

10336645 General Creek near Meeks Bay, CA

Pyramid and Winnemucca Lakes Basin

LOCATION.--Lat 39°03'07", long 120°07'03" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.20, T.14 N., R.17 E., El Dorado County, CA, Hydrologic Unit 16050101, on right bank, 200 ft upstream from State Highway 89, 0.4 mi upstream from Lake Tahoe, and 1.1 mi north of Meeks Bay.

DRAINAGE AREA.--7.44 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,250.38 ft above NGVD of 1929.

REMARKS.--Records good. No known diversion or regulation upstream from station. See schematic diagram of Truckee River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 797 ft³/s, Jan. 2, 1997, gage height, 7.86 ft (backwater from plugged culvert), from rating curve extended above 180 ft³/s, on basis of computation of flow through culvert; minimum daily, 0.29 ft³/s, July 28, Aug. 15, 1994.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct 25	0000	289	3.06
May 6	2315	169	2.36
May 25	0145	105	2.00
Jun 22	2215	*317	*3.21
Jul 6	2045	256	2.89

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.82	4.4	4.9	e12	e11	9.4	23	44	47	104	4.4	1.7
2	0.92	3.9	6.3	e11	e11	e9.7	34	52	41	99	4.1	1.6
3	1.5	3.6	8.9	11	e11	e9.7	40	74	37	95	3.8	1.6
4	1.6	e3.5	8.3	9.9	10	e9.2	37	89	39	86	3.6	1.6
5	1.6	3.1	8.2	e11	10	9.1	43	104	63	79	3.4	1.6
6	1.3	3.0	10	11	10	9.0	46	130	112	96	3.3	1.6
7	1.1	e8.1	8.5	e11	11	e9.0	43	140	82	82	3.1	1.6
8	0.99	7.4	9.0	10	11	9.0	37	131	103	54	3.0	1.6
9	0.97	6.0	17	10	e11	9.5	30	85	129	43	2.9	1.6
10	0.95	5.6	26	e10	e11	9.8	26	71	146	32	2.8	1.6
11	0.87	5.3	27	10	e10	10	25	80	146	26	2.7	1.7
12	0.83	4.8	20	10	9.6	11	26	103	141	23	2.6	1.7
13	0.84	5.1	16	12	9.6	11	27	124	156	21	2.5	1.7
14	0.82	e6.8	26	e13	9.7	e11	24	130	182	19	2.3	1.6
15	0.83	e7.9	24	13	9.6	e15	23	93	181	17	2.3	1.6
16	0.93	e8.8	19	13	e9.7	e21	27	62	167	16	2.2	1.6
17	1.3	9.1	21	17	e9.5	e17	44	49	159	14	2.1	1.6
18	1.5	e7.5	43	17	e9.5	e15	74	45	161	13	2.1	1.6
19	1.3	e6.8	49	16	e9.6	e14	70	42	176	12	2.1	1.6
20	1.2	e7.3	36	14	e9.6	e14	73	50	161	11	2.0	1.6
21	1.2	e7.8	25	13	e9.4	e12	67	72	196	10	2.0	1.6
22	1.2	7.5	19	13	e9.7	e11	53	89	206	9.4	1.9	1.5
23	1.7	e7.2	16	13	e9.8	e11	43	85	182	8.6	1.9	1.6
24	46	e6.8	15	12	e9.8	e11	40	80	143	7.9	1.9	1.5
25	85	e6.4	14	12	10	e10	41	85	120	7.3	1.8	1.6
26	17	6.1	14	12	e9.6	e10	38	62	108	6.7	1.8	1.6
27	10	5.9	13	12	e9.6	11	38	55	111	6.1	1.8	1.6
28	7.5	5.9	13	12	e9.5	11	48	51	115	5.7	1.7	1.6
29	5.8	5.7	e14	12	---	12	51	46	196	5.3	1.7	1.6
30	5.0	5.3	e13	12	---	13	45	40	106	4.9	1.7	1.6
31	5.0	---	e12	12	---	17	---	43	---	4.7	1.7	---
Total	207.57	182.6	556.1	376.9	280.8	361.4	1,236	2,406	3,912	1,018.6	77.2	48.2
Mean	6.70	6.09	17.9	12.2	10.0	11.7	41.2	77.6	130	32.9	2.49	1.61
Max	85	9.1	49	17	11	21	74	140	206	104	4.4	1.7
Min	0.82	3.0	4.9	9.9	9.4	9.0	23	40	37	4.7	1.7	1.5
Ac-ft	412	362	1,100	748	557	717	2,450	4,770	7,760	2,020	153	96

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2011, BY WATER YEAR (WY)

