

Water-Data Report 2013

11109396 California Aqueduct at North Portal Tehachapi Tunnel, near Gorman, CA

Santa Clara River Basin

LOCATION.--Lat 34°55'46", long 118°48'17" referenced to North American Datum of 1927, Kern County, CA, Hydrologic Unit 18030003, unsurveyed, in Los Alamos Y Caliente Grant, at entrance to Tehachapi Tunnel, 1.5 mi southeast of A.D. Edmonston Pumping Plant, and 10 mi north of Gorman.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1995 to current year. Prior to October 1995 in files of California Department of Water Resources. Published as "North Portal Tehachapi Tunnel near Gorman" prior to October 2000.

GAGE.--Acoustic-velocity meter. Elevation of gage is 3,220 ft above NGVD of 1929, from topographic map.

COOPERATION.--Records were computed by California Department of Water Resources, under the general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project 2426.

REMARKS.--Records represent flow pumped from the California Aqueduct through the A.D. Edmonston Pumping Plant to southern California. Downstream, the flow splits as it leaves Tehachapi Afterbay. The East Branch California Aqueduct flows through Alamo Powerplant (station 10260776), and the West Branch California Aqueduct flows through William Warne Powerplant (station 11109398). See schematic diagram of Santa Clara River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,230 ft³/s, several days during water year 2007; no flow at times in some years.

11109396 California Aqueduct at North Portal Tehachapi Tunnel, near Gorman, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,880	3,630	2,420	1,470	2,600	1,580	2,000	1,630	1,920	2,290	1,780	1,860
2	1,880	3,630	2,310	1,510	2,600	1,780	1,990	2,260	1,930	2,260	1,830	1,450
3	1,950	3,900	2,340	1,400	2,600	1,730	1,130	1,190	1,040	1,870	2,210	1,450
4	1,560	4,060	2,360	1,420	2,020	1,510	1,090	1,020	898	2,140	2,430	1,420
5	2,330	2,330	2,400	1,450	953	1,530	2,040	1,160	1,500	2,190	1,540	1,750
6	2,370	1,660	897	1,070	1,260	1,420	2,340	1,520	1,530	2,710	1,740	1,860
7	2,920	1,790	2,190	587	2,030	1,310	2,520	1,520	1,300	2,940	1,680	1,400
8	3,210	1,760	2,670	404	2,240	1,190	2,010	1,500	1,300	2,550	1,550	1,860
9	2,750	1,920	2,670	134	2,270	1,520	1,500	1,590	2,000	2,480	1,530	1,550
10	1,740	2,600	1,620	234	1,060	1,430	2,020	1,310	1,370	2,460	1,970	1,850
11	1,590	2,650	1,300	373	1,200	1,430	1,780	2,370	1,450	2,260	1,970	1,790
12	2,820	2,690	1,250	1,420	735	1,340	1,090	1,990	1,310	2,220	1,620	1,830
13	3,640	2,570	1,570	1,550	1,240	1,120	2,410	1,370	1,440	2,530	1,710	1,800
14	3,750	2,610	1,480	1,080	1,600	1,220	2,530	1,440	1,490	2,660	1,590	2,300
15	2,720	2,590	2,630	1,230	1,560	1,270	1,810	1,050	1,600	2,320	1,500	2,190
16	2,050	2,600	2,680	1,860	1,990	1,460	1,650	1,370	1,450	1,910	1,510	1,590
17	1,800	2,660	1,270	1,110	2,310	1,540	1,630	1,300	1,440	2,390	1,710	1,610
18	1,850	2,680	1,700	1,670	1,940	1,130	1,660	1,640	1,440	2,460	1,570	2,020
19	1,950	2,670	2,230	1,660	1,650	1,270	2,010	1,490	1,350	2,260	1,320	1,640
20	2,720	2,590	708	1,720	577	1,610	1,240	1,360	1,250	2,930	1,250	1,510
21	3,190	2,600	623	1,730	1,430	1,710	2,530	1,310	1,510	3,070	1,400	1,820
22	2,690	2,600	1,020	1,730	1,560	1,740	2,520	1,310	1,090	2,390	1,480	1,880
23	2,740	2,630	1,030	1,760	1,580	1,900	1,460	1,220	1,060	2,200	1,600	1,770
24	2,670	2,630	656	1,420	1,820	1,900	1,390	1,400	826	2,390	1,610	1,660
25	2,690	2,630	642	1,810	1,420	1,810	1,580	1,350	434	2,130	2,270	1,630
26	3,290	2,610	676	2,270	1,500	985	1,090	2,310	1,020	2,680	1,590	1,640
27	3,650	2,630	638	2,600	1,330	1,670	2,550	1,690	2,570	2,750	1,530	1,580
28	3,600	2,590	676	2,110	954	1,460	2,260	1,300	2,520	3,140	1,320	2,260
29	3,550	2,000	731	1,740	---	1,700	1,640	1,150	2,910	1,780	1,510	2,410
30	3,640	2,640	849	2,080	---	1,820	1,730	1,420	2,910	1,650	1,490	1,590
31	3,600	---	713	1,170	---	1,750	---	1,620	---	1,700	1,680	---
Total	82,790	79,150	46,949	43,772	46,029	46,835	55,200	46,160	45,858	73,710	51,490	52,970
Mean	2,671	2,638	1,514	1,412	1,644	1,511	1,840	1,489	1,529	2,378	1,661	1,766
Max	3,750	4,060	2,680	2,600	2,600	1,900	2,550	2,370	2,910	3,140	2,430	2,410
Min	1,560	1,660	623	134	577	985	1,090	1,020	434	1,650	1,250	1,400
Ac-ft	164,200	157,000	93,120	86,820	91,300	92,900	109,500	91,560	90,960	146,200	102,100	105,100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,953	1,792	1,686	1,380	1,340	1,683	2,068	2,121	2,110	2,474	2,422	2,361
Max	2,671	2,944	2,896	2,682	2,771	3,650	3,726	3,294	3,057	3,595	3,496	3,288
(WY)	(2013)	(2001)	(2004)	(2004)	(2007)	(2007)	(2007)	(2007)	(2004)	(2007)	(2007)	(2004)
Min	104	349	213	62.5	48.1	219	874	859	1,008	1,220	1,489	1,160
(WY)	(1996)	(1996)	(1999)	(1999)	(1999)	(1998)	(2009)	(1998)	(1998)	(1998)	(1997)	(1998)

11109396 California Aqueduct at North Portal Tehachapi Tunnel, near Gorman, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1996 - 2013	
Annual total	791,804		670,913			
Annual mean	2,163		1,838		1,952	
Highest annual mean					2,896	2007
Lowest annual mean					941	1998
Highest daily mean	4,060	Nov 4	4,060	Nov 4	4,230	Feb 18, 2007
Lowest daily mean	618	Feb 19	134	Jan 9	0.00	Oct 9, 1995
Annual seven-day minimum	695	Dec 24	603	Jan 6	0.00	Oct 17, 1995
Annual runoff (ac-ft)	1,571,000		1,331,000		1,414,000	
10 percent exceeds	3,110		2,670		3,170	
50 percent exceeds	2,260		1,710		1,970	
90 percent exceeds	1,030		1,090		707	

