

10260780 East Branch California Aqueduct at Mojave Siphon Powerplant, near Hesperia, CA

Mojave River Basin

LOCATION.--Lat 34°18'25", long 117°19'24" referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.32, T.3 N., R.4 W., San Bernardino County, CA, Hydrologic Unit 18090208, in San Bernardino National Forest, in powerplant and bypass channel, 0.2 mi north of Silverwood Lake, and 8.3 mi south of Hesperia.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1995 to September 2004, October 2005 to current year. Unpublished records for water years 1975-94 available in files of the California Department of Water Resources. Published as "Mojave Siphon Powerplant" prior to October 1999.

REVISED RECORDS.--WDR CA-00-1: 1997-99.

GAGE.--Acoustic-velocity meters on intake pipes. Water stage recorder in stilling well on bypass flume. Elevation of powerplant is 3,182 ft above NGVD of 1929. Elevation of bypass gage is 3,372.5 ft above NGVD of 1929, from California Department of Water Resources.

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

REMARKS.--Flow at this site represents East Branch California Aqueduct water to Silverwood Lake. Flow at this site has two components which are combined for publication: flow through the powerplant, and bypass flow through the flume. No flow through the bypass flume has occurred since Mar. 30, 2001. See schematic diagram of Mojave River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,260 ft³/s, Apr. 17, 2007; no flow for many days 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	1,830	2,100	1,750	288	1,890	1,570	546	1,070	1,930	1,570	1,440
2	1,660	1,670	2,100	1,710	220	2,080	1,610	1,240	970	1,440	1,530	1,330
3	1,670	1,070	2,100	1,330	182	1,920	1,760	1,590	1,720	1,710	1,590	9.6
4	1,440	1,320	2,090	1,480	103	1,940	601	1,560	1,600	1,920	1,700	893
5	1,780	1,620	2,040	1,740	204	825	260	1,300	1,470	1,830	1,600	1,480
6	1,680	1,270	2,070	1,810	56	1,070	1,670	1,300	1,510	1,790	1,530	1,670
7	1,880	1,310	2,070	1,640	24	1,360	1,810	1,490	1,340	1,780	1,690	1,610
8	1,860	1,390	1,530	1,690	0.00	1,610	1,990	1,430	1,630	1,670	1,530	1,870
9	1,930	1,050	2,110	1,660	0.00	971	1,930	1,380	1,750	1,790	1,630	1,830
10	1,660	1,480	2,090	1,730	0.00	1,490	1,790	1,460	1,830	1,520	1,730	1,670
11	1,820	1,080	1,950	1,740	0.00	1,870	1,720	1,630	1,760	1,870	1,720	1,140
12	1,760	1,280	1,680	1,740	0.00	1,930	1,980	1,490	1,650	2,000	2,030	9.1
13	1,720	1,340	1,460	1,740	0.00	1,280	1,840	1,570	1,500	1,740	902	0.00
14	1,740	1,350	1,460	1,690	0.00	1,090	1,890	1,680	1,170	1,870	1,790	0.00
15	1,840	1,330	1,460	1,600	0.00	1,190	1,790	1,440	1,280	1,960	1,890	1,550
16	2,010	1,310	1,410	1,730	0.00	1,370	1,580	1,520	1,220	2,020	1,690	2,010
17	1,700	1,310	1,300	1,730	106	1,620	2,260	1,540	1,060	2,060	1,760	1,420
18	1,810	1,220	1,360	1,550	1,710	1,610	1,260	1,730	1,670	2,030	1,730	1,250
19	1,710	2,030	837	1,550	1,830	1,470	1,180	1,710	956	1,950	1,830	1,250
20	1,650	2,030	1,310	1,720	1,920	1,410	1,140	1,180	1,420	1,870	1,850	1,700
21	1,840	2,000	1,390	2,040	1,850	1,530	1,290	1,660	1,430	1,870	1,470	1,550
22	1,940	2,140	1,440	2,010	1,940	1,260	1,610	1,900	1,440	1,810	1,260	1,800
23	1,990	2,130	1,480	1,710	2,000	1,180	1,650	1,570	1,750	1,970	1,420	1,890
24	1,680	2,120	1,750	1,870	1,640	1,530	1,490	1,510	1,860	1,670	1,320	1,950
25	1,680	2,110	1,750	1,640	1,710	1,340	1,510	1,670	1,820	1,590	1,320	1,840
26	1,750	2,090	1,590	1,820	2,020	1,290	1,230	1,840	2,000	1,630	1,510	1,330
27	1,710	1,690	1,690	1,800	2,010	926	998	1,940	1,630	1,680	1,350	1,510
28	1,750	290	1,650	1,650	1,870	983	1,780	1,950	1,840	1,750	1,310	878
29	1,890	364	1,490	163	---	1,170	951	1,720	1,950	1,720	1,140	978
30	1,960	1,870	1,610	390	---	1,230	1,590	1,690	1,880	1,620	0.00	1,200
31	1,950	---	1,720	0.00	---	1,380	---	1,180	---	1,630	1,530	---
Total	55,350	45,094	52,087	48,423.00	21,683.00	43,815	45,730	47,416	46,176	55,690	46,922.00	39,057.70
Mean	1,785	1,503	1,680	1,562	774	1,413	1,524	1,530	1,539	1,796	1,514	1,302
Max	2,010	2,140	2,110	2,040	2,020	2,080	2,260	1,950	2,000	2,060	2,030	2,010
Min	1,440	290	837	0.00	0.00	825	260	546	956	1,440	0.00	0.00
Ac-ft	109,800	89,440	103,300	96,050	43,010	86,910	90,710	94,050	91,590	110,500	93,070	77,470

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	929	736	823	751	658	872	1,090	1,165	1,173	1,294	1,287	1,242
Max	1,785	1,503	1,680	1,562	1,636	1,413	1,524	1,618	1,674	1,813	1,920	1,830
(WY)	(2007)	(2007)	(2007)	(2007)	(2006)	(2007)	(2007)	(2004)	(2006)	(2006)	(2006)	(2006)
Min	22.6	0.00	0.95	7.89	0.52	169	584	531	734	655	892	683
(WY)	(1996)	(1997)	(1997)	(1997)	(1997)	(1996)	(1999)	(1999)	(1998)	(1998)	(1998)	(1998)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1996 - 2007	
Annual total	582,312		547,443.70			
Annual mean	1,595		1,500		1,004	
Highest annual mean					1,520	2006
Lowest annual mean					502	1998
Highest daily mean	2,150	Jul 10	2,260	Apr 17	2,260	Apr 17, 2007
Lowest daily mean	290	Nov 28	0.00	Jan 31	0.00	Oct 11, 1995
Annual seven-day minimum	858	Apr 13	0.00	Feb 8	0.00	Oct 11, 1995
Annual runoff (ac-ft)	1,155,000		1,086,000		727,100	
10 percent exceeds	2,020		1,960		1,710	
50 percent exceeds	1,660		1,640		1,060	
90 percent exceeds	1,070		941		34	

