

JORDAN RIVER BASIN

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10157500 DANIELS CREEK AT CHARLESTON, UT

LOCATION.--Lat 40°27'39", long 111°28'19", in SE^{1/4}NE^{1/4}NE^{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, Jun, Jul, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13 ft³/s, Aug 24, gage height, 2.16 ft; no flow several days in May, Jun, Jul.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	1.9	1.6	e2.1	2.0	1.4	1.7	1.2	0.84	0.35	6.3	3.8
2	2.4	2.0	1.6	e2.1	2.0	1.4	1.6	0.93	0.87	0.05	3.6	3.4
3	2.2	2.0	1.7	e2.2	2.0	1.4	1.6	0.95	0.87	0.11	3.2	3.6
4	2.1	1.9	1.8	e2.2	2.0	1.3	1.6	0.61	0.76	0.35	4.1	2.1
5	2.1	1.8	1.5	e2.2	e2.0	1.3	1.7	0.59	0.70	0.41	5.8	2.9
6	2.1	1.7	1.7	e2.2	e1.6	1.3	2.1	0.57	0.66	0.40	4.8	3.2
7	2.0	1.7	1.7	e2.2	e1.5	1.2	2.1	0.61	0.48	0.41	3.1	3.4
8	1.8	2.0	1.7	e2.2	e1.4	1.2	2.1	0.13	0.66	0.40	5.4	3.4
9	1.7	1.9	1.7	e2.1	e1.4	1.2	1.9	0.92	0.42	0.15	6.0	3.1
10	1.7	1.8	1.7	e2.2	e1.5	1.2	1.6	1.6	0.40	0.22	4.1	3.3
11	1.6	1.8	1.7	e2.1	e1.5	1.2	1.6	1.7	0.49	0.05	0.47	2.9
12	1.8	1.9	1.8	e2.1	e1.5	1.2	1.4	1.8	0.38	0.09	3.0	2.6
13	1.8	1.9	1.9	e1.9	e1.5	1.2	1.2	1.7	0.76	0.28	4.2	2.7
14	1.7	1.9	1.9	e1.9	e1.6	1.1	1.2	1.7	0.67	0.08	4.2	2.7
15	1.6	1.8	1.9	e1.9	e1.6	1.1	1.4	1.1	0.47	0.10	4.2	2.6
16	1.5	1.5	1.9	e2.0	1.5	1.1	1.4	0.74	0.47	0.34	3.2	2.4
17	1.4	1.4	2.0	e2.0	1.5	1.1	1.4	0.85	0.24	0.21	2.2	2.6
18	1.3	1.4	2.0	e1.9	1.5	1.1	1.6	0.71	0.75	0.17	2.9	2.6
19	1.3	1.5	2.0	e1.9	1.5	1.1	1.5	1.3	0.70	0.08	1.4	2.6
20	1.3	1.4	1.9	e1.9	1.4	1.1	1.5	0.90	0.60	0.22	3.6	2.9
21	1.3	1.4	1.8	e2.0	1.4	1.1	1.4	0.84	0.48	0.15	4.6	3.5
22	1.3	1.4	1.8	e2.0	1.5	1.1	1.4	0.50	0.44	0.10	5.1	3.3
23	1.4	1.4	1.8	e2.2	1.5	1.1	1.4	0.16	0.08	2.5	5.4	3.1
24	1.5	1.4	1.7	e2.2	1.5	1.1	1.5	0.40	0.30	3.9	5.4	2.8
25	1.6	1.5	2.0	e2.2	1.4	1.3	1.4	1.1	0.23	2.8	4.9	1.9
26	1.6	1.5	1.9	2.2	1.4	1.7	1.2	0.54	0.52	4.7	2.9	1.5
27	1.6	1.5	1.9	2.2	1.4	1.8	1.3	1.4	0.53	4.9	2.9	0.83
28	1.7	1.5	1.8	2.3	1.4	1.9	1.4	1.3	0.47	4.2	3.9	1.4
29	1.7	1.5	1.8	2.1	---	1.9	1.5	1.2	0.44	4.2	3.8	1.6
30	1.7	1.5	1.9	2.1	---	1.9	1.1	0.81	0.40	4.1	4.0	2.4
31	1.8	---	2.0	2.1	---	1.9	---	0.80	---	4.9	3.9	---
TOTAL	53.0	49.8	56.1	64.9	44.0	41.0	45.8	29.66	16.08	40.92	122.57	81.13
MEAN	1.71	1.66	1.81	2.09	1.57	1.32	1.53	0.96	0.54	1.32	3.95	2.70
MAX	2.4	2.0	2.0	2.3	2.0	1.9	2.1	1.8	0.87	4.9	6.3	3.8
MIN	1.3	1.4	1.5	1.9	1.4	1.1	1.1	0.13	0.08	0.05	0.47	0.83
AC-FT	105	99	111	129	87	81	91	59	32	81	243	161

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2003, BY WATER YEAR (WY)

MEAN	5.52	3.67	2.91	2.69	2.77	2.54	10.9	42.8	26.7	6.05	7.34	6.30
(WY)	(2001)	(2000)	(2000)	(1994)	(1994)	(1997)	(1997)	(1997)	(1995)	(1995)	(1999)	(1999)
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)	(2002)	(2002)	(1999)	(2001)	(2001)	(1999)	(2001)	(2001)	(2003)	(2002)	(2001)	(2001)
MIN	0.56	0.88	1.09	0.96	0.77	0.76	0.82	0.96	0.27	0.22	0.21	0.79

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10157500 DANIELS CREEK AT CHARLESTON, UT—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1994 - 2003
ANNUAL TOTAL	684.22	644.96	
ANNUAL MEAN	1.87	1.77	
HIGHEST ANNUAL MEAN			10.1
LOWEST ANNUAL MEAN			21.2
HIGHEST DAILY MEAN	5.6	May 23	1.67
LOWEST DAILY MEAN	0.00	Jun 16	244
ANNUAL SEVEN-DAY MINIMUM	0.07	Jun 14	Jun 6, 1995
ANNUAL RUNOFF (AC-FT)	1,360	1,280	2002
10 PERCENT EXCEEDS	3.1	3.2	Jul 23, 1994
50 PERCENT EXCEEDS	1.8	1.6	0.00
90 PERCENT EXCEEDS	0.49	0.47	0.01
Jul 19, 1994			

e Estimated

