

Water-Data Report 2013

11249500 Madera Canal at Friant, CA

San Joaquin River Basin

LOCATION.--Lat 37°00'10", long 119°42'21" referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.5, T.11 S., R.21 E., Madera County, CA, Hydrologic Unit 18040006, at Friant Dam, 0.9 mi northeast of Friant.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1943 to current year. Monthly discharge only for October 1943 to September 1948 published in WSP 1315-A. October 1954 to September 1966 published as "Friant-Madera Canal at Friant."

REVISED RECORDS.--WSP 1151: 1944-48.

GAGE.--Discharge computed on basis of megawatt meter reading, efficiency of the generator coefficient, and net head on the turbines. Prior to Oct. 1, 1948, water-stage recorder at several sites at various datums. Oct. 1, 1948, to Sept. 30, 1949, water-stage recorder at site 8.8 mi downstream.

COOPERATION.--Records were provided by U.S. Bureau of Reclamation.

REMARKS.--Canal diverts from Millerton Lake (station 11250100) at right end of Friant Dam for irrigation between San Joaquin and Chowchilla Rivers. See schematic diagram of lower San Joaquin River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,330 ft³/s, July 2, 3, 1973, May 21, 1983; no flow for many days in each year.

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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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300	864	705	295
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	345	847	656	321
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	362	841	419	321
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	380	847	301	286
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	416	850	289	257
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	445	875	281	288
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	458	855	306	296
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	446	809	304	257
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	430	778	278	247
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	430	787	262	236
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419	796	220	224
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	467	837	232	215
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	693	864	277	256
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	810	843	254	266
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	854	847	244	252
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	824	852	276	289
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	752	859	270	300
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	664	866	234	304
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	711	872	258	333
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	758	872	284	103
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	758	886	266	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	774	882	257	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	801	866	257	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	798	842	257	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	780	812	257	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	780	813	305	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	794	791	350	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	829	760	341	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	849	754	342	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	866	748	360	0.00
31	0.00	---	0.00	0.00	---	0.00	---	143	---	736	330	---
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	143.00	18,993	25,751	9,672	5,346.00
Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.61	633	831	312	178
Max	0.00	0.00	0.00	0.00	0.00	0.00	0.00	143	866	886	705	333
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	300	736	220	0.00
Ac-ft	0.00	0.00	0.00	0.00	0.00	0.00	0.00	284	37,670	51,080	19,180	10,600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	120	21.7	8.38	25.5	91.1	265	356	532	811	964	697	331
Max	599	271	357	527	659	1,094	1,258	1,261	1,277	1,293	1,233	1,153
(WY)	(1984)	(2010)	(1999)	(1997)	(1986)	(1980)	(1980)	(1982)	(1978)	(1973)	(1967)	(1983)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.8	356	76.7	0.00
(WY)	(1950)	(1949)	(1949)	(1949)	(1949)	(1952)	(1964)	(1961)	(1977)	(1981)	(1977)	(1959)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1949 - 2013	
Annual total	68,220.00		59,905.00			
Annual mean	186		164		354	
Highest annual mean					736	1983
Lowest annual mean					43.8	1977
Highest daily mean	912	May 30	886	Jul 21	1,330	Jul 2, 1973
Lowest daily mean	0.00	Jan 1	0.00	Oct 1	0.00	Oct 3, 1948
Annual seven-day minimum	0.00	Jan 1	0.00	Oct 1	0.00	Oct 3, 1948
Annual runoff (ac-ft)	135,300		118,800		256,100	
10 percent exceeds	773		780		1,040	
50 percent exceeds	0.00		0.00		152	
90 percent exceeds	0.00		0.00		0.00	

