison (site 4), water year October 1981 to September 1982*

SUSPENDED-SEDIMENT DISCHARGE (T/DAY)

DAY	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	.00			.10			.02		
2	.00			.20			.02		
3	.00			.30			.01		
4	.00			.40			.01		
5	.00			.40			.01		
6	.00			.30			.01		
7	.00			.20			.00		
8	.00			.10			.00		
9	.00			.06			.00		
10	.00			.02			.00		
11	.00			.01			.00		
12	.00			.00			.00		
13	.10			.01			.00		
14	.00			.04			.00		
15	.05			.05			.00		
16	.20			.01			.00		
17	.16			.00			.00		
18	.12			.02			.00		
19	.10			.00			.00		
20	.06			.00			.00		
21	.04			.01			.00		
22	.01			.02			.00		
23	.03			.03			.00		
24	.06			.02			.00		
25	.03			.01			.00		
26	.02			.00			.00		
27	.04			.00			.00		
28	.08			.00			.00		
29	.04			.00			.00		
30	.06			.02			.00		
31	.08			---			.00		
TOTAL	1.28			2.33			0.08		

Table 30.--*Discharge and suspended-sediment data for station 09092970, East Fork Parachute Creek near Rulison (site 4), water year October 1981 to September 1982*--Continued

SUSPENDED-SEDIMENT DISCHARGE (T/DAY)

DAY	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/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			.10		
25	.00			.00			.20		
26	.00			.00			.30		
27	.00			.00			.40		
28	.00			.00			.50		
29	.00			---			.60		
30	.00			---			.70		
31	.00			---			.80		
TOTAL	0.00			0.00			3.60		

Table 30.--*Discharge and suspended-sediment data for station 09092970, East Fork Parachute Creek near Rulison (site 4), water year October 1981 to September 1982*--Continued

SUSPENDED-SEDIMENT DISCHARGE (T/DAY)

DAY	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)
		APRIL			MAY			JUNE	
1	1.0	---	---	61	---	50	20	28	1.5
2	.90	---	---	71	---	85	19	38	1.9
3	.80	---	---	83	---	150	18	35	1.7
4	.70	---	---	85	---	160	16	31	1.3
5	.60	---	---	89	---	200	15	25	1.0
6	.50	---	---	78	---	120	15	25	1.0
7	.42	---	---	62	---	63	14	17	.64
8	.40	---	---	55	---	37	14	14	.53
9	.50	---	---	51	---	29	14	19	.72
10	1.0	---	---	48	---	25	13	24	.84
11	5.0	---	---	40	---	15	11	14	.42
12	11	329	9.8	37	---	12	12	25	.81
13	11	524	16	33	---	9.5	11	18	.53
14	13	513	18	28	---	6.5	11	25	.74
15	13	213	7.5	29	---	7.0	10	16	.43
16	11	89	2.6	28	---	6.5	9.7	20	.52
17	9.3	69	1.7	27	---	6.0	9.3	16	.40
18	10	54	1.5	30	---	7.8	9.6	19	.49
19	9.7	19	.50	37	---	12	8.5	21	.48
20	8.4	---	.62	47	---	23	7.8	23	.48
21	8.1	---	.59	49	114	15	7.2	20	.39
22	8.8	---	.68	43	146	17	7.0	20	.38
23	11	---	1.0	42	91	10	6.8	20	.37
24	13	---	1.4	39	66	6.9	6.2	22	.37
25	17	---	2.3	38	52	5.3	5.7	17	.26
26	20	---	3.1	36	42	4.1	5.3	19	.27
27	25	---	3.6	31	46	3.8	4.8	22	.28
28	28	57	4.3	29	47	3.7	4.4	20	.24
29	33	128	11	26	49	3.4	4.1	26	.29
30	45	222	27	25	26	1.8	4.0	11	.12
31	---	---	---	23	27	1.7	---	---	---
TOTAL	317.12	---	113.19	1400	---	1097.0	313.4	---	19.40

Table 30.--*Discharge and suspended-sediment data for station 09092970, East Fork Parachute Creek near Rulison (site 4), water year October 1981 to September 1982*--Continued

SUSPENDED SEDIMENT DISCHARGE (T/DAY)

DAY	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)
	JULY			AUGUST			SEPTEMBER		
1	4.4	9	.11	1.1	---	.00	.48	3	.00
2	4.0	17	.18	1.5	---	.00	.47	3	.00
3	4.0	19	.20	1.3	---	.00	.47	2	.00
4	3.9	30	.32	1.2	---	.00	.51	3	.00
5	4.0	49	.53	1.1	---	.00	1.2	2	.01
6	4.5	25	.30	1.1	---	.00	1.1	4	.01
7	4.2	44	.50	1.0	---	.00	.78	4	.01
8	4.2	30	.34	1.0	---	.00	.90	5	.01
9	4.3	19	.22	1.2	---	.00	1.0	6	.02
10	3.4	12	.11	1.6	---	.00	.76	5	.01
11	3.0	11	.09	1.5	---	.00	1.3	6	.02
12	2.6	17	.12	1.3	---	.00	1.3	5	.02
13	2.1	18	.10	1.3	---	.00	3.4	16	.15
14	2.1	9	.05	1.2	---	.00	2.6	10	.07
15	2.0	7	.04	.94	---	.00	1.7	5	.02
16	2.0	7	.04	1.1	---	.00	1.2	1	.00
17	2.1	7	.04	1.2	---	1.0	1.0	3	.01
18	2.0	5	.03	1.1	5	.02	1.0	4	.01
19	1.9	4	.02	.99	---	.02	.99	4	.01
20	1.8	4	.02	.96	---	.01	1.1	5	.01
21	1.8	5	.02	1.1	---	.02	1.0	4	.01
22	1.8	5	.02	1.2	---	.03	.82	4	.01
23	1.6	5	.02	.82	---	.02	.77	4	.01
24	1.6	8	.03	.64	---	.02	.69	6	.01
25	1.5	8	.03	.67	---	.01	.72	16	.03
26	1.4	---	.00	.62	---	.01	1.1	33	.10
27	1.6	---	.00	.48	---	.01	1.9	41	.21
28	2.0	---	.00	.46	---	.01	3.0	32	.26
29	1.7	---	.00	.46	---	.01	2.7	20	.15
30	1.5	---	.00	.55	6	.01	4.8	84	1.1
31	1.3	---	.00	.52	6	.01	---	---	---
TOTAL	80.3	---	3.48	31.21	---	1.21	40.76	---	2.28
YEAR	2190.08		1236.56						

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

Table 31.--*Instantaneous streamflow measurements and suspended-sediment data for station 09092970, East Fork Parachute Creek near Rulison (site 4) for selected dates during 1982 and 1983*

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					MAY				
07...	1000	.78	4	.00	28...	1230	446	7180	8650
07...	1100	.78	--	--	JUN				
NOV					07...	1400	103	174	48
04...	1200	.19	--	--	20...	1100	31	--	--
DEC					JUL				
14...	1300	.77	--	--	12...	1430	6.9	12	.22
JAN					AUG				
13...	1200	.18	--	--	04...	1300	4.6	26	.32
MAR					05...	1300	4.3	--	--
02...	1200	.49	--	--	SEP				
APR					09...	1200	1.1	3	.00
26...	1400	31	117	9.7					
26...	1430	31	--	--					

Table 32.--*Discharge and suspended-sediment data for station 09092970, East Fork Parachute Creek near Rulison (site 4), water year October 1982 to September 1983*

DAY	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	4.0	39	.42	2.5			.92		
2	2.0	10	.14	2.0			.77		
3	1.5	14	.06	.50			.76		
4	1.2	22	.07	.34			.72		
5	1.0	18	.05	.45			.63		
6	.95	19	.05	.52			.66		
7	.79	---	---	.60			.70		
8	.97	---	---	.70			.54		
9	1.5	---	---	.80			.69		
10	1.5	---	---	1.0			.85		
11	1.5	---	---	1.4			.65		
12	1.3	---	---	.72			.62		
13	1.4	---	---	.60			.73		
14	1.2	---	---	.54			.67		
15	1.0	---	---	.50			.67		
16	.98	---	---	.56			.62		
17	.91	---	---	.64			.57		
18	.88	---	---	.78			.50		
19	.79	---	---	.90			.45		
20	1.3	---	---	.80			.46		
21	1.5	---	---	.74			.49		
22	1.4	---	---	.70			.47		
23	1.0	---	---	.56			.47		
24	1.0	---	---	.50			.45		
25	1.1	---	---	.80			.44		
26	1.3	---	---	1.1			.42		
27	3.1	---	---	.87			.41		
28	1.8	---	---	.83			.40		
29	1.6	---	---	.82			.39		
30	1.7	---	---	.86			.38		
31	2.8	---	---	---			.37		
TOTAL	44.97	---	0.79	24.63			17.87		

SUSPENDED-SEDIMENT DISCHARGE (T/DAY)

Table 32.--*Discharge and suspended-sediment data for station 09092970, East Fork Parachute Creek near Rulison (site 4), water year October 1982 to September 1983*--Continued

SUSPENDED-SEDIMENT DISCHARGE (T/DAY)

DAY	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)
		JANUARY			FEBRUARY			MARCH	
1	.34			.21			.49		
2	.33			.16			.50		
3	.34			.19			.71		
4	.35			.25			.70		
5	.33			.25			.53		
6	.33			.22			.51		
7	.31			.23			.59		
8	.29			.23			.56		
9	.26			.24			.56		
10	.24			.25			.60		
11	.23			.23			1.2		
12	.22			.23			1.6		
13	.19			.27			1.9		
14	.21			.26			2.4		
15	.22			.27			3.0		
16	.23			.28			4.1		
17	.27			.28			3.6		
18	.27			.29			2.9		
19	.26			.29			2.5		
20	.23			.29			2.2		
21	.23			.31			3.5		
22	.22			.34			3.4		
23	.19			.36			2.4		
24	.18			.44			2.1		
25	.20			.68			2.2		
26	.20			.73			2.6		
27	.20			.61			2.2		
28	.22			.53			1.7		
29	.17			---			1.5		
30	.20			---			2.3		
31	.20			---			3.2		
TOTAL	7.66			8.92			58.25		

Table 32.--*Discharge and suspended-sediment data for station 09092970, East Fork Parachute Creek near Rulison (site 4), water year October 1982 to September 1983*--Continued

SUSPENDED-SEDIMENT DISCHARGE (T/DAY)

DAY	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)
	APRIL			MAY			JUNE		
1	2.6			32			270		
2	2.8			30			220		
3	2.7			32			190		
4	2.4			38			160		
5	1.8			46			140		
6	1.9			52			120		
7	1.9			52			106		
8	2.0			64			93		
9	2.1			100			83		
10	2.2			122			73		
11	2.6			131			64		
12	2.7			115			62		
13	2.4			94			52		
14	2.9			96			43		
15	3.2			93			38		
16	3.7			96			36		
17	5.4			99			36		
18	7.7			84			34		
19	10			90			32		
20	12			98			30		
21	13			108			28		
22	13			125			25		
23	16			139			24		
24	25			194			22		
25	32			240			23		
26	32			280			21		
27	30			200			20		
28	28			310			19		
29	29			320			17		
30	33			330			15		
31	---			300			---		
TOTAL	326.0			4110			2096		

Table 32.--*Discharge and suspended-sediment data for station 09092970, East Fork Parachute Creek near Rulison (site 4), water year October 1982 to September 1983*--Continued

SUSPENDED SEDIMENT DISCHARGE (T/DAY)

DAY	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)	MEAN DISCHARGE (FT^3/S)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (T/DAY)
	JULY			AUGUST			SEPTEMBER		
1	14			3.3	---	---	1.3	9	.03
2	14			3.2	---	---	1.3	8	.03
3	12			4.8	---	---	1.2	7	.02
4	11			6.0	22	.36	1.8	2	.01
5	10			3.8	5	.05	1.7	1	.00
6	9.9			3.6	22	.22	1.3	1	.00
7	9.0			3.5	12	.11	1.2	7	.02
8	8.5			3.2	17	.15	1.3	7	.02
9	7.9			3.1	16	.13	.97	4	.01
10	7.3			3.4	13	.12	.87	2	.00
11	6.2			3.2	14	.12	.91	2	.00
12	5.9			3.4	24	.22	.78	2	.00
13	5.6			8.0	103	2.2	.71	1	.00
14	5.3			4.3	35	.41	.70	---	---
15	5.1			3.4	27	.25	.70	---	---
16	5.2			3.0	32	.26	.70	---	---
17	5.0			2.8	19	.14	.70	---	---
18	4.7			3.9	37	.39	.70	---	---
19	4.6			2.9	36	.28	.70	---	---
20	5.1			5.3	54	.77	.70	---	---
21	7.7			2.8	27	.20	.70	---	---
22	6.3			2.4	21	.14	.70	---	---
23	6.3			2.3	18	.11	.70	---	---
24	5.7			2.2	12	.07	.68	---	---
25	5.5			2.2	8	.05	.68	---	---
26	6.8			1.9	8	.04	.68	---	---
27	5.3			1.7	6	.03	.66	---	---
28	5.1			1.7	9	.04	.66	---	---
29	4.4			1.7	5	.02	.66	---	---
30	3.8			1.7	9	.04	1.0	---	---
31	3.6			1.5	6	.02	---	---	---
TOTAL	216.8			100.2	---	6.94	27.36	---	0.14
YEAR	7038.66		7.87						

