

Water-Data Report 2009

11313000 Delta-Mendota Canal at Tracy Pumping Plant, near Tracy, CA

San Joaquin River Basin

LOCATION.--Lat 37°47'49", long 121°35'03" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.31, T.1 S., R.4 E., Alameda County, CA, Hydrologic Unit 18040003, at Tracy Pumping Plant at intake to canal, 6 mi southeast of Byron, and 10 mi northwest of Tracy.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1951 to current year. Prior to October 1959, published as "near Tracy."

GAGE.--Water-stage recorder on forebay, pressure gages on pump discharge lines, and operating time of pumps. Datum of gage is NGVD of 1929 (levels by U.S. Bureau of Reclamation).

COOPERATION.--Records were provided by U.S. Bureau of Reclamation and are rounded to U.S. Geological Survey standards.

REMARKS.--Discharge computed from records of operation of pumps. Water is diverted from Sacramento-San Joaquin Delta by way of Old River and a dredged channel to the Tracy Pumping Plant where it is lifted 200 ft into canal. Water, less intermediate diversions, flows into Mendota Pool on San Joaquin River to replace water diverted at Friant Dam. The canal is a part of the Central Valley Project. See schematic diagram of Sacramento-San Joaquin Delta available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,940 ft³/s, Aug. 11, 1969, Aug. 7, 1998; no flow for many days in some years.

11313000 Delta-Mendota Canal at Tracy Pumping Plant, near Tracy, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4,269	2,848	1,018	2,796	995	3,454	2,614	923	1,002	2,935	4,057	4,066
2	3,942	2,975	1,002	2,806	991	3,490	2,611	1,018	1,007	4,004	4,065	4,088
3	3,805	2,836	1,623	2,831	995	3,007	2,017	1,022	1,008	4,060	4,047	4,121
4	3,803	3,500	1,884	2,806	1,001	2,827	1,747	1,012	1,010	4,064	4,147	4,122
5	3,801	3,743	1,872	2,826	1,003	2,173	1,746	1,018	1,009	4,072	4,205	4,109
6	3,802	3,720	1,857	2,808	1,001	1,909	1,114	1,021	1,003	3,638	4,135	4,101
7	3,782	4,185	1,848	2,830	1,003	1,909	859	1,015	1,006	3,427	4,290	4,099
8	4,268	4,214	1,833	2,843	1,001	1,825	1,314	957	1,007	3,435	4,105	4,081
9	4,286	4,211	1,840	2,171	1,003	1,900	1,841	971	1,007	3,435	4,135	4,097
10	4,264	4,202	1,867	1,903	1,002	2,548	1,841	966	1,015	3,466	3,995	4,137
11	4,252	4,171	1,893	1,902	1,719	2,805	2,531	966	1,019	3,428	4,143	4,122
12	3,941	4,142	1,893	1,893	2,018	3,425	2,743	935	1,018	3,430	4,128	4,114
13	3,244	3,782	1,276	1,898	1,595	3,676	2,783	912	1,020	3,395	4,285	4,114
14	3,473	3,603	1,017	1,892	1,995	4,158	2,167	1,804	1,013	3,457	4,087	4,106
15	3,504	3,607	1,015	1,895	1,994	4,197	1,144	1,807	1,016	3,998	4,159	4,105
16	3,593	3,611	1,016	1,884	2,006	4,231	851	1,803	999	4,340	4,151	4,111
17	4,220	2,961	1,018	1,888	2,005	4,141	851	1,806	1,338	4,196	4,133	4,100
18	4,227	2,696	1,014	1,883	2,010	4,150	853	1,360	1,662	4,096	4,194	4,101
19	3,807	2,711	1,013	1,888	2,562	3,640	852	899	1,671	4,151	4,094	4,112
20	3,640	2,715	1,017	1,908	2,787	3,417	850	898	1,675	4,179	4,021	4,100
21	3,635	2,708	1,010	1,272	2,803	2,914	853	901	1,678	4,187	4,006	3,835
22	3,603	2,706	1,027	1,002	2,775	2,721	854	897	1,673	4,112	4,024	3,804
23	3,634	2,699	1,019	1,004	2,795	2,720	971	899	1,674	4,170	4,020	4,259
24	3,632	2,070	1,018	1,643	2,797	2,119	1,016	896	1,678	4,194	4,011	4,127
25	3,633	1,788	1,029	1,930	2,803	1,880	905	898	1,671	4,211	4,117	4,126
26	3,656	1,445	1,023	1,912	2,807	1,882	858	899	1,670	4,198	4,150	4,107
27	3,624	1,023	1,018	1,912	2,807	1,885	856	901	1,662	4,096	4,124	4,101
28	3,473	1,022	1,017	2,455	3,272	1,881	859	981	1,663	4,256	4,132	4,124
29	3,402	1,021	1,019	2,674	---	2,482	857	1,006	1,663	4,258	4,136	4,125
30	3,511	1,020	1,718	1,892	---	2,747	855	842	1,762	4,259	4,148	4,104
31	3,064	---	2,308	994	---	2,648	---	0.00	---	4,055	4,096	---
Total	116,790	87,935	42,022	64,241	53,545	88,761	42,213	32,233.00	39,299	121,202	127,540	122,818
Mean	3,767	2,931	1,356	2,072	1,912	2,863	1,407	1,040	1,310	3,910	4,114	4,094
Max	4,290	4,210	2,310	2,840	3,270	4,230	2,780	1,810	1,760	4,340	4,290	4,260
Min	3,060	1,020	1,000	994	991	1,820	850	0.00	999	2,940	4,000	3,800
Ac-ft	231,700	174,400	83,350	127,400	106,200	176,100	83,730	63,930	77,950	240,400	253,000	243,600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,715	2,176	1,906	2,207	2,593	2,736	2,529	2,318	2,933	3,776	3,775	3,134
Max	4,356	4,316	4,273	4,350	4,584	4,563	4,400	4,540	4,591	4,740	4,703	4,591
(WY)	(2005)	(2004)	(1996)	(2004)	(1976)	(1976)	(1976)	(1976)	(1973)	(1989)	(1989)	(1988)
Min	368	0.00	0.00	0.00	0.00	0.00	99.6	58.3	113	354	977	539
(WY)	(1952)	(1973)	(1953)	(1952)	(1952)	(1952)	(1952)	(1952)	(1951)	(1977)	(1952)	(1952)

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SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1951 - 2009	
Annual total	914,272		938,599.00			
Annual mean	2,498		2,572		2,751	
Highest annual mean					4,144	1976
Lowest annual mean					230	1952
Highest daily mean	4,430	Aug 28	4,340	Jul 16	4,940	Aug 11, 1969
Lowest daily mean	423	Jun 12	0.00	May 31	0.00	Jun 1, 1951
Annual seven-day minimum	669	Jun 7	790	May 25	0.00	Jun 1, 1951
Annual runoff (ac-ft)	1,813,000		1,862,000		1,993,000	
10 percent exceeds	4,180		4,150		4,410	
50 percent exceeds	2,760		2,700		3,180	
90 percent exceeds	843		995		294	

