

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

09183500 MILL CREEK AT SHELEY TUNNEL, NEAR MOAB, UT

LOCATION.--Lat 38°28'59", long 109°24'12", in NW¹/₄NW¹/₄SW¹/₄, 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)
Oct 2	0245	*76	*3.17				

Minimum daily discharge, 2.8 ft³/s, Feb. 8.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	3.9	3.7	3.8	3.6	3.6	4.7	11	41	8.0	6.0	5.0
2	7.7	3.7	3.6	3.7	3.7	3.4	4.7	11	40	7.5	6.0	4.9
3	4.1	3.5	3.6	3.7	3.6	3.5	4.7	12	37	7.3	6.0	4.9
4	3.5	3.7	3.4	3.7	3.5	3.6	4.5	14	32	7.1	5.8	4.8
5	3.4	3.6	3.6	3.7	3.6	3.6	4.4	11	29	6.9	5.6	4.8
6	3.3	3.6	3.6	3.7	3.0	3.5	4.5	9.9	25	6.7	5.5	5.1
7	3.3	3.7	3.6	3.6	e3.0	3.5	4.4	9.5	23	6.6	5.6	5.0
8	3.3	3.8	3.6	3.6	e2.8	3.5	4.4	8.9	22	6.5	5.5	4.6
9	3.3	6.4	3.4	3.7	3.7	3.5	4.6	9.9	22	6.3	5.5	4.7
10	3.2	3.8	3.6	3.7	3.7	3.5	5.4	8.6	21	6.2	5.4	5.0
11	3.3	3.8	3.6	3.8	3.8	3.6	6.4	9.0	20	6.1	5.3	5.0
12	3.3	3.7	3.8	3.7	3.7	3.6	7.2	11	19	6.1	5.3	4.7
13	3.3	3.8	3.8	3.7	4.0	3.7	7.6	11	17	6.0	5.1	4.4
14	3.5	3.8	3.8	3.7	4.1	3.8	9.3	11	16	6.1	5.0	4.4
15	3.5	3.7	3.8	3.6	3.8	3.7	9.4	20	16	6.0	5.7	4.3
16	3.4	3.4	3.8	3.6	3.6	3.8	7.2	20	e15	5.8	5.6	4.2
17	3.4	3.8	3.9	3.7	3.6	4.3	7.5	22	13	5.9	6.0	4.1
18	3.4	3.5	3.8	3.6	3.6	4.1	7.6	23	12	5.8	5.6	4.2
19	3.4	3.5	3.5	3.7	3.5	3.9	6.2	24	12	5.7	5.3	4.2
20	3.4	3.5	3.8	3.7	3.6	3.9	5.8	30	12	5.6	5.2	4.2
21	3.4	3.5	3.8	3.7	3.5	3.9	5.9	28	11	5.4	5.1	4.1
22	3.5	3.5	3.8	3.6	3.5	3.9	6.2	30	10	5.5	5.2	4.0
23	3.7	3.5	3.8	3.6	3.5	4.1	6.2	32	10	5.6	6.4	3.9
24	3.7	3.5	3.8	3.6	3.6	4.4	6.5	32	10	5.7	6.2	3.8
25	3.6	3.5	3.9	3.6	3.7	4.2	9.6	31	10	6.1	5.9	3.8
26	3.6	3.0	3.7	3.6	3.8	4.2	13	30	9.6	5.8	5.7	3.8
27	3.7	2.9	3.7	3.6	3.7	4.2	15	31	9.4	5.7	5.7	3.7
28	3.7	3.0	3.8	3.6	3.6	4.1	e16	33	9.1	5.9	5.6	3.7
29	3.7	3.1	3.8	3.6	---	4.0	13	35	8.8	5.8	5.3	3.7
30	3.7	3.3	3.8	3.6	---	4.3	11	40	8.5	5.7	5.3	3.7
31	3.9	---	3.8	3.6	---	4.4	---	41	---	5.6	5.2	---
TOTAL	112.6	109.0	115.0	113.4	100.4	119.3	222.9	649.8	540.4	191.0	172.6	130.7
MEAN	3.63	3.63	3.71	3.66	3.59	3.85	7.43	21.0	18.0	6.16	5.57	4.36
MAX	7.7	6.4	3.9	3.8	4.1	4.4	16	41	41	8.0	6.4	5.1
MIN	3.2	2.9	3.4	3.6	2.8	3.4	4.4	8.6	8.5	5.4	5.0	3.7
AC-FT	223	216	228	225	199	237	442	1,290	1,070	379	342	259

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955-59, 1988-2003, BY WATER YEAR (WY)

MEAN	8.16	7.20	6.54	6.00	5.63	6.19	10.6	26.8	25.5	13.6	9.76	8.29
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1955-59, 88-2003	
ANNUAL TOTAL	1,560.8		2,577.1			
ANNUAL MEAN	4.28		7.06		11.2	
HIGHEST ANNUAL MEAN					20.4	
LOWEST ANNUAL MEAN					4.73	
HIGHEST DAILY MEAN	11	Sep 11	41	May 31	141	May 27, 1993
LOWEST DAILY MEAN	2.2	Aug 26	2.8	Feb 8	2.2	Aug 26, 2002
ANNUAL SEVEN-DAY MINIMUM	2.3	Aug 23	3.2	Nov 24	2.3	Aug 23, 2002
ANNUAL RUNOFF (AC-FT)	3,100		5,110		8,120	
10 PERCENT EXCEEDS	6.5		13		22	
50 PERCENT EXCEEDS	3.9		4.1		7.2	
90 PERCENT EXCEEDS	2.6		3.5		4.6	

e Estimated