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

Table 33.--*Mean air temperature at JQS weather station 393529107545900 (site 9), for water year October 1981 to September 1982*

AIR TEMPERATURE, IN DEGREES CELSIUS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	-2.6	-13.0	-8.4*	-8.7	-.1	-1.5	6.4	6.2	14.8	16.9	15.9
2	10.3	1.1	-10.8	---	-11.9	.1	-5.0*	7.6	9.7	12.1	18.6	15.7
3	5.2	2.7	-4.9	-13.2*	-13.7	-.7	-0.1*	8.9	7.3	13.1	13.2	16.2
4	4.5	3.3	-3.3	-16.0*	-13.5	-4.5	-0.7*	6.7	7.4	15.7	14.1	17.1
5	3.7	3.8	.1	-12.5*	-19.3	-7.6	-5.6*	5.3	10.9	15.4	15.5	12.7
6	5.5	3.7	.0	-7.0*	-21.6	-9.1	0.1*	-1.0	10.0	10.2	17.4	9.1
7	7.6	3.1	.9	-16.4*	-16.9	-9.0	-8.2*	.5	5.1	7.7	18.7	11.6
8	8.4	.4	2.4	-17.3*	-10.7*	-5.6	-3.6*	3.4	9.7	12.9	18.0	10.6
9	2.3	-.5	3.2	-9.4*	-12.0	-1.7	-5.4*	7.0	8.7	11.7	15.8	11.3
10	4.2	.2	3.0	-3.2*	-12.5	-.5	2.5*	5.6	7.5	10.8	14.5	13.0
11	8.5	.3	.9	-3.0*	-9.8	.6	5.2*	2.7	11.5	13.2	15.0	9.6
12	1.4	1.0	-2.0	-3.3*	-8.9	.8	3.9	1.1	12.6	14.5	12.9	4.2
13	1.9	2.5	-2.5	-0.7*	-7.5	-.9	3.4	.0	14.0	16.7	13.0	3.7
14	2.0	4.7	-6.5	-12.1*	-3.5	1.4	4.2	-.7	13.2	17.0	12.3	1.6
15	2.1	3.6	-4.4	-9.5*	-2.9	.1	4.7	2.3	10.0	18.2	14.6	3.8
16	-.2	4.5	-5.7	-8.9*	-2.6	-2.3	2.6	4.1	7.7	18.3	15.2	10.7
17	-2.0	4.6	-8.1*	-7.0*	-1.9	-2.4	-4.5	4.9	12.0	17.7	15.4	10.8
18	.8	1.4	-9.6*	-2.6*	-3.3	-2.7	.5	5.9	11.4	16.1	15.7	9.5
19	2.6	-7.0	-4.7*	-3.9*	-4.5	1.4	1.6	9.1	8.5	17.2	16.2	8.9
20	3.3	-5.5	-2.6*	-4.8*	-3.2	-8.4	-8.3	4.7	9.2	18.2	18.0	8.2
21	3.5	-2.5	-.4*	-8.1*	.4	-8.8	-9.5	3.9	12.2	19.5	17.7	9.5
22	2.3	.0	-5.3*	-7.8*	2.7	-8.1	-3.0	8.6	12.2	20.1	15.8	11.8
23	1.7	-.1	-15.5*	---	2.2	-6.5	3.1	11.9	11.9	20.7	14.9	13.0
24	2.0	2.9	-15.8*	---	1.0	-5.2	1.3	9.7	12.0	19.2	15.8	13.2
25	-4.0	3.4	-13.8*	-4.2*	-.5	-2.4	3.4	7.0	14.1	17.3	13.7	13.3
26	-.5	-10.8	-12.0*	-1.6*	-1.1	-.5	4.4	7.9	12.8	16.8	11.1	10.3
27	4.5	-7.2	-13.0*	---	-2.4	0.0	3.3	11.5	11.5	16.8	13.2	10.3
28	4.8	-7.0	-11.4*	-5.7	-1.8	.2	3.0	12.1	15.7	14.6	13.5	1.2
29	2.8	-4.3	-13.6*	-2.9*	---	1.6	5.8	8.1	18.7	13.4	13.2	.2
30	-3.8	-6.9	-5.7*	-6.6	---	-4.7	4.6	7.8	17.2	14.0	15.2	5.9
31	-6.3	---	-8.6*	-7.7	---	-7.8	---	4.4	---	14.7	15.2	---
TOTAL	89.0	-7.1	-182.7*	-183.8*	-177.7	-93.3	2.1*	177.3	330.9	478.4	470.0	292.5
MEAN	2.9	-.2	-5.9*	-6.8*	-6.6	-3.0	0.1*	5.7	11.0	15.4	15.2	9.7
MAX	10.3	4.7	3.2	-0.7*	2.7	1.6	5.8	12.1	18.7	20.7	18.7	17.1
MIN	-6.3	-10.8	-15.8*	-17.3*	-21.6	-9.1	-9.5	-1.0	5.1	7.7	11.1	.2

* Values estimated

Table 34.--*Mean air temperature at JQS weather station 393529107545900 (site 9), water year October 1982 to September 1983*

AIR TEMPERATURE, IN DEGREES CELSIUS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	1.0	-4.0	-9.7	-9.5	-1.7	-1.1	-.7	4.3	14.4	16.0	17.7
2	.5	-2.8	-8.0	-6.1	-11.3	.5	-5.3	-1.5	8.4	14.3	15.3	16.6
3	4.6	-7.1	-8.9	-4.3	-12.2	.9	-4.2	-.9	7.1*	14.5	14.5	16.5
4	6.9	-6.7	-5.2	-6.9	-9.8	.3	-7.2	1.2	6.7*	12.1	15.2	11.2
5	8.9	-3.0	-3.6	-5.3	-7.5	-1.0	-9.7	2.2	4.2*	11.4	16.9	12.0
6	1.9	-.2	-4.8	-2.6	-10.2	-2.5	-9.7	3.4	5.0*	18.1	17.4	14.3
7	5.0	1.2	-3.9	-1.3	-8.6	-3.4	-9.7	-.9	7.8*	15.6	18.4	15.8
8	1.4	2.1	-3.2	-3.6	-4.7	-4.2	-8.0	3.1	6.7*	14.9	19.1	12.7
9	-6.1	1.7	-1.6	-6.6	-2.8	-2.7	-6.5	7.4	6.9*	15.4	19.2	14.5
10	-5.8	-.4	1.5	-12.3	-4.7	-.9	-1.9	6.6	9.6*	13.9	17.5	13.5
11	-4.5	-1.1	-4.2	-7.7	-6.7	2.4	.5	6.0	11.5*	11.5	15.8	13.4
12	4.2*	-5.7	-4.9	-2.3	-5.8	3.9	-1.7	1.4	12.3*	15.0	14.1	14.0
13	5.7*	-7.2	-4.6	.2	-2.5	1.7	-4.1	-1.4	2.0*	17.1	15.4	14.8
14	.9	-6.2	-7.6	-.6	-2.6	2.4	-7.4	-.2	5.6*	17.6	16.9	13.0
15	3.3	-9.6	-10.5	.3	-6.3	-.8	-6.8	-.6	5.8*	15.3	17.1	12.4
16	6.6	-5.8	-5.8	-3.1	-3.1	-6.1	-4.8	.2	9.7*	15.4	17.6	13.4
17	5.5	-3.6	-2.1	-2.1	-2.6*	-6.2	-2.4	-.9	13.1	17.8	17.5	14.6
18	5.6	-1.4	-3.8	-2.9	-5.5	-4.6	1.9	-2.6	12.8	17.7	14.9	13.8
19	5.4	-1.1	-7.7	-6.1	-.5	-5.0	3.1	-.4	16.9	16.7	13.6	9.5
20	-3.9	-2.6	-3.8	-6.0	-4.9	-7.2	1.5	2.0	15.9	15.3	13.6	-.1
21	1.4	-6.5	-1.3	-3.2	-4.6	-10.3	3.4	2.1	15.4	14.3	15.2	5.3
22	2.8	-5.7	-1.1	-4.5	-2.8	-7.4	.2	3.8	16.1	14.5	15.2	9.4
23	3.9	-6.9	-2.4	-7.7	-.9	-5.0	1.7	5.7	16.8	11.9	15.2	8.7
24	6.6	-10.7	-7.9	-7.7	-.7	4.3	5.0	8.7	13.8	15.0	13.7	8.7
25	8.5	-4.2	-13.7	-5.2	.2	-5.9	7.2	11.4	12.3	14.5	14.4	9.6
26	4.6	-5.2	-12.0	-6.7	-1.7	-7.1	2.8	12.2	10.3	13.2	15.6	11.7
27	3.9	-5.8	-9.1	-3.6	-3.9	-7.7	-.2	12.8	9.2	11.3	15.9	9.3
28	-3.8	-3.2	-14.3	-.4	-3.7	-5.2	.2	14.2	9.7	13.7	15.2	9.7
29	-6.5	-5.5	-18.0	-6.1	---	-3.4	.9	13.1	10.1	16.8	13.4	9.1
30	-4.8	-4.4	-16.3	-5.0	---	-4.1	1.5	11.6	13.1	17.6	13.7	5.5
31	1.2	---	-14.6	-7.9	---	-.1	---	7.7	---	15.1	16.0	---
TOTAL	63.0*	-116.3	-207.1	-147.0	-139.6*	-86.0	-60.8	126.7	299.1*	461.8	489.4	350.6
MEAN	2.0*	-3.9	-6.7	-4.7	-5.0*	-2.8	-2.0	4.1	10.0*	14.9	15.8	11.7
MAX	8.9	2.1	1.5	.3	.2	4.3	7.2	14.2	16.9	18.1	19.2	15.8
MIN	-6.5	-10.7	-18.0	-12.3	-12.2	-10.3	-9.7	-2.6	2.0*	11.3	13.4	-.1

* Values estimated

Table 35.--*Maximum air temperature at JQS weather station 393529107545900 (site 9), water year October 1981 to September 1982*

AIR TEMPERATURE, IN DEGREES CELSIUS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.6	4.5	-6.7	-3.8*	-5.4	6.9	3.7	14.8	14.1	22.5	24.7	23.3
2	17.7	10.0	-4.3	---	-8.1	2.4	1.4*	14.3	15.7	17.8	25.8	22.9
3	10.1	11.5	-.5	-6.0*	-5.1	.6	7.3*	16.8	13.7	19.2	21.3	23.6
4	6.8	10.9	6.8	-10.3*	-10.0	.9	7.3*	12.8	13.5	22.2	20.7	24.2
5	8.7	11.6	5.4	-7.7*	-8.9	-.3	2.7*	12.4	17.3	21.2	23.0	23.4
6	12.7	8.5	5.1	-4.3*	-10.1	-3.0	5.9*	3.2	16.5	17.8	24.6	16.3
7	13.2	9.5	7.8	-4.7*	-5.3	-.4	-0.6*	6.9	11.8	15.7	26.0	18.1
8	13.8	4.6	8.2	-7.5*	-5.6*	-1.6	2.7*	9.9	15.7	19.7	24.8	15.4
9	5.1	5.4	8.4	-7.9*	-7.2	2.1	3.6*	12.8	15.3	18.2	24.2	17.0
10	12.8	5.6	7.7	4.8*	-9.2	3.7	6.3*	10.0	15.4	16.7	23.1	19.3
11	13.2	6.0	6.3	4.6*	-5.5	3.7	10.7*	8.0	17.7	20.8	22.7	15.8
12	7.1	6.7	4.3	-.2*	-4.0	3.4	9.1	5.9	18.5	20.9	18.8	7.4
13	6.4	8.3	1.8	4.0*	-2.6	3.2	6.9	4.3	20.3	24.7	21.2	10.7
14	6.9	8.7	-1.7	-7.5*	.5	15.4	8.9	2.2	18.2	25.6	17.2	3.1
15	7.0	7.5	-.4	-5.0*	-.7	3.7	8.8	9.0	17.8	25.0	20.3	12.6
16	5.5	9.6	-.3	-5.7*	6.0	.9	10.2	11.0	14.7	24.5	23.6	15.6
17	6.7	10.0	-2.8*	-3.6*	1.5	2.6	3.2	11.3	18.8	24.5	22.7	16.7
18	6.3	8.6	-3.0*	1.0*	5.3	1.6	7.0	12.2	18.6	22.8	22.9	15.1
19	9.4	-.2	-0.4*	-1.2*	4.8	6.6	6.6	16.3	13.8	23.8	23.5	16.7
20	10.5	1.1	0.1*	-1.1*	1.6	-5.5	-2.6	10.3	15.8	25.9	24.8	15.2
21	9.3	2.4	2.7*	-5.4*	9.3	-2.4	-4.2	10.7	19.5	27.0	25.6	15.2
22	10.4	4.5	0.1*	-4.0*	14.7	.5	6.0	16.2	19.4	28.3	23.4	17.9
23	7.6	3.5	-13.4*	---	5.5	2.7	14.5	19.4	19.1	27.4	22.5	18.2
24	8.6	7.4	-8.8*	---	2.6	1.1	7.5	14.6	19.2	27.0	23.5	19.8
25	3.1	8.2	-8.8*	0.5*	4.6	2.5	10.8	13.1	21.0	26.3	21.2	19.5
26	6.1	-5.3	-7.2*	3.8*	8.8	7.6	13.6	14.2	21.6	26.2	15.9	15.4
27	9.1	-3.0	-6.6*	---	2.3	2.6	8.7	18.3	18.6	25.0	19.2	15.9
28	9.6	.3	-5.9*	-.1	3.1	6.5	8.2	17.2	22.9	20.0	20.4	4.8
29	4.4	-1.1	-8.4*	2.2*	---	7.7	12.5	13.0	24.8	19.7	20.3	5.0
30	-.2	-1.4	-1.4*	-3.6	---	1.6	8.4	15.2	22.9	19.4	21.0	8.6
31	2.2	---	---	1.1	---	-3.2	---	12.9	---	21.1	22.9	---
TOTAL	267.8	164.0	-16.1*	-62.6*	-11.6*	73.9	195.1*	369.1	531.9	697.0	691.5	472.6
MEAN	8.6	5.5	.5*	2.3*	-.4*	2.4	6.5*	11.9	17.7	22.5	22.3	15.8
MAX	17.7	11.6	8.4	4.8*	14.7	15.4	14.5	19.4	24.8	28.3	26.0	24.2
MIN	-.2	-5.3	13.4*	40.3*	-10.1	-5.5	-4.2	2.2	11.8	15.7	15.9	3.1

