

**10336660 Blackwood Creek near Tahoe City, CA**

Pyramid and Winnemucca Lakes Basin

LOCATION.--Lat 39°06'27", long 120°09'40" referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.36, T.15 N., R.16 E., Placer County, CA, Hydrologic Unit 16050101, on right bank, 300 ft upstream from bridge on State Highway 89, 1,000 ft upstream from Lake Tahoe, and 4.6 mi south of Tahoe City.

DRAINAGE AREA.--11.2 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 6,234.59 ft above NGVD of 1929. Oct. 1, 1960, to Sept. 30, 1964, at datum 10.25 ft lower and Oct. 1, 1964, to Aug. 27, 1970, at datum 12 ft lower, at site 400 ft downstream.

REMARKS.--Records poor. 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, 2,940 ft<sup>3</sup>/s, Jan. 1, 1997, gage height, 9.82 ft, maximum gage height, 9.90 ft, site and datum then in use, Dec. 22, 1964; minimum daily, 0.36 ft<sup>3</sup>/s, Sept. 25, 2009.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Oct 24	2000	<sup>a</sup> >500	<sup>*a</sup> 3.94
May 8	0030	258	2.42
May 14	0000	317	2.64
Jun 22	1945	<sup>*</sup> 571	3.25

<sup>a</sup> Peak destroyed the control

## 10336660 Blackwood Creek near Tahoe City, CA—Continued

**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	0.60	11	e12	e28	23	e26	33	80	77	320	59	4.0
2	0.84	8.3	e13	e27	e22	e26	56	85	68	333	52	3.8
3	2.5	7.3	e14	e26	e22	e26	85	97	63	282	46	3.6
4	3.7	6.7	e14	e26	22	e25	79	110	65	270	41	3.4
5	3.6	5.7	e13	e25	22	e25	e86	132	90	267	37	2.9
6	2.9	5.2	e15	e25	22	e25	e84	183	160	274	35	2.7
7	2.4	15	e13	e24	23	e25	71	195	137	260	31	2.7
8	2.3	16	14	e23	24	e25	64	188	169	228	28	2.6
9	2.3	13	55	e23	23	e25	58	137	207	200	25	2.7
10	2.3	13	e69	e24	22	e24	63	123	285	168	24	2.4
11	2.3	11	66	e23	21	e25	57	133	294	145	22	2.6
12	2.3	10	e56	e20	22	e25	57	156	298	137	20	3.3
13	2.3	9.9	49	e20	23	e25	74	183	322	132	19	2.6
14	2.3	13	e67	e20	23	e27	72	195	354	126	17	2.3
15	2.3	e14	63	e19	23	e31	69	180	343	119	16	2.2
16	2.2	e15	58	e19	e23	e50	67	146	327	112	15	2.0
17	2.8	15	50	20	e23	e27	87	138	306	106	13	2.0
18	2.9	e14	e78	21	e23	e24	138	113	294	104	12	1.8
19	2.5	e14	e97	21	e23	e21	148	84	311	104	11	1.9
20	2.4	e15	87	21	e23	e19	130	87	302	100	10	1.6
21	2.4	e15	70	21	e23	e17	114	105	355	95	9.8	1.3
22	2.5	e14	58	22	23	e15	94	123	421	91	8.9	1.3
23	5.1	e13	52	22	22	15	79	124	406	90	8.6	1.2
24	e195	e14	43	22	e22	13	80	126	359	89	8.4	1.1
25	95	e13	38	22	e24	13	76	128	307	84	7.9	1.2
26	28	e13	e32	23	e25	11	72	105	275	77	7.2	1.1
27	21	e13	e31	23	e26	13	75	97	283	71	6.3	1.1
28	15	e13	e31	23	e26	12	84	88	290	67	5.5	1.0
29	12	e13	e30	25	---	13	93	78	377	67	5.1	0.87
30	12	e13	e29	26	---	16	79	71	310	66	4.8	0.78
31	13	---	e28	23	---	23	---	75	---	63	4.3	---
<b>Total</b>	448.74	366.1	1,345	707	643	687	2,424	3,865	7,855	4,647	609.8	64.05
<b>Mean</b>	14.5	12.2	43.4	22.8	23.0	22.2	80.8	125	262	150	19.7	2.13
<b>Max</b>	195	16	97	28	26	50	148	195	421	333	59	4.0
<b>Min</b>	0.60	5.2	12	19	21	11	33	71	63	63	4.3	0.78
<b>Ac-ft</b>	890	726	2,670	1,400	1,280	1,360	4,810	7,670	15,580	9,220	1,210	127

