

09410100 SANTA CLARA RIVER BELOW WINSOR DAM, NEAR SANTA CLARA, UT

LOCATION.--Lat 37°11'22", long 113°46'02", in NE¹/₄NW¹/₄SW¹/₄ sec. 28, T. 41 S., R. 17 W., Washington County, Hydrologic Unit 15010008, on right bank 1,100 ft downstream from Winsor Dam, 0.6 mi northwest of Shivwits Indian Village, and 7.5 mi northwest of Santa Clara.

DRAINAGE AREA.--378 mi².

PERIOD OF RECORD.--December 1971 to September 2001 (discontinued).

REVISED RECORDS.--WDR UT-73-1:1972(M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 3,210 ft above sea level, from topographic map. Prior to March 29, 1988, at several sites upstream and downstream at different datums.

REMARKS.--Records good except for daily discharges less than 2.0 ft³/s, which are poor. Flow regulated by Gunlock Reservoir. Several diversions upstream for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,460 ft³/s, Mar 12, 1995, gage height, 20.17 ft, from rating curve extended above 1,300 ft³/s on basis of slope-area measurement; no flow several days most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 5,850 ft³/s, flood of 1938 (exact date unknown), gage height, 7.90 ft (datum then in use), from slope area measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 84 ft³/s, Oct 30, gage height, 11.74 ft; minimum, no flow on many days.

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	.00	.00	.00	.01	.19	1.1	8.8	3.9	17	12	13	11
2	.00	.00	.00	.00	.20	1.1	8.3	7.5	16	12	12	12
3	.00	.00	.00	.01	.17	.98	8.9	9.6	16	11	12	11
4	.00	.00	.00	.01	.15	.87	8.7	11	15	11	12	11
5	.00	.00	.00	.03	.15	.98	8.8	12	15	13	11	10
6	.00	.00	.00	.03	.14	.67	6.9	11	13	14	11	5.5
7	.00	.00	.00	.04	.12	.82	6.2	10	12	14	11	3.2
8	.00	.00	.00	.02	.17	.57	6.2	9.7	12	13	11	4.2
9	.00	.00	.00	.03	.21	.67	6.0	11	12	13	12	8.9
10	.16	.00	.00	.02	.19	2.0	6.3	14	13	13	12	10
11	.00	.01	.00	.11	.16	1.1	6.4	13	12	12	12	10
12	.00	.00	.01	.07	.16	1.0	6.1	14	13	12	12	10
13	.00	.00	.00	.05	.16	.88	6.2	14	15	13	12	10
14	.00	.00	.00	.06	.17	.80	5.6	14	16	14	11	9.7
15	.00	.00	.00	.06	.15	4.5	5.2	14	18	17	10	9.5
16	.00	.00	.00	1.6	.16	6.3	4.6	13	18	16	9.9	9.3
17	.00	.00	.00	2.1	.18	6.3	4.8	14	16	12	10	9.2
18	.00	.00	.00	2.0	.16	6.0	6.9	15	14	12	10	9.2
19	.00	.00	.01	1.5	.16	5.5	7.7	15	15	11	10	9.2
20	.00	.00	.01	1.5	.17	4.9	8.3	15	15	10	12	9.4
21	.00	.00	.01	1.8	.18	4.9	9.0	24	15	11	12	9.5
22	.00	.00	.01	2.3	.18	4.8	8.7	31	15	11	12	9.7
23	.02	.00	.01	2.8	.20	5.0	8.0	30	15	13	12	10
24	.00	.00	.01	2.2	.28	7.1	7.5	22	14	13	11	10
25	.00	.00	.00	1.7	.34	9.1	7.1	21	14	12	10	11
26	.00	.00	.00	1.5	.38	10	7.0	17	15	13	9.8	11
27	.85	.00	.00	1.4	.34	10	6.1	16	16	12	11	11
28	.00	.00	.00	1.2	1.4	10	4.8	17	14	11	11	10
29	.00	.00	.00	3.2	---	10	4.7	19	14	11	11	9.9
30	3.6	.00	.01	1.8	---	10	4.4	17	13	12	11	9.5
31	.00	---	.01	.25	---	9.0	---	15	---	13	11	---
TOTAL	4.63	0.01	0.09	29.40	6.62	136.94	204.2	469.7	438	387	347.7	283.9
MEAN	.15	.000	.003	.95	.24	4.42	6.81	15.2	14.6	12.5	11.2	9.46
MAX	3.6	.01	.01	3.2	1.4	10	9.0	31	18	17	13	12
MIN	.00	.00	.00	.00	.12	.57	4.4	3.9	12	10	9.8	3.2
AC-FT	9.2	.02	.2	58	13	272	405	932	869	768	690	563

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2001, BY WATER YEAR (WY)

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	3.50	5.23	3.58	12.6	31.7	50.0	43.5	38.2	33.5	17.9	14.9	10.3																	
MAX	27.1	43.6	35.2	158	366	260	169	157	168	46.2	33.9	29.1																	
(WY)	1984	1984	1984	1980	1980	1995	1978	1973	1983	1983	1980	1980																	
MIN	.000	.000	.000	.000	.000	.14	6.08	5.06	8.03	.90	.33	.000																	
(WY)	1978	1978	1991	1975	1975	1977	1977	1977	1991	1990	1990	1977																	

SUMMARY STATISTICS

	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	FOR 2000 WATER YEAR	FOR 2001 WATER YEAR	FOR 2000 WATER YEAR	FOR 2001 WATER YEAR	FOR 2000 WATER YEAR	FOR 2001 WATER YEAR
ANNUAL TOTAL	2089.67	2308.19						
ANNUAL MEAN	5.71	6.32						
HIGHEST ANNUAL MEAN			22.0					
LOWEST ANNUAL MEAN			90.1					1980
HIGHEST DAILY MEAN			3.76					1990
LOWEST DAILY MEAN	21	May 9	31	May 22	1530	Mar 3	1983	
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 23	.00	Oct 1	.00	Oct 8	1972	
ANNUAL RUNOFF (AC-FT)	.00	Sep 2	.00	Oct 1	.00	Oct 8	1972	
10 PERCENT EXCEEDS	4140		4580		15940			
50 PERCENT EXCEEDS	15		14		47			
90 PERCENT EXCEEDS	1.2		6.0		11			
90 PERCENT EXCEEDS	.00		.00		.00			