* Values estimated

Table 36.--*Maximum air temperature at JQS weather station 393529107545900 (site 9), water year October 1982 to September 1983*

AIR TEMPERATURE, IN DEGREES CELSIUS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	2.6	-1.4	-1.7	1.7	1.2	3.7	1.7	12.2	18.8	22.4	24.6
2	6.5	3.7	-6.2	2.4	-6.2	3.1	.7	4.6	14.3	18.7	20.7	23.5
3	10.3	-1.8	-5.5	7.1	-.3	6.1	2.1	6.6	14.3*	19.2	21.6	23.2
4	12.5	.8	3.1	-2.7	-.4	5.6	3.1	12.9	14.3*	18.2	20.9	17.0
5	14.7	2.9	5.2	-2.2	-.7	1.1	-6.2	10.4	11.2*	19.8	22.7	18.3
6	6.3	4.0	2.5	.1	-4.3	-.2	2.6	8.4	14.8*	25.1	25.8	22.2
7	11.9	5.3	-.2	1.0	-6.6	1.0	.6	2.8	15.9*	23.4	25.0	23.6
8	13.7	6.1	4.9	2.2	-2.4	.4	2.3	15.3	14.3*	20.4	26.5	18.3
9	-1.0	4.8	3.2	.6	-1.9	3.6	1.3	12.2	14.8*	20.2	26.1	20.3
10	-.5	1.1	6.8	-7.2	1.6	8.0	4.4	11.9	17.6*	19.8	25.2	20.9
11	1.1	1.1	4.8	2.1	1.8	14.8	4.1	11.8	19.2*	19.6	22.6	20.3
12	5.4*	-1.9	6.0	6.4	5.0	7.7	1.1	7.4	22.4*	21.8	21.9	22.0
13	6.8*	4.4	1.9	12.0	1.0	7.4	8.2	3.2	5.4*	23.9	21.3	21.8
14	5.5	-3.1	-2.4	7.7	1.9	7.4	-.0	6.9	6.4*	24.3	22.9	19.3
15	10.7	.6	-6.6	12.9	.9	9.5	3.3	6.4	12.0*	21.2	22.9	19.1
16	13.4	-.9	-2.2	4.5	6.2	-2.0	5.5	6.4	18.4*	21.7	23.8	20.4
17	11.6	5.6	.3	7.8	3.2*	3.2	5.4	11.5	18.6	23.4	23.8	21.1
18	11.6	2.5	-.3	2.5	2.7	-1.6	13.8	.4	19.4	24.5	21.4	20.1
19	11.2	.5	-3.4	-2.5	5.0	1.3	9.9	6.2	22.4	23.3	20.5	18.4
20	3.1	1.1	-.0	-3.0	-.9	.2	9.4	16.8	21.0	23.7	19.2	8.2
21	8.5	-3.2	1.3	2.8	5.7	-3.5	19.3	7.8	21.5	22.9	21.6	14.1
22	9.8	-4.0	1.9	4.0	4.8	3.3	4.8	10.2	21.0	22.5	21.9	16.9
23	10.1	-4.4	-1.1	-3.0	8.0	.3	9.4	15.9	22.2	15.2	21.2	14.2
24	13.3	-6.5	-1.5	-.6	10.8	.9	14.0	15.3	21.4	21.5	19.7	14.8
25	14.6	9.7	-10.1	2.1	10.0	-2.1	11.4	19.4	18.7	21.9	20.3	17.2
26	8.9	-2.5	-6.7	-3.0	4.2	-3.6	7.1	20.3	17.9	18.9	22.9	17.7
27	7.7	1.0	1.9	.6	-2.3	-1.8	5.3	23.6	16.0	16.1	23.4	15.4
28	1.1	8.9	-6.7	4.8	1.9	2.9	3.5	23.8	14.1	21.1	23.8	15.9
29	1.2	-2.3	-13.5	-1.9	---	3.6	8.3	22.0	17.8	24.0	18.8	15.9
30	-1.6	-3.0	-11.1	1.9	---	7.3	6.9	20.1	19.2	24.8	21.6	7.3
31	3.9	---	-9.9	1.7	---	4.1	---	13.8	---	19.7	23.4	---
TOTAL	238.6*	33.2	-44.9	59.5	50.6*	89.3	165.2	356.0	498.7*	659.6	695.3	551.8
MEAN	7.7*	1.1	-1.4	1.9	1.8*	2.9	5.5	11.5	16.6*	21.3	22.4	18.4
MAX	14.7	9.7	6.8	12.9	10.8	14.8	19.3	23.8	22.4	25.1	26.5	23.6
MIN	-1.6	-6.5	-13.5	-7.2	-6.6	-3.6	-6.2	.4	5.4*	15.2	18.8	7.3

* Values estimated

Table 37.--*Minimum air temperature at JQS weather station 393529107545900 (site 9), water year October 1981 to September 1982*

AIR TEMPERATURE, IN DEGREES CELSIUS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	-6.3	-17.3	-11.4*	-11.6	-4.3	-9.3	-.5	-2.2	9.3	8.0	7.2
2	6.5	-2.9	-13.0	---	-13.9	-2.9	-9.5*	3.9	4.1	6.8	10.7	8.4
3	2.6	-1.1	-6.9	-17.2*	-17.8	-2.5	-6.6*	3.4	.5	5.7	10.1	9.9
4	3.3	-1.6	-7.1	-16.9*	-16.0	-8.6	-10.4*	3.6	1.8	9.1	9.0	12.0
5	1.1	-.4	-2.8	-15.0*	-27.9	-10.9	-13.8*	1.9	4.0	10.3	8.7	8.0
6	1.4	.3	-2.6	-9.7*	-28.4	-12.3	-6.2*	-4.2	-.2	2.1	10.1	4.9
7	3.4	.9	-2.6	-24.2*	-24.1	-14.3	-14.3*	-6.2	-3.3	.0	12.6	5.2
8	2.2	-3.5	-1.9	-24.7*	-15.1*	-8.8	-8.5*	-2.5	2.6	4.6	12.6	6.9
9	-1.6	-4.0	-1.5	-14.4*	-17.1	-5.1	-11.4*	.4	-.5	7.6	10.5	7.7
10	-.1	-3.9	1.0	-7.7*	-18.4	-5.3	-1.9*	-.8	-2.2	6.1	9.1	8.9
11	6.5	-4.0	-2.6	-6.1*	-13.0	-2.2	-2.9*	-1.8	3.8	5.0	10.9	6.2
12	-.1	-2.5	-5.3	-4.3*	-12.5	-2.8	-1.6	-1.9	6.2	8.8	10.3	1.4
13	.6	-.3	-4.6	-3.3*	-12.3	-4.0	-.7	-1.8	7.6	9.1	10.1	1.2
14	-2.3	2.6	-9.3	-13.8*	-8.8	-4.7	.1	-1.9	7.3	11.8	9.8	.3
15	-1.2	.5	-6.0	-12.0*	-4.9	-3.3	1.4	-1.5	4.2	11.7	11.1	1.0
16	-4.2	1.6	-12.8	-10.8*	-7.8	-4.4	-4.2	-1.7	1.6	12.5	9.7	7.1
17	-4.0	.7	-10.5*	-9.3*	-4.8	-4.9	-10.5	.1	4.1	12.2	8.8	5.4
18	-3.6	-6.0	-14.4*	-5.1*	-7.9	-6.0	-7.0	.3	5.8	9.9	10.3	4.2
19	-2.0	-10.0	-9.7*	-4.9*	-9.1	-6.3	-8.3	4.1	5.8	10.2	9.3	4.8
20	-.8	-9.0	-5.5*	-7.3*	-7.6	-10.5	-13.2	.9	4.8	9.5	11.5	4.5
21	-1.2	-6.0	-2.1*	-9.5*	-5.1	-12.4	-15.9	-1.5	3.4	11.3	13.2	4.8
22	-3.7	-1.9	-8.4*	-10.9*	-3.5	-12.5	-11.0	.6	6.5	13.7	11.7	7.7
23	-3.5	-3.0	-17.6*	---	-1.0	-12.5	-3.9	5.1	7.3	14.0	9.9	8.9
24	-1.9	.7	-18.7*	---	-2.6	-11.8	-1.4	5.4	6.6	12.5	10.7	4.4
25	-9.4	-5.5	-16.2*	-8.2*	-4.0	-7.2	-2.1	.6	6.5	11.3	10.4	9.2
26	-3.8	-16.0	-15.1*	-6.3*	-6.2	-7.8	-.7	.4	5.2	10.0	9.1	8.0
27	1.0	-10.5	-15.8*	---	-6.7	-1.7	.2	3.6	3.3	11.2	8.5	3.1
28	1.1	-10.6	-16.6*	-9.8	-5.4	-2.0	.2	7.9	8.0	11.5	8.1	-1.1
29	-.4	-7.0	-16.5*	-6.2*	---	-1.9	-1.2	3.1	12.4	10.7	7.1	-1.5
30	-7.0	-10.4	-10.4*	-10.4	---	-9.5	-.4	-.3	12.3	9.9	10.6	3.6
31	-11.3	---	---	-12.9	---	-9.8	---	-.3	---	9.3	10.3	---
TOTAL	-28.0	-119.1	-272.7*	-292.3*	-298.3*	-213.1	-175.0*	18.4	127.5	287.7	312.5	161.9
MEAN	-.9	-4.0	9.1*	-10.8*	-11.0*	-6.9	5.8*	.6	4.3	9.3	10.1	5.4
MAX	6.5	2.6	1.0	3.3*	-1.0	-1.7	1.4	7.9	12.4	14.0	13.2	12.0
MIN	-11.3	-16.0	-18.7*	-24.7*	-28.4	-14.3	-15.9	-6.2	-3.3	.0	7.1	-1.5

* Values estimated

Table 38.--*Minimum air temperature at JQS weather station 393529107545900 (site 9), water year October 1982 to September 1983*