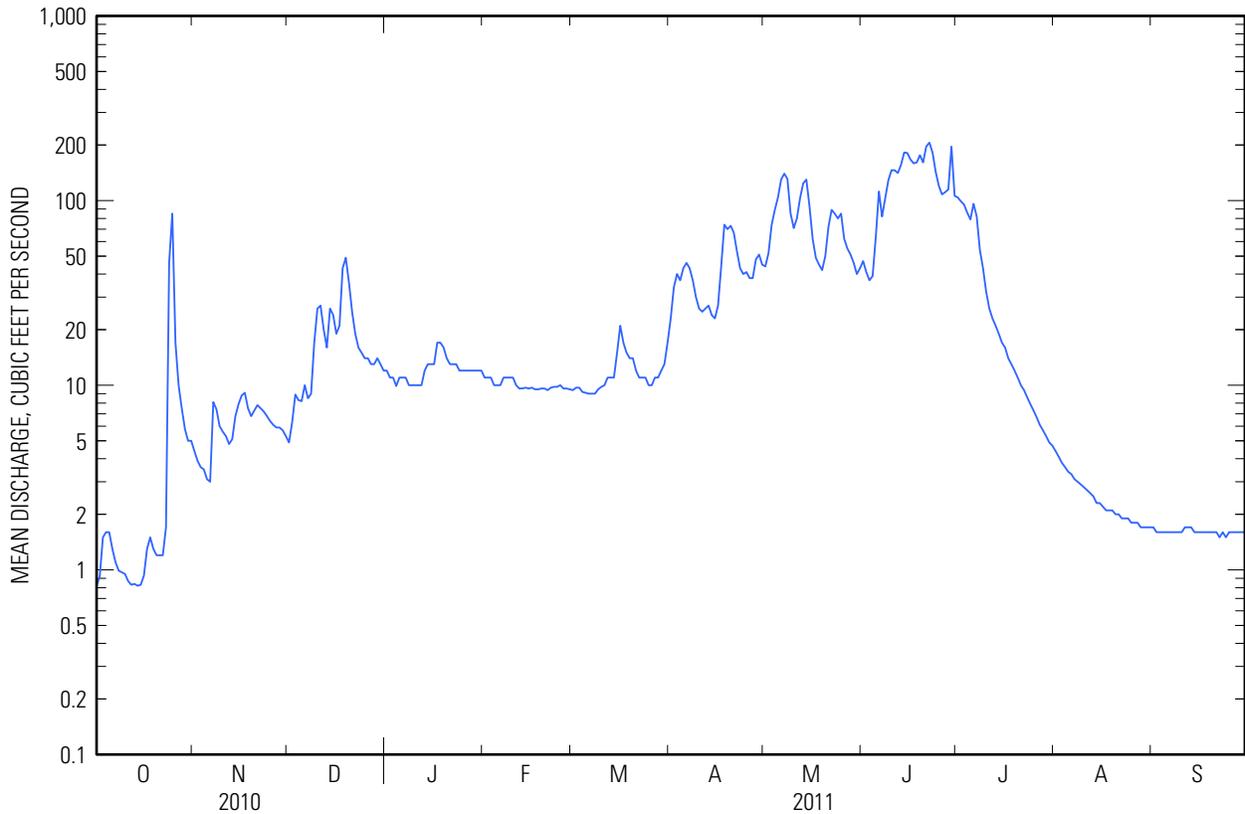
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.08	5.26	9.20	9.01	11.2	17.2	36.8	65.6	37.4	6.37	1.28	1.24
Max	15.5	45.4	61.8	68.9	64.2	60.1	70.4	130	158	49.6	4.72	4.36
(WY)	(1983)	(1982)	(2006)	(1997)	(1986)	(1986)	(1989)	(2005)	(1983)	(1983)	(1983)	(1983)
Min	0.73	0.84	0.89	0.90	0.99	5.86	15.9	7.18	1.63	0.49	0.35	0.39
(WY)	(1993)	(1993)	(1991)	(1991)	(1991)	(1994)	(1991)	(1992)	(2001)	(1994)	(1994)	(1992)

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SUMMARY STATISTICS

	Calendar Year 2010	Water Year 2011	Water Years 1980 - 2011	
Annual total	6,678.79	10,663.37		
Annual mean	18.3	29.2	16.9	
Highest annual mean			34.7	1982
Lowest annual mean			4.96	1988
Highest daily mean	216 Jun 6	206 Jun 22	600	Jan 1, 1997
Lowest daily mean	0.62 Aug 26	0.82 Oct 1	0.29	Jul 28, 1994
Annual seven-day minimum	0.66 Aug 22	0.87 Oct 10	0.31	Aug 15, 1994
Maximum peak flow		317 Jun 22	797	Jan 2, 1997
Maximum peak stage		3.21 Jun 22	^a 7.86	Jan 2, 1997
Annual runoff (ac-ft)	13,250	21,150	12,240	
10 percent exceeds	51	91	51	
50 percent exceeds	4.9	11	3.2	
90 percent exceeds	0.82	1.6	0.84	

^a Backwater from plugged culvert.



