



Water-Data Report UT-2005

10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UT

Sevier Lake Basin

LOCATION.--Lat 39°15'33", long 111°34'45" referenced to North American Datum of 1927, in NE ¼ SE ¼ SE ¼ sec.9, T.18 S., R.3 E., Sanpete County, Hydrologic Unit 16030004, Manti-LaSal National Forest, on right bank 200 ft downstream from trail bridge, 0.6 mi upstream from upper powerplant, 2.3 mi east of cattle guard at forest boundary, and 3.5 mi east of Manti.

DRAINAGE AREA.--26.4 mi².

WATER-DISCHARGE RECORDS

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

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

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

REMARKS.--Records good except for May 20 to Jun 4 and Aug 11 to Sep 10, which are fair, and Sep 11 to 30 and 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 ft³/s, Jun 28, 1995, gage height, 5.49 ft; minimum, 0.9 ft³/s, Nov 3, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 545 ft³/s, May 24, gage height, 5.38 ft; minimum daily discharge, 3.4 ft³/s, Jan.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5.2	4.8	e3.6	4.0	e4.6	3.7	7.0	42	235	69	18	10
2	5.1	e4.5	e3.7	3.7	e4.2	e3.7	7.9	42	246	65	18	9.9
3	5.1	e4.5	e3.8	3.6	e4.0	3.5	9.1	45	236	61	17	10
4	4.9	e4.6	e3.9	3.6	e4.2	3.5	9.0	50	201	58	17	11
5	4.8	4.6	4.0	3.5	e4.6	3.6	8.1	66	193	55	19	11
6	5.3	4.5	4.0	e3.5	e4.8	3.8	9.1	70	192	51	17	10
7	4.6	4.6	e4.1	e3.4	5.2	4.1	14	62	193	49	16	9.6
8	4.4	6.6	4.2	3.8	4.8	4.2	16	62	179	47	17	9.2
9	4.4	6.5	4.1	4.0	e4.6	4.6	12	68	174	46	18	11
10	4.7	6.0	4.5	5.1	e4.6	5.4	11	74	171	43	16	9.1
11	4.8	5.7	4.9	5.2	4.7	6.0	9.7	70	165	41	16	9.7
12	4.6	5.5	5.2	e4.2	4.9	6.8	12	69	154	40	17	8.4
13	4.7	5.2	5.1	e3.8	4.7	6.5	16	71	138	39	16	8.9
14	4.6	4.8	4.7	e3.6	4.6	e5.4	18	79	151	38	16	8.2
15	4.6	4.6	4.4	4.4	4.4	e4.9	20	92	179	36	16	8.2
16	4.5	4.7	4.2	4.4	4.3	e4.6	e28	114	198	35	17	7.9
17	4.5	4.5	4.2	4.5	4.5	4.5	e36	118	205	34	16	7.8
18	5.2	4.2	4.2	4.6	4.4	4.3	39	116	209	31	14	7.6
19	6.1	e4.5	4.1	5.2	4.4	4.2	37	157	182	29	14	7.3
20	7.0	e4.0	4.2	5.8	4.3	4.3	e33	209	172	27	14	7.6
21	8.9	e4.7	3.9	5.9	4.1	4.1	e29	249	162	26	14	8.8
22	6.3	e4.0	e3.6	5.6	4.2	e4.0	30	277	155	28	13	8.8
23	5.7	e3.8	4.1	5.6	4.0	4.2	35	280	141	26	13	8.0
24	6.2	e3.6	3.9	5.6	4.0	4.6	45	281	125	25	13	7.5
25	5.6	e3.8	4.2	5.4	e4.0	4.2	41	279	118	24	13	7.2
26	5.3	4.1	4.1	5.3	e3.9	e4.0	40	291	105	23	12	6.9
27	5.3	e3.8	4.0	5.4	e3.8	e4.0	44	246	94	21	12	8.7
28	5.9	e3.7	3.9	5.5	e3.8	5.9	43	250	89	20	12	10
29	4.9	e3.6	4.0	5.2	---	5.6	41	299	81	19	11	9.6
30	4.8	e3.6	3.8	4.9	---	4.9	39	312	74	20	11	7.7
31	4.7	---	4.1	4.8	---	5.6	---	260	---	18	11	---
Total	162.7	137.6	128.7	143.1	122.6	142.7	738.9	4,700	4,917	1,144	464	265.6
Mean	5.25	4.59	4.15	4.62	4.38	4.60	24.6	152	164	36.9	15.0	8.85
Max	8.9	6.6	5.2	5.9	5.2	6.8	45	312	246	69	19	11
Min	4.4	3.6	3.6	3.4	3.8	3.5	7.0	42	74	18	11	6.9
Ac-ft	323	273	255	284	243	283	1,470	9,320	9,750	2,270	920	527

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	7.97	6.45	5.18	4.75	4.57	6.10	18.3	99.8	130	41.2	15.9	10.2
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)

10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UT—Continued**SUMMARY STATISTICS**

	Calendar Year 2004	Water Year 2005	Water Years 1965 - 2005	
Annual total	7,997.9	13,066.9		
Annual mean	21.9	35.8	29.2	
Highest annual mean			61.0	1984
Lowest annual mean			12.8	2002
Highest daily mean	138	May 28	547	Jun 28, 1995
Lowest daily mean	3.2	Feb 20	1.8	Dec 13, 2000
Annual seven-day minimum	3.4	Feb 18	2.3	Dec 9, 2000
Annual runoff (ac-ft)	15,860	25,920	21,170	
10 percent exceeds	81	130	79	
50 percent exceeds	6.4	7.0	8.1	
90 percent exceeds	3.8	4.0	4.0	