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2011, BY WATER YEAR (WY)**

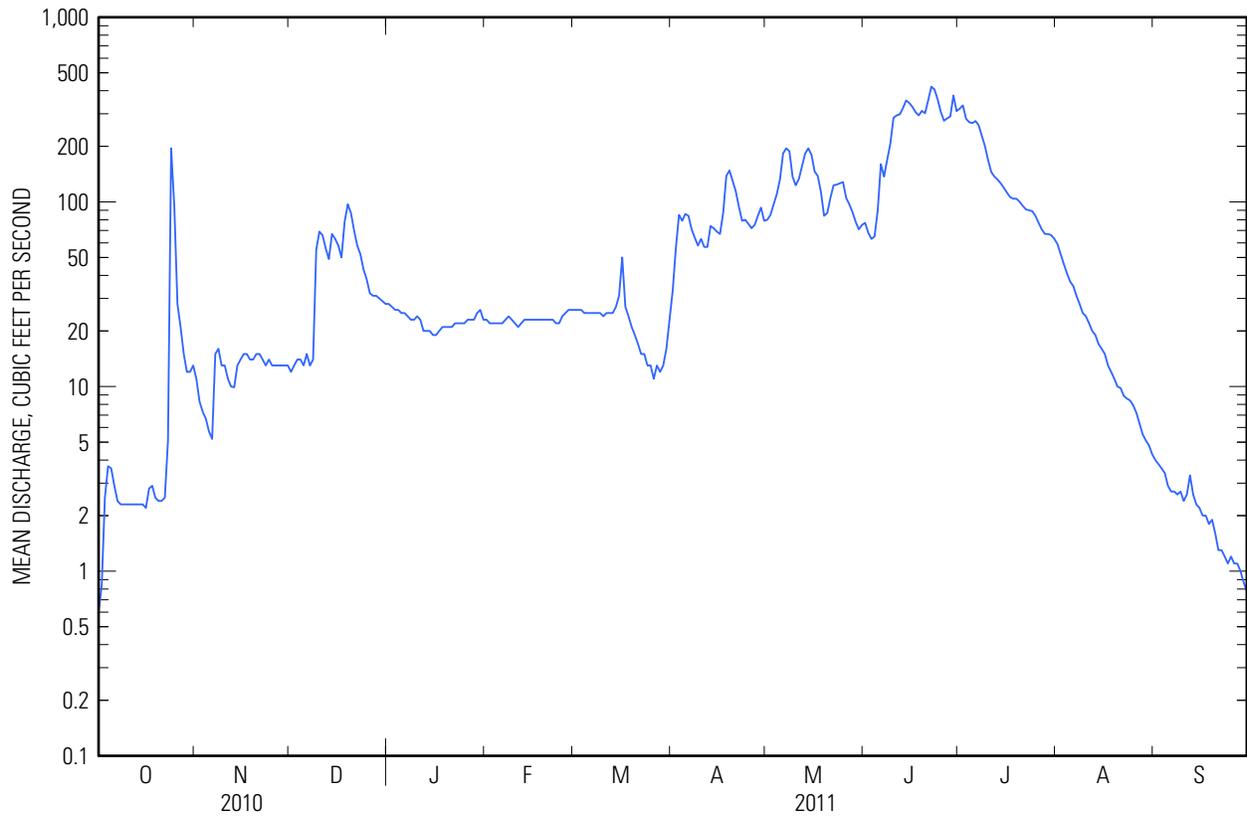
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	4.54	10.8	19.8	23.1	20.0	29.2	60.4	130	103	29.2	5.54	2.64
<b>Max</b>	28.1	94.8	157	201	116	122	124	312	320	150	36.1	10.3
<b>(WY)</b>	(1963)	(1984)	(1965)	(1997)	(1986)	(1986)	(1989)	(1969)	(1983)	(2011)	(1983)	(1982)
<b>Min</b>	1.19	1.68	1.90	2.00	2.27	3.82	13.6	29.7	7.20	2.76	1.31	1.00
<b>(WY)</b>	(2002)	(1978)	(1977)	(1991)	(1991)	(1977)	(1975)	(1977)	(1992)	(2001)	(2001)	(2001)