10336645 General Creek near Meeks Bay, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1981 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1980 to September 1983.

WATER TEMPERATURE: October 1980 to September 1992.

SUSPENDED-SEDIMENT DISCHARGE: October 1980 to September 1992.

REMARKS.--In October 1992, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Nutrient samples were analyzed by the University of California, Davis, Tahoe Research Group. Quality assurance samples associated with the entire Lake Tahoe Interagency Monitoring Program are listed under station numbers 103366769999 and 103367309999. The original hydrazine method used to determine nitrate plus nitrite concentrations (parameters 00631 and 00630) was found to have interferences caused by calcium and magnesium in stream water samples. The nitrate plus nitrite concentrations under parameters 99911 and 99910 are based on a laboratory method that uses pyrophosphate to remove interferences caused by calcium and magnesium. This method has replaced the original hydrazine method as of December 2008. Parameter code 00623, filtered ammonia plus organic nitrogen (dissolved Kjeldahl nitrogen) was discontinued in April 2011.

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 1 of 3

[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; <, less than; E, estimated]

Date	Sample start time	Medium name	Sample type	Discharge, instantaneous, ft ³ /s (00061)	Temperature, air, °C (00020)	Temperature, water, °C (00010)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	pH, water, unfiltered, field, standard units (00400)
10-04-2010	1110	Surface water	Regular	1.8	11.0	10.0	58	--
10-24-2010	1025	Surface water	Regular	4.9	7.0	7.0	57	--
10-24-2010	1640	Surface water	Regular	6.6	7.0	7.0	53	--
10-24-2010	2240	Surface water	Regular	276	--	6.0	16	--
10-25-2010	1615	Surface water	Regular	37	4.0	5.0	20	--
11-03-2010	1545	Surface water	Regular	3.7	13.5	6.0	37	--
12-07-2010	1345	Surface water	Regular	8.3	3.5	1.5	29	--
12-09-2010	1520	Surface water	Regular	20	3.5	1.5	23	--
12-10-2010	1615	Surface water	Regular	30	2.5	1.5	21	--
12-19-2010	1625	Surface water	Regular	57	.0	.0	23	--
01-04-2011	1530	Surface water	Regular	9.6	-4.0	.0	28	--
02-01-2011	1700	Surface water	Regular	E 11	-2.0	.0	29	--
03-04-2011	1730	Surface water	Regular	E 9.2	.0	.5	31	7.1
03-16-2011	1105	Surface water	Regular	E 21	-.5	.0	27	--
04-04-2011	1755	Surface water	Regular	37	7.0	2.0	24	--
04-18-2011	1735	Surface water	Regular	77	4.5	1.0	20	--
05-04-2011	2040	Surface water	Regular	95	3.0	1.0	18	--
05-14-2011	0920	Surface water	Regular	135	8.0	2.0	14	--
05-24-2011	1520	Surface water	Regular	69	13.5	6.0	17	--
05-31-2011	1700	Surface water	Regular	42	8.0	6.0	21	--
06-06-2011	1710	Surface water	Regular	101	7.0	4.0	16	--
06-13-2011	2040	Surface water	Regular	220	9.5	3.5	11	--
06-15-2011	2115	Surface water	Regular	253	--	3.5	10	--
06-17-2011	1600	Surface water	Regular	113	19.5	7.0	12	--
06-22-2011	1915	Surface water	Regular	269	19.0	6.5	10	--
06-23-2011	0830	Surface water	Regular	159	15.0	3.0	11	--
06-29-2011	1045	Surface water	Regular	260	7.0	3.5	11	--
07-06-2011	1915	Surface water	Regular	81	15.0	11.5	15	--
07-15-2011	1500	Surface water	Regular	17	18.0	13.0	22	--
08-09-2011	1325	Surface water	Regular	2.9	--	14.0	47	--
08-09-2011	1330	<i>QC sample - Surface water</i>	<i>Replicate</i>	--	--	--	47	--
09-06-2011	1715	Surface water	Regular	1.4	22.0	15.0	59	--

10336645 General Creek near Meeks Bay, CA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 2 of 3

[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; <, less than; E, estimated]

