

Water-Data Report 2007

11362900 Nelson Creek below diversion to Nelson Creek Powerplant, near Big Bend, CA

Sacramento River Basin

LOCATION.--Lat 41°02'32", long 121°52'34" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.29, T.37 N., R.1 E., Shasta County, CA, Hydrologic Unit 18020003, on right bank, 400 ft upstream from Snowslide Creek, 0.3 mi downstream from Bull Creek, and 2.3 mi northeast of Big Bend.

DRAINAGE AREA.--13.2 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1993 to current year (beginning October 1996, low-flow records only).

GAGE.--Water-stage recorder and broad-crested weir; water-stage recorder and sharp-crested weir. Elevation of gages is 2,320 ft above NGVD of 1929, from topographic map.

COOPERATION.--Discharge for Nelson Creek Powerplant (station 11362800) provided by Sierra Pacific Industries.

REMARKS.--Records rated fair. Records collected in connection with Federal Energy Regulatory Commission (FERC) project no. 9029. Flow at this station has two components which are combined for publication: flow over a broad-crested weir (station 11362880) and flow over a sharp-crested weir (station 11362890). Water is diverted upstream of weirs through a tunnel to Nelson Creek Powerplant, returning to Nelson Creek at its confluence with the Pit River. Flow is computed to 100 ft³/s. For the period Aug. 13-28 and Sep. 24-30, Nelson Creek flow was diverted downstream of both stations 11362880 and 11362890 for maintenance, therefore, flows were undetermined. See schematic diagram of Pit and McCloud River Basins available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (water years 1993-95), 623 ft³/s, Feb. 19, 1996; minimum daily, 7.4 ft³/s, Sept. 8, 21, 22, 1994.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	13	12	10	16	18	41	16	17	19	14	12	10
2	13	13	10	16	18	40	15	20	18	14	12	10
3	13	13	9.7	17	17	40	15	17	18	14	12	10
4	13	14	9.8	16	17	40	15	17	18	14	12	10
5	13	12	10	16	17	41	16	17	20	14	12	10
6	13	12	11	16	17	37	15	17	19	13	12	10
7	13	12	13	16	19	17	15	17	18	13	12	10
8	12	15	13	15	20	17	16	17	18	13	12	10
9	12	13	35	16	22	18	16	17	18	13	11	10
10	12	12	51	16	29	19	16	17	17	13	11	10
11	12	14	41	16	44	23	16	17	17	13	11	10
12	12	13	51	15	28	31	16	17	17	13	11	10
13	12	20	---	15	16	37	16	17	17	13	---	10
14	12	28	---	15	15	40	15	17	16	13	---	11
15	12	17	---	15	15	40	16	17	16	13	---	10
16	13	34	24	16	15	39	16	17	16	13	---	10
17	12	27	17	15	15	39	16	17	16	13	---	10
18	12	23	28	15	15	38	17	17	16	16	---	10
19	12	17	22	15	15	35	17	17	16	14	---	12
20	12	16	20	15	15	44	17	17	15	13	---	11
21	12	16	17	15	18	39	18	16	15	13	---	11
22	12	23	17	17	22	33	22	17	15	13	---	11
23	12	23	17	20	15	28	19	17	15	13	---	12
24	12	13	17	20	22	37	19	17	15	13	---	---
25	12	11	16	19	54	21	17	18	15	12	---	---
26	12	12	16	19	50	24	17	20	15	12	---	---
27	12	12	21	19	47	22	17	20	14	12	---	---
28	12	11	17	18	43	16	17	20	14	12	---	---
29	12	10	16	17	---	15	17	19	14	12	10	---
30	12	9.7	16	19	---	16	17	19	14	12	10	---
31	12	---	15	18	---	16	---	19	---	12	10	---
Total	380	477.7	---	513	658	943	497	545	491	405	---	---
Mean	12.3	15.9	---	16.5	23.5	30.4	16.6	17.6	16.4	13.1	---	---
Max	13	34	---	20	54	44	22	20	20	16	---	---
Min	12	9.7	---	15	15	15	15	16	14	12	---	---
Ac-ft	754	948	---	1,020	1,310	1,870	986	1,080	974	803	---	---
Discharge, in acre-feet, for Nelson Creek Powerplant	0	0	503	334	1,140	2,280	1,450	564	0	0	0	0

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