



Water-Data Report 2011

10308789 Leviathan Creek above Aspen Creek, near Markleeville, CA

Carson River Basin

LOCATION.--Lat 38°43'01", long 119°39'33" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.15, T.10 N., R.21 E., Alpine County, CA, Hydrologic Unit 16050201, on right bank, 3.2 mi north of State Highway 89, and 6.5 mi east of Markleeville.

DRAINAGE AREA.--7.07 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,700 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except those below 0.5 ft³/s, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68 ft³/s, Dec. 31, 2005, gage height, 5.40 ft, maximum gage height, 5.44 ft, Apr. 17, 2011, due to changes in the control; no flow on some days in most years.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 16	0700	20	5.24
Apr 2	1730	28	5.36
Apr 17	1645	*34	*5.44
May 5	1715	30	5.39

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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	0.08	0.12	0.23	0.39	0.52	0.42	14	12	4.8	1.5	0.88	0.22
2	0.08	0.24	0.27	0.38	e0.43	0.52	18	13	4.7	1.4	0.78	0.22
3	0.08	0.23	0.30	0.37	e0.42	0.57	13	16	4.4	1.3	0.75	0.22
4	0.28	0.19	0.30	0.36	0.44	0.53	12	16	4.5	1.2	0.71	0.21
5	1.0	0.10	0.30	0.35	0.45	0.65	16	18	5.2	1.2	0.73	0.20
6	0.24	0.07	0.37	0.34	0.45	0.78	15	19	8.2	1.2	0.75	0.19
7	0.17	0.11	0.30	0.35	0.48	0.79	11	19	5.7	1.1	0.71	0.12
8	0.14	0.15	0.31	0.35	0.48	0.86	8.6	17	5.0	1.0	0.52	0.21
9	0.05	0.17	0.49	0.34	e0.43	1.2	7.7	14	4.5	1.00	0.72	0.21
10	0.05	0.31	0.80	0.32	e0.41	1.9	6.4	13	4.2	0.95	0.72	0.20
11	0.08	0.20	0.73	0.32	e0.40	2.9	7.0	11	4.0	0.91	0.67	0.23
12	0.14	0.15	0.48	0.33	0.42	2.9	7.8	11	3.8	0.87	0.67	0.29
13	0.09	0.16	0.38	0.34	0.41	2.6	7.2	12	3.6	0.84	0.68	0.28
14	0.15	0.17	0.50	0.36	0.44	4.0	6.9	11	3.3	0.83	0.65	0.23
15	0.12	0.18	0.43	0.39	0.43	6.3	9.2	11	3.1	0.86	0.62	0.23
16	0.05	0.17	0.35	0.61	e0.52	14	14	10	3.0	0.85	0.40	0.21
17	0.05	0.16	0.34	0.99	e0.51	6.3	19	8.7	2.9	0.81	0.50	0.22
18	0.12	0.16	0.91	0.87	0.49	4.9	21	8.7	2.7	0.78	0.58	0.21
19	0.18	0.15	2.1	0.71	0.51	4.3	22	8.6	2.6	0.83	0.63	0.20
20	0.17	0.14	1.1	0.56	0.50	3.7	21	7.3	2.6	0.93	0.58	0.20
21	0.17	0.29	0.69	0.53	0.42	3.0	18	7.3	2.3	1.0	0.57	0.19
22	0.09	0.14	0.56	0.54	0.41	2.5	15	7.0	2.2	1.0	0.57	0.13
23	0.06	0.18	0.49	0.51	0.42	2.3	13	7.0	2.0	0.96	0.53	0.19
24	0.58	0.16	0.46	0.49	0.42	e2.1	12	6.3	1.9	0.91	0.58	0.23
25	0.26	0.17	0.46	0.49	0.43	e2.9	14	6.3	1.8	0.92	0.49	0.25
26	0.12	0.20	0.43	0.49	0.42	2.1	13	6.0	1.8	0.91	0.38	0.22
27	0.17	0.22	0.41	0.50	0.42	2.1	14	5.8	1.7	0.87	0.30	0.20
28	0.18	0.20	0.45	0.53	0.43	2.9	16	5.8	1.6	0.79	0.24	0.18
29	0.17	0.18	0.48	0.54	---	4.5	13	6.6	2.5	1.0	0.21	0.21
30	0.10	0.21	e0.41	0.51	---	5.7	12	5.5	1.7	1.1	0.15	0.32
31	0.06	---	e0.40	0.48	---	9.2	---	5.6	---	0.92	0.21	---
Total	5.28	5.28	16.23	14.64	12.51	99.42	396.8	325.5	102.3	30.74	17.48	6.42
Mean	0.17	0.18	0.52	0.47	0.45	3.21	13.2	10.5	3.41	0.99	0.56	0.21
Max	1.0	0.31	2.1	0.99	0.52	14	22	19	8.2	1.5	0.88	0.32
Min	0.05	0.07	0.23	0.32	0.40	0.42	6.4	5.5	1.6	0.78	0.15	0.12
Ac-ft	10	10	32	29	25	197	787	646	203	61	35	13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.16	0.21	0.33	0.35	0.47	1.40	3.98	4.07	0.91	0.31	0.19	0.15
Max	0.34	0.43	1.41	1.11	1.37	3.21	13.2	12.1	3.41	0.99	0.56	0.46
(WY)	(2000)	(2007)	(2006)	(2006)	(2006)	(2011)	(2011)	(2006)	(2011)	(2011)	(2011)	(1999)
Min	0.08	0.10	0.12	0.16	0.18	0.60	0.35	0.29	0.10	0.04	0.04	0.02
(WY)	(2009)	(2009)	(2008)	(2001)	(2008)	(2007)	(2007)	(2007)	(2007)	(2009)	(2001)	(2007)

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	Calendar Year 2010	Water Year 2011	Water Years 1999 - 2011	
Annual total	430.63	1,032.60		
Annual mean	1.18	2.83	0.97	
Highest annual mean			2.83	2011
Lowest annual mean			0.26	2007
Highest daily mean	11	Apr 26	22	Apr 19
Lowest daily mean	0.05	Oct 9	0.05	Oct 9
Annual seven-day minimum	0.08	Sep 27	0.10	Oct 9
Maximum peak flow			34	Apr 17
Maximum peak stage			5.44	Apr 17
Annual runoff (ac-ft)	854	2,050	705	
10 percent exceeds	4.1	11	2.0	
50 percent exceeds	0.34	0.56	0.25	
90 percent exceeds	0.10	0.17	0.06	

