11416100 Bowman-Spaulding Canal at Jordan Creek Siphon Venturi, near Emigrant Gap, CA

Sacramento River Basin

LOCATION.--Lat 39°20′32″, long 120°38′26″ referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.16, T.17 N., R.12 E., Nevada County, CA, Hydrologic Unit 18020125, at outlet of Jordan Creek Siphon, 0.6 mi downstream from Fuller Lake, and 3.5 mi northeast of Emigrant Gap.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder and Venturi section. Elevation of gage is 5,340 ft above NGVD of 1929, from topographic map.

COOPERATION.--Records, including discharge through Spaulding No. 3 Powerplant (station 11416200), were collected by Pacific Gas and Electric Co., under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 2310.

REMARKS.--Records show water diverted from Bowman Lake (station 11415500) plus numerous small tributaries before it enters Lake Spaulding (station 11414140). Most of the water at this gage flows downstream through Spaulding No. 3 Powerplant. See schematic diagrams of South Yuba River Basin and Bear River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 335 ft^3/s, Dec. 25, 1983, May 16, 2005, Apr. 16, 2006; no flow at times in most years.

11416100 Bowman-Spaulding Canal at Jordan Creek Siphon Venturi, near Emigrant Gap, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	197	89	40	98	97	224	206	191	252	232	274	285
2	198	81	48	92	96	215	201	184	248	252	275	281
3	196	79	29	166	e90	220	198	184	257	286	287	263
4	194	78	25	219	e86	226	199	191	258	300	291	259
5	194	81	68	209	e86	230	203	194	256	304	283	264
6	190	83	70	147	e86	243	202	207	254	305	297	265
7	185	83	95	142	e86	248	197	218	251	304	299	264
8	178	83	84	142	e86	249	184	223	202	298	299	264
9	178	84	74	100	e86	248	174	214	77	295	299	263
10	184	83	68	106	e86	248	175	208	32	293	298	263
11	183	84	65	97	e86	245	183	206	0.00	295	297	256
12	184	84	58	94	e86	247	198	206	0.00	294	299	272
13	182	84	59	92	e86	264	212	197	0.00	293	296	267
14	182	82	31	91	e86	275	219	192	0.00	294	284	263
15	186	81	0.00	83	e86	264	190	207	0.00	292	279	262
16	184	82	47	81	e86	248	179	219	0.00	273	278	262
17	185	82	84	86	e86	241	184	217	0.00	294	277	258
18	184	82	111	86	e86	242	197	218	0.00	301	276	244
19	188	83	94	85	e86	241	206	209	82	301	279	242
20	205	82	92	86	e86	231	191	194	210	296	283	242
21	197	81	93	88	e86	230	192	180	250	294	284	243
22	186	83	93	89	e86	229	189	166	226	295	283	176
23	183	83	94	89	e86	233	177	143	256	295	282	46
24	183	82	98	90	e86	238	137	113	234	295	282	79
25	183	81	95	91	e86	234	139	118	227	295	280	226
26	182	83	98	92	e86	229	153	115	225	297	281	248
27	183	67	90	91	e96	216	173	109	207	298	287	276
28	183	60	95	94	192	208	191	118	224	298	286	275
29	192	55	97	94	227	205	223	178	230	297	293	276
30	184	43	99	95	---	206	210	243	231	295	290	260
31	138	---	100	97	---	205	---	251	---	282	286	---
Total	5,751	2,368	2,294.00	3,312	2,776	7,282	5,682	5,813	4,689.00	9,043	8,884	7,344
Mean	186	78.9	74.0	107	95.7	235	189	188	156	292	287	245
Max	205	89	111	219	227	275	223	251	258	305	299	285
Min	138	43	0.00	81	86	205	137	109	0.00	232	274	46
Ac-ft	11,410	4,700	4,550	6,570	5,510	14,440	11,270	11,530	9,300	17,940	17,620	14,570
Discharge, in acre-feet, through Spaulding No. 3 Powerplant												
	10,660	4,710	4,300	4,610	1,290	13,610	9,400	6,900	8,050	16,020	15,840	12,140

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	198	189	193	194	191	215	227	235	226	213	255	256
Max	306	308	312	313	311	311	322	328	327	316	316	320
(WY)	(1983)	(1984)	(1984)	(1984)	(1995)	(1983)	(2006)	(2003)	(2005)	(2006)	(1993)	(2005)
Min	29.5	0.00	41.9	37.8	21.4	26.3	19.3	33.9	0.00	45.6	40.2	143
(WY)	(1973)	(1965)	(1978)	(1977)	(1991)	(1977)	(1977)	(1965)	(1965)	(1991)	(1988)	(1977)

