



Water-Data Report 2011

**10336698 Third Creek near Crystal Bay, NV**

Pyramid and Winnemucca Lakes Basin

LOCATION.--Lat 39°14'26", long 119°56'44" referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.22, T.16 N., R.18 E., Washoe County, NV, Hydrologic Unit 16050101, on right bank, 50 ft upstream from culvert on Lakeshore Boulevard, 600 ft upstream from mouth, and 3 mi east of Crystal Bay.

DRAINAGE AREA.--6.05 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1969 to September 1973, February to September 1975, and October 1977 to current year.

REVISED RECORDS.--WDR NV-78-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,234.03 ft above NGVD of 1929.

REMARKS.--Records fair. One transmountain diversion to Washoe Valley. See schematic diagram of Pyramid and Winnemucca Lakes Basin available from the Nevada Water Science Center and Truckee River Basin available from the California Water Science Center.

## Water-Data Report 2011

## 10336698 Third Creek near Crystal Bay, NV—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY MEAN VALUES**  
[e, estimated]

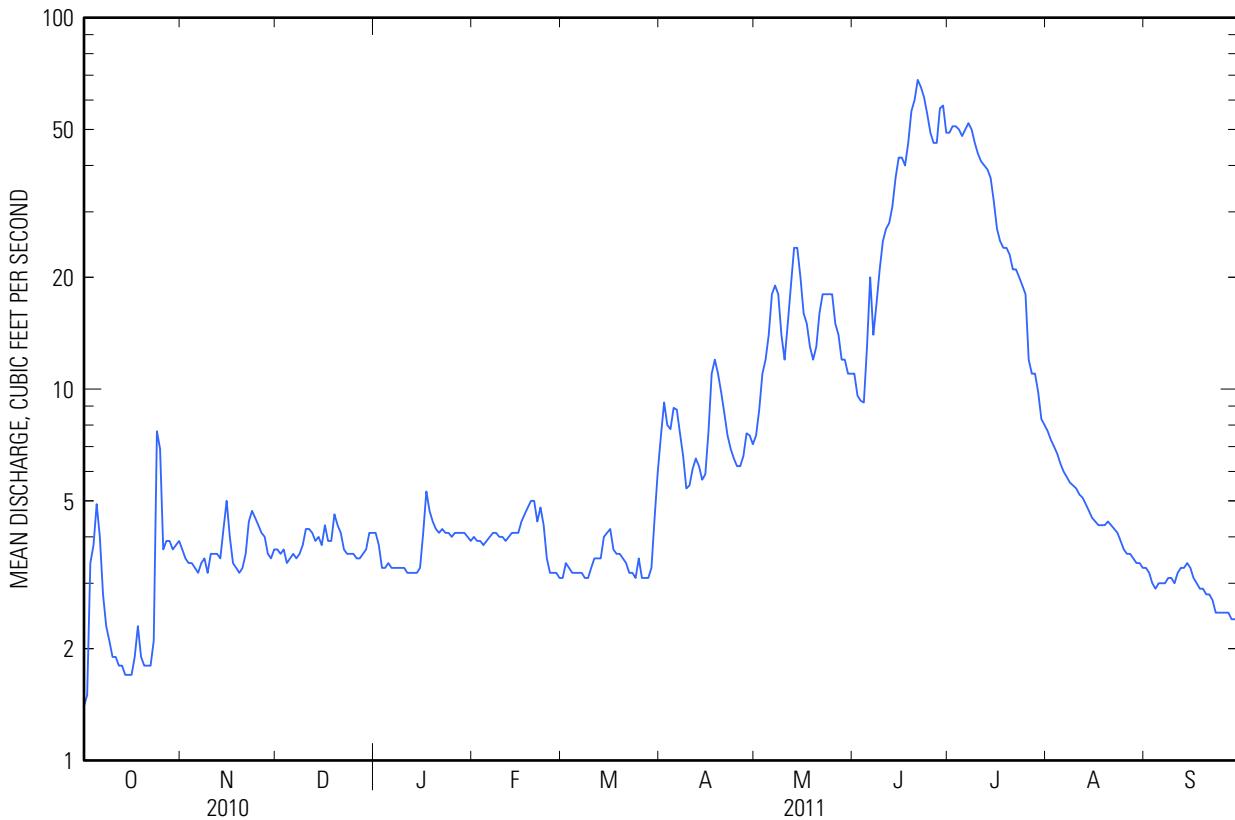
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e1.4	3.7	3.7	e4.1	4.0	3.1	7.5	7.5	11	49	7.7	3.3
2	e1.5	3.5	3.6	3.8	e3.9	3.4	9.2	8.8	9.6	51	7.3	3.2
3	3.4	3.4	3.7	3.3	e3.9	3.3	8.0	11	9.3	51	7.0	3.0
4	3.8	3.4	3.4	e3.3	3.8	3.2	7.8	12	9.2	50	6.7	2.9
5	4.9	3.3	3.5	3.4	3.9	3.2	8.9	14	13	48	6.3	3.0
6	4.0	3.2	3.6	3.3	4.0	3.2	8.8	18	20	50	6.0	3.0
7	2.8	3.4	3.5	3.3	4.1	3.2	7.6	19	14	52	5.8	3.0
