11231550 Mono Creek Conduit near Mono Hot Springs, CA

San Joaquin River Basin

LOCATION.--Lat 37°21′36″, long 118°59′51″ referenced to North American Datum of 1927, Fresno County, CA, Hydrologic Unit 18040006, unsurveyed, in Sierra National Forest, on left bank, 40 ft upstream from diversion dam, 1.0 mi southwest of Lake Thomas A. Edison, and 2.5 mi northeast of Mono Hot Springs.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1986 to current year.

GAGE.--Discharge computed as difference between flow at Mono Creek below Lake Thomas A. Edison (station 11231500) and Mono Creek below diversion dam (station 11231600). Datum of conduit invert is 7,338 ft above NGVD of 1929 (levels by Southern California Edison Co.).

COOPERATION.--Records were collected by Southern California Edison Co., under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 67.

REMARKS.--Conduit diverts at diversion dam on Mono Creek to Ward Tunnel and Huntington Lake (station 11236000) via Portal Powerplant (station 11235500) for further power development in Big Creek powerplants. See schematic diagram of upper San Joaquin River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 500 ft^3/s, Jan. 2, 2006; minimum daily, -18 ft^3/s, June 11, 1993 (reverse flow from Bear Creek Conduit).

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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	e2.0	e1.0	e2.0	431	e88	64	248	248	e351	e142	399	427
2	e2.0	e1.0	e2.0	431	e88	64	248	248	e373	e142	399	427
3	e2.0	e2.0	e2.0	431	e88	64	e250	247	e382	e142	399	427
4	e2.0	e2.0	e2.0	431	e57	64	e250	247	e369	e142	395	423
5	e2.0	e2.0	e2.0	431	e60	64	248	247	368	e142	395	329
6	e2.0	e2.0	e2.1	430	e61	64	248	247	369	e142	395	263
7	e2.0	e2.0	3.0	426	e61	64	248	247	e240	e142	393	263
8	e2.0	e2.0	3.0	388	e61	64	248	245	e140	e142	390	263
9	e2.0	e2.0	3.0	346	e86	64	248	243	e140	e142	390	263
10	e2.0	e2.0	3.0	421	97	64	248	243	e140	e142	e390	261
11	e58	e2.0	3.0	421	97	64	248	243	e141	e143	e390	259
12	e77	e2.0	11	421	90	64	248	243	e141	e145	e385	259
13	e1.0	e2.0	16	409	64	64	248	243	e140	e145	e385	256
14	e1.0	e2.0	16	e407	64	64	248	245	e140	e145	e384	256
15	e1.0	e2.4	16	e296	64	e64	248	269	e140	e145	e384	256
16	e1.0	e2.0	16	e102	64	e65	248	295	e140	e145	e385	256
17	e1.0	e2.0	16	e97	64	e65	248	299	e140	144	383	255
18	e1.0	e2.0	16	e83	64	e65	248	285	e140	142	381	252
19	e1.0	e2.0	209	e77	64	e65	248	e286	e140	142	379	249
20	e1.0	e2.0	434	e77	64	e65	248	e286	e140	142	355	249
21	e1.0	e2.0	439	e77	64	e65	248	e289	e140	145	305	247
22	e1.0	e2.0	443	e77	64	e159	248	e299	e140	145	303	245
23	e1.0	e2.0	442	e67	64	257	248	e300	141	e145	303	245
24	e1.0	e2.0	440	e46	64	253	248	e295	141	e261	304	245
25	e1.0	e2.0	438	e88	64	e252	247	e281	e141	e383	304	245
26	e1.0	e2.0	435	e88	64	e249	248	e278	e142	e388	304	243
27	e1.0	e2.0	438	e88	64	248	248	e280	e142	e404	304	242
28	e1.0	e2.0	439	e88	64	245	248	e284	e142	e404	300	242
29	e1.0	e2.0	435	e88	---	248	248	e286	e142	e404	e300	242
30	e1.0	e2.0	435	e88	---	248	248	e301	e142	e399	e380	241
31	e1.0	---	434	e88	---	248	---	e332	---	399	431	---
Total	174.0	58.4	5,595.1	7,439	1,958	3,757	7,443	8,381	5,687	6,335	11,294	8,330
Mean	5.61	1.95	180	240	69.9	121	248	270	190	204	364	278
Max	77	2.4	443	431	97	257	250	332	382	404	431	427
Min	1.0	1.0	2.0	46	57	64	247	243	140	142	300	241
Ac-ft	345	116	11,100	14,760	3,880	7,450	14,760	16,620	11,280	12,570	22,400	16,520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	105	121	132	118	101	139	126	75.1	59.6	199	279	212
Max	311	426	434	364	395	464	400	270	203	417	409	440
(WY)	(1998)	(1999)	(2006)	(1999)	(1996)	(1996)	(1996)	(2007)	(1997)	(1989)	(1999)	(1994)
Min	0.81	0.27	0.00	4.08	0.00	8.00	5.47	6.00	6.00	0.00	93.0	11.8
(WY)	(2001)	(2001)	(2005)	(1991)	(1997)	(1990)	(2001)	(2001)	(2001)	(1995)	(1996)	(1989)

