10287289 RUSH CREEK FLUME BELOW AGNEW LAKE, NEAR JUNE LAKE, CA

Mono Lake Basin

LOCATION.--Lat 37°45′33″, long 119°07′47″ referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.20, T.2 S., R.26 E., Mono County, Hydrologic Unit 18090101, in Inyo National Forest, on left bank, 600 ft downstream from Agnew Lake Dam, and 3.4 mi southwest of town of June Lake.

DRAINAGE AREA.--23.3 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1990 to current year. If records for Rush Creek Powerplant Tailrace (station 10287300) are combined with this record, a record equivalent to that published October 1951 to September 1990 as "Rush Creek below Agnew Lake" (station 10287290) can be obtained. Monthly and yearly mean discharges prior to October 1969, published in WSP 2127.

GAGE.--Water-stage recorder and Parshall flume. A 4-ft Cipolletti weir is set in the Parshall flume at times. Elevation of gage is 8,440 ft above NGVD of 1929, from topographic map.

REMARKS.--Flow regulated for power development by Waugh, Gem, and Agnew Lakes (stations 10287260, 10287280, and 10287285, respectively). Most of the water is diverted at either Gem or Agnew Lakes to Rush Creek Powerplant Tailrace via Rush Creek Powerplant. Undocumented release to Rush Creek bypassed this gage Oct. 8 to May 13. Diversion to Rush Creek Powerplant Tailrace (station 10287300) provided by Southern California Edison Company.

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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 441 ft^3/s, July 30, 1995, gage height, 4.90 ft; no flow for many days in some years.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.0	5.2	e4.3	4.3	2.7	3.2	3.0	3.3	5.5	198	8.4	7.8
2	2.0	5.1	e4.2	4.3	2.8	2.6	3.0	3.4	22	200	4.6	7.1
3	2.0	4.5	e4.2	4.0	2.6	2.7	2.7	2.9	24	199	2.3	6.8
4	2.0	4.5	e4.2	4.1	2.6	2.7	3.0	2.5	23	199	2.5	6.4
5	2.0	4.5	e4.1	4.0	2.6	2.7	3.1	2.6	22	201	2.9	6.6
6	2.2	4.8	e4.1	4.0	2.5	2.6	3.1	2.4	21	173	2.9	7.1
7	2.1	4.9	e4.1	3.4	2.5	2.5	2.9	12	83	135	3.4	7.2
8	3.1	5.1	e4.1	4.1	2.6	2.5	3.0	2.5	189	137	3.8	7.5
9	4.6	5.1	e4.1	4.5	2.5	2.6	3.0	2.7	183	135	3.5	7.5
10	2.0	4.9	4.3	4.4	2.6	2.7	3.2	2.3	184	134	3.1	7.2
11	2.0	4.9	4.3	3.7	2.7	2.9	3.0	2.6	187	134	2.7	5.0
12	2.0	5.0	4.2	4.5	2.7	3.0	2.9	2.6	188	166	3.1	7.2
13	2.0	4.9	4.2	e4.5	2.5	3.1	2.8	2.8	191	155	2.1	7.4
14	2.0	4.9	4.3	e4.5	2.5	3.1	3.2	2.8	195	43	2.4	7.7
15	2.0	4.9	4.3	4.4	2.6	3.1	3.2	2.9	199	143	4.2	e7.5
16	3.4	e4.9	4.3	4.2	3.0	3.0	3.1	3.3	196	178	3.5	e7.5
17	3.9	e4.8	4.3	4.1	2.9	2.9	3.0	2.9	189	186	3.6	e7.5
18	4.0	e4.8	4.3	4.0	2.9	3.0	3.1	2.9	187	184	3.5	e7.5
19	4.9	e4.8	4.2	4.0	2.7	3.0	3.2	2.9	185	166	2.3	e7.5
20	3.1	e4.7	4.2	3.9	2.9	3.0	3.2	2.8	187	133	2.5	e7.5
21	2.2	e4.7	4.3	3.9	3.1	3.0	3.2	3.2	189	121	2.6	e7.5
22	6.5	e4.6	4.3	3.9	3.1	3.4	3.2	3.2	191	124	3.4	e7.5
23	9.3	e4.6	4.3	3.4	3.1	3.6	3.2	3.2	192	119	7.5	e7.5
24	9.3	e4.6	4.2	2.9	3.0	e3.6	3.1	3.3	192	92	7.4	e7.5
25	7.0	e4.5	4.0	2.8	3.0	e3.6	3.2	3.4	191	66	7.1	e7.5
26	5.7	e4.5	3.9	3.0	3.0	3.7	3.2	4.2	191	43	6.7	e7.5
27	5.4	e4.4	4.2	2.6	2.7	2.8	3.2	4.9	190	29	6.8	e7.5
28	5.3	e4.4	4.2	2.8	2.8	3.4	3.2	4.8	191	22	7.6	e7.5
29	5.4	e4.3	4.1	3.3	---	4.1	3.3	4.8	193	14	9.6	e7.5
30	5.3	e4.3	4.1	e3.3	---	3.5	3.3	5.1	195	9.9	3.4	e7.5
31	5.2	---	4.3	3.2	---	3.1	---	5.2	---	9.0	6.9	---
Total	119.9	142.1	130.2	118.0	77.2	94.7	92.8	110.4	4,575.5	3,847.9	136.3	218.5
Mean	3.87	4.74	4.20	3.81	2.76	3.05	3.09	3.56	153	124	4.40	7.28
Max	9.3	5.2	4.3	4.5	3.1	4.1	3.3	12	199	201	9.6	7.8
Min	2.0	4.3	3.9	2.6	2.5	2.5	2.7	2.3	5.5	9.0	2.1	5.0
Ac-ft	238	282	258	234	153	188	184	219	9,080	7,630	270	433
Diversion, in acre-feet, to Rush Creek Powerplant Tailrace												
	2,750	2,020	2,130	2,170	3,140	4,640	1,740	4,690	6,110	6,230	3,580	3,150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.07	2.22	1.34	1.48	1.20	1.32	1.65	1.82	28.6	41.2	7.88	1.70
Max	3.87	4.89	4.20	4.72	2.76	3.05	3.09	3.89	153	218	89.8	7.28
(WY)	(2005)	(1999)	(2005)	(1997)	(2005)	(2005)	(2005)	(1998)	(2005)	(1995)	(1995)	(2005)
Min	0.09	0.39	0.23	0.27	0.19	0.13	0.04	0.05	0.05	0.03	0.00	0.02
(WY)	(1995)	(1994)	(1991)	(1991)	(1991)	(1995)	(1994)	(1994)	(1992)	(1994)	(1994)	(1994)

