

## TOOELE VALLEY

1

10172800 SOUTH WILLOW CREEK NEAR GRANTSVILLE, UT

LOCATION.--Lat  $40^{\circ}29'47''$ , long  $112^{\circ}34'25''$ , in SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$  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 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 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, Jan 31, Feb 1, 2, 3, Mar 16, 18, 19, 2002.

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 26	0245	*26	*1.55				

Minimum daily discharge, 1.6 ft $^3$ /s, Mar 5, 8, 9, 10, 12.

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	2.1	1.8	1.8	1.8	1.8	1.8	2.3	5.5	20	4.7	2.8	1.8
2	2.0	1.8	1.8	1.8	1.9	1.8	2.3	5.5	24	4.3	2.8	1.8
3	2.0	1.8	1.8	1.8	1.8	1.7	2.3	5.6	24	4.0	2.8	1.8
4	2.0	1.8	1.8	1.8	1.8	1.7	2.3	5.5	20	4.0	2.5	1.8
5	2.0	1.8	1.8	1.8	1.8	1.6	2.6	5.1	16	3.8	2.3	1.8
6	2.0	1.8	1.8	1.8	1.8	1.8	2.6	5.0	14	3.6	2.3	1.8
7	2.0	1.8	1.8	1.8	1.8	1.7	2.6	5.1	13	3.4	2.3	1.8
8	2.0	2.2	1.8	1.8	1.8	1.6	2.6	5.0	13	3.2	2.4	1.9
9	2.0	2.1	1.8	1.8	1.8	1.6	2.6	5.0	12	3.2	2.3	2.1
10	2.0	2.0	1.8	1.8	1.8	1.6	2.6	5.1	11	3.2	2.2	2.0
11	2.0	2.0	1.8	1.8	1.8	1.7	2.6	5.5	11	3.1	2.2	2.0
12	2.0	1.9	1.8	1.8	1.8	1.6	2.7	6.0	11	3.2	2.3	2.0
13	2.0	1.8	1.8	1.8	1.8	1.7	3.0	6.8	e10	3.4	2.2	2.0
14	2.0	1.8	1.8	1.8	1.9	1.8	3.4	9.7	9.5	3.2	2.2	2.0
15	2.0	1.8	1.8	1.8	1.8	1.9	4.5	12	9.4	3.1	2.2	2.0
16	2.0	1.8	1.8	1.8	1.8	2.1	4.5	12	8.7	3.1	2.4	2.0
17	2.0	1.8	1.8	1.8	1.8	2.0	4.6	13	8.2	3.0	2.2	2.0
18	2.0	1.8	1.8	1.8	1.8	2.0	4.7	14	7.8	2.9	2.0	1.9
19	2.0	1.8	1.8	1.8	1.8	1.8	4.3	16	7.2	2.9	2.0	1.8
20	2.0	1.8	1.8	1.8	1.8	1.8	3.6	15	6.9	2.9	2.1	1.8
21	2.0	1.8	1.8	1.8	1.8	1.8	3.6	15	6.7	2.9	2.3	2.0
22	2.0	1.8	1.8	1.8	1.8	1.8	3.6	16	6.7	2.7	2.3	1.8
23	1.9	1.8	1.8	1.8	1.8	1.9	3.6	15	6.7	2.7	2.2	1.9
24	1.8	1.8	1.8	1.8	1.8	1.8	3.6	16	6.7	2.9	2.0	2.0
25	1.8	1.8	1.8	1.8	1.8	2.0	4.4	19	6.7	2.9	2.0	2.0
26	1.9	1.8	1.8	1.8	1.8	2.2	4.7	25	6.4	2.9	2.0	2.0
27	1.8	1.8	1.8	1.9	1.7	2.3	5.0	23	5.8	2.9	2.0	2.0
28	1.8	1.8	1.8	1.9	1.7	2.3	5.4	22	5.5	2.9	1.8	2.0
29	1.8	1.8	1.8	1.8	---	2.3	5.5	22	5.2	2.9	1.9	2.0
30	1.8	1.8	1.8	1.8	---	2.3	5.5	21	5.0	2.8	1.8	2.0
31	1.8	---	1.8	1.8	---	2.3	---	20	---	2.8	1.8	---
TOTAL	60.5	55.2	55.8	56.0	50.4	58.5	107.6	376.4	318.1	99.5	68.6	57.8
MEAN	1.95	1.84	1.80	1.81	1.80	1.89	3.59	12.1	10.6	3.21	2.21	1.93
MAX	2.1	2.2	1.8	1.9	1.9	2.3	5.5	25	24	4.7	2.8	2.1
MIN	1.8	1.8	1.8	1.8	1.7	1.6	2.3	5.0	5.0	2.7	1.8	1.8
AC-FT	120	109	111	111	100	116	213	747	631	197	136	115

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2003, BY WATER YEAR (WY)

MEAN	3.61	3.35	2.99	2.91	2.90	3.59	6.34	16.0	19.2	9.45	5.09	4.06
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)

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10172800 SOUTH WILLOW CREEK NEAR GRANTSVILLE, UT—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1964 - 2003
ANNUAL TOTAL	1,387.5	1,364.4	
ANNUAL MEAN	3.80	3.74	
HIGHEST ANNUAL MEAN			6.64
LOWEST ANNUAL MEAN			14.9
HIGHEST DAILY MEAN	26	Jun 3	3.03
LOWEST DAILY MEAN	1.4	Jan 31	1984
ANNUAL SEVEN-DAY MINIMUM	1.5	Jan 29	1977
ANNUAL RUNOFF (AC-FT)	2,750	2,710	84 Jun 1, 1984
10 PERCENT EXCEEDS	9.1	7.4	1.4 Jan 5, 1993
50 PERCENT EXCEEDS	2.0	2.0	1.5 Jan 29, 2002
90 PERCENT EXCEEDS	1.6	1.8	4,810 15 3.8 2.1

e Estimated