8	2.3	3.5	3.6	3.3	e4.1	3.1	6.6	18	17	50	5.6	3.1
9	2.1	3.2	3.8	e3.3	e4.0	3.1	5.4	14	21	46	5.5	3.1
10	1.9	3.6	4.2	e3.3	e4.0	3.3	5.5	12	25	43	5.4	3.0
11	1.9	3.6	4.2	e3.2	3.9	3.5	6.1	15	27	41	5.2	3.2
12	1.8	3.6	4.1	3.2	4.0	3.5	6.5	19	28	40	5.1	3.3
13	1.8	3.5	3.9	3.2	4.1	3.5	6.2	24	31	39	4.9	3.3
14	1.7	4.2	4.0	3.2	4.1	4.0	5.7	24	37	37	4.7	3.4
15	1.7	5.0	3.8	3.3	4.1	4.1	5.9	20	42	32	4.5	3.3
16	1.7	4.0	4.3	4.1	4.4	4.2	7.7	16	42	27	4.4	3.1
17	1.9	3.4	3.9	5.3	4.6	3.7	11	15	40	25	4.3	3.0
18	2.3	3.3	3.9	4.7	e4.8	3.6	12	13	46	24	4.3	2.9
19	1.9	3.2	4.6	4.4	5.0	3.6	11	12	56	24	4.3	2.9
20	1.8	e3.3	4.3	4.2	e5.0	3.5	9.8	13	60	23	4.4	2.8
21	1.8	3.6	4.1	4.1	4.4	3.4	8.6	16	68	21	4.3	2.8
22	1.8	4.4	3.7	4.2	e4.8	3.2	7.5	18	65	21	4.2	2.7
23	2.1	4.7	3.6	4.1	e4.3	3.2	6.9	18	61	20	4.1	2.5
24	7.7	e4.5	3.6	4.1	e3.5	3.1	6.5	18	55	19	3.9	2.5
25	6.9	e4.3	3.6	4.0	3.2	3.5	6.2	18	49	18	3.7	2.5
26	3.7	4.1	3.5	4.1	e3.2	3.1	6.2	15	46	12	3.6	2.5
27	3.9	4.0	e3.5	4.1	e3.2	3.1	6.6	14	46	11	3.6	2.5
28	3.9	3.6	3.6	4.1	e3.1	3.1	7.6	12	57	11	3.5	2.4
29	3.7	3.5	3.7	4.1	---	3.3	7.5	12	58	9.8	3.4	2.4
30	3.8	3.7	e4.1	4.0	---	4.5	7.1	11	49	8.3	3.4	2.4
31	3.9	---	e4.1	3.9	---	6.0	---	11	---	8.0	3.3	---
<b>Total</b>	89.8	111.7	118.7	118.0	113.4	108.8	227.9	468.3	1,112.1	961.1	150.4	87.0
<b>Mean</b>	2.90	3.72	3.83	3.81	4.05	3.51	7.60	15.1	37.1	31.0	4.85	2.90
<b>Max</b>	7.7	5.0	4.6	5.3	5.0	6.0	12	24	68	52	7.7	3.4
<b>Min</b>	1.4	3.2	3.4	3.2	3.1	3.1	5.4	7.5	9.2	8.0	3.3	2.4
<b>Ac-ft</b>	178	222	235	234	225	216	452	929	2,210	1,910	298	173

