11351950 PIT RIVER BELOW DIVERSION TO MUCK VALLEY POWERPLANT, NEAR BIEBER, CA

Sacramento River Basin

LOCATION.--Lat 41°00′55″, long 121°09′13″ referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.27, T.37 N., R.7 E., Lassen County, Hydrologic Unit 18020003, on right bank, 1.7 mi upstream from North Gulch, 2.2 mi upstream from Spring Gulch, and 7.4 mi south of Bieber.

DRAINAGE AREA.--2,475 mi^2, excluding Goose Lake Basin.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1994 to current year.

GAGE.--Acoustic-velocity meter measures minimum bypass flow; water-stage recorder and Ogee weir for spillway. Elevation of gage is 4,120 ft above NGVD of 1929, from topographic map.

REMARKS.--Flow at this station has two components which are combined for publication: low-flow release (station 11351946) and flow over Ogee weir (station 11351948). Water is diverted upstream of weir through Pit River Tunnel (station 11351945) to Collett Reservoir (station 11351600), for power generation. During powerplant operation, the minimum release is 50 ft^3/s. See schematic diagram of Pit and McCloud River Basins.

COOPERATION.--Records were provided by Malacha Hydro Limited Partnership, under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory commission project no. 8296.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 16,800 ft^3/s, Jan. 3, 1997; no flow many days during most years.

