10172800 SOUTH WILLOW CREEK NEAR GRANTSVILLE, UT

LOCATION.--Lat 40°29'47", long 112°34'25", in SW$^1/_4$NW$^1/_4$SW$^1/_4$ sec. 6, T. 4 S., R. 6 W., Tooele County, Hydrologic Unit 16020304, on right bank 200 ft upstream from Forest Service Guard Station, 1.7 mi above Wasatch National Forest boundary, 9.2 mi southwest of Grantsville, and 14.8 mi west of Tooele.

DRAINAGE AREA.--4.19 mi^2. Area at crest-stage gage site, 3.26 mi^2.

PERIOD OF RECORD.--July 1963 to current year. Annual maximum only, July 1960 to July 1963, at crest-stage gage site.

REVISED RECORDS.--WDR UT-83-1: 1982.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 6,360 ft above sea level, from topographic map. Prior to July 23, 1963, crest-stage gage only, at site 1.4 mi upstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 118 ft^3/s, July 24, 1998, gage height, 2.45 ft, from rating extended above 75 ft^3/s by slope-conveyance methods; minimum daily discharge, 1.4 ft^3/s, Jan 5, 1993.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 15	2200	*28	*1.56				

Minimum daily discharge, 1.8 ft^3/s, several days in Mar.

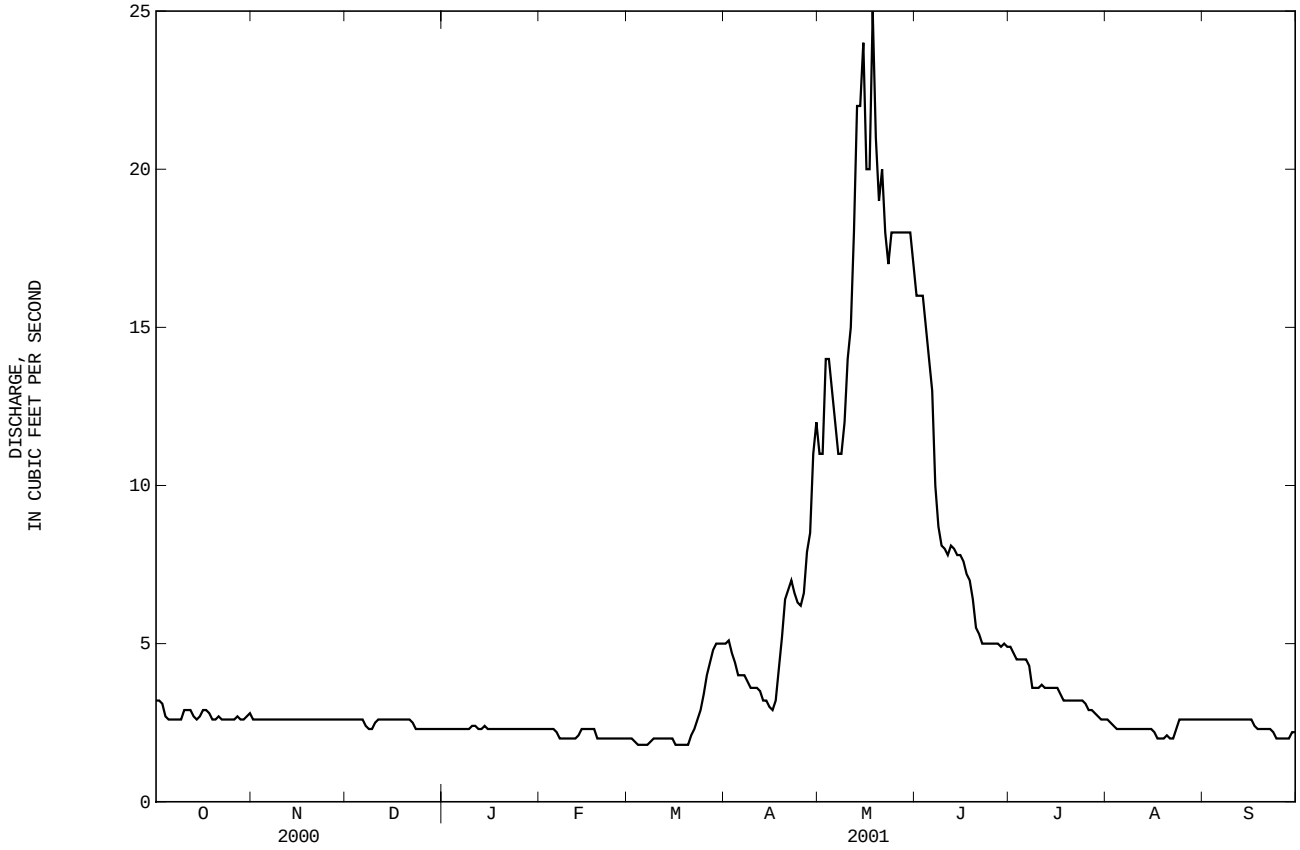
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	2.6	2.6	2.3	2.3	2.0	5.0	11	16	4.9	2.6	2.6
2	3.2	2.6	2.6	2.3	2.3	2.0	5.1	11	16	4.7	2.5	2.6
3	3.1	2.6	2.6	2.3	2.3	1.9	4.7	14	16	4.5	2.4	2.6
4	2.7	2.6	2.6	2.3	2.3	1.8	4.4	14	15	4.5	2.3	2.6
5	2.6	2.6	2.6	2.3	2.3	1.8	4.0	13	14	4.5	2.3	2.6
6	2.6	2.6	2.6	2.3	2.2	1.8	4.0	12	13	4.5	2.3	2.6
7	2.6	2.6	2.4	2.3	2.0	1.8	4.0	11	10	4.3	2.3	2.6
8	2.6	2.6	2.3	2.3	2.0	1.9	3.8	11	8.7	3.6	2.3	2.6
9	2.6	2.6	2.3	2.3	2.0	2.0	3.6	12	8.1	3.6	2.3	2.6
10	2.9	2.6	2.5	2.4	2.0	2.0	3.6	14	8.0	3.6	2.3	2.6
11	2.9	2.6	2.6	2.4	2.0	2.0	3.6	15	7.8	3.7	2.3	2.6
12	2.9	2.6	2.6	2.3	2.0	2.0	3.5	18	8.1	3.6	2.3	2.6
13	2.7	2.6	2.6	2.3	2.1	2.0	3.2	22	8.0	3.6	2.3	2.6
14	2.6	2.6	2.6	2.4	2.3	2.0	3.2	22	7.8	3.6	2.3	2.6
15	2.7	2.6	2.6	2.3	2.3	2.0	3.0	24	7.8	3.6	2.3	2.6
16	2.9	2.6	2.6	2.3	2.3	1.8	2.9	20	7.6	3.6	2.2	2.6
17	2.9	2.6	2.6	2.3	2.3	1.8	3.2	20	7.2	3.4	2.0	2.4
18	2.8	2.6	2.6	2.3	2.3	1.8	4.2	25	7.0	3.2	2.0	2.3
19	2.6	2.6	2.6	2.3	2.0	1.8	5.2	21	6.4	e3.2	2.0	2.3
20	2.6	2.6	2.6	2.3	2.0	1.8	6.4	19	5.5	e3.2	2.1	2.3
21	2.7	2.6	2.6	2.3	2.0	2.1	6.7	20	5.3	3.2	2.0	2.3
22	2.6	2.6	2.5	2.3	2.0	2.3	7.0	18	5.0	3.2	2.0	2.3
23	2.6	2.6	2.3	2.3	2.0	2.6	6.6	17	5.0	3.2	2.3	2.2
24	2.6	2.6	2.3	2.3	2.0	2.9	6.3	18	5.0	3.2	2.6	2.0
25	2.6	2.6	2.3	2.3	2.0	3.4	6.2	18	5.0	3.1	2.6	2.0
26	2.6	2.6	2.3	2.3	2.0	4.0	6.6	18	5.0	2.9	2.6	2.0
27	2.7	2.6	2.3	2.3	2.0	4.4	7.9	18	5.0	2.9	2.6	2.0
28	2.6	2.6	2.3	2.3	2.0	4.8	8.5	18	4.9	2.8	2.6	2.0
29	2.6	2.6	2.3	2.3	---	5.0	11	18	5.0	2.7	2.6	2.2
30	2.7	2.6	2.3	2.3	---	5.0	12	18	4.9	2.6	2.6	2.2
31	2.8	---	2.3	2.3	---	5.0	---	17	---	2.6	2.6	---
TOTAL	84.8	78.0	76.9	71.6	59.3	79.5	159.4	527	248.1	109.8	72.5	72.1
MEAN	2.74	2.60	2.48	2.31	2.12	2.56	5.31	17.0	8.27	3.54	2.34	2.40
MAX	3.2	2.6	2.6	2.4	2.3	5.0	12	25	16	4.9	2.6	2.6
MIN	2.6	2.6	2.3	2.3	2.0	1.8	2.9	11	4.9	2.6	2.0	2.0
AC-FT	168	155	153	142	118	158	316	1050	492	218	144	143

