

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

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09182400 CASTLE CREEK BELOW CASTLE VALLEY, NEAR MOAB, UT

LOCATION.--Lat $38^{\circ}40'26''$, long $109^{\circ}26'58''$, in SE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 35, T. 24 S., R. 22 E., Grand County, Hydrologic Unit 14030005, on left bank and 16.5 mi northwest of Moab.

DRAINAGE AREA.--58.1 mi².

PERIOD OF RECORD.--April 1992 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,120 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Small diversions for irrigation above and below the station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 296 ft³/s, Jul 28, 1998, gage height, 7.43 ft; minimum daily discharge, 2.9 ft³/s, Jul 31, Sep 2, 3, 2004.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*):

	Date	Time	Discharge (ft ³ /s)	Gage height (ft)		Date	Time	Discharge (ft ³ /s)	Gage height (ft)
	Apr 7	0515	*24	*6.03					

Minimum daily discharge, 2.9 ft³/s, Jul 31, Sep 2, 3.

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	4.4	4.5	6.6	7.3	5.9	e6.5	4.5	4.4	3.4	3.2	3.1	e3.3
2	4.6	4.6	6.8	7.8	5.9	e6.4	4.5	4.3	3.5	3.1	3.0	2.9
3	4.7	4.7	6.9	7.0	6.0	e6.4	4.4	4.3	3.3	3.2	3.0	2.9
4	4.8	4.6	6.8	6.3	6.2	e6.6	4.4	4.2	3.2	3.2	3.0	3.2
5	4.6	4.6	6.8	6.2	6.2	e6.4	5.8	4.1	3.1	3.1	3.1	3.1
6	4.7	4.8	6.8	6.2	6.0	e6.4	5.7	4.1	3.1	3.2	3.2	3.1
7	4.6	4.8	6.9	6.4	5.9	e6.3	6.1	3.9	3.1	3.2	3.2	3.0
8	4.4	4.8	8.4	6.8	6.0	e6.2	4.9	4.3	3.2	3.3	3.1	3.0
9	4.4	5.3	6.9	7.0	6.1	e6.3	4.9	4.2	3.1	3.4	3.0	3.0
10	4.5	5.4	6.6	6.9	6.0	e6.3	4.9	3.7	3.2	3.3	3.0	3.0
11	4.7	5.4	6.7	7.0	6.0	e6.3	4.8	3.8	3.2	3.3	3.1	3.1
12	4.9	5.5	6.6	7.1	5.9	e6.3	4.8	3.8	3.2	3.4	3.1	3.1
13	4.9	5.5	6.6	6.9	5.9	e6.4	4.7	3.7	3.4	3.3	3.2	3.0
14	4.9	5.6	6.7	6.6	5.9	e6.4	4.5	3.8	3.2	3.3	3.1	3.0
15	4.7	5.9	6.9	6.4	6.4	e6.5	3.7	3.8	3.3	3.3	3.2	3.1
16	4.8	6.0	6.5	6.7	6.4	e6.6	3.6	3.9	3.4	3.4	3.4	3.1
17	4.8	6.0	6.5	6.3	6.2	e6.7	3.6	3.6	3.5	3.5	3.4	3.1
18	4.7	5.8	6.5	6.2	6.2	e6.8	3.9	3.6	3.3	3.4	3.5	3.2
19	4.8	6.0	6.6	6.2	6.4	e7.0	3.8	3.5	3.3	3.4	3.6	3.7
20	4.6	6.3	7.0	6.3	6.4	e6.5	4.1	3.6	3.2	3.4	3.8	3.5
21	4.5	6.4	7.3	6.0	6.5	e6.2	3.9	3.6	3.2	3.4	3.7	3.5
22	4.4	6.0	7.2	6.0	6.5	e6.0	4.1	3.5	3.3	3.5	3.6	3.2
23	4.5	5.7	6.5	6.0	6.8	e5.7	4.4	3.6	3.1	3.6	3.5	3.4
24	4.5	6.3	6.6	6.0	6.7	e5.4	4.2	3.5	3.0	3.6	e3.6	3.3
25	4.3	6.4	6.6	6.1	6.6	e5.1	4.0	3.6	3.1	3.6	e3.5	3.2
26	4.5	6.1	7.4	6.0	6.6	e4.9	4.0	3.7	3.2	3.5	e3.6	3.2
27	4.4	6.4	6.4	5.9	e6.7	e4.8	3.9	3.5	3.2	3.4	e3.5	3.2
28	4.3	6.4	6.4	6.0	e6.6	e4.7	3.8	3.5	3.3	3.3	e3.4	3.2
29	4.4	6.6	6.4	6.1	e6.6	e4.6	4.2	3.8	3.4	3.1	e3.5	3.3
30	4.4	6.6	6.4	6.1	---	4.5	5.1	3.6	3.3	3.0	e3.4	3.3
31	4.5	---	6.9	6.2	---	4.5	---	3.4	---	2.9	e3.4	---
TOTAL	142.2	169.0	210.2	200.0	181.5	185.7	133.2	117.9	97.3	102.8	102.8	95.2
MEAN	4.59	5.63	6.78	6.45	6.26	5.99	4.44	3.80	3.24	3.32	3.32	3.17
MAX	4.9	6.6	8.4	7.8	6.8	7.0	6.1	4.4	3.5	3.6	3.8	3.7
MIN	4.3	4.5	6.4	5.9	5.9	4.5	3.6	3.4	3.0	2.9	3.0	2.9
AC-FT	282	335	417	397	360	368	264	234	193	204	204	189

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2004, BY WATER YEAR (WY)

MEAN	6.08	7.30	7.19	7.03	6.93	6.91	5.97	6.01	6.17	4.98	4.57	5.12
MAX	8.33	8.95	8.36	8.53	8.37	8.77	8.43	17.2	15.4	9.85	6.72	7.50
(WY)	(1998)	(1998)	(1996)	(1993)	(1998)	(1998)	(1993)	(1993)	(1993)	(1995)	(1997)	(1997)
MIN	4.09	5.62	6.27	5.64	6.19	5.06	4.07	3.80	3.24	3.31	3.32	3.17
(WY)	(2001)	(2003)	(2003)	(1999)	(2000)	(2003)	(2003)	(2004)	(2004)	(1994)	(2004)	(2004)

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1992 - 2004
ANNUAL TOTAL	1,796.2	1,737.8	
ANNUAL MEAN	4.92	4.75	
HIGHEST ANNUAL MEAN			6.17
LOWEST ANNUAL MEAN			8.84
HIGHEST DAILY MEAN	8.4	Dec 8	1993
LOWEST DAILY MEAN	3.3	Aug 2	4.75
ANNUAL SEVEN-DAY MINIMUM	3.4	Aug 1	2004
ANNUAL RUNOFF (AC-FT)	3,560	3,450	34 May 27, 1993
10 PERCENT EXCEEDS	6.6	6.6	2.9 Jul 31, 2004
50 PERCENT EXCEEDS	4.4	4.5	3.0 Jul 29, 2004
90 PERCENT EXCEEDS	3.8	3.1	3.7

e Estimated

