Water-Data Report 2013

11318500 South Fork Mokelumne River near West Point, CA

San Joaquin River Basin

LOCATION.--Lat 38°22′06″, long 120°32′40″ referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.16, T.6 N., R.13 E., Calaveras County, CA, Hydrologic Unit 18040012, on right bank, 200 ft downstream from Wet Gulch, 500 ft upstream from highway bridge, 2.4 mi southwest of West Point, and 2.5 mi upstream from mouth.

DRAINAGE AREA.--75.1 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1933 to current year.

REVISED RECORDS.--WSP 1315-A: 1934 (instantaneous maximum discharge). WSP 1930: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,950 ft above NGVD of 1929, from topographic map. October 1933 to Sept. 19, 1957, at site 1,100 ft downstream at different datum.

COOPERATION.--Records were collected by East Bay Municipal Utility District, under general supervision of the U.S Geological Survey.

REMARKS.--The Middle Fork Ditch can divert 10 ft^3/s from the Middle Fork Mokelumne River which, due to leakage, delivers about 5 ft^3/s to Licking Fork Mokelumne River. There are two pumps with a combined capacity of 8.9 ft^3/s that can pump water to Jeff Davis Reservoir upstream from the station. There are other small diversions upstream from the station for irrigation and domestic use. See schematic diagram of Mokelumne River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,610 ft^3/s, Jan. 2, 1997, gage height, 12.72 ft, from rating curve extended above 2,700 ft^3/s, on basis of slope-area measurement of peak flow; no flow many days during August and September 1934.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 2	1530	*1,650	*7.04

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 11318500, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/11318500.2013.pdf

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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	3.6	4.4	172	62	50	32	69	17	11	6.0	4.3	2.1
2	3.1	5.5	668	57	48	33	63	17	9.9	7.4	4.3	2.2
3	3.4	4.7	284	54	48	37	54	16	9.1	7.3	4.2	2.3
4	3.1	4.0	137	51	46	44	55	16	8.6	7.5	4.1	2.4
5	3.6	4.2	141	49	46	40	58	16	8.5	7.2	4.0	2.4
6	3.7	3.8	150	51	44	56	51	16	8.2	6.9	4.0	2.3
7	4.2	3.3	111	48	44	50	48	20	7.7	6.7	4.0	2.4
8	4.1	3.9	87	46	44	46	55	24	7.7	6.6	4.0	2.3
9	4.6	8.5	73	46	42	45	51	21	6.9	6.5	3.8	2.2
10	4.9	8.9	63	51	41	42	46	19	6.7	6.6	3.8	2.3
11	5.1	7.4	56	47	40	42	43	17	7.0	6.5	3.8	2.3
12	6.2	6.0	67	43	39	42	41	15	6.6	6.0	3.7	2.0
13	6.8	5.7	59	41	38	43	39	15	6.1	6.0	3.7	2.1
14	6.5	5.9	51	45	37	44	36	14	6.1	6.0	3.5	2.2
15	5.7	5.7	46	48	36	45	35	15	5.7	5.8	3.4	2.1
16	5.5	5.9	43	45	35	44	35	14	5.3	5.8	3.1	2.2
17	5.4	15	83	44	35	43	34	15	5.1	5.6	3.1	2.0
18	5.1	67	146	43	34	42	32	14	4.7	5.6	3.1	2.0
19	5.1	40	99	42	38	40	30	13	5.8	5.4	3.2	2.0
20	4.9	19	81	42	43	55	29	13	8.6	5.4	3.1	2.1
21	5.0	18	73	41	41	56	28	12	8.6	5.3	2.9	2.8
22	6.6	18	124	41	38	50	26	12	8.5	5.2	2.9	4.1
23	23	14	166	42	36	46	25	12	8.3	5.1	2.8	3.9
24	15	13	186	44	36	44	24	12	9.5	5.3	2.9	3.4
25	11	12	132	59	34	42	23	12	17	5.3	3.0	3.3
26	7.8	11	193	65	34	40	22	11	14	5.0	2.8	3.4
27	4.5	10	146	64	33	40	21	11	13	4.9	2.9	3.4
28	3.9	14	108	62	33	39	21	14	9.4	4.7	2.9	3.6
29	3.9	46	90	59	---	39	19	14	5.4	4.4	2.8	3.6
30	3.5	237	77	57	---	36	18	12	4.7	4.3	2.8	3.6
31	3.2	---	67	53	---	55	---	11	---	4.3	2.5	---
Total	182.0	621.8	3,979	1,542	1,113	1,352	1,131	460	243.7	180.6	105.4	79.0
Mean	5.87	20.7	128	49.7	39.8	43.6	37.7	14.8	8.12	5.83	3.40	2.63
Max	23	237	668	65	50	56	69	24	17	7.5	4.3	4.1
Min	3.1	3.3	43	41	33	32	18	11	4.7	4.3	2.5	2.0
Ac-ft	361	1,230	7,890	3,060	2,210	2,680	2,240	912	483	358	209	157

