Water-Data Report 2012

11284400 Big Creek above Whites Gulch, near Groveland, CA

San Joaquin River Basin

LOCATION.--Lat 37°50′31″, long 120°11′02″ referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.23, T.1 S., R.16 E., Tuolumne County, CA, Hydrologic Unit 18040009, on right bank, 500 ft upstream from Whites Gulch, and 2.5 mi east of Groveland.

DRAINAGE AREA.--16.4 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1969 to current year.

REVISED RECORDS.--WDR CA-85-3: 1980-84 (peaks above base).

GAGE.--Water-stage recorder. Datum of gage is 2,561.79 ft above NGVD of 1929 (levels by Boise-Cascade Corp.).

REMARKS.--Records good except flows below 5 ft^3/s, which are fair, and flows below 1 ft^3/s, which are poor. No storage or diversion upstream from station. See schematic diagram of Tuolumne River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,620 ft^3/s, Feb. 17, 1986, gage height, 7.03 ft, from rating curve extended above 1,100 ft^3/s, on basis of slope-area measurement at gage height 6.51 ft; no flow for many days in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 6, 1965, reached a stage of 6.4 ft, from floodmarks, discharge, 1,850 ft^3/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 21	0830	*257	*4.20
Jan 23	1600	228	4.10
Apr 13	1130	234	4.12

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 11284400, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/11284400.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.05	0.29	0.38	1.7	8.5	21	3.2	0.61	0.00	0.00	0.00
2	0.00	0.05	0.27	0.35	1.6	4.8	15	2.9	0.53	0.00	0.00	0.00
3	0.00	0.06	0.25	0.34	1.5	3.4	11	2.7	0.45	0.00	0.00	0.00
4	0.00	0.18	0.25	0.32	1.4	3.0	8.0	2.4	0.57	0.00	0.00	0.00
5	0.00	0.16	0.27	0.32	1.3	2.6	6.1	2.1	0.89	0.00	0.00	0.00
6	0.00	0.33	0.28	0.32	1.3	2.6	5.0	2.1	0.79	0.00	0.00	0.00
7	0.00	0.27	0.31	0.32	1.3	2.4	4.3	2.0	0.73	0.00	0.00	0.00
8	0.00	0.18	0.33	0.32	1.3	2.1	3.7	1.9	0.68	0.00	0.00	0.00
9	0.00	0.15	0.35	0.32	1.2	2.0	3.2	1.7	0.59	0.00	0.00	0.00
10	0.00	0.15	0.33	0.32	1.1	1.9	2.9	1.6	0.54	0.00	0.00	0.00
11	0.00	0.18	0.32	0.31	1.2	1.9	9.4	1.6	0.47	0.00	0.00	0.00
12	0.00	0.28	0.34	0.30	1.2	1.8	17	1.5	0.33	0.00	0.00	0.00
13	0.00	0.26	0.34	0.30	4.1	1.8	145	1.4	0.22	0.00	0.00	0.00
14	0.00	0.26	0.31	0.30	3.4	2.0	73	1.3	0.19	0.00	0.00	0.00
15	0.00	0.19	0.32	0.30	3.1	2.3	32	1.3	0.17	0.00	0.00	0.00
16	0.00	0.18	0.34	0.29	2.7	2.8	20	1.3	0.12	0.00	0.00	0.00
17	0.00	0.19	0.35	0.26	2.1	76	15	1.2	0.07	0.00	0.00	0.00
18	0.00	0.20	0.35	0.28	1.9	50	11	1.1	0.03	0.00	0.00	0.00
19	0.00	0.21	0.38	0.29	1.9	26	8.8	1.1	0.02	0.00	0.00	0.00
20	0.00	0.67	0.38	1.4	2.0	16	7.5	1.0	0.01	0.00	0.00	0.00
21	0.00	0.70	0.38	88	1.9	13	6.3	0.91	0.01	0.00	0.00	0.00
22	0.01	0.53	0.35	11	1.8	9.8	5.4	0.88	0.01	0.00	0.00	0.00
23	0.02	0.49	0.31	81	1.8	7.3	4.6	0.84	0.00	0.00	0.00	0.00
24	0.03	0.45	0.32	26	1.7	5.6	4.0	0.75	0.00	0.00	0.00	0.00
25	0.03	0.40	0.32	8.7	1.6	7.0	3.9	0.78	0.00	0.00	0.00	0.00
26	0.03	0.35	0.34	4.9	1.5	7.5	9.3	0.88	0.00	0.00	0.00	0.00
27	0.03	0.35	0.35	3.3	1.6	5.4	8.3	0.91	0.00	0.00	0.00	0.00
28	0.04	0.35	0.35	2.7	1.6	11	5.4	0.80	0.00	0.00	0.00	0.00
29	0.05	0.34	0.38	2.3	4.5	7.9	4.4	0.74	0.00	0.00	0.00	0.00
30	0.05	0.32	0.39	2.0	---	5.8	3.7	0.71	0.00	0.00	0.00	0.00
31	0.05	---	0.38	1.8	---	7.2	---	0.69	---	0.00	0.00	---
Total	0.34	8.48	10.23	239.04	55.3	301.4	474.2	44.29	8.03	0.00	0.00	0.00
Mean	0.01	0.28	0.33	7.71	1.91	9.72	15.8	1.43	0.27	0.00	0.00	0.00
Max	0.05	0.70	0.39	88	4.5	76	145	3.2	0.89	0.00	0.00	0.00
Min	0.00	0.05	0.25	0.26	1.1	1.8	2.9	0.69	0.00	0.00	0.00	0.00
Ac-ft	0.7	17	20	474	110	598	941	88	16	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.07	2.35	10.9	25.2	30.2	25.4	12.6	3.93	1.17	0.25	0.03	0.02
Max	1.05	43.2	103	184	173	126	95.7	26.2	7.61	2.42	0.82	0.42
(WY)	(1983)	(1983)	(1997)	(1997)	(1986)	(1983)	(2006)	(1983)	(1998)	(1983)	(1983)	(1983)
Min	0.00	0.00	0.00	0.00	0.00	0.04	0.01	0.02	0.00	0.00	0.00	0.00
(WY)	(1971)	(1977)	(1977)	(1991)	(1991)	(1977)	(1977)	(1977)	(1977)	(1972)	(1971)	(1969)

