

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

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09183500 MILL CREEK AT SHELEY TUNNEL, NEAR MOAB, UT

LOCATION.--Lat 38°28'59", long 109°24'12", in NW^{1/4}NW^{1/4}SW^{1/4}, sec. 4, T. 27 S., R. 23 E. in San Juan County, Hydrologic Unit 14030005 on the left bank 1,000 ft above Sheley Tunnel, and 9 mi southeast of Moab.

DRAINAGE AREA.--26.8 mi².

PERIOD OF RECORD.--October 1954 to September 1959, October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,500 ft above NGVD of 1929, from a topographic map. Prior to October 1, 1987 at different site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Small diversion for irrigation above the station. Sheley Tunnel, which diverts water from Mill Creek for K. E. McDougald Reservoir, is located 1,000 ft below the gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,080 ft³/s, Aug 8, 1993, gage height, 7.66 ft from floodmarks, from rating curve extended above 340 ft³/s, on basis of slope-area measurement of peak flow; minimum recorded, 2.1 ft³/s, Apr 5, 1955 and Aug 26, 27, 28, 2002.

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

	Date	Time	Discharge (ft ³ /s)	Gage height (ft)		Date	Time	Discharge (ft ³ /s)	Gage height (ft)
	Jun 29	2145	*131	*3.61					No other peaks above base.

Minimum daily discharge, 3.7 ft³/s, on several days in Oct.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	4.0	4.6	4.4	4.1	3.9	5.9	8.0	15	e10	6.2	5.6
2	3.9	4.5	4.5	4.4	4.1	4.0	5.7	8.4	15	9.8	6.2	5.6
3	4.1	4.6	4.4	4.4	4.1	3.9	5.8	8.9	18	9.6	6.3	5.5
4	4.3	4.6	4.4	4.2	4.2	4.0	5.6	12	19	9.3	6.1	6.4
5	4.1	4.6	4.4	e4.1	4.1	4.0	8.2	16	21	9.3	6.2	e6.3
6	4.1	4.5	4.5	e4.0	4.0	4.0	5.6	21	23	9.1	6.1	e6.0
7	4.1	4.6	4.6	4.4	e4.0	4.0	5.9	22	25	8.9	5.9	e5.9
8	3.9	4.5	4.8	4.4	4.1	4.0	5.9	22	26	8.6	5.8	e6.2
9	3.8	4.5	4.3	e4.0	4.0	4.1	6.1	25	24	8.5	5.8	5.7
10	3.8	4.8	4.3	e4.0	e4.0	4.2	5.9	25	22	8.3	5.6	5.7
11	3.8	4.6	4.5	e3.9	4.0	4.2	5.5	27	20	8.2	5.6	5.6
12	3.8	4.6	4.5	e4.0	e3.8	4.3	5.3	22	18	8.0	5.5	5.6
13	3.8	4.7	4.5	e4.1	e3.9	4.3	5.2	18	16	7.9	5.5	5.5
14	3.8	4.6	4.6	e4.3	e4.0	4.4	5.5	15	14	7.7	5.5	5.5
15	3.8	4.6	4.7	4.3	4.1	4.4	5.3	13	13	7.8	5.8	5.3
16	3.8	4.5	e4.4	4.3	4.1	4.4	5.5	14	13	7.9	6.2	5.3
17	3.8	4.6	e4.5	4.2	4.1	4.5	5.7	17	13	7.8	6.6	5.2
18	3.7	4.4	4.5	4.2	4.1	4.5	6.1	17	13	7.6	6.5	5.2
19	3.7	4.6	4.6	4.2	4.1	4.6	5.7	21	12	7.5	6.6	11
20	3.7	4.6	4.6	4.2	4.0	4.8	5.4	23	12	7.6	6.3	8.7
21	3.7	4.5	4.6	4.1	4.0	5.2	5.3	22	12	7.4	6.1	7.7
22	3.7	4.5	4.6	4.2	4.0	5.4	6.5	21	11	7.0	6.1	7.3
23	3.7	e4.4	4.4	e4.2	4.0	5.7	7.1	19	11	6.8	6.1	6.9
24	3.8	e4.2	4.4	4.2	4.0	6.0	6.1	18	10	6.7	6.0	6.9
25	3.7	4.3	4.5	4.2	4.0	6.4	6.1	17	10	6.6	5.9	6.8
26	3.8	4.2	4.7	e4.1	3.9	6.5	6.4	16	10	6.7	5.9	6.7
27	3.9	4.0	4.3	e4.2	4.1	6.3	6.7	17	11	6.7	5.8	6.6
28	3.9	4.1	e4.0	4.2	4.1	5.9	7.4	18	10	6.6	5.8	6.4
29	3.9	4.4	4.0	4.1	4.0	5.6	8.7	20	14	6.4	5.7	7.1
30	3.9	4.6	4.7	4.1	---	5.5	10	18	e13	6.3	5.7	7.1
31	3.9	---	4.5	4.2	---	5.6	---	16	---	6.1	5.7	---
TOTAL	119.4	134.2	138.9	129.8	117.0	148.6	186.1	557.3	464	242.7	185.1	191.3
MEAN	3.85	4.47	4.48	4.19	4.03	4.79	6.20	18.0	15.5	7.83	5.97	6.38
MAX	4.3	4.8	4.8	4.4	4.2	6.5	10	27	26	10	6.6	11
MIN	3.7	4.0	4.0	3.9	3.8	3.9	5.2	8.0	10	6.1	5.5	5.2
AC-FT	237	266	276	257	232	295	369	1,110	920	481	367	379

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955-59, 1988-2004, BY WATER YEAR (WY)

MEAN	7.96	7.08	6.45	5.92	5.55	6.13	10.4	26.4	25.1	13.3	9.58	8.20
MAX	15.4	15.6	11.0	8.82	8.06	9.43	22.2	70.5	67.9	40.7	18.7	13.5
(WY)	(1998)	(1988)	(1988)	(1988)	(1988)	(1988)	(1958)	(1958)	(1957)	(1995)	(1993)	(1993)
MIN	3.63	3.63	3.71	3.66	3.59	3.85	5.42	6.54	4.40	2.78	2.48	3.92
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(1990)	(2002)	(2002)	(2002)	(2002)	(2002)

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

09183500 MILL CREEK AT SHELEY TUNNEL, NEAR MOAB, UT—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1955-59, 1988-2004
ANNUAL TOTAL	2,633.0	2,614.4	
ANNUAL MEAN	7.21	7.14	11.0
HIGHEST ANNUAL MEAN			20.4
LOWEST ANNUAL MEAN			4.73
HIGHEST DAILY MEAN	41	May 31	141
LOWEST DAILY MEAN	2.8	Feb 8	2.2
ANNUAL SEVEN-DAY MINIMUM	3.3	Feb 2	2.3
ANNUAL RUNOFF (AC-FT)	5,220	5,190	7,990
10 PERCENT EXCEEDS	13	15	21
50 PERCENT EXCEEDS	4.6	5.4	7.2
90 PERCENT EXCEEDS	3.6	4.0	4.6

e Estimated