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)

MEAN	3.69	3.42	3.06	2.97	2.96	3.68	6.44	16.3	19.6	9.77	5.24	4.16
MAX	7.59	6.57	5.79	5.61	5.84	7.13	12.0	40.0	46.0	24.6	12.6	9.54
(WY)	1984	1985	1985	1984	1984	1986	1986	1984	1984	1984	1984	1982
MIN	1.71	1.70	1.64	1.50	1.54	1.53	2.42	4.38	4.00	2.55	1.91	1.71
(WY)	1991	1991	1991	1991	1991	1991	1967	1977	1992	1992	1992	1992

10172800 SOUTH WILLOW CREEK NEAR GRANTSVILLE, UT--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1964 - 2001	
ANNUAL TOTAL	1577.4		1639.0			
ANNUAL MEAN	4.31		4.49		6.79	
HIGHEST ANNUAL MEAN					14.9	1984
LOWEST ANNUAL MEAN					3.03	1977
HIGHEST DAILY MEAN	19	May 29	25	May 18	84	Jun 1 1984
LOWEST DAILY MEAN	2.3	Dec 8	1.8	Mar 4	1.4	Jan 5 1993
ANNUAL SEVEN-DAY MINIMUM	2.3	Dec 23	1.9	Mar 2	1.5	Dec 24 1990
ANNUAL RUNOFF (AC-FT)	3130		3250		4920	
10 PERCENT EXCEEDS	7.5		11		15	
50 PERCENT EXCEEDS	3.2		2.6		3.9	
90 PERCENT EXCEEDS	2.6		2.0		2.2	

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