

Water-Data Report 2013

11250000 Friant-Kern Canal at Friant, CA

San Joaquin River Basin

LOCATION.--Lat 36°59'53", long 119°42'11" referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.5, T.11 S., R.21 E., Fresno County, CA, Hydrologic Unit 18040006, at Friant Dam, 0.9 mi northeast of Friant, and 2.2 mi downstream from bridge on Friant Road.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 1949 to current year.

GAGE.--Discharge computed on basis of megawatt meter reading, efficiency of generator coefficient, and net head on turbines. Prior to January 1986, discharge computed on basis of valve openings and head on valves. Prior to July 8, 1949, nonrecording gages at various sites and datums. July 8 to Sept. 30, 1949, water-stage recorder at site 0.2 mi downstream.

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

REMARKS.--Canal diverts from Millerton Lake (station 11250100) at left end of Friant Dam for irrigation in upper San Joaquin Valley. See schematic diagram of lower San Joaquin River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,330 ft³/s, June 25, 1982; no flow for many days in most years.

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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	749	376	0.00	0.00	0.00	263	269	556	697	1,180	2,640	754
2	782	283	0.00	0.00	0.00	263	414	571	655	1,330	2,400	812
3	806	273	0.00	0.00	0.00	263	445	495	766	1,290	2,140	908
4	806	329	0.00	0.00	0.00	263	417	426	846	1,170	2,200	1,010
5	658	445	0.00	0.00	97	263	277	405	906	1,010	2,300	995
6	552	273	0.00	0.00	65	208	375	488	948	889	2,260	837
7	634	0.00	0.00	0.00	141	186	261	548	948	880	2,120	758
8	693	0.00	0.00	0.00	261	192	401	519	847	989	1,930	758
9	693	0.00	0.00	0.00	261	110	444	441	755	1,130	1,700	758
10	693	0.00	0.00	0.00	76	154	444	398	780	1,290	1,540	758
11	610	0.00	0.00	0.00	153	219	409	397	831	1,300	1,680	810
12	465	0.00	0.00	0.00	340	134	392	427	855	1,080	1,920	847
13	404	0.00	0.00	0.00	300	234	338	599	852	956	2,060	732
14	458	0.00	0.00	0.00	77	202	353	706	793	1,010	2,060	649
15	613	0.00	0.00	0.00	144	194	459	703	752	1,110	1,930	649
16	696	0.00	0.00	0.00	334	194	532	667	812	1,210	1,840	706
17	702	0.00	0.00	0.00	565	226	576	529	855	1,250	1,760	747
18	645	0.00	0.00	0.00	601	259	606	451	908	1,250	1,690	805
19	515	0.00	0.00	0.00	546	296	518	453	946	1,170	1,520	847
20	452	0.00	0.00	0.00	506	275	416	510	922	1,020	1,310	732
21	452	0.00	0.00	0.00	437	280	427	611	845	1,010	1,290	594
22	512	0.00	0.00	0.00	388	267	565	712	803	1,110	1,290	582
23	521	0.00	0.00	0.00	315	259	645	694	803	1,210	1,270	629
24	470	0.00	0.00	0.00	263	259	645	564	857	1,310	1,070	649
25	426	0.00	0.00	0.00	263	302	645	502	960	1,320	1,060	618
26	408	0.00	0.00	0.00	263	492	496	502	1,010	1,390	1,130	596
27	408	0.00	0.00	0.00	262	520	389	500	1,010	1,450	1,160	482
28	408	0.00	0.00	0.00	262	445	423	561	1,010	1,680	1,160	400
29	410	0.00	0.00	0.00	---	391	535	657	943	2,130	1,120	454
30	412	0.00	0.00	0.00	---	293	546	694	968	2,500	965	582
31	412	---	0.00	0.00	---	261	---	730	---	2,680	797	---
Total	17,465	1,979.00	0.00	0.00	6,920.00	8,167	13,662	17,016	25,883	40,304	51,312	21,458
Mean	563	66.0	0.00	0.00	247	263	455	549	863	1,300	1,655	715
Max	806	445	0.00	0.00	601	520	645	730	1,010	2,680	2,640	1,010
Min	404	0.00	0.00	0.00	0.00	110	261	397	655	880	797	400
Ac-ft	34,640	3,930	0.00	0.00	13,730	16,200	27,100	33,750	51,340	79,940	101,800	42,560

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	867	336	101	252	1,146	1,146	1,377	1,813	2,696	2,953	2,528	1,489
Max	3,085	1,783	926	1,349	4,505	3,551	4,476	4,251	4,529	4,905	4,339	4,033
(WY)	(1979)	(2010)	(1999)	(1966)	(1965)	(1965)	(1962)	(2010)	(1993)	(1993)	(1967)	(1967)
Min	0.00	0.00	0.00	0.00	0.00	5.13	32.2	87.5	598	262	384	1.33
(WY)	(1950)	(1950)	(1950)	(1950)	(1950)	(1991)	(1998)	(1977)	(1977)	(1949)	(1949)	(1950)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1949 - 2013	
Annual total	255,350.00		204,166.00			
Annual mean	698		559		1,401	
Highest annual mean					2,377	2005
Lowest annual mean					270	1950
Highest daily mean	2,350	Jul 12	2,680	Jul 31	5,330	Jun 25, 1982
Lowest daily mean	0.00	Mar 24	0.00	Nov 7	0.00	Jul 5, 1949
Annual seven-day minimum	0.00	Apr 12	0.00	Nov 7	0.00	Sep 11, 1949
Annual runoff (ac-ft)	506,500		405,000		1,015,000	
10 percent exceeds	1,790		1,250		3,520	
50 percent exceeds	608		454		983	
90 percent exceeds	0.00		0.00		0.00	