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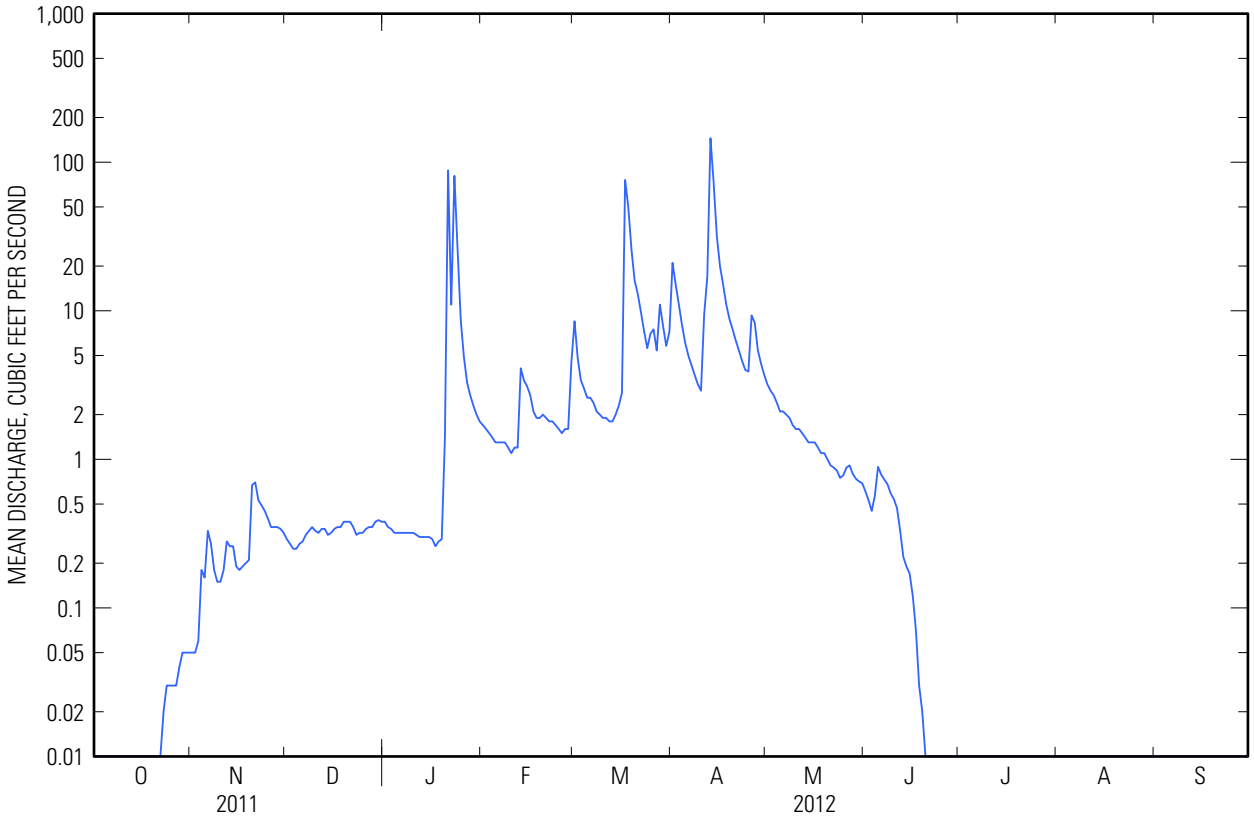
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1969 - 2012	
Annual total	5,639.35		1,141.31			
Annual mean	15.5		3.12		9.24	
Highest annual mean					38.2	1983
Lowest annual mean					0.01	1977
Highest daily mean	752	Mar 20	145	Apr 13	1,370	Jan 2, 1997
Lowest daily mean	0.00	Aug 19	0.00	Oct 1	0.00	Aug 27, 1969
Annual seven-day minimum	0.00	Aug 19	0.00	Oct 1	0.00	Aug 27, 1969
Maximum peak flow			257	Jan 21	2,620	Feb 17, 1986
Maximum peak stage			4.20	Jan 21	7.03	Feb 17, 1986
Annual runoff (ac-ft)	11,190		2,260		6,700	
10 percent exceeds	32		5.9		15	
50 percent exceeds	1.8		0.32		0.35	
90 percent exceeds	0.00		0.00		0.00