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2011, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	3.11	3.94	4.03	4.31	4.23	5.72	8.92	19.3	23.1	10.3	3.59	2.78
<b>Max</b>	9.10	11.0	8.84	17.1	9.05	13.5	20.2	41.2	59.9	53.9	15.7	8.71
(WY)	(1984)	(1985)	(1996)	(1997)	(1986)	(1986)	(1986)	(1997)	(2006)	(1995)	(1983)	(1999)
<b>Min</b>	0.79	1.46	1.91	2.09	2.35	2.84	4.89	3.84	1.81	1.10	0.86	0.89
(WY)	(1978)	(2008)	(2009)	(1985)	(1978)	(2008)	(2010)	(1988)	(2001)	(2007)	(2007)	(2008)

**10336698 Third Creek near Crystal Bay, NV—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2010</b>	<b>Water Year 2011</b>	<b>Water Years 1970 - 2011</b>	
<b>Annual total</b>	2,499.0	3,667.2		
<b>Annual mean</b>	6.85	10.0	7.74	
<b>Highest annual mean</b>			14.1	1983
<b>Lowest annual mean</b>			2.92	1988
<b>Highest daily mean</b>	64	Jun 6	101	Jun 6, 2006
<b>Lowest daily mean</b>	1.4	Sep 7	0.66	Oct 13, 1977
<b>Annual seven-day minimum</b>	1.5	Sep 25	0.67	Oct 13, 1977
<b>Maximum peak flow</b>			160	Jun 6, 2006
<b>Maximum peak stage</b>		3.24	3.77	Jan 23, 1973
<b>Annual runoff (ac-ft)</b>	4,960	7,270	5,610	
<b>10 percent exceeds</b>	12	26	18	
<b>50 percent exceeds</b>	3.4	4.1	4.1	
<b>90 percent exceeds</b>	1.7	3.0	1.6	



**10336698 Third Creek near Crystal Bay, NV—Continued**

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1970-73, 1978-1984, 1988 to current year.

REMARKS.--In November 1987, 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.

## 10336698 Third Creek near Crystal Bay, NV—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;  
 X, Result failed quality assurance review]

