



Water-Data Report UT-2005

10157500 DANIELS CREEK AT CHARLESTON, UT

Jordan River Basin

LOCATION.--Lat 40°27'39", long 111°28'19" referenced to North American Datum of 1927, in SE ¼ NE ¼ NE ¼ sec.22, T.4 S., R.4 E., Wasatch County, Hydrologic Unit 16020203, on left bank 3 ft above capacity elevation of Deer Creek Reservoir, 200 ft downstream from culvert on State Highway 1 in old town of Charleston and 3.5 mi south of Midway.

DRAINAGE AREA.--50.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1993 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,420 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except estimated daily discharges, which are poor. Small transbasin diversions from Strawberry River Basin drain into Daniels Creek. Flow also affected by irrigation diversions above station and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 274 ft³/s, May 23, 1995, gage height, 3.92 ft; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 158 ft³/s, Mar 24, gage height, 4.83; no flow Jun 23 – Jul 3.

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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	0.05	0.08	e1.1	e1.0	1.5	4.4	9.7	27	36	0.00	2.3	0.42
2	0.06	0.09	e1.1	e2.0	1.5	4.4	5.9	23	32	0.00	2.3	0.33
3	0.07	0.10	e1.1	e2.1	1.5	4.2	4.9	22	28	0.00	2.2	0.29
4	0.08	0.10	e1.1	e2.1	1.5	3.7	4.7	24	24	e0.1	2.3	0.25
5	0.08	0.11	e0.90	e2.1	1.5	3.5	4.9	32	22	e0.2	2.2	0.22
6	0.09	0.08	e1.0	e2.3	1.5	3.6	4.4	71	22	1.2	1.8	0.22
7	0.11	0.08	e1.0	e2.3	1.6	4.0	3.8	70	23	1.4	1.5	0.20
8	0.11	0.07	e1.0	e2.3	1.6	4.4	3.5	54	23	1.7	1.4	0.17
9	0.09	0.07	e1.0	e2.3	3.5	4.3	3.8	54	22	1.9	1.4	0.15
10	0.12	0.14	e1.0	e2.3	2.9	3.7	3.8	69	20	2.0	1.4	0.09
11	0.11	0.11	e1.0	e2.3	2.7	4.3	3.6	62	18	2.2	1.3	0.09
12	0.43	0.44	e1.1	e2.5	2.5	4.4	3.3	39	18	2.4	1.3	0.93
13	0.17	0.18	e1.2	e2.5	2.0	4.9	3.0	31	16	2.5	1.2	1.1
14	0.08	0.17	e1.4	e2.4	2.3	5.5	2.7	30	14	2.6	1.2	1.1
15	0.09	0.17	e1.4	e2.4	3.2	5.7	3.1	38	12	2.4	1.1	1.2
16	0.09	0.15	e1.6	e2.3	2.7	5.4	5.3	74	11	2.0	1.1	1.2
17	0.13	0.17	e1.6	e2.2	2.6	5.0	2.1	96	10	1.8	0.99	1.2
18	0.16	0.14	e1.7	e2.1	2.5	5.7	7.7	74	7.8	2.1	1.0	1.0
19	0.14	0.17	e1.6	e2.0	2.6	5.3	29	77	4.0	2.5	1.0	1.0
20	0.17	0.18	e0.6	1.9	3.4	6.8	24	100	1.8	2.7	1.0	1.0
21	0.20	0.73	e0.3	1.8	3.6	7.0	20	110	0.68	2.7	0.89	1.0
22	0.26	0.86	e0.1	1.8	3.6	6.6	16	84	e0.1	2.6	0.82	1.1
23	0.17	0.96	e0.1	1.8	4.1	9.5	13	110	0.00	2.8	0.82	1.0
24	0.18	0.98	e0.1	1.8	4.4	8.5	17	94	0.00	2.7	0.79	1.0
25	0.18	0.98	e0.1	1.7	4.6	8.0	24	73	0.00	2.8	0.76	0.99
26	0.10	1.0	e0.1	1.7	4.8	7.8	24	63	0.00	2.8	0.73	0.95
27	0.10	1.1	e0.1	1.7	4.8	7.6	38	56	0.00	2.6	0.68	0.97
28	0.11	1.1	e0.1	1.7	4.7	9.1	54	52	0.00	2.5	0.64	1.0
29	0.12	e1.1	e0.1	1.7	---	12	45	50	0.00	2.4	0.56	1.1
30	0.11	e1.1	e0.1	1.7	---	12	33	47	0.00	2.3	0.48	1.1
31	0.12	---	e0.1	1.6	---	11	---	40	---	2.3	0.43	---
Total	4.08	12.71	24.80	62.4	79.7	192.3	417.2	1,846	365.38	60.20	37.59	22.37
Mean	0.13	0.42	0.80	2.01	2.85	6.20	13.9	59.5	12.2	1.94	1.21	0.75
Max	0.43	1.1	1.7	2.5	4.8	12	54	110	36	2.8	2.3	1.2
Min	0.05	0.07	0.10	1.0	1.5	3.5	2.1	22	0.00	0.00	0.43	0.09
Ac-ft	8.1	25	49	124	158	381	828	3,660	725	119	75	44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4.74	3.12	2.53	2.51	2.76	2.77	10.6	41.1	23.3	5.21	6.22	5.32
Max	9.38	10.3	8.65	5.00	5.07	6.20	32.1	99.9	110	16.0	21.1	13.6
(WY)	(2001)	(2000)	(2000)	(1994)	(1994)	(2005)	(1997)	(1997)	(1995)	(1995)	(1999)	(1999)
Min	0.13	0.33	0.48	0.96	0.77	0.76	0.82	0.96	0.27	0.09	0.09	0.09
(WY)	(2005)	(2004)	(2004)	(2001)	(2001)	(1999)	(2001)	(2003)	(2002)	(2004)	(2004)	(2004)

10157500 DANIELS CREEK AT CHARLESTON, UT—Continued**SUMMARY STATISTICS**

	Calendar Year 2004	Water Year 2005	Water Years 1994 - 2005	
Annual total	507.77	3,124.73		
Annual mean	1.39	8.56	9.22	
Highest annual mean			21.2	1995
Lowest annual mean			1.47	2004
Highest daily mean	16	Apr 29	110	May 21
Lowest daily mean	0.00	Mar 26	0.00	Jun 23
Annual seven-day minimum	0.00	Mar 26	0.00	Jun 23
Annual runoff (ac-ft)	1,010		6,200	6,680
10 percent exceeds	2.9		25	21
50 percent exceeds	0.34		1.8	2.7
90 percent exceeds	0.05		0.10	0.30