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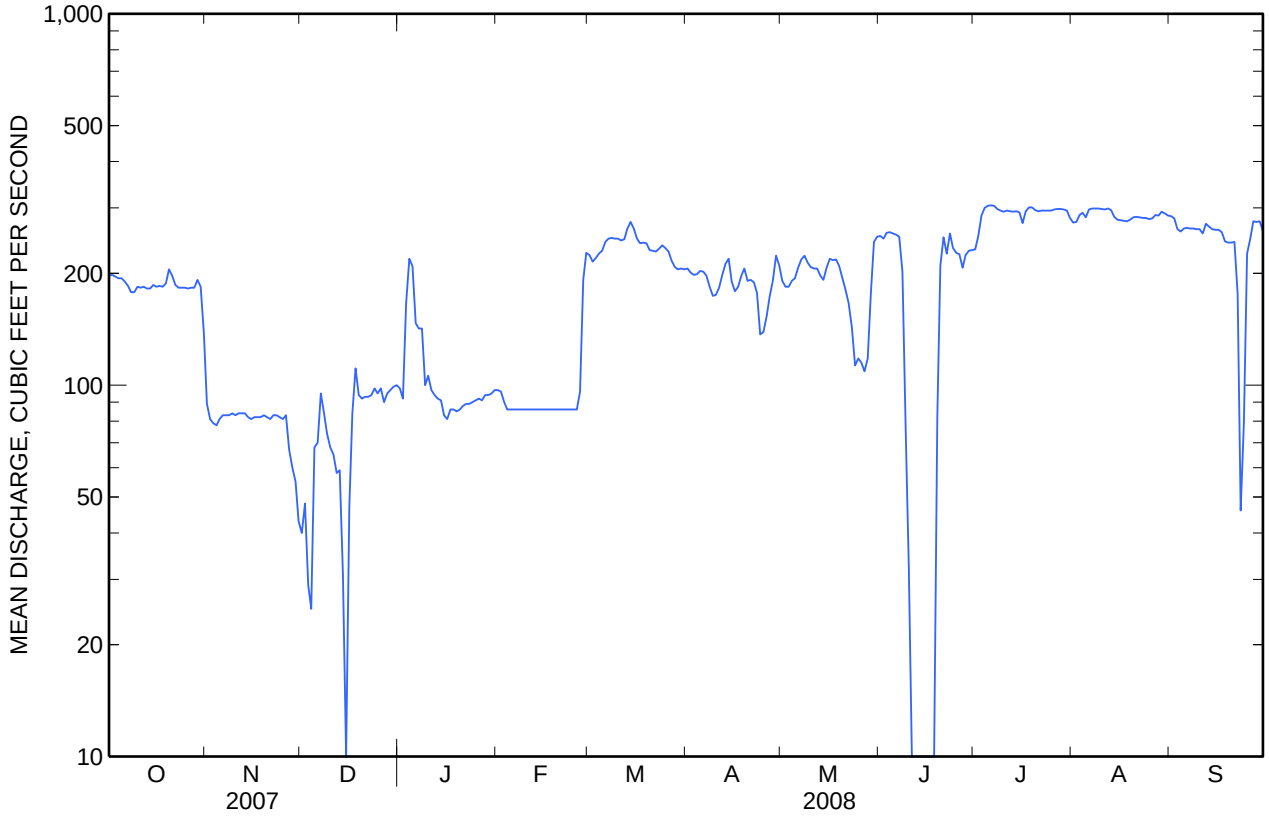
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1965 - 2008	
Annual total	54,078.00		65,238.00			
Annual mean	148		178		216	
Highest annual mean					304	1983
Lowest annual mean					77.9	1977
Highest daily mean	321	Jul 5	305	Jul 6	335	Dec 25, 1983
Lowest daily mean	0.00	Jan 27	0.00	Dec 15	0.00	Oct 29, 1964
Annual seven-day minimum	0.00	Jun 12	0.00	Jun 11	0.00	Oct 29, 1964
Annual runoff (ac-ft)	107,300		129,400		156,500	
Annual diversion (ac-ft) [a]	105,000		107,500			
10 percent exceeds	268		290		307	
50 percent exceeds	111		192		246	
90 percent exceeds	57		81		71	

[a] Diversion, in acre-feet, to Spaulding No. 3 Powerplant (station 11416200).