Date	Sample start time	Medium name	Sample type	Discharge, instantane- ous, ft <sup>3</sup> /s (00061)	Tempera- ture, air, °C (00020)	Tempera- ture, water, °C (00010)	Tempera- ture, water, unfiltered, 25 °C (00095)	Specific conduc- tance, water, unfiltered, µS/cm at 25 °C (00095)	pH, water, field, standard units (00400)
10-04-2010	1120	Surface water	Regular	5.4	9.5	8.5	88	--	
10-05-2010	1650	Surface water	Regular	4.2	9.0	7.5	95	--	
10-06-2010	1305	Surface water	Regular	3.4	8.0	6.5	96	--	
10-24-2010	1610	Surface water	Regular	8.5	9.5	6.5	81	--	
11-04-2010	1215	Surface water	Regular	3.4	10.5	6.0	64	--	
12-07-2010	1305	Surface water	Regular	3.4	6.0	2.2	68	7.6	
01-06-2011	1410	Surface water	Regular	3.4	2.0	1.0	73	--	
02-22-2011	1330	Surface water	Regular	E 4.8	5.0	.0	79	--	
03-08-2011	1530	Surface water	Regular	3.1	5.5	2.7	85	7.6	
03-16-2011	1415	Surface water	Regular	4.2	1.5	2.0	110	--	
04-08-2011	1620	Surface water	Regular	6.0	-1.0	2.5	101	--	
04-18-2011	1930	Surface water	Regular	11	5.0	3.5	97	--	
05-09-2011	1705	Surface water	Regular	13	5.5	3.5	63	--	
05-13-2011	1815	Surface water	Regular	26	16.0	5.0	49	--	
05-13-2011	1820	QC sample - Surface water	Replicate	--	--	--	--	--	
05-13-2011	1825	QC sample - Surface water	Replicate	--	--	--	--	--	
05-23-2011	1820	Surface water	Regular	19	7.0	4.5	50	--	
06-03-2011	1500	Surface water	Regular	9.1	10.0	5.0	59	7.7	
06-05-2011	1155	Surface water	Regular	12	9.5	5.5	65	--	
06-06-2011	1045	Surface water	Regular	22	3.0	2.0	70	--	
06-10-2011	1655	Surface water	Regular	28	15.0	7.0	46	--	
06-14-2011	1600	Surface water	Regular	41	20.0	6.5	35	--	
06-15-2011	2010	Surface water	Regular	47	12.0	3.0	30	--	
06-15-2011	2015	QC sample - Surface water	Replicate	--	--	--	--	--	
06-17-2011	0835	Surface water	Regular	37	10.0	3.5	38	--	
06-21-2011	1905	Surface water	Regular	66	16.0	4.5	28	--	
06-23-2011	1810	Surface water	Regular	77	16.5	5.5	27	--	
06-24-2011	0810	Surface water	Regular	48	11.5	3.5	31	--	
06-28-2011	1530	Surface water	Regular	66	16.5	6.5	30	--	
07-06-2011	1205	Surface water	Regular	44	20.0	9.0	33	--	
07-06-2011	1705	Surface water	Regular	61	--	--	30	--	
07-18-2011	1025	Surface water	Regular	25	15.5	8.0	57	--	
07-27-2011	1555	Surface water	Regular	11	22.0	12.5	50	--	
08-11-2011	1605	Surface water	Regular	5.0	21.5	11.0	60	--	
09-09-2011	1715	Surface water	Regular	2.9	23.0	11.5	59	7.9	

## 10336698 Third Creek near Crystal Bay, NV—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; X, Result failed quality assurance review]

