

## SEVIER LAKE BASIN

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## 10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UT

LOCATION.--Lat 39°15'33", long 111°34'45", in NE<sup>1/4</sup> SE<sup>1/4</sup>SE<sup>1/4</sup> sec. 9, T. 18 S., R. 3 E., Sanpete County, Hydrologic Unit 16030004, on right bank 200 ft downstream from a side road bridge, 0.6 mi upstream from upper powerplant, 2.3 mi east of cattle guard at Manti-LaSal National Forest boundary, and 3.5 mi east of Manti.

DRAINAGE AREA.--26.4 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1964 to September 1974; October 1978 to current year.

REVISED RECORDS.--WDR UT-81-1: 1979, 1980(M), WDR UT-01-1: 2000, daily values.

GAGE.--Water-stage recorder. Crest-stage gage since August 22, 2000. Elevation of gage is 6,500 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Records do not include flow diverted around station in a 12-inch pipeline by city of Manti for culinary purposes and for generation of power at the upper powerplant. Records include flow of a small transmountain diversion from San Rafael River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 705 ft<sup>3</sup>/s, Jun 28, 1995, gage height, 5.49 ft; minimum, 0.9 ft<sup>3</sup>/s, Nov 3, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 620 ft<sup>3</sup>/s, May 29, gage height, 5.50 ft; minimum daily discharge, 2.6 ft<sup>3</sup>/s, Mar 2, 3.

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	5.2	4.0	4.0	3.7	3.4	e2.7	9.0	18	238	35	15	8.0
2	5.8	3.6	3.8	3.6	3.4	e2.6	8.8	18	214	33	15	8.0
3	6.2	e3.4	e3.6	3.7	e3.2	e2.6	7.5	19	199	32	17	7.7
4	5.7	e3.4	e3.5	3.7	e3.1	2.8	8.4	19	182	30	14	7.5
5	5.8	e3.6	e3.4	3.7	e3.2	2.8	7.6	18	173	28	13	7.5
6	5.5	e4.0	e3.4	3.6	e3.0	2.8	6.3	16	158	27	13	8.7
7	5.4	e4.2	e3.6	3.7	e3.2	2.9	6.8	17	148	27	13	7.7
8	5.3	e4.2	e3.6	3.8	e3.2	3.0	6.8	18	135	25	13	7.5
9	4.9	e4.2	e3.5	3.7	e3.3	3.2	8.5	18	122	25	13	7.6
10	4.9	4.3	e3.4	3.7	e3.3	3.5	10	16	120	24	15	11
11	4.8	4.0	e3.4	3.5	e3.4	4.1	13	16	101	23	13	8.0
12	4.7	e3.8	e3.8	3.4	3.4	4.3	15	20	102	22	12	6.8
13	4.5	4.1	3.9	3.4	3.4	4.7	17	26	92	22	11	6.0
14	4.4	3.9	3.9	3.5	3.6	4.8	18	32	84	21	11	5.8
15	4.4	e3.8	3.7	3.4	3.4	4.1	17	42	76	21	11	5.7
16	4.3	e3.6	3.7	3.4	3.2	4.2	13	52	72	20	11	5.5
17	4.3	e3.8	3.8	3.4	e3.1	e4.0	13	59	69	21	10	5.5
18	4.2	e3.6	3.8	3.5	3.2	e4.0	13	77	60	20	9.7	5.5
19	4.2	e3.6	3.6	3.4	e3.1	e4.0	11	89	54	19	9.2	5.5
20	4.1	e3.8	3.6	3.4	3.2	e4.4	12	89	51	19	9.2	5.3
21	4.1	e3.8	3.6	3.4	3.0	4.8	14	102	49	18	9.2	5.2
22	4.2	3.9	3.5	3.4	3.2	5.7	14	117	47	18	9.8	5.1
23	4.3	3.9	3.5	3.4	e2.8	e6.6	12	130	45	17	9.4	5.0
24	4.2	3.8	3.5	3.5	e2.8	e6.4	14	144	48	17	9.0	5.0
25	4.2	e3.6	3.5	3.4	3.0	e4.9	19	174	45	17	8.8	4.9
26	4.1	e3.4	3.4	3.4	2.9	e5.4	23	183	42	16	8.6	4.9
27	4.2	e3.6	3.5	3.4	2.8	e5.4	25	221	39	16	8.7	4.9
28	4.1	e3.8	3.5	3.5	2.8	e6.4	24	198	37	15	8.4	4.8
29	4.1	e3.4	3.6	3.3	---	e7.2	23	205	36	17	8.3	4.8
30	3.9	e3.8	3.5	3.3	---	e8.1	21	170	36	15	8.7	4.8
31	e3.8	---	3.6	3.5	---	e8.8	---	222	---	15	8.2	---
TOTAL	143.8	113.9	111.7	108.7	88.6	141.2	410.7	2,545	2,874	675	345.2	190.2
MEAN	4.64	3.80	3.60	3.51	3.16	4.55	13.7	82.1	95.8	21.8	11.1	6.34
MAX	6.2	4.3	4.0	3.8	3.6	8.8	25	222	238	35	17	11
MIN	3.8	3.4	3.4	3.3	2.8	2.6	6.3	16	36	15	8.2	4.8
AC-FT	285	226	222	216	176	280	815	5,050	5,700	1,340	685	377

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965-74, 1979-2003, BY WATER YEAR (WY)

MEAN	8.15	6.56	5.22	4.77	4.60	6.09	18.1	98.2	130	41.9	16.1	10.3
MAX	18.6	12.5	9.85	8.79	8.46	12.3	87.4	232	317	183	42.3	26.0
(WY)	(1984)	(1985)	(1984)	(1984)	(1984)	(1986)	(1985)	(1984)	(1983)	(1995)	(1983)	(1995)
MIN	4.14	3.77	3.35	3.05	3.13	3.22	5.46	47.1	32.2	10.8	5.36	3.65
(WY)	(2001)	(1993)	(1979)	(1981)	(1967)	(1991)	(1967)	(1990)	(1966)	(2002)	(2002)	(2000)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1965-74, 1979-2003
ANNUAL TOTAL	4,642.0	7,748.0	
ANNUAL MEAN	12.7	21.2	29.2
HIGHEST ANNUAL MEAN			61.0
LOWEST ANNUAL MEAN			12.8
HIGHEST DAILY MEAN	107	May 20	547
LOWEST DAILY MEAN	3.4	Jan 31	1.8
ANNUAL SEVEN-DAY MINIMUM	3.5	Jan 30	2.3
ANNUAL RUNOFF (AC-FT)	9,210	15,370	21,190
10 PERCENT EXCEEDS	39	50	78
50 PERCENT EXCEEDS	4.7	5.5	8.2
90 PERCENT EXCEEDS	3.6	3.4	4.0

e Estimated

