

TOOELE VALLEY

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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 mi². Area at crest-stage gage site, 3.26 mi².

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 NGVD of 1929, 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 ft³/s, July 24, 1998, gage height, 2.45 ft, from rating extended above 75 ft³/s by slope-conveyance methods; minimum daily discharge, 1.3 ft³/s, Mar 7, 8, 2004.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jun 6	1245	*20	*1.52				

Minimum discharge, 1.3 ft³/s, Mar 7, 8.

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	2.0	1.8	1.4	1.7	e1.9	1.6	4.6	7.7	9.6	8.8	3.6	2.2
2	2.0	1.8	1.4	1.5	e1.8	1.6	4.8	8.4	9.8	8.4	3.4	1.9
3	2.0	1.8	1.4	e1.4	e1.7	1.6	5.0	9.4	9.9	8.2	3.2	2.1
4	2.0	1.8	1.4	e1.4	e1.8	1.6	5.0	11	11	7.8	3.0	2.1
5	2.2	1.8	1.4	e1.5	e1.8	1.6	5.0	14	16	7.8	2.9	1.9
6	e2.3	1.8	1.4	e1.6	e1.7	1.4	5.6	17	18	7.4	2.9	1.8
7	2.3	1.8	e1.5	e1.7	e1.7	1.3	6.3	14	15	7.2	2.9	1.8
8	2.4	e1.7	1.5	e1.8	e1.7	1.3	6.7	13	17	6.9	2.7	1.8
9	2.3	1.6	1.4	e1.9	e1.7	1.5	6.7	16	18	6.5	2.6	1.8
10	2.3	1.6	1.4	e1.8	e1.7	1.8	6.7	15	17	5.9	2.6	1.8
11	2.3	1.6	1.4	e1.4	e1.6	2.0	6.6	15	14	5.5	2.6	1.8
12	2.4	1.6	1.4	e1.8	e1.6	2.1	6.7	15	11	5.3	2.6	1.8
13	2.0	1.6	1.5	e1.8	e1.6	2.3	6.6	15	10	5.0	2.6	1.8
14	2.2	1.6	1.6	e1.8	e1.6	2.5	6.4	12	9.9	5.0	2.6	1.8
15	2.3	1.6	1.4	e1.8	e1.6	2.6	6.2	11	9.4	5.2	2.5	1.8
16	2.3	1.6	1.4	e1.8	e1.6	2.7	6.2	11	9.1	5.0	2.3	1.8
17	2.3	1.5	1.5	e1.8	e1.6	2.9	6.2	11	9.2	5.0	2.3	1.8
18	2.3	1.4	1.6	e1.8	e1.6	2.9	5.8	12	9.3	5.0	2.5	1.8
19	2.3	1.4	1.4	e1.8	e1.7	3.2	5.5	12	9.6	4.7	2.4	1.8
20	2.3	1.4	1.6	e1.9	e1.7	3.3	5.2	13	9.8	4.5	2.5	1.8
21	2.2	1.5	1.6	e1.9	e1.6	3.8	5.0	14	9.7	4.5	2.4	1.8
22	2.0	1.6	1.6	e1.9	e1.6	4.5	5.3	13	10	4.5	2.3	1.8
23	2.0	1.6	1.6	e1.8	1.6	5.9	5.0	13	10	4.5	2.4	1.8
24	2.0	1.6	1.6	e1.8	1.6	7.0	5.0	11	10	4.2	2.5	1.8
25	2.0	1.6	1.8	e1.8	1.6	6.7	5.0	11	10	4.0	2.3	1.8
26	2.0	1.6	1.9	e1.8	1.8	7.2	5.0	11	9.9	4.0	2.3	1.8
27	2.0	1.6	1.8	e1.8	1.8	6.7	5.1	11	9.8	3.8	2.3	1.8
28	2.0	1.6	1.8	e1.9	1.7	6.4	6.1	11	9.8	3.7	2.3	1.8
29	2.0	1.6	1.8	e1.9	1.7	6.1	6.7	10	9.8	4.0	2.3	1.8
30	1.9	1.6	1.8	e1.9	---	5.5	7.2	9.5	9.3	3.8	2.3	1.8
31	1.8	---	1.8	e1.9	---	4.5	---	9.6	---	3.6	2.3	---
TOTAL	66.4	48.7	48.1	54.4	48.7	106.1	173.2	376.6	340.9	169.7	80.4	55.2
MEAN	2.14	1.62	1.55	1.75	1.68	3.42	5.77	12.1	11.4	5.47	2.59	1.84
MAX	2.4	1.8	1.9	1.9	1.9	7.2	7.2	17	18	8.8	3.6	2.2
MIN	1.8	1.4	1.4	1.4	1.6	1.3	4.6	7.7	9.1	3.6	2.3	1.8
AC-FT	132	97	95	108	97	210	344	747	676	337	159	109

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	3.57	3.30	2.96	2.88	2.87	3.58	6.32	15.9	19.0	9.35	5.03	4.00
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	1.62	1.55	1.50	1.54	1.53	2.42	4.38	4.00	2.55	1.91	1.71
(WY)	(1991)	(2004)	(2004)	(1991)	(1991)	(1991)	(1967)	(1977)	(1992)	(1992)	(1992)	(1992)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1964 - 2004
ANNUAL TOTAL	1,356.1	1,568.4	
ANNUAL MEAN	3.72	4.29	
HIGHEST ANNUAL MEAN			6.58
LOWEST ANNUAL MEAN			14.9
HIGHEST DAILY MEAN	25	May 26	3.03
LOWEST DAILY MEAN	1.4	Nov 18	1984
ANNUAL SEVEN-DAY MINIMUM	1.4	Dec 1	1977
ANNUAL RUNOFF (AC-FT)	2,690	3,110	84 Jun 1, 1984
10 PERCENT EXCEEDS	7.4	10	1.3 Mar 7, 2004
50 PERCENT EXCEEDS	2.0	2.3	1.4 Dec 1, 2003
90 PERCENT EXCEEDS	1.6	1.6	4,770 15 3.8 2.1

e Estimated