11351950 PIT RIVER BELOW DIVERSION TO MUCK VALLEY POWERPLANT, NEAR BIEBER, CA—Continued

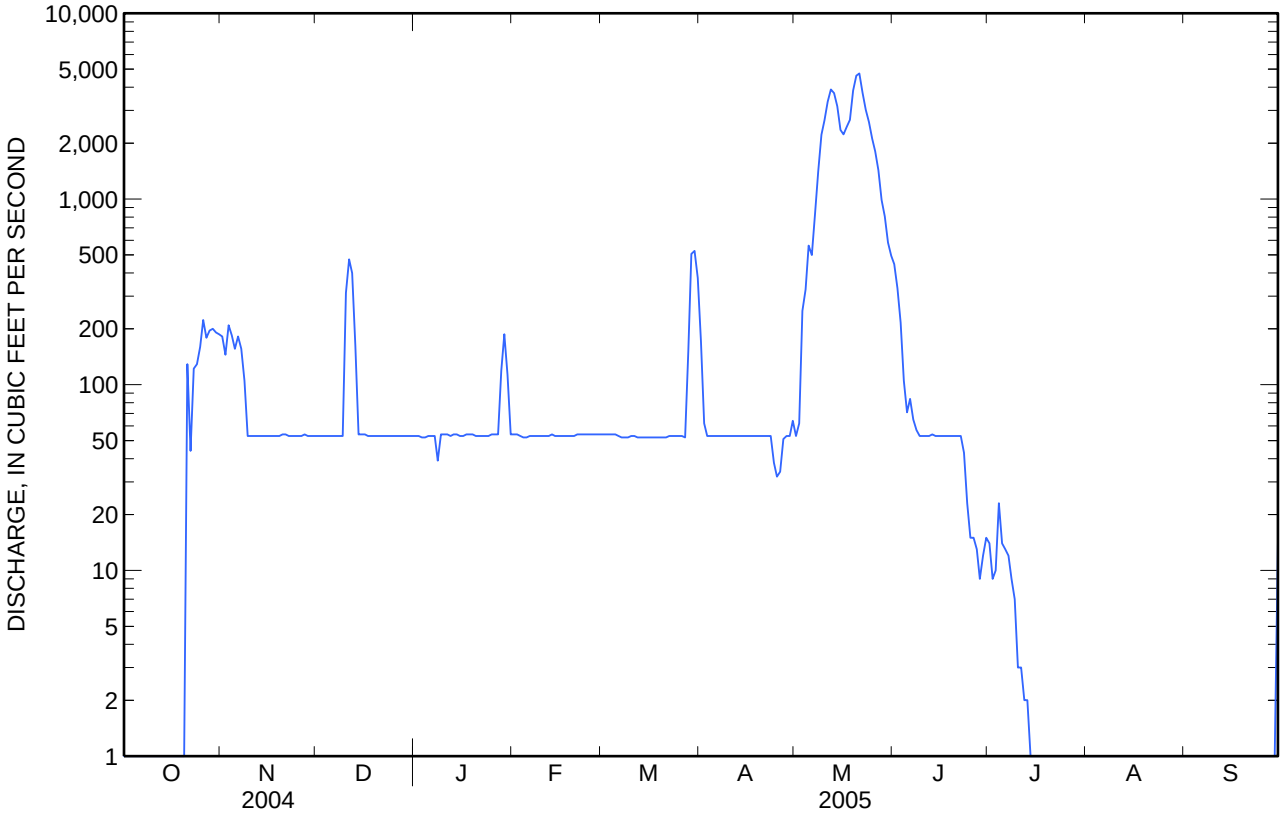
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.0	182	53	53	54	54	171	53	446	14	0.0	0.0
2	0.0	145	53	53	54	54	62	62	331	9.0	0.0	0.0
3	0.0	209	53	52	53	54	53	250	216	10	0.0	0.0
4	0.0	184	53	52	52	54	53	326	105	23	0.0	0.0
5	0.0	156	53	53	52	54	53	562	71	14	0.0	0.0
6	0.0	182	53	53	53	53	53	499	84	13	0.0	0.0
7	0.0	156	53	53	53	52	53	833	65	12	0.0	0.0
8	0.0	105	53	39	53	52	53	1,412	57	9.0	0.0	0.0
9	0.0	53	53	54	53	52	53	2,219	53	7.0	0.0	0.0
10	0.0	53	312	54	53	53	53	2,654	53	3.0	0.0	0.0
11	0.0	53	473	54	53	53	53	3,344	53	3.0	0.0	0.0
12	0.0	53	399	53	53	52	53	3,895	53	2.0	0.0	0.0
13	0.0	53	162	54	54	52	53	3,717	54	2.0	0.0	0.0
14	0.0	53	54	54	53	52	53	3,158	53	1.0	0.0	0.0
15	0.0	53	54	53	53	52	53	2,358	53	1.0	0.0	0.0
16	0.0	53	54	53	53	52	53	2,230	53	0.0	0.0	0.0
17	0.0	53	53	54	53	52	53	2,447	53	0.0	0.0	0.0
18	0.0	53	53	54	53	52	53	2,671	53	0.0	0.0	0.0
19	0.0	53	53	54	53	52	53	3,842	53	0.0	0.0	0.0
20	0.0	54	53	53	53	52	53	4,613	53	0.0	0.0	0.0
21	129	54	53	53	54	52	53	4,746	53	0.0	0.0	0.0
22	44	53	53	53	54	53	53	3,731	53	0.0	0.0	0.0
23	122	53	53	53	54	53	53	3,026	43	0.0	0.0	0.0
24	129	53	53	53	54	53	38	2,596	23	0.0	0.0	0.0
25	160	53	53	54	54	53	32	2,116	15	0.0	0.0	0.0
26	223	53	53	54	54	53	34	1,806	15	0.0	0.0	0.0
27	179	54	53	54	54	52	51	1,429	13	0.0	0.0	0.0
28	196	53	53	119	54	152	53	988	9.0	0.0	0.0	0.0
29	200	53	53	187	---	506	53	806	12	0.0	0.0	0.0
30	191	53	53	113	---	526	64	583	15	0.0	0.0	14
31	187	---	53	54	---	376	---	495	---	0.0	0.0	---
Total	1,760.0	2,488	2,780	1,899	1,493	2,982	1,671	63,467	2,263.0	123.0	0.0	14.0
Mean	56.8	82.9	89.7	61.3	53.3	96.2	55.7	2,047	75.4	3.97	0.00	0.47
Max	223	209	473	187	54	526	171	4,750	446	23	0.00	14
Min	0.00	53	53	39	52	52	32	53	9.0	0.00	0.00	0.00
Ac-ft	3,490	4,930	5,510	3,770	2,960	5,910	3,310	125,900	4,490	244	0.00	28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	30.3	68.0	131	665	829	888	463	953	245	14.2	4.57	12.4
Max	56.8	325	475	3,344	3,089	3,316	1,677	3,679	1,903	69.1	31.4	43.0
(WY)	(2005)	(1999)	(1999)	(1997)	(1996)	(1995)	(1995)	(1995)	(1998)	(1998)	(1998)	(1998)
Min	0.00	8.00	24.9	18.4	20.2	18.4	12.9	1.52	0.47	0.00	0.00	0.00
(WY)	(2002)	(2002)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2000)	(2000)

11351950 PIT RIVER BELOW DIVERSION TO MUCK VALLEY POWERPLANT, NEAR BIEBER, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1995 - 2005	
Annual total	53,935.00		80,940.0			
Annual mean	147		222		357	
Highest annual mean					997	1995
Lowest annual mean					12.8	2001
Highest daily mean	4,760	Feb 20	4,750	May 21	16,800	Jan 3, 1997
Lowest daily mean	0.00	Jun 25	0.00	Oct 1	0.00	Oct 1, 1994
Annual seven-day minimum	0.00	Jun 25	0.00	Oct 1	0.00	Aug 3, 1995
Annual runoff (ac-ft)	107,000		160,500		258,600	
10 percent exceeds	361		275		1,070	
50 percent exceeds	53		53		53	
90 percent exceeds	0.00		0.00		0.00