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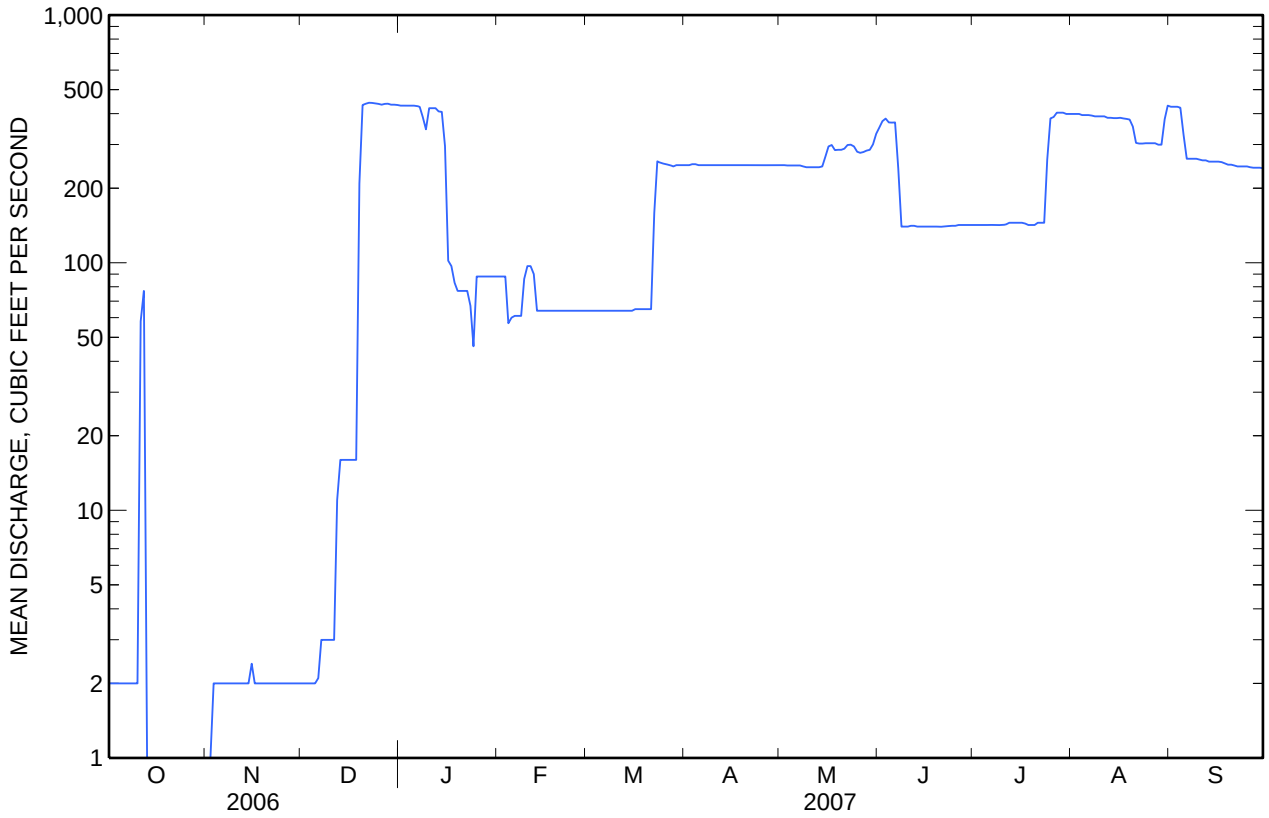
SUMMARY STATISTICS

[e, estimated]

	Calendar Year 2006		Water Year 2007		Water Years 1987 - 2007	
Annual total	56,255.50		66,451.5			
Annual mean	154		182		139	
Highest annual mean					227	1997
Lowest annual mean					50.5	1990
Highest daily mean	500	Jan 2	443	Dec 22	500	Jan 2, 2006
Lowest daily mean	0.50	Sep 15	[e]1.0	Oct 13	[a]-18	Jun 11, 1993
Annual seven-day minimum	0.50	Sep 15	[e]1.0	Oct 13	0.00	Dec 5, 1990
Annual runoff (ac-ft)	111,600		131,800		100,900	
10 percent exceeds	440		399		405	
50 percent exceeds	60		145		69	
90 percent exceeds	1.0		2.0		6.0	

[a] Reverse flow from Bear Creek Conduit.