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	13.0	28.2	72.6	128	167	190	187	122	46.7	21.0	11.8	9.44
Max	41.6	270	465	907	959	825	818	461	163	62.9	36.1	31.6
(WY)	(1983)	(1951)	(1956)	(1997)	(1986)	(1983)	(2006)	(1995)	(1983)	(1983)	(1952)	(1983)
Min	1.65	3.21	2.83	1.85	2.53	11.3	7.48	10.9	4.49	1.00	0.04	0.13
(WY)	(1989)	(1991)	(1991)	(1991)	(1991)	(1977)	(1977)	(1977)	(1992)	(1934)	(1934)	(1934)

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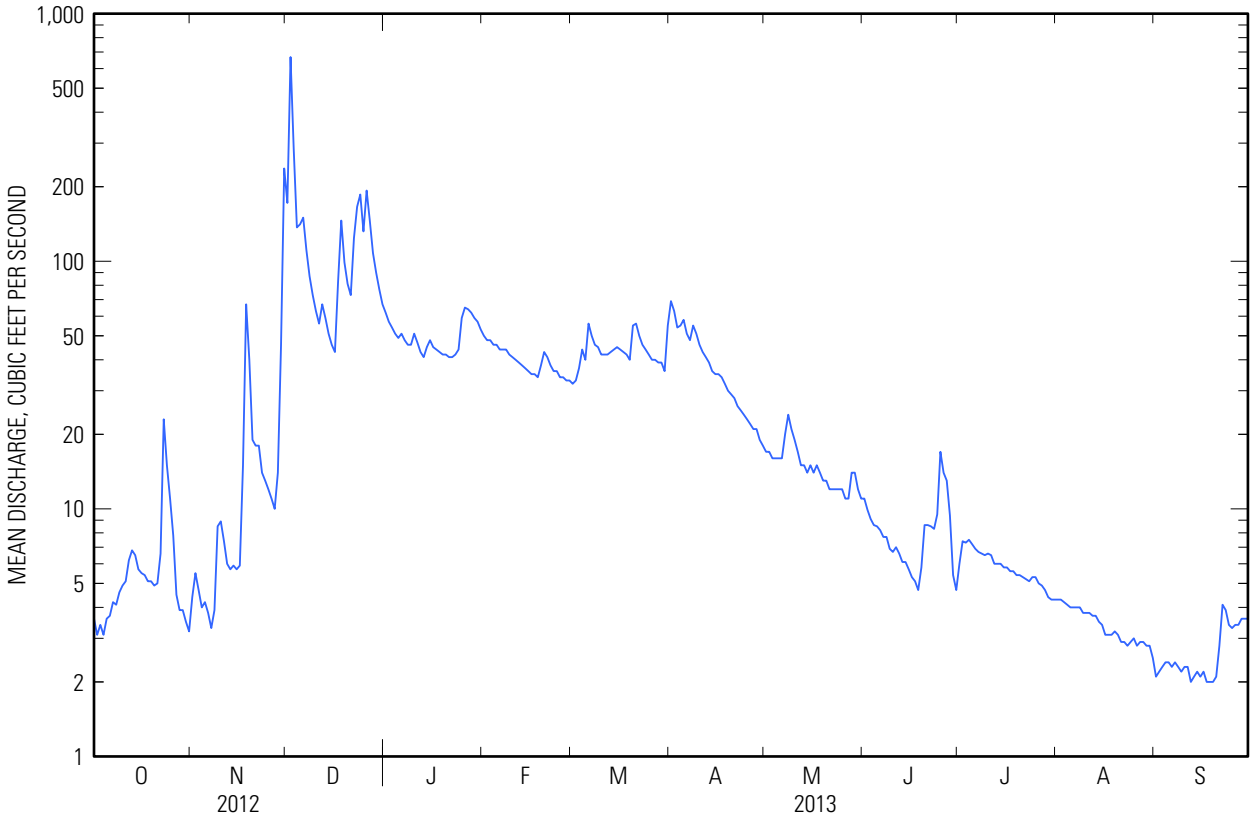
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1934 - 2013	
Annual total	16,593.4		10,989.5			
Annual mean	45.3		30.1		82.6	
Highest annual mean					264	1983
Lowest annual mean					6.14	1977
Highest daily mean	668	Dec 2	668	Dec 2	5,780	Feb 17, 1986
Lowest daily mean	3.1	Oct 2	2.0	Sep 12	0.00	Aug 6, 1934
Annual seven-day minimum	3.4	Sep 29	2.1	Sep 12	0.00	Aug 12, 1934
Maximum peak flow			1,650	Dec 2	7,610	Jan 2, 1997
Maximum peak stage			7.04	Dec 2	12.72	Jan 2, 1997
Annual runoff (ac-ft)	32,910		21,800		59,810	
10 percent exceeds	134		59		213	
50 percent exceeds	19		14		27	
90 percent exceeds	4.2		3.1		5.1