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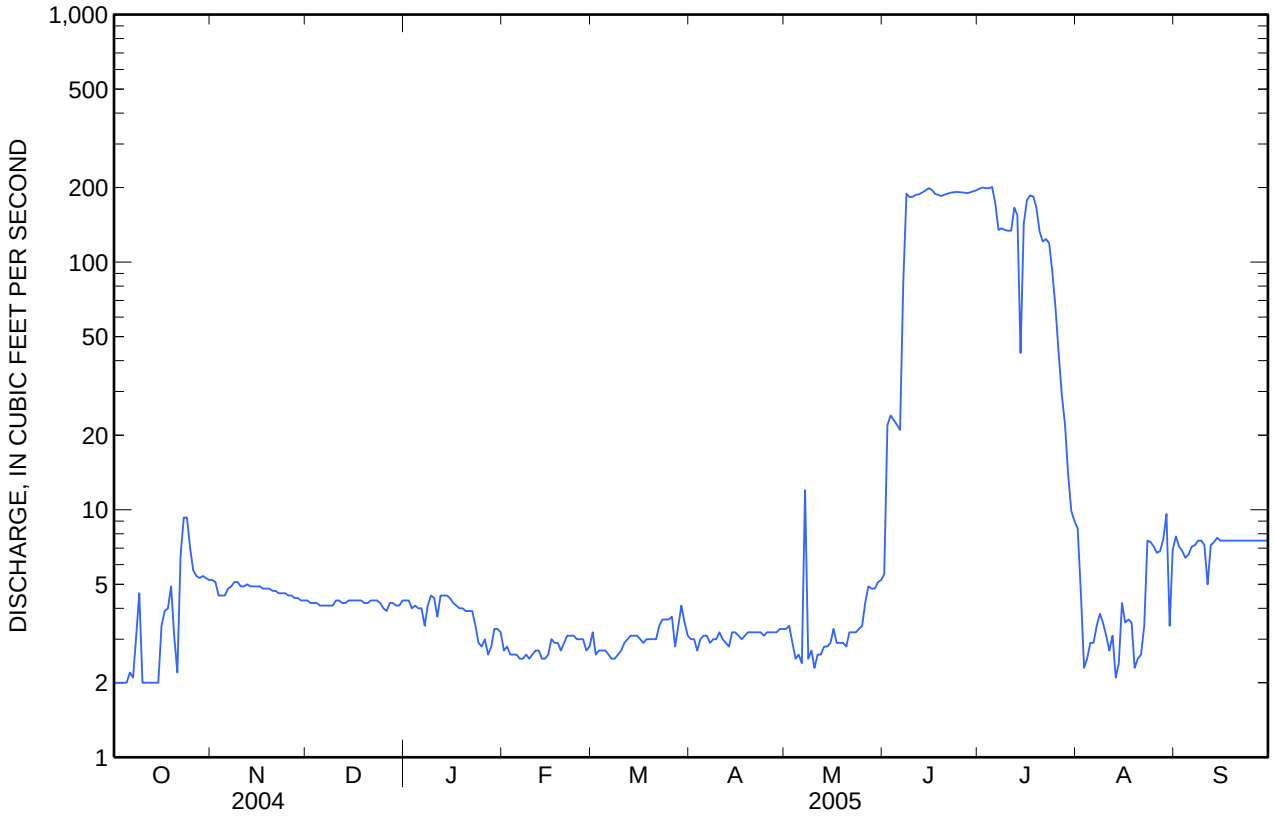
SUMMARY STATISTICS

	Calendar Year 2004	Water Year 2005		Water Years 1991 - 2005	
Annual total		9,663.5			
Annual mean		26.5		8.37	
Highest annual mean				33.6	1995
Lowest annual mean				0.41	1994
Highest daily mean		201	Jul 5	397	Jul 30, 1995
Lowest daily mean		2.0	Oct 1	0.00	Oct 27, 1990
Annual seven-day minimum		2.0	Oct 1	0.00	Mar 12, 1991
Maximum peak flow				441	Jul 30, 1995
Maximum peak stage				4.90	Jul 30, 1995
Annual runoff (ac-ft)		19,170		6,070	
Annual diversion (ac-ft) a	23,990	42,340			
10 percent exceeds		139		5.3	
50 percent exceeds		4.1		1.5	
90 percent exceeds		2.6		0.10	

a Diversion, in acre-feet, to Rush Creek Powerplant Tailrace.