Water-Data Report 2012

10338500 Donner Creek at Donner Lake, near Truckee, CA

Pyramid and Winnemucca Lakes Basin

LOCATION.--Lat 39°19′25″, long 120°14′00″ referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.17, T.17 N., R.16 E., Nevada County, CA, Hydrologic Unit 16050102, in Donner Memorial State Park, on left bank, 10 ft downstream from bridge on Donner Memorial State Park road, 0.2 mi downstream from outlet of Donner Lake, 0.7 mi upstream from Cold Creek, and 2.5 mi west of Truckee.

DRAINAGE AREA.--14.3 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 1909 to August 1910, January 1929 to October 1935, January 1936 to March 1938, July to October 1938, January 1939 to February 1943, June 1943 to December 1952, May 1955 to December 1957, October 1958 to current year. Monthly discharge only prior to October 1958, published in WSP 1314 and 1734.

REVISED RECORDS.--WDR CA-79-3: Drainage area.

GAGE.--Water-stage recorder and concrete control, completed Oct. 3, 1989. Datum of gage is 5,924.40 ft above NGVD of 1929. Nov. 1, 1909, to Aug. 31, 1910, nonrecording gage at different datum. January 1929 to December 1957, water-stage recorder at same site at unknown datum.

REMARKS.--Records good except Aug. 2-10, which are fair. Flow completely regulated at dam at outlet of Donner Lake (station 10338400) since 1928. See schematic diagram of Truckee River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 863 ft^3/s, Jan. 2, 1997, gage height, 6.69 ft; no flow at times in many years.

