

09409100 SANTA CLARA RIVER ABOVE BAKER RESERVOIR, NEAR CENTRAL, UT

Lower Colorado-Lake Mead Basin
Upper Virgin Subbasin

LOCATION.--Lat 37°23'05", long 113°37'52" referenced to North American Datum of 1927, in SW ¼ NW ¼ NE ¼ sec.22, T.39 S., R.16 W., Washington County, UT, Hydrologic Unit 15010008, on left bank 0.6 mi downstream from Kane Spring Draw, 0.8 mi upstream from Baker Dam, 2.6 mi south of Central and 4.0 mi north of Veyo.

DRAINAGE AREA.--116 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,875 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for flows less than 2.0 ft³/s, which are poor. Diversion 0.5 mi upstream for power generation and irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,700 ft³/s (estimated), Oct. 21, 2004, gage height, 6.80 ft, from rating curve extended above 190 ft³/s on basis of slope-area measurement at gage height 2.28 ft and velocity-area measurement at gage height 3.99 ft; minimum daily discharge, 0.08 ft³/s, Aug 9-14, 2002 and Aug 10, 11, 2003.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec 6, 1966 reached a discharge of 2,080 ft³/s, from flow over dam measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 335 ft³/s, Mar 29, gage height, 3.29 ft; minimum daily discharge, 0.36 ft³/s, Sep 29, 30.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.66	21	22	21	18	5.5	21	41	3.9	14	12	0.53
2	0.66	21	23	22	10	1.6	15	51	3.9	15	11	0.57
3	0.66	21	24	25	6.6	0.74	11	51	4.1	13	11	0.51
4	0.66	21	21	21	6.6	0.68	23	50	4.1	17	11	0.40
5	0.69	20	20	20	6.7	0.66	53	47	3.9	15	12	0.45
6	0.79	20	21	20	6.6	0.66	40	34	3.8	20	11	0.46
7	1.1	21	21	20	7.0	0.66	31	30	3.9	19	11	0.63
8	1.4	21	21	20	3.2	0.67	27	37	4.2	17	9.4	0.94
9	0.91	21	21	19	0.78	0.66	23	44	4.0	18	9.2	0.65
10	0.69	20	22	19	0.73	0.73	22	43	3.9	18	10	0.69
11	1.1	22	22	19	0.79	0.82	19	38	3.7	15	9.1	0.65
12	1.1	21	22	19	0.72	0.83	16	36	3.4	15	11	0.55
13	0.93	21	21	19	0.68	1.1	18	34	3.2	12	10	0.72
14	0.83	21	21	19	0.67	0.91	26	42	2.9	12	10	0.62
15	1.0	21	19	19	0.66	0.66	74	42	1.5	11	9.0	0.50
16	2.2	22	20	17	0.77	0.66	49	45	2.1	11	9.6	0.56
17	12	23	22	18	0.93	0.66	42	46	1.6	11	3.7	0.60
18	26	24	22	20	0.70	0.66	32	42	1.6	12	0.65	0.60
19	31	23	21	19	0.75	0.66	28	35	1.2	13	0.58	0.68
20	22	23	21	17	0.86	0.68	24	32	1.2	12	0.53	0.71
21	20	23	21	17	0.80	0.69	23	28	1.3	11	0.53	0.63
22	20	23	21	18	0.87	0.67	22	26	11	12	0.47	0.71
23	20	22	21	16	0.72	0.66	27	21	15	13	0.49	0.86
24	19	22	20	18	0.68	0.66	23	13	15	12	0.62	1.0
25	20	22	20	19	0.66	0.74	20	11	14	12	0.68	0.96
26	21	22	21	19	0.66	0.89	18	11	14	14	0.58	0.75
27	21	22	21	18	0.66	1.1	18	10	13	12	0.51	0.58
28	23	20	20	18	5.7	45	24	10	12	10	0.50	0.38
29	22	24	20	18	---	171	32	7.5	12	10	0.57	0.36
30	22	22	20	18	---	36	38	4.5	12	12	0.57	0.36
31	21	---	20	18	---	23	---	3.9	---	12	0.55	---
Total	335.38	650	652	590	84.49	300.61	839	965.9	181.4	420	177.83	18.61
Mean	10.8	21.7	21.0	19.0	3.02	9.70	28.0	31.2	6.05	13.5	5.74	0.62
Max	31	24	24	25	18	171	74	51	15	20	12	1.0
Min	0.66	20	19	16	0.66	0.66	11	3.9	1.2	10	0.47	0.36
Ac-ft	665	1,290	1,290	1,170	168	596	1,660	1,920	360	833	353	37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.11	8.38	5.87	7.06	3.63	10.5	12.3	27.3	23.4	8.59	3.99	3.45
Max	51.3	60.2	24.0	55.9	17.9	63.7	49.2	149	157	44.2	22.3	15.5
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(1995)	(2005)	(2005)	(2005)	(2005)	(2005)	(1995)
Min	0.31	0.50	0.40	0.47	0.30	0.31	0.35	0.47	0.16	0.11	0.10	0.23
(WY)	(2002)	(1990)	(1990)	(2000)	(2003)	(2002)	(2003)	(1990)	(2002)	(2002)	(2003)	(2001)

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SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1990 - 2006	
Annual total	17,390.71		5,215.22			
Annual mean	47.6		14.3		10.1	
Highest annual mean					54.5	2005
Lowest annual mean					1.39	1990
Highest daily mean	321	Jan 11	171	Mar 29	439	Oct 20, 2004
Lowest daily mean	0.66	Sep 27	0.36	Sep 29	0.08	Aug 9, 2002
Annual seven-day minimum	0.66	Sep 27	0.50	Aug 31	0.08	Aug 8, 2002
Annual runoff (ac-ft)	34,490		10,340		7,300	
10 percent exceeds	150		27		22	
50 percent exceeds	22		13		1.4	
90 percent exceeds	1.1		0.66		0.30	