Date	Sample start time	Barometric pressure, mm Hg (00025)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	Dissolved	Ammonia plus organic	Ammonia plus organic	Nitrate plus nitrite, water, filtered, mg/L as N (00608)	Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, water, filtered, mg/L as P (00666)
					water, unfiltered, mg/L as N (00623)	water, filtered, mg/L as N (00625)	water, unfiltered, mg/L as N (00608)	water, filtered, mg/L as N (99911)	water, filtered, mg/L as P (00671)	water, filtered, mg/L as P (00666)
10-04-2010	1120	--	--	--	.15	.34	.005	.007	.027	.035
10-05-2010	1650	--	--	--	.21	.30	.004	.007	.017	.025
10-06-2010	1305	--	--	--	.22	.28	.004	.030	.014	.022
10-24-2010	1610	--	--	--	.19	.76	.005	.041	.035	.043
11-04-2010	1215	--	--	--	--	.21	.003	<.002	.008	.017
12-07-2010	1305	613	10.8	98	.05	.07	<.003	<.002	.006	.019
01-06-2011	1410	--	--	--	--	.08	.004	.007	.009	.015
02-22-2011	1330	--	--	--	--	.13	.004	.005	.005	.015
03-08-2011	1530	614	10.9	100	.04	.08	.004	.003	.005	.016
03-16-2011	1415	--	--	--	.13	.14	.004	.018	.012	.018
04-08-2011	1620	--	--	--	--	.14	.004	.019	.009	.021
04-18-2011	1930	--	--	--	--	.17	.006	.073	.014	.021
05-09-2011	1705	--	--	--	--	.14	.008	.025	.006	.013
05-13-2011	1815	--	--	--	--	.26	.004	.022	.006	.031
05-13-2011	1820	--	--	--	--	--	--	--	--	--
05-13-2011	1825	--	--	--	--	--	--	--	--	--
05-23-2011	1820	--	--	--	--	.09	.004	.011	.006	.015
06-03-2011	1500	607	10.1	99	--	.07	<.003	.004	.007	.020
06-05-2011	1155	--	--	--	--	.08	.004	.012	.009	.020
06-06-2011	1045	--	--	--	--	.22	.006	.044	.014	.031
06-10-2011	1655	--	--	--	--	.38	.004	.007	.011	.014
06-14-2011	1600	--	--	--	--	.18	.004	.009	.008	.022
06-15-2011	2010	--	--	--	--	.32	.006	.015	.010	.025
06-15-2011	2015	--	--	--	--	.62	.004	.015	.011	.027
06-17-2011	0835	--	--	--	--	.11	.006	.015	.009	.026
06-21-2011	1905	--	--	--	--	.84	<.003	.012	.016	.019
06-23-2011	1810	--	--	--	--	.61	<.003	.011	.014	.016
06-24-2011	0810	--	--	--	--	.17	.004	.012	.012	.013
06-28-2011	1530	--	--	--	--	.50	.005	.011	.010	.012
07-06-2011	1205	--	--	--	--	.17	<.003	.003	.006	.024
07-06-2011	1705	--	--	--	--	.39	.003	.009	.010	.018
07-18-2011	1025	--	--	--	--	.10	.004	.004	.008	.018
07-27-2011	1555	--	--	--	--	.08	X	.004	.009	.021
08-11-2011	1605	--	--	--	--	.06	<.003	.006	.011	.018
09-09-2011	1715	612	8.5	97	--	.06	<.003	.005	.012	.020

## 10336698 Third Creek near Crystal Bay, NV—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; X, Result failed quality assurance review]

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	1120	.155	81	37	.54
10-05-2010	1650	.051	--	12	.14
10-06-2010	1305	.032	--	3	.03
10-24-2010	1610	.179	59	75	1.7
11-04-2010	1215	.026	--	2	.02
12-07-2010	1305	.021	--	2	.02
01-06-2011	1410	.018	--	2	.02
02-22-2011	1330	.037	--	9	E .12
03-08-2011	1530	.019	--	2	.02
03-16-2011	1415	.028	--	3	.03
04-08-2011	1620	.034	--	4	.06
04-18-2011	1930	.047	--	8	.24
05-09-2011	1705	.027	--	7	.25
05-13-2011	1815	.069	35	61	4.3
05-13-2011	1820	.081	--	--	--
05-13-2011	1825	.078	--	--	--
05-23-2011	1820	.028	--	8	.41
06-03-2011	1500	.026	--	3	.07
06-05-2011	1155	.036	--	7	.23
06-06-2011	1045	.060	--	13	.77
06-10-2011	1655	.072	--	34	2.6
06-14-2011	1600	.191	45	86	9.5
06-15-2011	2010	.204	E 43	E 157	E 20
06-15-2011	2015	.160	--	--	--
06-17-2011	0835	.056	--	15	1.5
06-21-2011	1905	.375	40	287	51
06-23-2011	1810	.287	33	208	43
06-24-2011	0810	.049	26	59	7.6
06-28-2011	1530	.254	34	273	49
07-06-2011	1205	.130	15	35	4.2
07-06-2011	1705	.165	41	117	19
07-18-2011	1025	.027	--	6	.41
07-27-2011	1555	.033	--	5	.15
08-11-2011	1605	.023	--	3	.04
09-09-2011	1715	.023	--	2	.02