

11298000 South Fork Stanislaus River near Long Barn, CA

San Joaquin River Basin

LOCATION.--Lat 38°05'33", long 120°10'04" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.25, T.3 N., R.16 E., Tuolumne County, CA, Hydrologic Unit 18040010, in Stanislaus National Forest, on left bank, 600 ft downstream from Lyons Dam, 1.9 mi west of Long Barn, and 15 mi northeast of Sonora.

DRAINAGE AREA.--66.9 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1937 to current year. Monthly discharge only for some periods, published in WSP 1315-A.

REVISED RECORDS.--WSP 1215: 1938 (instantaneous maximum discharge). WSP 1930: Drainage area.

GAGE.--Water-stage recorder and rectangular weir. Elevation of gage is 4,175 ft above NGVD of 1929, from topographic map. Prior to Sept. 30, 1997, at site 300 ft downstream at different datum.

COOPERATION.--Records, including diversion to Tuolumne Canal (station 11297500), were collected by Pacific Gas and Electric Company, under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 2130.

REMARKS.--Flow regulated by Lyons Reservoir (station 11297700) 600 ft upstream and Pinecrest Lake (station 11295900). High flow record based on historical measurements, peak flow computations and current observations. Tuolumne Canal (station 11297500) diverts at Lyons Dam. See schematic diagram of Stanislaus River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,900 ft³/s, Jan. 2, 1997, gage height, 13.03 ft, from rating curve extended above 2,400 ft³/s, on basis of computation of peak flow over Lyons Dam; no flow at times in 1937-39, 1952.

11298000 South Fork Stanislaus River near Long Barn, CA—Continued

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6.3	6.7	6.5	12	12	6.1	6.1	384	58	6.4	6.0	5.9
2	6.2	6.7	6.8	12	12	6.1	6.0	378	21	6.4	5.9	5.9
3	6.2	6.7	6.7	11	12	6.1	7.2	334	14	6.3	5.8	5.9
4	6.2	6.7	6.5	11	12	6.1	7.3	348	8.5	6.2	5.8	5.9
5	6.2	6.7	5.5	11	12	6.1	6.0	300	28	6.2	5.8	5.9
6	6.2	6.7	9.5	11	12	6.1	6.2	207	30	6.4	5.8	5.9
7	6.2	6.7	5.4	11	12	6.1	6.1	186	17	6.4	5.8	5.9
8	7.9	6.7	4.4	11	12	6.1	6.1	192	8.6	6.3	5.8	5.9
9	8.2	6.7	4.1	10	12	6.1	6.1	202	6.9	6.7	5.9	6.1
10	8.3	6.6	3.7	9.1	12	6.1	6.1	210	6.6	6.5	5.9	6.2
11	8.3	6.6	2.4	9.0	12	6.1	6.1	e206	6.6	6.0	5.9	6.2
12	8.3	6.5	1.2	9.0	12	6.1	6.1	184	6.5	6.3	5.9	6.2
13	7.8	6.6	1.1	9.0	12	6.1	6.1	210	6.7	6.7	5.9	6.2
14	6.5	6.5	1.1	1.1	12	6.1	6.2	286	6.8	6.0	5.9	6.2
15	6.3	6.5	1.1	1.2	12	6.1	6.3	298	7.2	6.9	5.9	6.1
16	6.3	6.5	1.1	1.2	12	6.1	1.1	269	7.0	6.5	5.9	6.1
17	6.3	6.6	1.2	1.2	12	6.1	6.8	207	6.5	6.3	5.9	6.1
18	6.3	6.6	1.5	1.2	12	6.1	5.8	116	6.3	6.3	5.9	6.2
19	6.4	6.5	1.3	1.2	12	6.1	5.9	5.4	5.9	6.3	6.0	6.2
20	6.6	6.4	1.2	1.2	12	6.1	5.9	2.0	6.0	6.3	6.0	6.2
21	6.6	6.4	1.2	1.2	12	6.0	7.5	9.2	6.0	6.2	6.0	6.1
22	6.6	6.4	1.5	1.2	12	6.0	1.9	1.52	6.0	6.2	6.0	6.1
23	6.7	6.5	1.4	1.2	12	6.0	3.3	9.1	6.1	6.2	6.0	6.0
24	6.6	6.6	1.5	1.2	12	6.0	4.5	5.0	6.0	6.2	6.0	5.8
25	6.6	6.6	1.3	1.2	12	6.0	3.7	1.8	6.1	6.2	6.0	5.8
26	6.6	6.6	1.3	1.2	8.9	6.0	3.5	1.8	6.2	6.2	5.9	5.9
27	6.6	6.6	1.2	1.2	5.9	6.0	4.1	2.6	6.1	6.2	5.9	6.2
28	6.6	6.7	1.2	1.2	6.0	6.0	6.0	8.1	5.9	6.1	5.9	6.4
29	6.6	6.7	1.2	1.2	---	6.0	6.7	2.24	6.2	6.1	5.9	6.3
30	6.6	6.8	1.2	1.2	---	6.0	1.71	1.69	6.4	6.1	5.9	6.3
31	6.7	---	1.2	1.2	---	6.1	---	1.26	---	6.1	5.9	---
Total	209.8	198.1	745.3	351.1	320.8	188.1	644.9	5,638	325.1	195.2	183.1	182.1
Mean	6.77	6.60	24.0	11.3	11.5	6.07	21.5	182	10.8	6.30	5.91	6.07
Max	8.3	6.8	9.5	1.2	1.2	6.1	1.71	3.84	5.8	6.9	6.0	6.4
Min	6.2	6.4	6.5	9.0	5.9	6.0	5.8	1.8	5.9	6.0	5.8	5.8
Ac-ft	416	393	1,480	696	636	373	1,280	11,180	645	387	363	361
Diversion, in acre-feet, to Tuolumne Canal	1,390	1,450	1,550	1,560	1,390	1,540	1,800	2,090	1,900	2,110	2,170	2,030