AIR TEMPERATURE, IN DEGREES CELSIUS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	-.7	-7.9	13.1	-12.7	-3.9	-7.6	-3.2	-1.4	10.0	10.2	11.0
2	-5.5	-7.8	-9.6	-10.5	-15.2	-1.6	-9.5	-3.8	2.3	10.1	11.1	10.8
3	.5	-11.8	-12.1	-8.1	-15.7	-3.1	-10.0	-4.6	1.5*	9.9	10.4	8.4
4	2.6	-12.5	-7.7	-10.0	-14.0	-2.5	-10.9	-3.4	-0.5*	6.8	11.8	6.6
5	3.3	-8.2	-8.0	-7.4	-10.5	-2.7	-12.3	-4.8	-1.5*	1.4	10.6	5.2
6	-5.8	-3.6	-6.9	-4.1	-12.9	-3.8	-15.7	0.0	-1.9	6.8	11.0	5.8
7	1.2	-2.7	-5.8	-3.5	-10.0	-7.2	-16.3	-3.2	-1.5*	9.3*	10.8	9.3
8	-6.5	-2.4	-9.3	-6.8	-7.2	-10.0	-14.0	-5.6	0.9*	9.5	12.5	9.3
9	-8.4	-.6	-4.9	-11.6	-3.7	-5.8	-12.7	1.7	0.9*	11.1	13.8	9.5
10	-9.6	-3.0	-.5	-16.4	-9.8	-6.6	-7.4	-1.8	1.8*	5.8	11.4	6.8
11	-10.0	-2.4	-11.8	-9.9	-12.8	-3.5	-3.7	-4.6	3.7	1.7	11.1	5.9
12	-7.6*	-10.1	-8.0	-6.5	-9.7	-.3	-4.2	-4.4	3.1	7.0	10.4	6.5
13	-5.2*	-12.1	-7.6	-4.4	-6.5	-1.4	-7.3	-6.0	-1.3*	10.2	9.7	7.3
14	-2.5	-12.8	-13.5	-4.1	-5.4	-1.9	-12.8	-5.6	-2.9*	10.1	11.2	7.1
15	-4.1	-15.4	-13.4	-4.8	-11.4	-6.4	-14.2	-4.8	-1.7*	7.1	10.3	5.8
16	1.4	-9.5	-8.8	-6.9	-6.6	-9.6	-13.2	-5.7	4.5*	7.0	11.5	6.9
17	1.0	-8.8	-4.9	-5.5	-11.9*	-10.9	-9.4	-3.7	6.4	12.7	11.7	9.6
18	.6	-4.7	-8.3	-6.2	-11.7	-7.2	-7.2	-4.2	4.3	12.6	10.0	8.6
19	-5.0	-2.4	-11.2	-8.0	-5.3	-8.6	-.8	-6.4	11.0	11.9	8.3	-3.4
20	-10.4	-8.4	-5.7	-8.0	-6.6	-12.1	-3.5	-1.6	10.1	10.3	8.2	-7.8
21	-4.8	-9.9	-3.3	-7.7	-8.9	-14.8	-.9	-2.4	8.0	9.9	8.6	-3.3
22	-2.4	-8.2	-4.5	-8.1	-8.3	-13.6	-2.8	-1.4	10.8	10.7	8.3	.9
23	-.9	-12.7	-3.5	-10.0	-6.2	-8.1	-1.9	-.5	11.5	8.2	8.5	6.2
24	.9	-15.4	-11.9	-11.7	-6.2	7.2	-1.0	2.0	9.7	8.2	8.5	5.2
25	3.8	-11.2	-17.6	-6.6	-4.3	-8.2	1.9	5.0	8.6	10.9	9.3	3.8
26	2.2	-10.2	-16.8	-10.2	-4.3	-9.0	-4.4	5.8	6.9	9.9	9.4	6.1
27	1.0	-11.4	-13.3	-6.0	-5.7	-10.6	-6.1	7.1	5.5	8.4	8.7	4.9
28	-8.5	-8.0	-20.8	-4.9	-7.0	-10.5	-2.3	8.4	7.4	8.4	10.1	4.9
29	-9.8	-9.4	-21.2	-10.3	---	-6.2	-.8	8.1	5.8	10.3	10.3	4.9
30	-9.6	-6.2	-20.3	-8.2	---	-11.0	-.7	6.6	5.5	11.6	8.5	2.8
31	-2.4	---	-18.6	-12.9	---	-5.9	---	.3	---	11.0	9.5	---
TOTAL	-102.6*	-242.4	-317.7	-252.3	-250.4*	-199.6	-211.7	-36.7	229.7*	278.6*	315.6	165.4
MEAN	-3.3*	-8.1	-10.2	-8.1	8.9*	-6.4	-7.1	-1.2	7.7*	9.0*	10.2	5.5
MAX	3.8	-.6	-.5	-3.5	-3.7	7.2	1.9	8.4	11.5	12.7*	13.8	9.6
MIN	-10.4	-15.4	-21.2	-16.4	-15.7	-14.8	-16.3	-6.4	-2.9*	0.0	8.2	-7.8

* Values estimated

Table 39.--*Mean relative humidity at JQS weather station 393529107545900 (site 9), water year October 1981 to September 1982*

RELATIVE HUMIDITY, IN PERCENT

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34.1	80.5	93.0	79.7*	92.4	68.2	45.8	34.7	51.8	38.1	32.8	19.4
2	45.1	71.7	87.1	98.1*	89.5	67.1	77.4*	48.6	23.3	51.5	23.2	16.2
3	96.2	67.8	74.6	99.1*	80.6	93.9	44.4*	53.5	32.1	20.3	78.2	15.9
4	95.9	41.7	78.0	85.8*	93.2	89.5	66.3*	79.6	42.2	16.6	64.4	16.0
5	96.3	37.2	42.2	45.8*	83.0	82.6	67.0*	82.7	19.9	16.4	37.8	54.5
6	76.5	31.5	49.8	28.3*	62.8	81.8	50.4*	34.5	21.3	42.9	23.9	64.1
7	61.2	76.4	48.7	68.1*	35.4	73.4	86.2*	23.4	26.7	61.4	26.4	39.9
8	60.7	92.0	37.0	50.1*	69.3*	54.1	50.1*	37.6	18.3	28.5	30.3	53.8
9	92.5	88.8	23.9	52.1*	79.0	38.4	68.4*	37.7	19.5	64.7	50.9	56.6
10	50.2	61.0	26.5	75.8*	93.7	46.5	52.1*	34.2	28.9	69.2	62.3	41.1
11	52.0	51.5	51.3	63.8*	78.7	43.2	37.9*	58.5	18.3	38.2	52.4	67.4
12	91.2	60.3	82.9	99.0*	77.6	88.6	41.1	77.3	19.4	33.3	72.0	69.7
13	92.3	55.9	87.5	99.0*	66.6	74.0	75.4	91.8	18.0	28.4	64.6	66.7
14	86.0	45.7	95.3	77.6*	30.2	50.1	41.7	89.4	17.2	23.6	71.6	83.3
15	78.4	50.0	94.0	92.5*	56.4	76.0	22.5	71.7	31.1	19.8	60.2	69.3
16	93.3	53.1	87.1	94.3*	89.0	91.7	34.8	60.5	70.9	15.2	47.0	35.2
17	91.1	37.7	75.2*	72.1*	92.2	82.4	37.9	63.4	49.2	15.3	39.8	35.3
18	83.8	53.0	53.5*	---	80.8	78.9	23.7	60.9	62.0	32.5	44.7	44.4
19	70.0	93.5	38.3*	---	75.5	44.8	26.7	37.0	82.9	23.4	39.9	53.5
20	53.3	50.8	50.8*	---	76.6	89.9	37.0	70.5	67.3	16.6	31.4	58.2
21	53.9	49.7	84.5*	---	51.6	69.9	47.3	57.2	41.1	16.3	33.5	58.7
22	46.7	49.2	64.9*	---	49.2	67.6	30.5	30.1	41.2	20.3	46.8	33.8
23	28.8	67.3	45.2*	---	49.5	55.6	25.8	20.1	59.0	20.3	51.4	34.9
24	35.5	51.0	60.9*	69.7*	58.1	43.2	79.7	32.5	52.2	24.7	45.1	18.3
25	91.6	38.6	56.5*	63.9	65.9	36.4	61.8	38.7	36.9	36.3	48.7	17.8
26	53.2	94.7	63.6*	49.9	54.3	44.9	40.3	28.0	32.6	43.0	73.6	60.2
27	36.8	62.3	66.7*	28.4*	52.5	70.9	61.2	29.5	52.8	47.8	55.0	54.6
28	36.5	94.6	61.2*	64.9	85.5	84.9	74.6	21.4	31.2	76.3	47.5	72.8
29	85.5	86.4	52.9*	54.5*	---	65.6	30.7	33.1	16.6	85.4	51.5	72.2
30	97.1	96.9	67.1*	91.4	---	81.1	44.1	23.8	15.9	80.5	35.9	37.7
31	83.2	---	67.9*	64.1	---	69.4	---	64.5	---	61.7	28.9	---
TOTAL	2148.8	1890.7	1914.7*	1767.2*	1969.0*	2104.4	1482.6*	1526.1	1109.5	1168.2	1471.6	1421.5
MEAN	69.3	63.0	61.8*	70.7*	70.3*	67.9	49.4*	49.2	37.0	37.7	47.5	47.4
MAX	97.1	96.9	95.3	99.0*	93.7	93.9	86.2	91.8	82.9	85.4	78.2	83.3
MIN	28.8	31.5	23.9	28.4*	30.2	36.4	22.5	20.1	15.9	15.2	23.2	15.9

* Values estimated

Table 40.--*Mean relative humidity at JQS weather station 393529107545900 (site 9), water year October 1982 to September 1983*

RELATIVE HUMIDITY, IN PERCENT

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67.6	83.5	70.8	38.7	61.2	65.6	43.4	53.4	36.5	16.4	18.3	15.2
2	53.8	62.2	71.6	26.9	67.4	61.6	49.1	51.6	26.7	16.5	18.6	15.9
3	32.3	64.8	71.9	23.1	55.0	37.4	43.3	43.3	24.5*	16.4	25.3	17.7
4	22.7	47.3	61.3	24.4	33.3	33.3	51.7	41.1	24.7*	19.5	21.9	25.8
5	18.5	26.5	55.9	46.5	66.3	57.6	34.9	32.5	30.2*	17.5	18.9	17.5
6	68.1	21.7	52.3	58.7	64.8	66.2	31.3	11.9	32.2*	16.2	16.5	16.5
7	20.9	21.3	47.0	50.1	67.2	49.3	38.9	51.5	25.7*	18.4	15.4	16.8
8	47.9	21.0	40.1	66.2	69.2	57.8	32.0	31.2	25.8*	17.8	15.1	28.3
9	69.4	41.8	35.9	53.2	67.9	50.9	36.6	18.9	29.9*	17.4	14.8	16.4
10	60.8	73.2	67.3	55.1	61.9	41.2	37.9	19.2	25.5*	17.0	15.8	16.9
11	31.7	71.2	69.0	47.4	51.4	31.3	22.7	20.3	20.4*	17.6	19.2	16.8
12	42.9*	71.8	40.4	23.7	29.5	21.2	38.8	25.4	57.8*	16.2	28.6	16.5
13	48.1*	49.4	38.9	21.5	22.7	47.3	46.5	23.6	32.7*	15.4	21.3	16.3
14	45.3	46.4	69.4	21.8	49.6	30.3	49.2	22.5	22.6*	15.3	15.8	16.9
15	40.1	44.8	60.4	21.5	65.9	64.7	30.3	30.0	18.2*	16.1	15.9	17.3
16	33.5	30.3	55.3	22.9	38.1	64.7	29.1	32.9	17.6*	16.1	15.8	16.8
17	22.1	28.2	32.4	33.1	25.3*	57.0	22.5	50.5	16.9	15.2	15.9	16.3
18	21.3	27.2	32.3	60.6	39.0	65.2	20.9	47.1	17.0	15.3	20.2	16.6
19	20.5	67.3	32.3	66.1	22.0	62.9	26.4	36.5	15.5	15.8	26.4	18.2
20	37.4	77.8	23.4	60.9	65.6	57.2	33.6	40.3	15.9	21.4	23.1	21.7
21	21.3	68.2	23.1	45.6	47.0	49.8	25.0	28.6	16.0	24.4	18.5	19.7
22	20.9	70.5	28.3	60.5	37.3	42.4	46.6	26.3	15.8	25.7	16.1	18.2
23	21.1	71.9	70.3	65.9	28.8	53.4	33.8	29.0	15.5	37.7	16.1	26.6
24	19.7	48.6	69.0	70.0	24.9	58.8	23.0	18.7	21.7	21.8	16.7	29.2
25	19.0	27.7	64.7	61.9	26.9	62.3	19.0	17.5	26.8	25.9	17.2	24.5
26	50.9	64.7	41.6	68.0	53.0	65.6	20.7	17.2	29.6	32.3	16.1	17.7
27	66.5	43.5	34.0	40.0	67.1	52.1	21.7	17.0	37.5	28.9	15.9	24.0
28	74.2	27.5	61.6	37.0	62.4	46.9	40.6	16.5	33.2	21.5	16.1	18.1
29	63.2	55.1	56.6	65.1	---	54.8	41.9	16.9	22.3	15.7	17.1	23.2
30	55.7	72.2	32.2	56.1	---	43.4	45.5	17.6	17.3	15.3	21.7	39.5
31	53.8	---	37.6	54.9	---	37.9	---	25.0	---	16.6	15.9	---
TOTAL	1270.9*	1527.4	1546.8	1447.2	1370.4*	1585.4	1036.8	914.0	751.9*	603.1	570.3	600.8
MEAN	41.0*	50.9	49.9	46.7	48.9*	51.1	34.6	29.5	25.1*	19.5	18.4	20.0
MAX	74.2	77.8	71.9	70.0	69.2	66.2	51.7	51.5	57.8*	37.7	28.6	39.5
MIN	18.5	21.0	23.1	21.5	22.0	21.2	19.0	11.9	15.5	15.2	14.8	15.2

