

10287281 Rush Creek Controlled Release below Gem Lake, near June Lake, CA

(Formerly published as Rush Creek below Gem Lake, near June Lake)

Mono Lake Basin

LOCATION.--Lat 37°45'05", long 119°08'26" referenced to North American Datum of 1927, Mono County, CA, Hydrologic Unit 18090101, unsurveyed, in Inyo National Forest, in valve house, 100 ft downstream from left abutment of dam on Rush Creek, and 4.0 mi southwest of town of June Lake.

DRAINAGE AREA.--22.0 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1999 to current year. Prior to October 2006, published as Rush Creek below Gem Lake, near June Lake. Unpublished records prior to October 1999 available in files of Southern California Edison Co.

GAGE.--Acoustic-velocity meter. Elevation of gage is 8,979 ft above NGVD of 1929, from topographic map.

COOPERATION.--Records collected by Southern California Edison Co., under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 1389.

REMARKS.--Spill bypasses gage. Flow regulated by Gem Lake (station 10287280) 100 ft upstream. In addition to the release pipe monitored by the AVM gage, there is a second "bypass" release pipe at a lower elevation; flows from this bypass pipe are not recorded. The lower elevation bypass pipe was opened May 11 to drain Gem Lake for maintenance work and to maintain minimum flows. Lake elevation dropped below the AVM release pipe on May 24. Flows from May 11 to May 23 were recorded by AVM gage as greater than 1.0 ft³/s, but there was also additional, unrecorded flow to Rush Creek through the bypass pipe. For May 24 to Sept. 30 all flow was through the lower elevation bypass pipe. Bypass flow releases to Rush Creek were checked by observations and with current measurements made May 17, June 13, June 26, July 11, Sept. 19, and Oct. 23, 2007. All measurements exceeded 1.5 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7.1 ft³/s, June 16-22, 2003, July 16, 2005; no flow for several days in April 2000.

10287281 Rush Creek Controlled Release below Gem Lake, near June Lake, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.3	1.3	1.2	1.4	1.4	1.4	1.4	1.5	---	---	---	---
2	1.3	1.2	1.2	1.4	1.4	1.4	1.4	1.5	---	---	---	---
3	4.8	1.2	1.2	1.4	1.4	1.4	1.4	1.5	---	---	---	---
4	5.0	1.2	1.2	1.4	1.4	1.4	1.4	1.5	---	---	---	---
5	5.0	1.2	1.3	1.4	1.4	1.4	1.5	1.4	---	---	---	---
6	5.0	1.2	1.2	1.4	1.4	1.4	1.5	1.4	---	---	---	---
7	5.0	1.2	1.2	1.4	1.4	1.4	1.5	1.4	---	---	---	---
8	4.9	1.2	1.2	1.5	1.4	1.4	1.5	1.4	---	---	---	---
9	4.9	1.2	1.2	1.4	1.4	1.4	1.5	1.5	---	---	---	---
10	4.9	1.3	1.2	1.4	1.4	1.4	1.5	1.5	---	---	---	---
11	4.7	1.3	1.2	1.5	1.4	1.4	1.4	---	---	---	---	---
12	3.3	1.3	1.3	1.4	1.4	1.4	1.4	---	---	---	---	---
13	3.3	1.2	1.2	1.4	1.4	1.4	1.4	---	---	---	---	---
14	3.2	1.2	1.3	1.4	1.4	1.4	1.4	---	---	---	---	---
15	3.1	1.2	1.5	1.5	1.4	1.4	1.4	---	---	---	---	---
16	1.2	1.2	1.5	1.4	1.4	1.4	1.4	---	---	---	---	---
17	1.2	1.2	1.5	1.4	1.4	1.4	1.4	---	---	---	---	---
18	1.2	1.2	1.4	1.4	1.4	1.4	1.4	---	---	---	---	---
19	1.2	1.2	1.4	1.4	1.4	1.4	1.3	---	---	---	---	---
20	1.3	1.2	1.4	1.4	1.4	1.4	1.2	---	---	---	---	---
21	1.3	1.3	1.4	1.4	1.4	1.4	1.1	---	---	---	---	---
22	1.3	1.3	1.4	1.4	1.4	1.4	1.1	---	---	---	---	---
23	1.3	1.2	1.5	1.4	1.4	1.4	1.0	---	---	---	---	---
24	1.3	1.2	1.4	1.4	1.4	1.4	1.1	---	---	---	---	---
25	1.3	1.2	1.4	1.5	1.4	1.4	1.1	---	---	---	---	---
26	1.2	1.2	1.4	1.4	1.4	1.4	1.2	---	---	---	---	---
27	1.2	1.2	1.4	1.4	1.4	1.4	1.3	---	---	---	---	---
28	1.2	1.2	1.4	1.4	1.4	1.4	1.4	---	---	---	---	---
29	1.2	1.3	1.4	1.4	---	1.4	1.5	---	---	---	---	---
30	1.2	1.2	1.4	1.4	---	1.4	1.5	---	---	---	---	---
31	1.2	---	1.4	1.4	---	1.4	---	---	---	---	---	---
Total	79.5	36.7	41.3	43.8	39.2	43.4	40.6	---	---	---	---	---
Mean	2.56	1.22	1.33	1.41	1.40	1.40	1.35	---	---	---	---	---
Max	5.0	1.3	1.5	1.5	1.4	1.4	1.5	---	---	---	---	---
Min	1.2	1.2	1.2	1.4	1.4	1.4	1.0	---	---	---	---	---
Ac-ft	158	73	82	87	78	86	81	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1.63	1.24	1.25	1.26	1.32	1.34	1.31	2.17	2.91	2.24	1.55	2.04
Max	2.57	1.35	1.33	1.41	1.68	1.95	2.14	3.83	4.44	5.58	2.95	6.62
(WY)	(2006)	(2005)	(2007)	(2007)	(2004)	(2004)	(2004)	(2006)	(2005)	(2006)	(2005)	(2005)
Min	1.20	1.15	1.20	1.20	1.20	1.19	0.43	1.27	1.24	1.20	1.20	1.20
(WY)	(2001)	(2000)	(2001)	(2001)	(2001)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)

10287281 Rush Creek Controlled Release below Gem Lake, near June Lake, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Years 2000 - 2007	
Annual total	822.4			
Annual mean	2.25		1.76	
Highest annual mean			2.42	2005
Lowest annual mean			1.31	2001
Highest daily mean	7.0	Aug 1	7.1	Jun 16, 2003
Lowest daily mean	1.2	Oct 16	0.00	Apr 5, 2000
Annual seven-day minimum	1.2	Nov 2	0.00	Apr 5, 2000
Maximum peak flow			7.1	Jun 17, 2003
Maximum peak stage			7.13	Jun 17, 2003
Annual runoff (ac-ft)	1,630		1,270	
10 percent exceeds	4.7		3.5	
50 percent exceeds	1.3		1.3	
90 percent exceeds	1.2		1.2	