10338500 Donner Creek at Donner Lake, near Truckee, CA—Continued

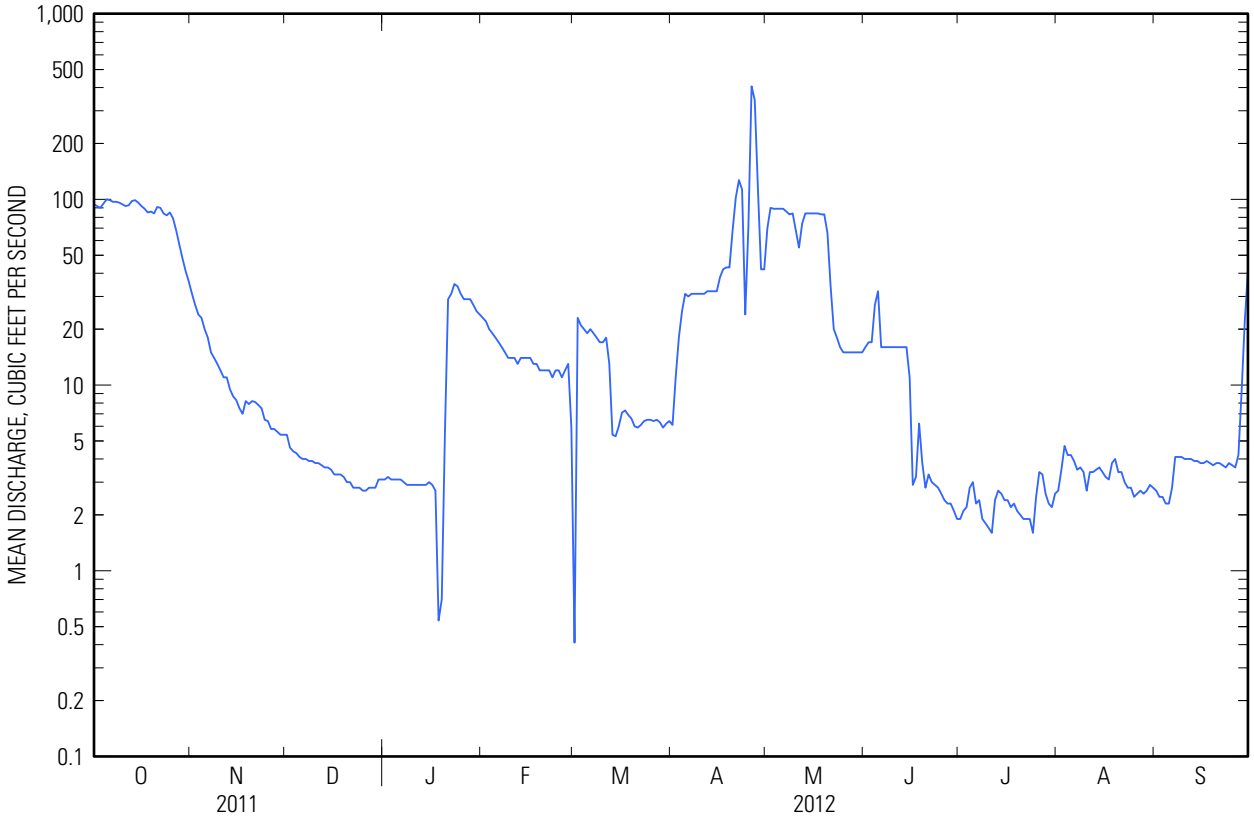
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	94	31	5.4	3.1	23	0.41	6.1	70	16	1.9	2.7	2.7
2	92	27	4.6	3.2	22	23	11	90	17	2.1	3.5	2.5
3	90	24	4.4	3.1	20	21	18	89	17	2.2	4.7	2.5
4	95	23	4.3	3.1	19	20	25	89	27	2.8	4.2	2.3
5	100	20	4.1	3.1	18	19	31	89	32	3.0	4.2	2.3
6	99	18	4.0	3.1	17	20	30	89	16	2.3	3.9	2.8
7	97	15	4.0	3.0	16	19	31	86	16	2.4	3.5	4.1
8	97	14	3.9	2.9	15	18	31	83	16	1.9	3.6	4.1
9	96	13	3.9	2.9	14	17	31	84	16	1.8	3.4	4.1
10	94	12	3.8	2.9	14	17	31	68	16	1.7	2.7	4.0
11	92	11	3.8	2.9	14	18	31	55	16	1.6	3.4	4.0
12	93	11	3.7	2.9	13	13	32	74	16	2.4	3.4	4.0
13	98	9.5	3.6	2.9	14	5.4	32	84	16	2.7	3.5	3.9
14	99	8.7	3.6	2.9	14	5.3	32	84	16	2.6	3.6	3.9
15	96	8.3	3.5	e3.0	14	6.0	32	84	11	2.4	3.4	3.8
16	92	7.5	3.3	2.9	14	7.1	38	84	2.9	2.4	3.2	3.8
17	89	7.0	3.3	2.7	13	7.3	42	84	3.2	2.2	3.1	3.9
18	85	8.2	3.3	0.54	13	6.9	43	83	6.2	2.3	3.8	3.8
19	86	7.9	3.2	0.70	12	6.6	43	83	3.8	2.1	4.0	3.7
20	84	8.2	3.0	5.5	12	6.0	68	66	2.8	2.0	3.4	3.8
21	91	8.1	3.0	29	12	5.9	102	34	3.3	1.9	3.4	3.8
22	90	7.8	2.8	31	12	6.1	127	20	3.0	1.9	3.0	3.7
23	84	7.5	2.8	35	11	6.4	113	18	2.9	1.9	2.8	3.6
24	82	6.5	2.8	34	12	6.5	24	16	2.8	1.6	2.8	3.8
25	85	6.4	2.7	31	12	6.5	72	15	2.6	2.5	2.5	3.7
26	79	5.8	2.7	29	11	6.4	406	15	2.4	3.4	2.6	3.6
27	68	5.8	2.8	29	12	6.5	343	15	2.3	3.3	2.7	4.2
28	57	5.6	2.8	29	13	6.3	115	15	2.3	2.6	2.6	9.2
29	48	5.4	2.8	27	5.9	5.9	42	15	2.1	2.3	2.7	22
30	41	5.4	3.1	25	---	6.2	42	15	1.9	2.2	2.9	41
31	36	---	3.1	24	---	6.4	---	15	---	2.6	2.8	---
Total	2,629	348.6	108.1	380.34	411.9	325.11	2,024.1	1,811	308.5	71.0	102.0	168.6
Mean	84.8	11.6	3.49	12.3	14.2	10.5	67.5	58.4	10.3	2.29	3.29	5.62
Max	100	31	5.4	35	23	23	406	90	32	3.4	4.7	41
Min	36	5.4	2.7	0.54	5.9	0.41	6.1	15	1.9	1.6	2.5	2.3
Ac-ft	5,210	691	214	754	817	645	4,010	3,590	612	141	202	334

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	31.0	26.6	29.8	33.1	32.1	38.3	53.2	85.9	46.5	11.6	7.19	26.1
Max	94.1	195	214	284	198	182	144	243	244	67.2	52.7	99.1
(WY)	(2011)	(1951)	(1951)	(1997)	(1986)	(1986)	(1940)	(1952)	(1983)	(1934)	(1932)	(1983)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1930)	(1930)	(1930)	(1929)	(1929)	(1929)	(1929)	(1929)	(1929)	(1937)	(1936)	(1930)

10338500 Donner Creek at Donner Lake, near Truckee, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1929 - 2012	
Annual total	21,421.1		8,688.25			
Annual mean	58.7		23.7		35.9	
Highest annual mean					83.3	1982
Lowest annual mean					7.71	1977
Highest daily mean	328	Jun 29	406	Apr 26	820	Jan 2, 1997
Lowest daily mean	1.2	Sep 14	0.41	Mar 1	0.00	Jan 1, 1929
Annual seven-day minimum	1.8	Sep 9	2.0	Jul 18	0.00	Jan 1, 1929
Maximum peak flow			588	Apr 26	863	Jan 2, 1997
Maximum peak stage			5.66	Apr 26	6.69	Jan 2, 1997
Annual runoff (ac-ft)	42,490		17,230		25,990	
10 percent exceeds	146		84		99	
50 percent exceeds	37		7.1		15	
90 percent exceeds	2.4		2.6		0.54