* Values estimated

Table 41.--*Maximum relative humidity at JQS weather station 393529107545900 (site 9), water year October 1981 to September 1982.*

RELATIVE HUMIDITY, IN PERCENT

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49.5	98.9	98.1	99.9*	98.8	96.6	63.9	59.4	93.9	92.7	69.3	45.9
2	98.1	94.2	96.4	99.9*	98.0	96.5	88.1*	62.6	40.2	91.7	86.3	22.6
3	98.4	90.1	93.7	99.9*	98.0	97.7	77.3*	80.6	54.4	44.5	90.2	18.5
4	97.5	59.4	95.4	99.9*	98.4	95.7	88.1*	93.6	87.9	19.3	90.9	19.7
5	99.7	52.0	55.5	99.9*	97.3	96.7	99.9*	93.9	30.5	18.4	85.1	79.4
6	95.7	39.1	58.8	64.1*	93.2	96.6	61.5*	75.0	59.2	93.3	45.8	72.0
7	88.9	98.2	61.2	99.9*	65.6	97.0	95.9*	29.9	57.1	94.0	47.4	64.9
8	97.4	97.7	47.0	99.9*	97.6*	75.5	74.2*	56.7	21.2	61.4	49.5	65.7
9	98.2	97.6	29.0	99.9*	97.4	50.0	77.5*	86.6	53.6	91.8	88.9	69.8
10	58.4	76.7	35.5	99.9*	98.6	60.2	80.8*	95.5	66.9	91.9	87.8	53.3
11	57.9	59.6	59.2	---	98.4	64.4	47.4*	94.7	21.9	67.2	88.6	77.0
12	98.1	80.3	98.9	---	97.9	98.9	93.9	94.8	26.5	49.4	91.0	79.9
13	97.6	65.6	98.4	---	99.3	98.7	93.1	95.2	24.3	48.6	88.5	79.7
14	98.3	56.6	99.5	---	64.6	66.2	78.0	93.8	19.7	53.4	79.5	95.4
15	97.6	61.3	99.3	---	97.8	94.5	24.8	94.3	77.1	48.6	79.6	78.7
16	98.6	60.4	98.4	---	96.5	95.6	95.4	91.2	92.7	17.5	71.4	48.4
17	98.6	49.2	98.8*	---	96.7	95.4	92.6	90.9	90.8	17.3	59.5	69.3
18	96.3	98.4	85.6*	---	96.5	94.5	30.9	91.7	93.4	58.1	64.2	68.7
19	93.1	99.4	72.7*	---	95.2	95.6	57.7	60.9	91.3	44.9	69.3	73.1
20	70.0	82.3	77.7*	---	96.1	96.0	58.2	94.4	89.3	24.8	56.1	78.9
21	88.7	77.4	94.7*	---	75.3	95.9	68.2	93.7	90.1	30.3	50.7	76.2
22	74.8	56.2	99.0*	---	76.0	95.9	57.6	52.5	92.1	57.6	69.1	57.4
23	46.1	98.4	84.1*	---	61.0	96.3	53.3	27.6	88.0	36.9	71.3	53.9
24	95.9	56.0	82.5*	99.9*	95.3	63.4	95.1	54.2	71.1	51.1	68.2	27.5
25	98.9	96.8	74.4*	99.9*	93.6	73.9	94.4	57.1	65.4	56.4	66.6	27.0
26	61.8	99.2	82.5*	---	93.4	84.7	59.9	52.0	88.5	78.5	80.0	77.0
27	45.3	74.0	97.6*	55.2*	96.4	95.2	90.9	57.0	93.0	65.5	75.7	77.8
28	97.0	99.7	80.9*	98.1	96.9	93.8	94.2	32.4	58.7	89.8	72.3	80.1
29	97.6	99.1	76.0*	98.7	---	93.5	48.7	53.0	27.7	91.2	77.5	79.2
30	98.7	98.8	96.1*	98.1	---	96.5	79.3	29.8	19.4	90.8	52.0	73.2
31	99.1	---	96.1*	90.7	---	96.3	---	94.6	---	90.9	48.1	---
TOTAL	2691.9	2372.6	2523.0*	2303.1*	2569.8*	2747.8	2220.9*	2239.5	1885.9	1867.8	2220.3	1890.3
MEAN	86.8	79.1	81.4*	96.0*	91.8*	88.6	74.0*	72.2	62.9	60.3	71.6	63.0
MAX	99.7	99.7	99.5	99.9*	99.3	98.9	99.9*	95.5	93.4	94.0	91.0	95.4
MIN	45.3	39.1	29.0	55.2*	61.0	50.0	24.8	27.6	19.4	17.3	45.8	18.5

* Values estimated

Table 42.--*Maximum relative humidity at JQS weather station 393529107545900 (site 9), water year October 1981 to September 1982*

RELATIVE HUMIDITY, IN PERCENT

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76.0	97.1	74.7	54.5	70.9	69.3	68.4	66.5	60.0	18.0	36.6	17.7
2	74.1	79.3	73.4	36.6	70.5	77.9	68.1	65.2	57.9	18.0	37.9	24.2
3	46.8	75.0	73.5	24.5	69.6	60.2	67.5	61.0	43.4*	18.0	43.0	52.7
4	31.6	70.3	72.4	26.1	62.7	63.0	68.0	60.9	33.9*	35.1	41.1	51.6
5	20.6	39.8	73.3	62.7	70.8	68.3	68.1	60.2	47.4*	21.4	32.3	20.8
6	76.5	22.9	64.2	65.5	71.1	69.0	61.9	20.9	56.2*	42.8	28.6	20.1
7	31.0	22.8	59.3	69.6	71.0	67.8	65.8	62.9	58.1*	37.2	22.1	45.2
8	76.6	22.7	67.5	71.4	69.7	68.5	54.8	60.3	45.0*	30.8	22.3	49.0
9	76.5	81.1	65.0	69.9	68.9	67.7	66.9	21.2	43.4*	41.1	20.6	18.4
10	74.2	81.1	91.4	69.7	69.5	64.8	67.2	22.4	37.4*	23.6	25.8	20.7
11	50.2	77.4	77.8	61.2	69.7	57.8	32.1	34.5	32.0*	23.1	40.2	19.5
12	61.0*	75.1	72.3	29.5	43.8	64.1	68.7	62.5	60.0*	19.1	49.9	19.3
13	74.1*	74.0	72.4	23.3	26.1	67.9	68.2	29.6	59.1*	17.8	50.4	19.0
14	77.0	73.2	72.9	23.1	69.2	57.3	67.8	28.7	40.3*	17.9	20.0	19.9
15	60.1	73.7	68.5	23.3	70.3	78.1	53.2	56.3	26.1*	19.1	25.3	22.7
16	60.5	42.2	65.6	24.3	62.9	69.3	58.1	59.0	24.0*	19.3	21.8	19.1
17	26.5	47.3	43.3	68.8	47.6*	69.2	25.1	61.1	19.3	17.0	33.5	18.1
18	26.6	36.2	63.4	70.7	70.1	69.9	24.2	58.0	20.1	17.2	48.9	18.5
19	30.0	76.6	52.5	70.7	37.0	69.2	60.3	63.5	17.6	19.0	48.8	22.9
20	72.6	93.9	24.2	68.7	69.5	68.6	60.5	62.5	18.0	41.0	43.1	27.0
21	24.4	75.0	24.1	70.8	69.6	68.5	58.4	59.7	18.7	43.9	33.2	22.8
22	23.1	75.9	73.3	70.7	64.6	62.9	63.7	58.1	17.7	48.0	18.3	21.3
23	23.9	75.5	73.5	71.3	46.5	69.0	56.5	55.9	17.5	51.5	18.6	48.7
24	22.3	71.5	73.2	70.7	44.9	69.0	39.0	23.9	51.1	44.3	19.8	50.3
25	26.1	39.4	68.3	70.6	45.0	69.9	21.1	19.9	50.2	49.6	22.1	46.3
26	73.8	73.0	60.8	70.7	69.6	69.4	23.5	19.4	50.8	49.5	19.1	24.5
27	77.6	73.2	65.5	67.6	69.2	68.7	23.9	19.1	52.8	42.8	18.8	48.2
28	87.6	41.5	70.5	69.9	68.4	69.2	61.0	18.6	52.5	38.2	18.1	20.0
29	75.2	73.3	70.0	70.2	---	69.4	65.8	18.7	38.1	18.4	23.8	50.8
30	72.8	75.0	52.1	71.2	---	68.8	63.2	21.1	26.3	17.4	41.0	52.5
31	79.9	---	59.4	70.8	---	59.5	---	54.2	---	20.0	18.6	---
TOTAL	1709.1*	1935.6	2018.1	1788.6	1738.7*	2091.8	1650.6	1385.8	1174.8*	920.1	943.9	911.6
MEAN	55.1*	64.5	65.1	57.7	62.1*	67.5	55.0	44.7	39.2*	29.7	30.4	30.4
MAX	87.6	93.9	91.4	71.4	71.1	78.1	68.7	63.5	60.0*	51.5	50.4	52.7
MIN	20.6	22.7	24.1	23.1	26.1	57.3	21.1	18.6	17.5	17.0	18.1	17.7

* Values estimated

Table 43.--*Minimum relative humidity at JQS weather station 393529107545900 (site 9), water year October 1981 to September 1982*

RELATIVE HUMIDITY, IN PERCENT

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.6	34.5	74.8	36.9*	78.9	35.5	30.6	17.0	18.2	15.9	13.1	13.8
2	15.6	34.8	68.1	17.9*	72.6	56.9	24.9*	30.2	16.2	18.3	12.8	13.4
3	86.5	20.7	63.5	42.2*	41.5	86.2	27.1*	24.4	17.3	15.8	41.7	13.0
4	91.8	21.3	22.4	70.0*	75.2	64.7	22.8*	48.1	21.3	14.1	29.1	12.9
5	72.7	19.7	22.1	11.0*	43.5	35.8	19.7*	49.7	15.6	14.1	13.5	13.6
6	39.6	22.6	34.7	8.0*	26.0	49.9	18.7*	21.2	15.8	16.3	13.9	43.0
7	29.0	34.1	27.1	7.2*	23.5	38.0	76.5	19.9	17.7	23.5	13.1	21.4
8	38.4	74.5	21.2	22.0*	64.3*	39.2	21.7	22.6	16.1	14.9	14.0	34.3
9	55.5	51.4	19.4	13.0*	54.1	25.6	20.7*	19.5	16.4	22.3	14.8	31.6
10	27.6	42.6	19.8	9.0*	80.6	34.9	16.8*	19.4	16.6	38.4	26.1	18.5
11	39.8	25.0	29.8	27.8*	50.8	35.3	19.7*	24.1	15.6	15.5	30.4	41.6
12	50.2	40.7	46.4	98.0*	64.9	54.2	22.2	52.0	15.6	17.0	51.7	45.9
13	69.6	36.0	57.2	98.1*	28.3	40.3	34.9	74.1	14.8	13.6	30.9	24.8
14	59.6	34.4	84.9	55.2	21.5	17.5	21.1	70.9	15.4	14.0	57.8	62.3
15	51.3	36.5	85.4	31.8*	24.5	59.2	19.6	43.0	15.7	12.6	35.1	47.2
16	77.1	30.4	56.8	20.0*	56.3	85.2	20.0	24.3	35.6	12.9	14.5	24.0
17	57.2	20.5	53.0*	44.3*	82.7	54.0	22.0	26.4	16.7	12.9	15.3	17.9
18	61.0	21.5	25.8*	---	49.1	58.2	19.8	26.7	23.6	15.3	18.3	21.0
19	25.2	52.8	17.9*	---	26.8	21.1	21.3	20.0	60.2	13.9	16.6	22.2
20	19.4	22.1	48.6*	---	57.8	67.1	24.3	29.2	30.4	12.4	14.1	23.8
21	32.0	22.7	64.3*	---	25.8	33.1	27.6	23.5	14.9	12.2	14.3	30.2
22	19.8	35.7	53.2*	---	20.9	26.2	19.6	17.4	18.3	11.6	16.7	15.6
23	19.8	36.1	42.2*	---	42.7	23.0	16.4	15.0	26.9	12.1	24.4	18.9
24	22.3	35.9	48.6*	42.1*	44.9	25.3	51.3	22.6	24.4	13.1	20.1	14.7
25	58.9	31.2	55.2*	20.0	30.9	29.8	19.3	20.2	16.2	13.2	26.4	14.6
26	34.7	63.4	33.3*	6.4*	20.4	20.5	20.3	17.9	15.8	13.8	54.9	22.0
27	25.6	47.0	50.7*	16.3*	28.6	33.2	32.3	16.1	23.2	23.0	21.4	29.7
28	26.2	34.2	36.9*	35.2	60.5	53.7	42.7	17.8	14.3	51.1	19.3	65.3
29	56.3	35.0	44.3*	17.9*	---	38.9	19.3	18.5	12.8	63.0	25.9	54.3
30	87.4	85.6	57.4*	61.7	---	43.0	26.4	20.1	13.6	56.4	17.1	20.6
31	24.1	---	40.1*	30.5	---	29.5	---	20.2	---	30.1	15.9	---
TOTAL	1388.7	1102.6	1405.2*	842.4*	1287.5*	324.4	779.5*	872.1	594.0	633.3	733.0	831.8
MEAN	44.8	36.8	45.3*	32.4*	46.0*	42.7	26.0*	28.1	19.8	20.4	23.6	27.7
MAX	91.8	85.6	85.4	98.1*	82.7	86.2	76.5*	74.1	60.2	63.0	57.8	65.3
MIN	15.6	19.7	19.4	6.4*	20.4	17.5	16.4	15.0	12.8	11.6	12.8	12.9