Date	Sample start time	Barometric pressure, mm Hg (00025)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	Ammonia plus organic nitrogen, water, filtered, mg/L as N (00623)	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (99911)	Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, water, filtered, mg/L as P (00666)
10-04-2010	1110	600	8.8	99	.06	.10	.004	.004	.012	.018
10-24-2010	1025	--	--	--	.22	.28	.005	.008	.021	.047
10-24-2010	1640	--	--	--	.24	.71	.006	.059	.029	.036
10-24-2010	2240	--	--	--	.32	.72	.008	.057	.015	.023
10-25-2010	1615	--	--	--	.25	.27	.005	.041	.006	.014
11-03-2010	1545	606	9.7	98	--	.13	.005	.003	.006	.016
12-07-2010	1345	603	10.9	98	.08	.09	.005	.002	.004	.010
12-09-2010	1520	--	--	--	.10	.18	.005	.012	.003	.016
12-10-2010	1615	--	--	--	.12	.15	.006	.018	.003	.017
12-19-2010	1625	--	--	--	.19	.22	.004	.021	.005	.012
01-04-2011	1530	--	--	--	--	.10	.004	.007	.004	.013
02-01-2011	1700	--	--	--	--	.07	.004	.003	.002	.012
03-04-2011	1730	604	11.2	98	.07	.11	.004	.010	.003	.008
03-16-2011	1105	--	--	--	--	.13	.004	.038	.004	.010
04-04-2011	1755	--	--	--	--	.10	.006	.013	.003	.006
04-18-2011	1735	--	--	--	--	.19	.003	.022	.003	.007
05-04-2011	2040	--	--	--	--	.11	.004	.011	.002	.010
05-14-2011	0920	597	10.8	100	--	.11	.005	.006	.002	.012
05-24-2011	1520	--	--	--	--	.09	.004	.004	.004	.005
05-31-2011	1700	--	--	--	--	.10	.004	.004	.004	.009
06-06-2011	1710	--	--	--	--	.28	.003	.007	.008	.015
06-13-2011	2040	--	--	--	--	.20	.004	.006	.008	.010
06-15-2011	2115	--	--	--	--	.14	.005	.006	.006	.007
06-17-2011	1600	--	--	--	--	.09	.005	.003	.007	.005
06-22-2011	1915	--	--	--	--	.18	.004	< .002	.007	.006
06-23-2011	0830	--	--	--	--	.09	.003	< .002	.007	.006
06-29-2011	1045	--	--	--	--	.20	.004	.005	< .001	.010
07-06-2011	1915	--	--	--	--	.06	.003	.002	.004	.006
07-15-2011	1500	--	--	--	--	.10	.005	.004	.003	.010
08-09-2011	1325	--	--	--	--	.09	.003	.003	.009	.019
08-09-2011	1330	--	--	--	--	.08	.004	.003	.009	.020
09-06-2011	1715	606	7.7	96	--	.08	.009	.003	.016	.025

10336645 General Creek near Meeks Bay, CA—Continued

WATER-QUALITY DATA

WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 3 of 3

[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second;
 mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters;
 °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; <, less than;
 E, estimated]

Date	Sample start time	Phosphorus, water, unfiltered, mg/L as P (00665)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	Suspended sediment concentration, mg/L (80154)	Suspended sediment discharge, tons per day (80155)
10-04-2010	1110	.022	--	6	.03
10-24-2010	1025	.068	--	11	.15
10-24-2010	1640	.395	--	112	2.0
10-24-2010	2240	.145	--	249	186
10-25-2010	1615	.035	--	5	.50
11-03-2010	1545	.018	--	1	.01
12-07-2010	1345	.014	--	< .5	< .01
12-09-2010	1520	.019	--	2	.11
12-10-2010	1615	.019	--	2	.16
12-19-2010	1625	.017	--	8	1.2
01-04-2011	1530	.013	--	< .5	< .01
02-01-2011	1700	.014	--	5	E .15
03-04-2011	1730	.009	--	2	E .05
03-16-2011	1105	.016	--	6	E .34
04-04-2011	1755	.008	--	3	.30
04-18-2011	1735	.014	--	21	4.4
05-04-2011	2040	.018	--	15	3.8
05-14-2011	0920	.022	--	13	4.7
05-24-2011	1520	.008	--	3	.56
05-31-2011	1700	.012	--	2	.23
06-06-2011	1710	.023	--	17	4.6
06-13-2011	2040	.060	--	97	58
06-15-2011	2115	.055	--	62	42
06-17-2011	1600	.010	--	15	4.6
06-22-2011	1915	.026	--	44	32
06-23-2011	0830	.015	--	19	8.2
06-29-2011	1045	.026	20	33	23
07-06-2011	1915	.013	--	9	2.0
07-15-2011	1500	.011	--	1	.05
08-09-2011	1325	.021	--	1	.01
08-09-2011	1330	.021	--	--	--
09-06-2011	1715	.025	--	1	< .01