10336660 Blackwood Creek near Tahoe City, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2010	Water Year 2011	Water Years 1961 - 2011	
<b>Annual total</b>	13,346.33	23,661.69		
<b>Annual mean</b>	36.6	64.8	36.6	
<b>Highest annual mean</b>			73.4	1982
<b>Lowest annual mean</b>			8.71	1977
<b>Highest daily mean</b>	375 Jun 6	421 Jun 22	2,000	Jan 1, 1997
<b>Lowest daily mean</b>	0.58 Sep 30	0.60 Oct 1	0.36	Sep 25, 2009
<b>Annual seven-day minimum</b>	0.69 Sep 26	1.0 Sep 24	0.54	Sep 23, 1968
<b>Maximum peak flow</b>		571 Jun 22	2,940	Jan 1, 1997
<b>Maximum peak stage</b>		<sup>a</sup> 3.94 Oct 24	9.90	Dec 22, 1964
<b>Annual runoff (ac-ft)</b>	26,470	46,930	26,490	
<b>10 percent exceeds</b>	115	183	107	
<b>50 percent exceeds</b>	11	25	9.7	
<b>90 percent exceeds</b>	2.4	2.6	2.1	

<sup>a</sup> Peak destroyed the control.



**10336660 Blackwood Creek near Tahoe City, CA—Continued**

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1975-78, 1980 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1980 to September 1983.

WATER TEMPERATURE: October 1974 to June 1978 (1977-78 storm season only), October 1979 to September 1992.

SUSPENDED-SEDIMENT DISCHARGE: October 1974 to June 1978 (1977-78 storm season only), October 1979 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.

## 10336660 Blackwood Creek near Tahoe City, CA—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 1 of 3

[%, percent; N, nitrogen; P, phosphorus; ft<sup>3</sup>/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 <sup>3</sup> /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	0730	Surface water	Regular	4.8	7.5	10.5	73	--
10-05-2010	1540	Surface water	Regular	3.1	6.0	10.0	76	--
10-24-2010	0920	Surface water	Regular	E 195	6.5	6.0	44	--
10-24-2010	1540	Surface water	Regular	E 195	--	6.0	25	--
10-24-2010	2145	Surface water	Regular	E 195	4.0	5.5	24	--
10-25-2010	1510	Surface water	Regular	63	6.0	6.0	40	--
11-03-2010	1430	Surface water	Regular	7.0	11.5	8.0	55	--
12-07-2010	1220	Surface water	Regular	E 13	3.0	2.5	56	--
12-09-2010	1405	Surface water	Regular	63	3.5	2.5	46	--
12-10-2010	1505	Surface water	Regular	E 69	4.0	2.0	41	--
12-19-2010	1755	Surface water	Regular	E 97	-2.5	.0	43	--
01-04-2011	1710	Surface water	Regular	E 26	-5.0	.0	57	--
02-01-2011	1535	Surface water	Regular	22	-2.0	2.5	60	--
03-04-2011	1550	Surface water	Regular	E 25	1.5	4.5	62	7.1
03-16-2011	0930	Surface water	Regular	E 50	.0	.0	55	--
04-04-2011	1645	Surface water	Regular	78	7.5	5.5	54	--
04-18-2011	1625	Surface water	Regular	135	2.5	3.0	46	--
05-04-2011	1945	Surface water	Regular	126	3.0	3.0	46	--
05-14-2011	0740	Surface water	Regular	198	5.5	2.0	39	--
05-24-2011	1400	Surface water	Regular	116	10.0	7.0	44	--
05-31-2011	1605	Surface water	Regular	76	--	7.0	48	--
06-06-2011	1605	Surface water	Regular	146	6.5	6.5	41	--
06-13-2011	1945	Surface water	Regular	394	9.5	3.5	31	--
06-15-2011	2025	Surface water	Regular	439	8.0	3.0	29	--
06-17-2011	1445	Surface water	Regular	268	16.0	7.0	34	--
06-22-2011	1820	Surface water	Regular	555	19.0	5.5	26	--
06-23-2011	0735	Surface water	Regular	371	8.0	3.0	29	--
06-29-2011	0945	Surface water	Regular	461	5.0	3.0	27	--
07-06-2011	1825	Surface water	Regular	312	14.0	7.0	25	--
07-15-2011	0950	Surface water	Regular	111	13.5	6.0	33	--
07-22-2011	1845	Surface water	Regular	97	20.0	11.5	33	--
08-09-2011	1515	Surface water	Regular	24	--	16.0	45	--
08-09-2011	1520	<i>QC sample - Surface water</i>	<i>Replicate</i>	--	--	--	45	--
09-07-2011	1135	Surface water	Regular	3.1	20.0	13.0	63	--