* Values estimated

Table 44.--*Minimum relative humidity at JQS weather station 393529107545900 (site 9), water year October 1982 to September 1983*

RELATIVE HUMIDITY, IN PERCENT

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42.0	69.9	62.4	22.8	21.0	58.6	20.6	23.8	17.2	14.7	13.6	12.6
2	28.1	27.3	66.0	21.0	50.6	44.5	21.4	21.9	16.4	14.8	14.2	13.2
3	18.2	32.5	64.4	19.0	21.7	19.5	21.1	19.5	15.3*	14.6	13.8	13.3
4	17.4	22.7	24.0	22.5	21.6	19.6	20.5	17.0	16.0*	15.0	14.2	15.5
5	16.3	20.6	22.0	23.6	34.6	31.6	23.9	17.9	16.1*	14.4	13.4	15.0
6	19.9	20.3	28.5	43.0	33.4	59.8	20.7	00.0	15.0*	00.0	12.2	13.6
7	17.3	19.7	24.3	42.0	56.0	21.3	21.3	20.8	13.5*	13.1	12.6	13.0
8	16.7	19.5	20.3	47.3	68.4	37.8	20.7	16.1	15.5*	14.3	12.1	15.0
9	50.8	20.3	21.9	26.6	60.5	20.4	21.2	17.1	16.1*	14.4	12.2	14.2
10	24.3	59.9	26.6	27.2	21.1	18.7	20.0	17.3	15.2*	14.5	12.6	14.1
11	21.9	59.5	45.5	21.7	21.0	16.3	20.1	17.4	13.9*	14.6	13.5	14.3
12	24.8*	66.8	20.9	19.4	19.8	18.9	21.4	18.8	22.7*	13.8	13.8	13.6
13	30.3*	20.0	21.0	17.3	21.2	19.0	18.7	20.5	15.8*	13.0	13.9	13.7
14	23.2	27.6	68.1	18.7	21.0	18.9	21.6	19.2	14.3	12.9	13.3	14.6
15	19.6	21.5	44.4	16.9	22.1	27.3	20.4	19.4	13.9*	13.9	13.3	14.7
16	17.0	23.4	41.6	20.0	19.4	57.3	19.6	19.3	13.8*	13.8	12.9	14.2
17	17.7	19.6	26.3	18.7	40.0*	21.5	19.6	17.4	14.8	13.2	13.0	13.9
18	17.6	22.8	24.1	37.3	20.6	57.3	16.6	25.0	14.5	12.8	13.9	14.3
19	17.6	32.4	23.3	53.3	19.7	31.7	18.0	19.6	13.5	13.2	14.2	15.0
20	20.6	60.0	22.0	41.4	22.3	22.1	18.2	15.6	13.9	13.0	14.7	18.7
21	18.5	43.6	21.8	22.8	19.5	22.9	14.7	18.8	13.8	13.4	13.8	15.6
22	18.1	59.6	21.5	23.9	19.9	20.4	20.3	17.8	13.9	13.5	13.7	15.5
23	18.2	67.6	65.5	49.1	18.7	21.7	18.3	15.9	13.5	16.4	14.0	16.6
24	17.1	24.7	65.3	69.2	17.7	21.8	16.6	16.1	13.9	13.9	14.4	16.3
25	16.4	18.1	39.5	26.0	18.0	26.4	17.5	14.6	14.9	13.6	14.3	15.3
26	26.1	36.6	25.6	60.0	21.1	38.0	19.0	14.2	15.3	15.3	13.4	15.1
27	49.5	21.3	21.7	22.4	61.0	22.6	19.7	13.1	16.3	16.9	13.2	16.1
28	64.1	18.4	31.0	19.9	21.7	20.8	20.9	13.0	16.7	14.0	13.1	15.9
29	28.7	32.6	28.4	51.6	---	20.8	19.1	13.7	15.3	12.9	14.8	15.9
30	31.8	68.1	25.8	23.1	---	19.0	19.6	14.4	14.6	12.6	13.8	22.9
31	33.5	---	26.5	21.6	---	20.9	---	16.5	---	14.5	13.2	---
TOTAL	783.2*	1056.8	1070.0	948.9	813.6*	877.6	591.4	531.5	455.4*	420.7	419.0	451.5
MEAN	25.3*	35.2	34.5	30.6	29.0*	28.3	19.7	17.1	15.2*	13.6	13.5	15.0
MAX	64.1	68.1	68.1	69.2	68.4	59.8	23.9	25.0	16.7	16.9	14.8	22.9
MIN	16.3	18.1	20.3	16.9	17.7	16.3	14.7	00.0	13.5	00.0	12.1	12.6

* Values estimated

Table 45.--*Solar radiation at JQS weather station 393529107559.00 (site 9), water year October 1981 to September 1982*

INCIDENTAL INTENSITY OF SOLAR RADIATION, IN CALORIES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	584.6	407.0	185.3	268.8*	360.2	319.3	448.9	714.4	632.1	645.7	720.1	718.0
2	626.9	591.5	205.7	280.7*	184.6	414.2	665.9*	635.0	656.9	671.0	688.6	717.2
3	216.9	651.8	191.6	371.1*	120.8	192.6	682.4*	652.1	724.5	717.8	581.8	717.0
4	238.5	698.0	336.4	210.7*	119.5	202.0	586.0*	543.2	717.7	719.3	609.7	719.6
5	461.1	709.7	536.4	248.5*	106.6	177.7	701.2*	321.6	660.8	717.5	719.3	409.4
6	322.3	363.1	182.3	291.6*	447.0	304.2	530.6*	504.4	660.0	669.2	720.7	344.6
7	122.0	604.5	416.8	---	386.6	72.2	364.6*	696.7	724.5	713.3	715.8	676.9
8	105.9	634.8	606.7	404.7*	352.2*	181.9	620.8*	649.7	697.6	719.5	721.2	447.3
9	200.2	411.3	642.0	394.6*	191.3	159.7	---	494.9	725.4	668.5	713.8	321.0
10	456.5	459.4	628.7	400.6*	92.1	204.0	698.1*	331.3	724.3	601.4	700.5	461.8
11	198.9	657.0	665.0	218.1*	312.8	307.5	616.5*	606.0	726.4	685.9	611.5	230.1
12	313.0	666.8	603.3	323.6*	184.5	281.6	468.1	649.6	726.9	707.8	606.3	560.8
13	186.3	640.8	615.9	586.4*	174.9	228.9	372.6	512.3	727.1	719.6	583.2	566.8
14	198.8	595.1	476.1	405.8*	277.5	48.4	608.4	613.1	726.6	711.9	678.9	222.5
15	196.4	551.5	255.2	406.5*	324.1	137.3	615.9	663.5	660.0	720.8	608.8	415.2
16	169.7	589.4	188.7	409.4*	187.2	403.8	572.4	671.0	690.2	716.6	614.7	485.6
17	120.4	628.2	381.3*	422.3*	133.3	378.8	682.2	668.1	694.7	699.1	558.7	424.2
18	160.5	161.0	385.6*	256.4*	216.1	384.3	658.6	684.2	698.2	672.1	618.9	316.0
19	167.7	194.8	183.5*	383.4*	147.9	219.0	562.7	671.8	589.6	712.8	717.4	515.5
20	571.6	578.8	324.3*	358.6*	97.3	244.0	605.9	621.1	677.4	702.3	708.9	274.7
21	593.3	640.8	---	139.9*	198.4	209.7	520.9	688.6	727.2	715.1	719.6	312.5
22	651.2	532.6	---	122.7*	253.4	258.7	559.0	725.9	668.7	703.8	352.8	700.0
23	660.6	610.9	274.8*	246.4*	133.3	304.4	364.3	725.4	698.1	722.2	516.1	465.7
24	642.6	534.3	208.5*	388.6*	237.4	189.1	376.4	725.1	659.3	612.5	559.4	719.0
25	490.0	94.6	227.6*	330.0*	634.7	325.0	599.2	695.8	705.1	679.9	415.6	718.4
26	625.3	84.4	212.8*	448.9*	465.9	371.9	694.3	710.6	556.0	587.8	464.6	448.4
27	291.0	514.2	83.8*	438.3*	243.8	537.9	657.1	722.7	692.1	649.9	621.1	607.8
28	513.2	145.0	192.3*	361.3	382.9	333.2	657.4	674.7	720.7	618.0	449.6	297.8
29	393.5	446.1	281.8*	211.8*	---	176.6	639.9	587.4	720.8	677.6	483.2	272.8
30	462.5	287.7	306.3*	193.8	---	216.9	675.2	520.1	720.3	662.9	449.2	536.4
31	279.0	---	181.7*	213.3	---	275.7	---	681.6	---	680.8	591.1	---
TOTAL	11420.4	14785.1	6736.1*	9736.8*	6966.3*	8060.5	16805.5*	19361.9	20709.2	21202.7	18821.1	14713.0
MEAN	368.4	492.8	421.0*	324.6	248.9*	260.0	579.5*	624.6	690.3	684.0	607.1	590.4
MAX	660.6	709.7	665.0	586.6*	634.7	537.9	701.2	725.9	727.2	722.2	721.2	719.6
MIN	105.9	84.4	83.8*	122.7*	92.1	48.4	364.3	321.6	556.0	587.8	352.8	222.5

* Values estimated

Table 46.--*Mean wind velocity at JQS weather station 393529107545900 (site 9), water year October 1981 to September 1982*

WIND VELOCITY, IN MILES PER HOUR

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	5.2	5.8	5.6*	7.5	4.0	12.4	5.4	4.7	5.1	4.2	5.2
2	5.3	6.7	6.9	5.4*	9.2	12.3	9.5*	4.3	8.7	8.1	6.1	4.7
3	8.6	4.4	10.0	9.8*	4.9	13.5	7.9*	4.6	6.5	5.5	5.2	4.8
4	10.2	3.2	3.6	7.2*	6.3	5.8	11.9*	9.0	5.1	6.5	5.1	5.6
5	7.8	4.1	7.0	8.4*	2.4	5.0	5.0*	6.4	9.0	8.0	4.5	4.8
6	4.3	4.0	5.3	6.5*	2.9	6.1	10.5*	6.7	11.9	8.0	3.7	4.8
7	5.5	4.3	5.1	6.8*	4.1	4.5	8.5*	6.2	7.2	3.7	4.9	3.6
8	12.5	4.8	4.4	10.7*	4.0*	9.8	5.6*	5.7	9.5	4.7	4.9	3.5
9	5.1	3.2	4.8	9.8*	8.4	8.7	5.6*	8.9	8.2	5.6	5.0	3.1
10	5.8	3.6	8.9	10.0*	11.7	10.1	5.0*	13.0	6.2	5.7	4.4	2.9
11	14.4	3.1	5.4	6.0*	7.3	10.3	7.9*	9.8	4.6	4.1	5.7	4.1
12	9.6	3.8	4.5	8.6*	5.4	12.7	13.3	6.2	5.2	4.5	5.4	4.9
13	8.2	6.6	7.2	9.6*	5.9	11.8	13.9	6.7	5.8	3.9	4.9	3.7
14	8.5	8.5	5.3	5.1*	10.4	3.6	6.5	13.2	7.3	5.2	5.0	3.9
15	5.5	9.2	8.9	4.9*	8.5	7.8	8.7	6.1	5.8	5.7	5.0	4.9
16	7.1	6.3	7.7	6.1*	5.6	13.3	8.0	4.2	5.2	7.2	4.1	8.2
17	6.8	7.0	4.8*	5.9*	7.3	12.8	5.7	4.5	4.8	7.9	3.2	5.9
18	4.3	10.0	6.4*	4.2	3.5	11.8	7.8	3.6	4.8	6.3	4.8	4.0
19	3.3	4.9	6.8*	7.9*	5.3	14.6	9.8	6.4	4.8	4.5	3.8	4.0
20	5.4	4.0	11.2*	5.1*	5.4	14.1	8.1	7.0	4.4	4.4	4.6	5.1
21	5.5	5.7	5.4*	5.0*	3.8	7.1	7.3	5.5	4.7	4.6	4.4	3.5
22	4.4	6.7	5.4*	5.0*	3.7	5.0	7.2	4.7	5.8	4.8	3.5	4.2
23	3.7	8.5	4.1	6.3	9.8	4.2	7.2	5.7	4.2	4.6	3.5	5.7
24	7.0	11.1	8.2*	6.8*	13.0	5.9	4.7	4.8	4.5	5.7	3.6	4.1
25	5.3	15.2	9.0*	9.5*	4.3	8.6	5.9	7.1	5.2	4.9	3.4	2.5
26	5.1	6.1	8.6*	7.0*	2.9	4.7	4.0	6.1	6.5	4.9	5.1	4.0
27	7.2	7.8	8.7*	10.3*	5.0	6.5	5.3	5.6	4.6	5.1	3.8	11.9
28	9.2	5.1	6.7*	9.6	6.7	5.8	4.9	8.2	4.9	3.3	3.3	11.1
29	10.1	4.5	10.0*	7.8*	---	11.3	4.8	9.3	6.9	4.5	5.6	9.2
30	7.3	5.0	11.3*	9.2	---	16.1	6.2	8.4	6.2	4.0	4.1	7.1
31	5.7	---	5.6*	5.1	---	14.6	---	5.5	---	4.5	4.3	---
TOTAL	213.7	182.5	213.1*	225.2*	175.2*	282.4	229.0*	208.8	182.9	165.5	139.2	155.1
MEAN	6.9	6.1	6.9*	7.3*	6.3*	9.1	7.6*	6.7	6.1	5.3	4.5	5.2
MAX	14.4	15.2	11.3*	10.7*	13.0	16.1	13.9	13.2	11.9	8.1	6.1	11.9
MIN	3.3	3.1	3.6	4.2*	2.4	3.6	4.0	3.6	4.2	3.3	2.2	3.5

