



Water-Data Report UT-2005

10172952 DUNN CREEK NEAR PARK VALLEY, UT

Great Salt Lake Basin

LOCATION.--Lat 41°51'31", long 113°19'35" referenced to North American Datum of 1927, in NW ¼ NW ¼ NW ¼ sec.15, T.13 N., R.13 W., Box Elder County, Hydrologic Unit 16020308, on right bank 150 ft upstream from diversion structure, 200 ft downstream from confluence of left hand and right hand forks, and 2.9 mi north of Park Valley.

DRAINAGE AREA.--8.72 mi².

WATER-DISCHARGE RECORDS

REVISED RECORDS.--WDR UT-99-1: 1998, daily values.

PERIOD OF RECORD.--May 1971 to September 1973, October 1976 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,250 ft above NGVD of 1929, from topographic map. Prior to August 26, 1982 at site 110 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversion for flood-flows, located approximately 300 ft upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 150 ft³/s, May 28, 1983; minimum discharge, 0.14 ft³/s, Mar 17, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 67 ft³/s, May 20, gage height, 2.68 ft; minimum daily discharge, 0.97 ft³/s, Dec 24.

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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	1.7	2.3	e1.2	1.2	1.4	1.5	3.9	16	53	22	5.0	2.4
2	1.4	2.3	e1.3	1.2	1.4	1.5	4.3	16	50	21	4.9	2.3
3	1.4	2.2	e1.3	1.2	1.4	1.7	4.4	16	40	20	4.7	2.3
4	1.4	2.2	e1.4	1.2	1.4	1.8	4.4	16	37	19	4.4	2.3
5	1.3	2.0	e1.4	1.2	1.4	1.9	4.4	17	38	18	4.5	2.2
6	1.3	2.0	e1.4	1.1	1.4	2.0	5.1	21	39	17	4.4	2.2
7	1.2	1.9	1.4	1.1	1.3	2.1	6.0	24	40	17	4.3	2.1
8	1.2	1.9	1.4	1.2	1.2	2.4	6.6	26	42	16	4.1	2.1
9	1.2	1.9	1.7	1.2	1.2	3.2	6.1	28	39	15	4.0	2.1
10	1.2	1.9	1.7	1.2	1.2	4.3	5.7	27	35	15	4.1	2.4
11	1.2	2.9	1.6	e1.1	1.2	4.6	5.8	26	33	14	4.0	2.8
12	1.2	2.4	1.7	e1.0	1.2	5.0	6.3	25	33	13	3.9	2.4
13	1.2	2.2	1.7	e1.3	1.2	4.7	7.3	24	33	13	3.7	2.4
14	1.2	2.2	1.7	1.4	1.2	4.3	7.0	22	34	12	3.6	2.2
15	1.2	2.1	1.6	1.3	1.1	4.1	6.8	22	41	11	3.5	2.1
16	1.2	1.6	1.5	1.3	1.1	3.8	7.1	25	47	11	3.9	2.1
17	1.2	1.5	1.5	1.3	1.2	3.8	7.8	29	48	9.7	3.6	2.0
18	1.7	1.4	1.4	1.3	1.2	3.7	8.0	30	38	9.3	3.6	2.0
19	1.8	1.3	1.4	1.4	1.2	3.9	8.0	40	38	8.7	3.6	2.0
20	3.7	1.1	1.4	1.4	1.2	4.0	8.4	59	38	8.5	3.4	1.9
21	3.1	1.4	e1.2	1.4	1.2	3.8	8.4	57	40	8.1	3.2	2.3
22	2.4	1.4	1.3	1.5	1.3	3.9	9.2	57	41	8.0	3.1	2.1
23	2.6	1.3	e1.0	1.5	1.2	4.2	9.9	60	42	7.9	2.9	2.0
24	2.4	1.4	0.97	1.5	1.3	4.0	12	60	41	7.6	2.9	2.2
25	2.3	1.4	0.98	1.6	1.3	3.6	13	59	36	7.3	2.8	2.2
26	2.5	1.3	1.0	1.6	1.4	3.9	13	57	35	6.9	2.8	2.0
27	2.5	1.3	1.2	1.5	1.5	4.0	15	57	32	6.6	2.7	2.1
28	3.2	e1.0	1.2	1.5	1.5	3.8	17	55	29	6.3	2.6	1.9
29	2.8	1.3	1.2	1.5	---	3.3	16	53	26	6.3	2.5	1.9
30	2.7	e1.2	1.3	1.5	---	3.9	16	57	24	5.6	2.5	1.8
31	2.4	---	1.3	1.4	---	3.9	---	54	---	5.1	2.5	---
Total	57.8	52.3	42.35	41.1	35.8	106.6	252.9	1,135	1,142	365.9	111.7	64.8
Mean	1.86	1.74	1.37	1.33	1.28	3.44	8.43	36.6	38.1	11.8	3.60	2.16
Max	3.7	2.9	1.7	1.6	1.5	5.0	17	60	53	22	5.0	2.8
Min	1.2	1.0	0.97	1.0	1.1	1.5	3.9	16	24	5.1	2.5	1.8
Ac-ft	115	104	84	82	71	211	502	2,250	2,270	726	222	129

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972-73, 1977- 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1.79	1.54	1.29	1.24	1.33	2.44	5.33	18.6	19.1	6.93	3.14	2.00
Max	3.64	2.45	2.09	2.04	2.82	6.33	16.4	38.1	57.3	17.9	8.45	4.58
(WY)	(1985)	(1983)	(1983)	(1980)	(1986)	(1986)	(1986)	(1997)	(1983)	(1983)	(1984)	(1984)
Min	0.66	0.75	0.64	0.59	0.62	0.85	1.12	3.40	3.13	1.25	0.62	0.57
(WY)	(2004)	(1995)	(1995)	(1995)	(1995)	(1977)	(2003)	(1977)	(1992)	(1994)	(2001)	(2003)

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	Calendar Year 2004	Water Year 2005	Water Years 1972-73, 1977- 2005	
Annual total	1,478.59	3,408.25		
Annual mean	4.04	9.34	5.41	
Highest annual mean			12.0	1983
Lowest annual mean			2.00	1994
Highest daily mean	35 May 9	60 May 23	150 May 28, 1983	
Lowest daily mean	0.69 Feb 12	0.97 Dec 24	0.32 Feb 15, 1995	
Annual seven-day minimum	0.74 Feb 10	1.1 Dec 23	0.42 Jan 19, 1995	
Annual runoff (ac-ft)	2,930	6,760	3,920	
10 percent exceeds	9.4	33	13	
50 percent exceeds	1.9	2.5	2.0	
90 percent exceeds	0.84	1.2	0.90	

