

10287289 Rush Creek at Flume below Agnew Lake, near June Lake, CA

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

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, CA, 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 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1990 to current year. Prior to October 2006, published as Rush Creek Flume below Agnew Lake near June Lake. 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 (Actual Flow)" (station 10287290) can be obtained. Daily discharges for October 1988 to September 1990 were combined with 10287300 and published in 10287290, but are also available separately in files of U.S. Geological Survey. Monthly and yearly mean discharges prior to October 1969, published in WSP 2127. "Actual flow" is the total flow of Rush Creek below Agnew Lake and Rush Creek Powerplant tailrace. "Natural flow" (station 10287291) is the sum of "actual flow", change in contents, and evaporation for Waugh, Gem, and Agnew Lakes.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 8,440 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. Diversion to Rush Creek Powerplant Tailrace provided by Southern California Edison Company.

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 (station 10287300) via Rush Creek Powerplant. Record includes spill from Agnew Lake. Undocumented release to Rush Creek bypassed this gage Oct. 21 to Apr. 3. This flow is not included in the record.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 441 ft³/s, July 30, 1995, gage height, 4.90 ft; no flow for many days in some years.

CORRECTIONS.--There was no undocumented release to Rush Creek during water year 2005. Undocumented release to Rush Creek during water year 2006 occurred Oct. 20 to July 6. The previously published dates are incorrect.

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.3	5.7	1.6	e1.6	1.7	1.8	1.9	5.7	5.9	2.8	1.8	2.8
2	2.3	3.1	1.6	e1.6	1.7	1.7	1.9	4.8	6.7	2.8	2.2	3.0
3	2.3	2.4	1.6	e1.6	1.7	1.7	2.5	4.5	5.4	2.8	3.6	3.9
4	2.3	2.3	1.5	e1.6	1.7	1.7	3.1	4.5	4.7	2.7	3.6	3.3
5	2.3	2.1	1.4	e1.6	1.7	1.7	3.2	3.8	10	2.7	4.4	1.5
6	2.4	2.1	1.3	e1.6	1.7	1.7	3.3	3.4	3.1	2.8	3.1	1.6
7	2.4	2.1	1.5	e1.6	1.7	1.6	3.6	3.4	3.0	2.7	1.5	2.7
8	2.4	1.9	1.5	e1.6	1.6	1.7	5.5	3.5	3.0	2.7	1.7	2.0
9	3.3	1.8	1.4	e1.6	1.7	1.7	5.7	3.8	3.0	2.7	1.9	1.9
10	6.2	1.8	1.7	1.6	1.9	1.7	4.3	4.4	4.6	2.7	1.9	2.4
11	6.6	0.67	1.7	1.5	1.9	1.7	3.7	3.6	3.3	2.2	2.6	3.0
12	85	0.80	1.6	1.7	1.9	1.7	3.0	2.0	3.2	1.4	2.9	3.2
13	178	0.49	1.6	1.6	1.8	1.8	3.0	2.1	3.5	1.5	2.0	4.2
14	174	0.20	e1.6	1.6	1.8	1.8	2.8	2.3	4.2	1.5	1.8	2.8
15	171	0.44	e1.6	1.7	1.7	1.9	2.8	2.4	4.0	1.5	1.9	2.0
16	91	0.76	e1.6	1.7	1.7	1.9	2.9	2.5	4.4	2.0	2.0	1.7
17	1.9	1.1	e1.6	1.7	1.7	1.9	2.8	2.6	3.0	1.7	2.3	1.4
18	1.7	1.3	e1.6	1.7	1.8	1.9	2.7	2.8	3.5	2.1	2.3	2.7
19	1.5	1.3	e1.6	1.7	1.8	1.9	2.6	2.9	4.0	1.6	2.1	6.8
20	1.5	1.5	e1.6	1.7	1.7	1.9	2.7	3.0	3.4	1.9	1.8	1.4
21	1.3	1.2	e1.6	1.7	1.4	1.9	2.5	31	2.9	1.7	1.8	1.8
22	1.1	1.1	e1.6	1.7	1.7	1.9	2.4	38	3.2	1.6	2.1	2.4
23	1.1	e1.5	e1.6	1.7	1.8	1.8	2.3	34	4.4	1.6	1.6	2.5
24	1.0	1.4	e1.6	1.7	1.7	1.9	2.2	28	3.1	1.7	2.8	2.0
25	1.1	1.5	e1.6	1.7	2.0	1.9	2.2	20	2.8	2.3	3.4	2.1
26	15	1.5	e1.6	1.7	2.5	1.9	2.3	14	3.0	2.5	2.7	2.1
27	29	e1.4	e1.6	1.7	2.5	2.0	2.8	9.6	2.9	3.0	1.8	2.6
28	28	e1.3	e1.6	1.8	1.9	1.8	3.3	6.4	2.9	2.6	2.3	5.1
29	27	1.3	e1.6	1.8	---	1.9	4.3	7.2	2.8	2.9	3.0	2.7
30	25	1.5	e1.6	1.7	---	1.9	5.0	6.9	3.0	2.7	4.0	4.1
31	18	---	e1.6	1.7	---	1.9	---	5.9	---	2.0	3.4	---
Total	888.0	47.56	48.8	51.5	50.4	56.2	93.3	269.0	116.9	69.4	76.3	81.7
Mean	28.6	1.59	1.57	1.66	1.80	1.81	3.11	8.68	3.90	2.24	2.46	2.72
Max	178	5.7	1.7	1.8	2.5	2.0	5.7	38	10	3.0	4.4	6.8
Min	1.0	0.20	1.3	1.5	1.4	1.6	1.9	2.0	2.8	1.4	1.5	1.4
Ac-ft	1,760	94	97	102	100	111	185	534	232	138	151	162
Diversion, in acre-feet, to Rush Creek Powerplant Tailrace	5,250	2,570	2,240	1,650	1,710	1,650	2,190	4,860	1,530	732	513	535

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3.88	2.20	1.45	1.57	1.34	1.45	1.88	2.41	37.6	44.1	7.34	1.80
Max	28.6	4.89	4.20	4.72	2.76	3.05	3.66	8.68	206	218	89.8	7.28
(WY)	(2007)	(1999)	(2005)	(1997)	(2005)	(2005)	(2006)	(2007)	(2006)	(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 2006		Water Year 2007		Water Years 1991 - 2007	
Annual total	11,860.56		1,849.06			
Annual mean	32.5		5.07		9.63	
Highest annual mean					33.6	1995
Lowest annual mean					0.41	1994
Highest daily mean	224	Jul 1	178	Oct 13	397	Jul 30, 1995
Lowest daily mean	0.20	Nov 14	0.20	Nov 14	0.00	Oct 27, 1990
Annual seven-day minimum	0.64	Nov 11	0.64	Nov 11	0.00	Mar 12, 1991
Maximum peak flow			183 Oct 12		441 Jul 30, 1995	
Maximum peak stage			2.96 Oct 12		4.90 Jul 30, 1995	
Annual runoff (ac-ft)	23,530		3,670		6,980	
Annual diversion (ac-ft)^a	46,280		25,440			
10 percent exceeds	201		4.7		6.2	
50 percent exceeds	2.7		2.0		1.7	
90 percent exceeds	1.6		1.5		0.12	

^a Diversion, in acre-feet, to Rush Creek Powerplant Tailrace (station 10287300).