* Values estimated

Table 47.--*Mean wind velocity at JQS weather station 393529107545900 (site 9), water year October 1982 to September 1983*

WIND VELOCITY, IN MILES PER HOUR

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	9.9	11.2	2.0	3.5	10.2	13.3	8.3	4.9	6.2	4.3	4.3*
2	5.4	3.4	11.4	1.8	6.3	11.9	6.4	8.8	7.3	7.4	2.9	6.2*
3	3.5	5.6	3.2	3.2	3.2	9.5	5.3	3.9	8.0*	9.5	2.8	7.4*
4	6.9	3.1	4.4	5.8	4.7	6.7	5.8	4.8	5.6*	6.3	3.8	4.3*
5	10.7	4.2	4.3	6.2	6.1	7.2	10.7	4.6	6.8*	3.3	4.3	5.6*
6	4.0	4.7	5.5	7.6	3.0	6.7	7.4	8.7	5.0*	5.9	3.4	3.7*
7	6.6	7.5	6.3	9.9	7.7	7.1	3.8	7.1	3.7*	4.5	2.6	5.6*
8	9.8	8.7	3.5	2.5	10.6	4.6	3.0	3.3	5.0*	6.4	2.9	6.8*
9	5.7	11.2	3.0	11.6	10.5	3.5	4.1	10.8	5.0*	7.5	2.1	7.4*
10	6.8	6.5	3.5	4.7	8.8	3.0	4.8	13.0	3.7*	6.3	5.0*	5.0*
11	5.5	7.8	4.2	3.8	6.9	3.6	10.9	11.3	7.4*	3.8	4.3*	5.0*
12	6.2*	5.8	2.0	2.7	2.2	7.0	11.3	17.7	4.3*	4.1	3.7*	5.6*
13	5.6*	3.5	6.4	3.5	6.0	6.1	11.0	10.0	5.0*	3.2	3.7*	5.0*
14	4.1	11.8	8.2	3.7	9.4	7.5	10.1	5.4	3.7*	3.9	3.7*	6.2*
15	3.2	3.0	5.7	3.2	5.5	8.1	3.9	4.0	5.0*	7.5	3.7*	3.7*
16	4.8	6.4	7.4	4.2	3.0	9.4	3.5	7.4	6.2*	8.2	4.3*	5.0*
17	4.5	4.9	11.4	4.2	4.3*	3.5	3.6	4.9	6.4	8.0	5.0	6.8
18	6.3	5.6	12.1	3.4	3.5	8.5	2.5	11.9	4.5	7.3	5.0	7.4
19	9.3	9.3	5.6	5.5	9.1	6.1	9.6	6.3	8.7	4.4	4.3*	10.0*
20	4.2	14.6	7.1	4.3	11.5	4.0	4.7	4.2	8.8	5.9	4.3*	5.6*
21	3.9	5.8	11.1	4.2	5.5	6.4	5.1	7.8	6.8	4.9	4.3*	4.3*
22	3.4	9.6	14.9	4.4	5.1	4.6	7.5	5.8	8.5	3.8	3.7*	4.3*
23	2.6	9.3	7.6	6.2	2.5	6.4	4.1	2.8	4.9	2.8	5.0*	6.2*
24	3.0	4.5	11.9	4.4	2.3	7.9	3.5	4.2	4.4	2.8	4.3*	5.0*
25	5.2	3.1	13.4	8.0	4.1	9.1	11.5	3.6	3.7	4.5	3.7*	3.7*
26	5.7	5.3	5.8	3.5	5.8	11.8	13.9	2.7	4.4	4.4	3.0*	5.0*
27	10.0	5.2	3.4	7.5	11.2	6.2	5.0	3.6	2.3	3.2	3.7*	8.9*
28	1.0	4.2	7.5	9.1	9.6	6.2	9.3	4.8	2.8	3.3	5.0*	5.6*
29	1.9	5.6	2.8	3.9	---	7.0	4.9	5.6	3.6	4.2	4.3*	6.2*
30	5.9	10.7	3.5	8.4	---	3.6	5.9	5.4	5.0	5.4	3.7*	6.8*
31	8.6	---	5.6	3.1	---	11.7	---	5.8	---	4.1	3.0*	---
TOTAL	169.5*	200.9	213.9	156.5	171.9*	214.9	206.3	208.6	161.2*	162.8	119.8*	173.8*
MEAN	5.5*	6.7	6.9	5.0	6.1*	6.9	6.9	6.7	5.4*	5.3	3.9*	5.8*
MAX	10.7	14.6	14.9	11.6	11.5	11.9	13.9	17.7	8.8	9.5	3.0*	10.0*
MIN	1.0	3.0	2.0	1.8	2.2	3.0	2.5	2.7	2.3	2.8	2.1*	3.7*

* Values estimated

Table 48.--*Mean wind direction at JQS weather station 393529107545900 (site 9), water year October 1981 to September 1982*

MEAN WIND DIRECTION, IN DEGREES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	203.2	120.3	249.8	---	237.2	228.1	193.3	187.7	176.3	186.0	185.4	219.1
2	224.8	165.3	226.0	---	312.9	198.9	253.8*	195.1	220.3	181.0	179.1	198.1
3	195.7	171.4	222.6	---	267.2	210.3	197.3*	196.7	239.9	227.3	204.9	200.4
4	199.1	182.3	201.1	---	202.1	270.3	243.3*	208.0	229.7	225.1	213.1	225.5
5	202.7	198.3	213.0	---	222.7	257.9	199.6*	228.1	213.6	212.8	198.0	179.8
6	208.5	219.3	225.5	---	217.5	287.1	217.8*	267.3	208.0	222.0	171.2	161.2
7	208.9	206.5	225.5	---	203.5	217.4	256.3*	246.6	221.6	191.8	179.5	167.8
8	194.0	208.4	222.0	---	---	219.8	259.7*	227.5	196.8	210.1	169.5	239.4
9	218.5	174.3	219.7	---	235.3	222.6	208.7*	202.2	233.5	198.5	222.8	211.2
10	209.3	201.1	207.8	---	219.2	219.2	193.6*	189.1	170.1	203.0	191.4	211.4
11	188.9	177.9	205.1	---	231.3	220.1	210.9*	188.2	239.3	166.7	156.6	172.0
12	198.9	197.0	229.5	---	178.9	202.5	207.2	191.7	204.9	179.4	199.6	252.7
13	177.6	202.7	218.1	---	216.0	239.4	242.1	202.3	201.2	189.4	188.3	182.4
14	200.7	202.8	234.2	---	220.7	203.0	222.4	263.4	204.2	157.1	201.5	196.1
15	156.4	215.3	218.5	---	217.3	206.5	225.8	259.5	186.6	228.5	220.6	159.0
16	173.7	219.7	233.5	---	211.1	212.2	243.4	211.3	346.9	218.1	143.5	191.3
17	222.1	212.9	---	---	221.1	183.7	252.0	242.5	218.1	220.6	174.2	192.9
18	186.6	233.0	---	---	182.6	170.7	227.3	166.1	188.3	221.3	159.8	190.6
19	175.3	229.5	---	---	162.0	178.0	242.3	178.0	117.6	227.9	207.9	179.6
20	230.6	196.2	---	---	233.2	228.8	238.9	215.2	144.9	176.4	177.0	134.4
21	213.4	221.8	---	---	211.0	240.1	145.8	255.2	177.5	204.5	203.6	199.7
22	233.7	214.7	---	---	174.6	234.0	122.4	147.4	190.7	180.1	209.3	219.5
23	237.0	221.9	---	---	204.3	207.8	146.3	207.5	211.0	183.5	205.2	225.9
24	224.4	209.6	---	---	215.4	226.5	232.4	216.3	172.5	202.7	223.5	223.3
25	230.5	206.2	---	---	229.6	239.7	249.8	250.4	195.9	181.7	223.3	231.9
26	214.3	244.5	---	---	188.5	223.6	220.2	218.0	218.6	152.1	193.6	219.0
27	209.8	192.8	---	---	199.8	181.7	195.8	225.5	202.0	160.8	225.0	187.4
28	204.5	188.4	---	232.7	220.5	236.4	196.4	200.9	178.5	199.4	182.8	195.1
29	180.5	135.5	---	---	---	184.2	204.4	228.9	211.0	207.7	216.6	188.2
30	243.8	244.2	---	248.0	---	209.8	254.3	210.8	195.5	216.0	244.1	165.0
31	212.5	---	---	238.5	---	228.4	---	231.7	---	187.4	209.5	---

* Values estimated

Table 49.--*Mean wind velocity at JQS weather station 393529107545900 (site 9), water year October 1982 to September 1983*

MEAN WIND DIRECTION, IN DEGREES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	202.1	216.3	158.6	174.0	225.7	215.8	256.7	209.9	129.5	220.0	205.7	186.3
2	217.1	268.4	225.8	149.7	293.7	202.9	251.6	215.7	223.1	219.5	183.2	204.3
3	198.1	268.1	209.2	224.4	181.4	185.7	210.0	272.8	---	214.6	164.2	227.0
4	227.2	182.6	136.8	233.8	107.7	108.7	227.2	228.9	---	250.6	175.3	236.6
5	202.3	229.7	240.3	230.8	207.1	207.5	77.8	195.0	---	178.2	136.7	235.7
6	232.9	227.5	207.0	224.0	243.1	281.0	181.8	135.4	---	223.8	116.6	199.4
7	201.1	211.8	226.4	224.0	198.1	259.6	193.4	248.4	---	201.7	157.9	185.4
8	256.5	198.9	154.1	228.3	205.5	237.2	217.4	198.5	---	214.6	180.4	193.2
9	253.3	188.3	178.5	237.4	222.1	259.7	250.1	204.8	---	180.7	194.6	217.8
10	126.9	188.2	194.4	247.1	234.5	190.5	239.5	222.4	---	231.8	175.5	191.7
11	175.7	175.6	241.0	218.7	231.8	192.0	206.1	188.2	---	189.9	197.6	194.2
12	171.7*	254.1	185.2	169.0	200.2	216.9	196.9	200.7	---	210.9	200.1	179.6
13	193.8*	186.9	216.5	226.1	217.8	231.3	243.1	222.2	---	201.6	182.6	195.0
14	209.0	234.7	238.6	202.4	244.9	211.4	314.4	251.5	---	201.8	204.5	212.4
15	191.4	145.2	224.4	204.8	221.2	261.7	228.9	218.8	---	228.0	179.4	207.0
16	173.4	224.6	218.6	198.9	218.4	294.3	221.4	222.4	---	190.8	196.1	204.9
17	224.3	209.3	212.9	198.8	167.5*	184.8	239.9	153.5	222.6	192.2	182.3	230.5
18	222.7	218.8	227.4	218.3	206.9	187.4	221.7	268.2	211.7	174.9	195.7	210.4
19	228.8	203.6	238.4	207.3	212.4	229.2	212.0	212.2	215.1	197.3	156.8	239.5
20	225.7	217.9	216.9	188.6	252.3	237.6	219.6	173.9	225.5	159.4	202.4	236.4
21	202.1	224.6	209.0	167.1	220.3	269.9	212.8	258.0	201.0	114.8	172.7	188.1
22	219.7	212.6	209.8	215.9	203.3	201.9	217.6	233.4	200.3	189.5	192.4	203.4
23	170.1	234.6	170.2	210.5	184.6	252.6	257.5	229.2	216.6	194.5	209.1	211.5
24	201.2	98.4	258.1	207.8	174.4	216.3	234.2	208.5	129.6	195.7	169.2	208.4
25	208.8	201.5	233.6	213.6	211.6	175.6	194.2	223.7	188.5	202.1	212.9	164.5
26	191.0	207.9	166.1	243.1	212.4	241.2	230.1	155.2	155.2	208.3	183.7	197.0
27	196.8	165.2	207.4	205.5	204.2	290.4	232.3	143.3	200.5	212.4	161.4	201.5
28	258.1	225.1	289.6	202.1	209.2	218.6	221.6	180.5	229.0	210.3	207.0	194.9
29	245.2	224.1	222.9	233.7	---	236.3	216.2	131.7	195.4	181.2	189.9	189.9
30	208.8	197.0	220.8	187.5	---	222.9	202.0	161.6	222.7	128.7	194.0	182.9
31	206.1	---	154.2	154.4	---	221.9	---	245.2	---	201.5	170.8	---