## 10336660 Blackwood Creek near Tahoe City, CA—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 2 of 3

[%, percent; N, nitrogen; P, phosphorus; ft<sup>3</sup>/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	0730	598	8.4	96	.12	.16	.004	.010	.008	.013
10-05-2010	1540	--	--	--	.05	.08	.005	.005	.007	.015
10-24-2010	0920	--	--	--	.15	.76	.004	.132	.010	.018
10-24-2010	1540	--	--	--	.23	2.5	.008	.215	.017	.022
10-24-2010	2145	--	--	--	.24	1.2	.008	.161	.015	.023
10-25-2010	1510	--	--	--	.18	.31	.005	.110	.009	.025
11-03-2010	1430	607	9.2	98	--	.15	.005	.009	.008	.016
12-07-2010	1220	603	9.7	90	.06	.04	.004	.003	.006	.013
12-09-2010	1405	--	--	--	.05	.09	.004	.004	.005	.009
12-10-2010	1505	--	--	--	.10	.12	.005	.022	.005	.012
12-19-2010	1755	--	--	--	.11	.19	.005	.025	.006	.015
01-04-2011	1710	--	--	--	--	.06	< .003	.004	.005	.016
02-01-2011	1535	601	10.6	98	--	.05	.004	< .002	.004	.016
03-04-2011	1550	604	11.2	109	.05	.07	.005	.006	.005	.012
03-16-2011	0930	--	--	--	--	.07	< .003	.031	.005	.012
04-04-2011	1645	--	--	--	--	.07	.006	.024	.005	.009
04-18-2011	1625	--	--	--	--	.12	.004	.047	.005	.011
05-04-2011	1945	--	--	--	--	.11	.004	.026	.004	.015
05-14-2011	0740	597	10.7	99	--	.12	.005	.036	.004	.017
05-24-2011	1400	--	--	--	--	.12	.004	.015	.006	.013
05-31-2011	1605	--	--	--	--	.05	.004	.007	.005	.013
06-06-2011	1605	--	--	--	--	.10	.004	.014	.006	.022
06-13-2011	1945	--	--	--	--	.26	.004	.023	.010	.017
06-15-2011	2025	--	--	--	--	.71	.004	.026	.008	.021
06-17-2011	1445	--	--	--	--	.08	.005	.019	.007	.009
06-22-2011	1820	--	--	--	--	1.5	.004	.018	.010	.010
06-23-2011	0735	--	--	--	--	.14	.004	.021	--	--
06-29-2011	0945	--	--	--	--	.15	.004	.022	.003	.010
07-06-2011	1825	--	--	--	--	.06	.006	.009	.005	.008
07-15-2011	0950	--	--	--	--	.07	.004	.005	.003	.009
07-22-2011	1845	--	--	--	--	.06	.005	.004	.004	.013
08-09-2011	1515	605	7.7	98	--	.06	.003	.004	.006	.017
08-09-2011	1520	--	--	--	--	.09	< .003	.004	.006	.016
09-07-2011	1135	609	8.4	100	--	.06	.003	.006	.008	.018

## 10336660 Blackwood Creek near Tahoe City, CA—Continued

## WATER-QUALITY DATA

## WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 3 of 3

[%, percent; N, nitrogen; P, phosphorus; ft<sup>3</sup>/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	0730	.017	--	1	.01
10-05-2010	1540	.019	--	1	.01
10-24-2010	0920	.307	--	130	E 68
10-24-2010	1540	.932	54	1,330	E 699
10-24-2010	2145	.506	40	1,150	E 607
10-25-2010	1510	.056	--	22	3.7
11-03-2010	1430	.025	--	2	.04
12-07-2010	1220	.019	--	< .5	< .02
12-09-2010	1405	.027	--	9	1.5
12-10-2010	1505	.046	--	24	E 4.5
12-19-2010	1755	.057	--	55	E 14
01-04-2011	1710	.019	--	3	E .21
02-01-2011	1535	.017	--	1	.06
03-04-2011	1550	.016	--	< .5	< .03
03-16-2011	0930	.024	--	8	E 1.1
04-04-2011	1645	.013	--	5	1.1
04-18-2011	1625	.040	--	27	9.8
05-04-2011	1945	.034	--	28	9.5
05-14-2011	0740	.043	--	27	14
05-24-2011	1400	.017	--	5	1.6
05-31-2011	1605	.019	--	5	1.0
06-06-2011	1605	.035	--	15	5.9
06-13-2011	1945	.175	--	312	332
06-15-2011	2025	.180	--	355	421
06-17-2011	1445	.037	--	37	27
06-22-2011	1820	.201	--	215	322
06-23-2011	0735	.064	--	66	66
06-29-2011	0945	.077	--	99	123
07-06-2011	1825	.047	--	45	38
07-15-2011	0950	.014	--	3	.90
07-22-2011	1845	.020	--	4	1.0
08-09-2011	1515	.019	--	1	.06
08-09-2011	1520	.017	--	--	--
09-07-2011	1135	.020	--	1	.01