



Water-Data Report UT-2005

10166430 WEST CANYON CREEK NEAR CEDAR FORT, UT

Jordan River Basin

LOCATION.--Lat 40°24'19", long 112°05'59" referenced to North American Datum of 1927, in NW ¼ NE ¼ NE ¼ sec.7, T.5 S., R.2 W., Utah County, Hydrologic Unit 16020201, on right bank 100 ft upstream from a right bank diversion, 540 ft downstream from 6 ft culvert, and 5.3 mi north of Cedar Fort.

DRAINAGE AREA.--26.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1965 to October 1975, October 1986 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,620 ft above NGVD of 1929, from topographic map. Prior to July 21, 1993 at site 700 ft upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,660 ft³/s, Aug 28, 1971, gage height, 7.50 ft from slope-area measurement; minimum, 0.01 ft³/s, Apr 20, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 92 ft³/s, May 24, gage height 3.40 ft; minimum daily discharge, 0.25 ft³/s, Oct. 4.

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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	0.35	0.31	e0.45	0.45	0.43	0.50	e2.8	18	39	15	5.8	2.8
2	0.26	0.31	e0.45	0.44	e0.44	0.50	e2.8	17	35	15	5.7	2.6
3	0.26	0.31	e0.40	0.44	e0.44	0.51	e3.2	18	29	22	5.4	5.9
4	0.25	0.29	e0.50	0.45	e0.44	0.52	e3.5	18	24	21	4.8	5.5
5	0.27	0.27	0.50	0.44	0.44	0.60	e3.7	19	22	20	4.5	6.1
6	0.29	0.28	0.49	e0.44	e0.44	0.61	e3.7	20	27	19	4.5	3.2
7	0.29	0.29	0.53	e0.40	0.48	0.57	e3.9	21	28	12	4.4	2.5
8	0.29	0.30	0.55	e0.44	e0.46	0.58	e5.0	e21	24	13	4.4	4.5
9	0.28	0.33	0.54	0.50	e0.46	0.58	e5.8	e21	23	15	4.6	8.9
10	0.29	0.34	0.52	0.58	e0.46	0.59	e6.4	e22	26	14	4.3	12
11	0.30	0.38	0.50	0.63	e0.46	0.59	e6.8	e23	21	14	4.0	6.2
12	0.30	0.38	0.50	e0.48	0.46	0.60	e8.8	e26	19	12	4.2	5.2
13	0.27	0.37	0.53	e0.44	0.42	0.66	e9.8	e28	18	12	4.3	3.4
14	0.27	0.38	0.56	e0.44	0.45	0.70	e10	29	19	11	4.5	3.7
15	0.27	0.40	0.56	0.44	0.44	1.0	e10	35	21	9.9	4.7	3.1
16	0.27	0.41	e0.57	0.44	e0.44	2.0	10	44	23	9.0	4.8	2.6
17	0.29	0.42	e0.56	0.44	e0.44	3.2	e12	36	23	8.5	4.5	2.4
18	0.36	0.44	e0.56	0.44	e0.44	4.2	e12	32	24	7.8	4.6	2.1
19	0.47	0.44	e0.56	0.44	0.49	4.4	e13	29	23	7.1	e4.7	2.1
20	e6.2	0.44	0.53	0.44	0.50	e6.0	13	35	21	8.4	4.3	2.1
21	1.1	0.44	e0.53	0.44	0.48	e4.4	12	35	21	9.6	4.3	2.2
22	0.35	0.44	e0.53	0.44	0.48	e3.8	12	31	21	9.8	4.3	2.8
23	0.33	0.45	e0.53	e0.44	0.48	e3.5	12	43	22	9.4	4.3	2.7
24	0.46	0.47	0.55	e0.44	0.47	e7.0	14	55	20	9.1	4.3	3.3
25	0.44	0.50	0.55	e0.41	0.49	e3.5	14	47	21	8.4	4.1	e2.7
26	0.32	0.50	0.48	0.41	0.50	e3.3	14	42	20	7.7	4.0	e2.7
27	0.31	0.53	0.49	0.49	e0.50	e2.8	e16	41	18	7.0	3.8	e3.5
28	0.40	e0.51	0.46	0.44	0.50	e3.5	17	45	20	6.5	3.3	e3.5
29	0.29	e0.45	0.55	0.44	---	e3.2	18	42	17	6.0	3.2	e3.3
30	0.28	e0.50	0.47	0.43	---	e2.9	17	46	16	5.6	3.2	e3.1
31	0.31	---	0.45	e0.44	---	e2.7	---	44	---	5.8	3.0	---
Total	16.42	11.88	15.95	14.03	12.93	69.51	292.2	983	685	350.6	134.8	116.7
Mean	0.53	0.40	0.51	0.45	0.46	2.24	9.74	31.7	22.8	11.3	4.35	3.89
Max	6.2	0.53	0.57	0.63	0.50	7.0	18	55	39	22	5.8	12
Min	0.25	0.27	0.40	0.40	0.42	0.50	2.8	17	16	5.6	3.0	2.1
Ac-ft	33	24	32	28	26	138	580	1,950	1,360	695	267	231

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966-75, 1987-2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1.24	1.03	0.70	0.56	0.54	1.04	4.25	13.6	11.3	5.05	2.57	1.52
Max	4.16	3.40	2.05	1.53	1.56	3.59	17.4	44.2	29.0	21.2	8.90	4.47
(WY)	(1996)	(1996)	(1996)	(1999)	(1987)	(1996)	(1969)	(1973)	(1995)	(1975)	(1975)	(1975)
Min	0.17	0.13	0.10	0.06	0.06	0.07	0.08	2.35	1.63	0.66	0.26	0.18
(WY)	(1993)	(2004)	(1993)	(1991)	(1991)	(2004)	(2003)	(2003)	(1992)	(1992)	(1992)	(2003)

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	Calendar Year 2004	Water Year 2005	Water Years 1966-75, 1987-2005	
Annual total	560.35	2,703.02		
Annual mean	1.53	7.41	3.63	
Highest annual mean			8.65	1973
Lowest annual mean			0.60	2003
Highest daily mean	7.5	May 11	85	May 20, 1973
Lowest daily mean	0.05	Feb 14	0.03	Oct 2, 1992
Annual seven-day minimum	0.06	Feb 14	0.05	Apr 20, 2003
Annual runoff (ac-ft)	1,110	5,360	2,630	
10 percent exceeds	5.0	22	10	
50 percent exceeds	0.53	2.8	1.1	
90 percent exceeds	0.07	0.38	0.19	

