

11063682 East Branch California Aqueduct at Devil Canyon Powerplant, near San Bernardino, CA

Santa Ana River Basin

LOCATION.--Lat 34°12'20", long 117°20'01" referenced to North American Datum of 1927, San Bernardino County, CA, Hydrologic Unit 18070203, in San Bernardino Corporate Grant, in powerplant, and 5 mi northwest of San Bernardino.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1995 to September 2004, October 2005 to current year. Prior to October 1995, in files of California Department of Water Resources. Published as "Devil Canyon Powerplant" prior to October 1999.

GAGE.--Acoustic-velocity meters on 5 pipes. Elevation of gage is 1,939 ft above NGVD of 1929 (levels by California Department of Water Resources).

COOPERATION.--Records were computed by the California Department of Water Resources, under the general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 2426.

REMARKS.--This record is the total flow of the East Branch California Aqueduct, including flow through the powerplant and bypass flow, if any. See schematic diagram of the Mojave River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,970 ft³/s, July 19, 2006; no flow at times in some years.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,890	1,660	1,740	1,660	677	1,140	1,550	1,430	1,460	1,660	1,650	1,260
2	1,860	1,620	1,720	1,750	726	1,110	1,480	1,550	1,620	1,780	1,690	1,340
3	1,840	1,570	1,670	1,810	622	1,050	1,580	1,580	1,720	1,770	1,710	1,430
4	1,880	1,540	1,790	1,730	747	1,120	1,660	1,480	1,640	1,770	1,670	1,520
5	1,810	1,610	1,780	1,670	645	1,140	1,590	1,460	1,620	1,830	1,600	1,490
6	1,730	1,550	1,760	1,690	664	1,440	1,510	1,300	1,610	1,780	1,640	1,580
7	1,840	1,660	1,640	1,770	850	1,530	1,440	1,600	1,620	1,790	1,730	1,570
8	1,830	1,700	1,720	1,750	644	1,420	1,380	1,460	1,670	1,850	1,700	1,490
9	1,800	1,870	1,610	1,810	700	1,590	1,370	1,390	1,610	1,790	1,710	1,350
10	1,660	1,750	1,720	1,810	675	1,470	1,420	1,590	1,550	1,700	1,710	1,650
11	1,800	1,490	1,650	1,850	805	1,390	1,470	1,590	1,670	1,760	1,690	1,360
12	1,820	1,690	1,540	1,740	895	1,530	1,520	1,510	1,570	1,780	1,700	1,360
13	1,630	1,700	1,430	1,770	828	1,520	1,570	1,450	1,630	1,770	1,750	1,360
14	1,510	1,840	1,480	1,760	884	1,390	1,420	1,650	1,670	1,650	1,710	1,200
15	1,630	1,800	1,540	1,690	916	1,410	1,480	1,640	1,590	1,620	1,640	1,250
16	1,730	1,730	1,250	1,780	926	1,590	1,280	1,570	1,660	1,660	1,640	1,270
17	1,640	1,720	1,100	1,670	999	1,440	1,260	1,550	1,610	1,670	1,630	1,290
18	1,840	1,660	1,150	1,730	994	1,320	1,310	1,540	1,770	1,640	1,580	1,260
19	1,890	1,610	1,380	1,880	1,310	1,510	1,320	1,650	1,660	1,690	1,420	1,230
20	1,800	1,690	1,510	1,720	1,240	1,350	1,270	1,490	1,680	1,660	1,490	1,340
21	1,880	1,670	1,540	1,650	1,330	1,310	1,540	1,630	1,640	1,640	1,360	1,200
22	1,780	1,780	1,640	1,620	1,280	1,370	1,410	1,430	1,810	1,720	1,350	999
23	1,850	1,650	1,560	1,650	818	1,230	1,400	1,630	1,680	1,680	1,250	1,020
24	1,910	1,760	1,760	1,500	837	1,200	1,280	1,480	1,770	1,650	1,490	1,130
25	1,780	1,600	1,540	1,560	941	1,220	1,330	1,670	1,700	1,610	1,310	1,020
26	1,830	1,330	1,760	1,550	1,030	1,250	1,330	1,590	1,680	1,730	1,320	1,070
27	1,800	1,280	1,640	1,410	1,070	1,420	1,420	1,560	1,640	1,650	1,380	1,070
28	1,860	1,110	1,650	1,350	968	1,390	1,380	1,500	1,680	1,590	1,400	1,160
29	1,880	1,210	1,700	764	---	1,580	1,310	1,510	1,680	1,710	1,310	931
30	1,740	1,330	1,580	778	---	1,520	1,510	1,430	1,680	1,700	1,380	1,100
31	1,600	---	1,690	662	---	1,580	---	1,480	---	1,620	1,320	---
Total	55,340	48,180	49,240	49,534	25,021	42,530	42,790	47,390	49,590	52,920	47,930	38,300
Mean	1,785	1,606	1,588	1,598	894	1,372	1,426	1,529	1,653	1,707	1,546	1,277
Max	1,910	1,870	1,790	1,880	1,330	1,590	1,660	1,670	1,810	1,850	1,750	1,650
Min	1,510	1,110	1,100	662	622	1,050	1,260	1,300	1,460	1,590	1,250	931
Ac-ft	109,800	95,570	97,670	98,250	49,630	84,360	84,870	94,000	98,360	105,000	95,070	75,970

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	955	799	764	791	714	847	1,054	1,164	1,188	1,283	1,284	1,222
Max	1,785	1,606	1,588	1,598	1,637	1,387	1,426	1,603	1,690	1,840	1,840	1,815
(WY)	(2007)	(2007)	(2007)	(2007)	(2006)	(2004)	(2007)	(2004)	(2006)	(2006)	(2006)	(2006)
Min	189	145	119	82.6	3.23	102	577	585	712	749	825	631
(WY)	(1996)	(1996)	(1999)	(1997)	(1997)	(1997)	(1999)	(1999)	(1998)	(1998)	(1998)	(1998)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1996 - 2007	
Annual total	588,170		548,765			
Annual mean	1,611		1,503		1,007	
Highest annual mean					1,519	2006
Lowest annual mean					515	1998
Highest daily mean	1,970	Jul 19	1,910	Oct 24	1,970	Jul 19, 2006
Lowest daily mean	784	Mar 29	622	Feb 3	0.00	Dec 12, 1996
Annual seven-day minimum	1,050	Mar 25	678	Jan 31	0.00	Jan 21, 1997
Annual runoff (ac-ft)	1,167,000		1,088,000		729,500	
10 percent exceeds	1,870		1,780		1,610	
50 percent exceeds	1,660		1,580		1,070	
90 percent exceeds	1,270		1,110		203	