* Values estimated

Table 50.--*Precipitation data at East Middle Fork Parachute Creek precipitation gage (site 6), water year October 1981 to September 1982*

[Station: East Middle Fork Parachute Creek Latitude and longitude: 39°37'15" 108°01'46"]

PRECIPITATION DATA, IN INCHES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0.02	0.07			0.01		0.01	
2	0.35			0.17	0.02	0.20	0.06				0.14	
3	0.38			0.07	0.10	0.14		0.02				
4	0.18			0.03	0.01	0.02						0.20
5	0.12				0.01	0.03				0.05		0.12
6						0.01						
7		0.03		0.10			0.26					
8	0.23									0.03	0.02	0.12
9				0.05	0.05						0.33	
10				0.10	0.04			0.02			0.10	0.32
11	0.35			0.15	0.01	0.40		0.03			0.04	0.32
12	0.12			0.02		0.05					0.33	0.15
13	0.03		0.14	0.07				1.10			0.06	0.61
14						0.07		0.39				0.24
15	0.66	0.20	0.12			0.14	0.05		0.08		0.14	
16	0.10		0.18		0.09	0.13			0.02		0.27	
17					0.01				0.03		0.08	
18						0.04						0.23
19				0.06		0.04			0.02			0.06
20			0.33			0.37		0.06				0.02
21			0.06	0.09		0.20						
22				0.07					0.13		0.02	
23				0.02			0.22					
24	0.15		0.01				0.08					
25	0.01	0.28	0.04								0.06	0.05
26			0.34	0.05		0.07						0.06
27		0.21				0.09				2.20		0.70
28	0.12	0.01		0.15						0.02		0.41
29	0.35	0.17	0.07	0.13		0.17						0.03
30	0.24	0.11	0.12			0.04			0.24	0.20		0.76
31	0.09			0.11				0.10				
SUM	3.48	1.01	1.41	1.44	0.36	2.28	0.67	1.72	0.53	2.50	1.60	4.40

Table 51.--*Precipitation data at East Middle Fork Parachute Creek precipitation gage (site 6), water year October 1982 to September 1983*

[Station: East Middle Fork Parachute Creek Latitude and longitude: 39°37'15" 108°01'46"]

PRECIPITATION DATA, IN INCHES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.02							0.50				
2							0.40	0.29			0.11	
3						0.06	0.10	0.04				0.07
4					0.10	0.42	0.04	0.02			1.36	0.22
5					0.10	0.15				0.05		
6					0.03		0.06	0.13	0.13			
7	0.10			0.10	0.03	0.01	0.18			0.04		0.10
8	0.17			0.02	0.06				0.31			
9					0.03						0.02	
10					0.05						0.07	
11						0.02	0.08				0.05	
12							0.02		0.75		0.77	
13						0.06			0.06			
14					0.02	0.32		0.04				
15					0.01	0.06		0.14				
16					0.04	0.02		0.90		0.02		
17				0.04		0.06		0.63		0.03	0.11	
18				0.01	0.70	0.07		0.21		0.05		
19						0.01		0.10		1.50		
20							0.15			0.05		
21				0.06			0.22	0.16				
22				0.02			0.02			0.41		
23						0.10			0.05			0.21
24				0.08	0.05	0.23			0.07	0.13		
25					0.03	0.15			0.45			
26					0.02				0.09			
27					0.12	0.13	0.15		0.26			0.12
28						0.02	0.08		0.13			
29				0.02			0.28					
30							0.41			0.01		
31						0.33						
SUM				0.35	1.39	2.22	2.19	3.16	2.30	2.29	2.49	0.72

Clock stopped. Total for period = 1.25 in.

Table 52.--*Precipitation data at East Fork Parachute Creek precipitation gage (site 7), water year October 1981 to September 1982*

[Station: East Fork Parachute Creek Latitude and longitude: 39°33'20" 107°58'12"]

PRECIPITATION DATA, IN INCHES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.01			0.74	0.03	0.53	0.19				0.13	
2	0.17			0.09	0.02	0.29					0.08	
3	0.87				0.17	0.19						
4	0.35			0.05	0.05	0.10	0.01					0.30
5	0.10			0.45		0.01						0.20
6		0.04		0.32								
7							0.13					
8	0.18				0.05						0.07	0.14
9					0.20							
10											0.14	0.13
11	0.40			0.01	0.03	0.65	0.04				0.22	0.32
12	0.18			0.02				0.63			0.05	0.15
13	0.11		0.14	0.07				0.21			0.13	1.09
14	0.01					0.15						0.16
15	0.82		0.13			0.37	0.06		0.04			0.01
16	0.11		0.16		0.13	0.28					0.03	
17	0.01	0.12	0.02						0.18			
18	0.01	0.08				0.25			0.03			
19				0.15		0.09		0.03	0.02			0.06
20				0.05								0.10
21			0.54	0.20								
22			0.10	0.21								
23					0.01		0.42			0.08		
24	0.18		0.07				0.04				0.16	
25	0.01	0.29	0.06								0.02	0.10
26			0.17	0.04		0.31	0.03					0.08
27		0.31	0.47		0.01		0.18					0.62
28	0.12	0.07		0.50		0.25				0.03		0.33
29	0.55	0.20				0.40						0.65
30	0.35	0.17	0.31					0.14				0.75
31			0.08	0.12								
SUM	4.54	1.28	2.25	3.02	0.70	3.87	1.10	1.01			1.03	5.19

Clock stopped. Total for period = 0.44 in.

Table 53.--*Precipitation data at East Fork Parachute Creek precipitation gage (site 7), water year October 1982 to September 1983*

[Station: East Fork Parachute Creek Latitude and longitude: 39°33'20" 107°58'12"]

PRECIPITATION DATA, IN INCHES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.02	0.05	0.35		0.01	0.07	0.09	0.42	0.05	↕ Total for period 0.15 in.		
2		0.04	0.10			0.01	0.29	0.22			0.04	
3							0.12	0.06			0.21	0.35
4					0.12	0.23		0.01			0.05	
5					0.21	0.15						
6	0.01				0.02						0.03	
7				0.12	0.15	0.05						
8	0.02	0.40		0.02	0.20	0.01	0.19					
9	0.15	0.45	0.10	0.01	0.15		0.01					
10	0.30	0.85			0.05							
11		0.39			0.01	0.02	0.14		0.01			
12		0.01			0.01	0.01	0.58		0.54			
13	0.06	0.08	0.36			0.05			0.05			
14			0.01		0.03	0.31						
15						0.16		0.15				
16					0.05	0.02		1.40				
17				0.01		0.35		0.16			0.08	
18	0.01	0.13		0.12	0.30	0.25	0.03	0.35			0.01	
19		0.52			0.51	0.02	0.14	0.01			0.39	
20		0.24					0.21					
21		0.01		0.01			0.02	0.10				
22		0.11	0.07	0.10		0.05				0.04		
23			0.80	0.05		0.27			0.10	0.28		
24	0.03		0.11	0.15		0.42			0.08		0.02	
25		0.13		0.08	0.22	0.41			0.50	0.44		
26	0.95				0.15				0.11			
27	0.28		0.01		0.10		0.33		0.18	0.03		
28				0.05	0.37	0.21	0.16		↕ Pen did not record.			
29		0.03		0.08			0.40	0.07			0.08	
30	0.52	0.85					0.80					
31	0.10					0.21						
SUM	2.45	4.29	1.91	0.80	2.66	3.28	3.51	2.95		0.94	0.91	0.35

Table 54.--*Precipitation data at JQS precipitation gage (site 8) for water year October 1981 to September 1982*

[Station: JQS Latitude and longitude: 39°35'34" 107°54'59"]

PRECIPITATION DATA, IN INCHES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				0.50	0.02	0.36	0.17	0.05	0.02	0.01	0.10	
2	0.20			0.12		0.35	0.14	0.01			0.09	
3	0.60			0.06	0.20	0.15		0.12	0.02			
4	0.18			0.10	0.05			0.04				0.40
5				1.02		0.01	0.01			0.12		0.20
6		0.04				0.02	0.01					
7		0.04				0.02	0.25			0.03		
8	0.17				0.04					0.30		0.05
9					0.16			0.08		0.02	0.60	
10				0.07	0.02			0.03			0.32	0.10
11	0.43				0.05	0.50		0.04			0.01	0.30
12	0.25			0.07		0.13		0.80			0.20	0.15
13	0.11		0.17					0.44			0.05	0.71
14				0.01		0.21						0.33
15	0.77			0.08		0.34	0.06				0.08	
16	0.02		0.54		0.14	0.32	0.01			0.02		
17	0.12	0.34	0.03		0.02	0.02			0.12			
18	0.01					0.29			0.05			0.05
19			0.02	0.25		0.14		0.04				0.08
20			0.18	0.10							0.04	0.04
21			0.36	0.37							0.12	
22			0.06	0.10					0.05			
23					0.02		0.37		0.04	0.01		
24	0.30		0.16				0.01					
25	0.01	0.25	0.08						0.01		0.04	0.10
26			0.58	0.06		0.21	0.05					0.08
27		0.28	0.02	0.02	0.02	0.03	0.25			0.36		0.38
28	0.15			0.49		0.20				0.05		0.16
29	0.70	0.25	0.17	0.03		0.63			0.01			0.63
30	0.27	0.25	0.35			0.04		0.37	0.28	0.15		0.87
31			0.35	0.15				0.02				
SUM	4.29	1.45	3.15	3.51	0.74	3.97	1.33	2.04	0.60	1.07	1.65	4.71

Table 55.--*Precipitation data at JQS precipitation gage (site 9), water year October 1982 to September 1983*

[Station: JQS Latitude and longitude: 39°35'34" 107°54'59"]

PRECIPITATION DATA, IN INCHES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.02	0.16	0.30			0.06	0.06	0.80	0.05			
2		0.02						0.31			0.03	
3		0.05					0.50	0.08			1.12	0.40
4					0.03	0.25	0.01	0.06			0.02	0.10
5	0.05	0.13			0.30	0.28					0.02	
6	0.02	0.25			0.07	0.07		0.18	0.16			
7				0.11	0.09							
8				0.02	0.22	0.02	0.05		0.57	0.09		0.18
9		0.23	0.05	0.07	0.05		0.19		0.03	0.02	0.05	
10	0.03	0.05	0.07					0.04	0.10			
11	0.12		0.01				0.10	0.03	0.05		0.10	
12	0.18	0.01				0.06	0.35		0.56		0.41	
13	0.07		0.17			0.01			0.30		0.05	
14			0.17			0.38		0.22				0.05
15			0.01			0.12		0.47				
16		0.02			0.07			1.25				
17						0.31		0.37			0.45	
18				0.08	1.03	0.25		0.37				
19				0.01		0.01	0.03	0.02			0.44	
20				0.01		0.02					0.04	
21				0.02			0.20	0.10				
22			0.01	0.10		0.02	0.03					
23		0.02	0.49	0.09		0.36			0.03			0.14
24	0.02		0.07	0.03		0.37		0.03	0.05			
25			0.01	0.15	0.14	0.54			0.34	0.60		
26	0.42			0.01	0.11				0.36			0.11
27		0.03		0.02	0.05		0.15		0.16	0.04		
28				0.05	0.45	0.24	0.42		0.43	0.02		
29	0.08	0.07		0.02			0.18	0.05	0.02			0.03
30	0.09	0.52		0.08			0.92					0.48
31	0.27					0.28						
SUM	1.37	1.56	1.36	0.87	2.61	3.65	3.19	4.38	3.21	1.52	2.73	1.49

Table 56.--*Snow-course data at JQS weather station 393529107545900, snow course (site 10), for selected dates during 1982 and 1983*

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

Date (month-day-year)	Depth (inches)	Water content (inches)	Density (percent)
1-26-82	35.1	9.4	26.8
3-12-82	38.1	8.6	22.6
4-01-82	45.8	12.0	26.2
11-29-82	26.9	8.1	30.1
2-16-83	41.9	10.8	25.8
5-05-83	43.5	17.1	39.3

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