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.84	9.49	22.8	35.9	43.8	58.2	99.7	366	319	63.8	3.61	2.51
Max	14.7	3.24	3.99	6.25	3.06	2.91	5.01	8.96	1,076	6.02	3.7.7	6.92
(WY)	(1983)	(1951)	(1951)	(1997)	(1982)	(1938)	(1982)	(2006)	(2011)	(1998)	(1983)	(2011)
Min	0.00	0.02	0.08	0.01	0.00	0.23	0.97	1.02	1.00	0.92	0.83	0.71
(WY)	(1938)	(1939)	(1939)	(1939)	(1939)	(1939)	(1977)	(1977)	(1977)	(1949)	(1940)	(1949)

11298000 South Fork Stanislaus River near Long Barn, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1938 - 2013	
Annual total	11,976.4		9,181.6			
Annual mean	32.7		25.2		85.1	
Highest annual mean					234	1983
Lowest annual mean					1.50	1977
Highest daily mean	497	May 3	384	May 1	6,040	Jan 2, 1997
Lowest daily mean	6.0	Mar 7	5.8	Apr 18	0.00	Oct 1, 1937
Annual seven-day minimum	6.1	Mar 6	5.8	Aug 2	0.00	Oct 1, 1937
Maximum peak flow			427	May 1	12,900	Jan 2, 1997
Maximum peak stage			3.64	May 1	13.03	Jan 2, 1997
Annual runoff (ac-ft)	23,760		18,210		61,660	
Annual diversion (ac-ft)^a	18,320		20,980			
10 percent exceeds	60		47		284	
50 percent exceeds	6.6		6.6		2.7	
90 percent exceeds	6.2		5.9		1.6	

^a Diversion, in acre-feet, to Tuolumne Canal (station 11297500).

