

JORDAN RIVER BASIN

1

10157500 DANIELS CREEK AT CHARLESTON, UT

LOCATION--Lat 40°27'39", long 111°28'19", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ 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 113 in old town of Charleston and 3.5 mi south of Midway.

DRAINAGE AREA.--50.1 mi².

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 several days in Jul and Aug 1994, Sep 1995, Jun 2002 and May-Jul 2003.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21 ft³/s, Apr 30, gage height, 2.32 ft; no flow several days in Mar and Apr.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	0.51	0.26	e1.1	e2.5	e2.9	0.00	12	0.46	0.19	0.05	0.12
2	2.4	0.44	0.24	e1.0	e2.8	e2.9	0.00	12	0.35	0.18	0.05	0.11
3	2.2	0.29	0.41	e0.90	e2.8	e2.8	0.00	10	0.40	0.18	0.05	0.10
4	2.1	0.31	0.65	e0.85	e2.7	e2.8	0.00	10	0.38	0.18	0.06	0.11
5	1.9	0.42	0.61	e0.75	e2.6	e2.8	0.00	11	0.37	0.18	0.06	0.12
6	2.0	0.35	0.54	e0.70	e2.6	e2.8	0.00	13	0.34	0.16	0.07	0.15
7	1.7	0.37	0.52	e0.80	e2.5	e2.8	0.00	13	0.34	0.16	0.07	0.12
8	2.0	0.22	0.43	e0.90	e2.5	e2.8	0.00	13	0.34	0.16	0.08	0.12
9	2.0	0.25	0.37	e1.0	e2.4	e2.8	1.2	12	0.40	0.17	0.09	0.10
10	2.0	0.41	0.34	e1.3	e2.3	e2.8	1.4	12	0.49	0.11	0.09	0.10
11	2.5	0.54	0.33	e1.2	e2.3	e2.8	0.88	11	0.44	0.10	0.09	0.10
12	1.8	0.54	0.27	e1.2	e2.4	e2.8	0.44	11	0.43	0.10	0.07	0.10
13	0.97	0.66	0.27	e1.1	e2.5	e2.9	0.93	7.2	0.43	0.09	0.07	0.12
14	1.6	0.64	e0.34	e1.1	e2.5	e2.9	3.1	3.6	0.40	0.08	0.06	0.14
15	2.2	0.22	e0.29	e1.1	e2.6	e2.9	4.7	2.6	0.37	0.08	0.05	0.15
16	2.1	0.34	e0.24	e1.1	e2.7	0.44	5.5	2.0	0.35	0.08	0.06	0.06
17	2.1	0.35	e0.32	e1.1	e2.8	0.72	4.8	1.8	0.35	0.09	0.06	0.04
18	1.9	0.29	e0.40	e1.2	e2.9	0.70	7.2	1.7	0.33	0.06	0.10	0.03
19	1.7	0.21	e0.60	e1.3	e3.0	0.68	5.6	1.6	0.27	0.04	0.07	0.05
20	1.8	0.11	e0.85	e1.4	e2.8	0.63	4.4	1.6	0.26	0.04	0.07	0.06
21	1.3	0.06	e0.60	e1.4	e2.7	0.62	3.9	1.7	0.23	0.04	0.07	0.05
22	0.73	0.09	e0.40	e1.3	e2.5	0.59	3.3	1.9	0.22	0.04	0.08	0.04
23	0.64	0.36	e0.30	e1.0	e2.3	0.61	4.4	2.5	0.22	0.04	0.17	0.06
24	0.84	0.30	e0.85	e1.2	e2.5	0.62	4.2	1.9	0.20	0.05	0.22	0.04
25	0.77	0.28	e0.60	e1.3	e2.7	0.35	4.0	0.28	0.23	0.05	0.22	0.05
26	0.47	0.31	e0.40	e1.4	e2.8	0.00	3.7	0.86	0.23	0.04	0.19	0.06
27	1.3	0.28	e0.30	e1.5	e2.9	0.00	4.7	0.79	0.22	0.04	0.06	0.07
28	0.45	0.27	e0.25	e1.7	e2.9	0.00	9.9	0.78	0.21	0.04	0.05	0.07
29	0.44	0.26	e0.60	e2.0	e2.9	0.00	16	0.75	0.23	0.05	0.09	0.08
30	0.50	0.26	e1.2	e2.4	---	0.00	15	0.65	0.24	0.05	0.10	0.08
31	0.54	---	e1.2	e3.0	---	0.00	---	0.58	---	0.05	0.11	---
TOTAL	47.25	9.94	14.98	39.30	76.4	48.46	109.25	174.79	9.73	2.92	2.73	2.60
MEAN	1.52	0.33	0.48	1.27	2.63	1.56	3.64	5.64	0.32	0.09	0.09	0.09
MAX	2.5	0.66	1.2	3.0	3.0	2.9	16	13	0.49	0.19	0.22	0.15
MIN	0.44	0.06	0.24	0.70	2.3	0.00	0.00	0.28	0.20	0.04	0.05	0.03
AC-FT	94	20	30	78	152	96	217	347	19	5.8	5.4	5.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2004, BY WATER YEAR (WY)

MEAN	5.16	3.37	2.69	2.56	2.76	2.46	10.3	39.5	24.3	5.51	6.68	5.73
MAX	9.38	10.3	8.65	5.00	5.07	5.61	32.1	99.9	110	16.0	21.1	13.6
(WY)	(2001)	(2000)	(2000)	(1994)	(1994)	(1997)	(1997)	(1997)	(1995)	(1995)	(1999)	(1999)
MIN	0.56	0.33	0.48	0.96	0.77	0.76	0.82	0.96	0.27	0.09	0.09	0.09
(WY)	(2002)	(2004)	(2004)	(2001)	(2001)	(1999)	(2001)	(2003)	(2002)	(2004)	(2004)	(2004)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1994 - 2004

ANNUAL TOTAL	558.23		538.35			
ANNUAL MEAN	1.53		1.47		9.28	
HIGHEST ANNUAL MEAN					21.2	1995
LOWEST ANNUAL MEAN					1.47	2004
HIGHEST DAILY MEAN	6.3	Aug 1	16	Apr 29	244	Jun 6, 1995
LOWEST DAILY MEAN	0.05	Jul 2	0.00	Mar 26	0.00	Jul 23, 1994
ANNUAL SEVEN-DAY MINIMUM	0.14	Jul 9	0.00	Mar 26	0.00	Mar 26, 2004
ANNUAL RUNOFF (AC-FT)	1,110		1,070		6,720	
10 PERCENT EXCEEDS	3.2		2.9		20	
50 PERCENT EXCEEDS	1.4		0.44		2.8	
90 PERCENT EXCEEDS	0.28		0.05		0.38	

e Estimated