

## 10118000 BEAR RIVER NEAR COLLINSTON, UT

LOCATION.--Lat 41°50'03", long 112°03'16", in NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec. 27, T. 13 N., R. 2 W., Box Elder County, Hydrologic Unit 16010204, on right bank 800 ft downstream from Cutler plant of Utah Power & Light Co., 2,000 ft downstream from Cutler Dam, and 5.5 mi north of Collinston.

DRAINAGE AREA.--6,267 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1889 to current year. Published as "at Collinston" prior to 1900. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,276.13 ft above sea level (levels by Bureau of Reclamation). Prior to Nov. 8, 1913, nonrecording gage, and Nov. 8, 1913 to Sept. 10, 1938, water-stage recorder, at site 0.8 mi downstream at different datums.

REMARKS.--Records fair. Natural flow of stream affected by storage reservoir, power developments and diversions for irrigation.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of the U. S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,700 ft<sup>3</sup>/s Feb. 20, 1986, gage height, 8.68 ft; minimum daily, 10 ft<sup>3</sup>/s Aug. 4-12, 18-23, 1905; practically no flow at 2400 Aug. 5, 1920.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	218	408	650	2580	2130	1560	3750	4530	5100	1440	1430	379
2	326	625	881	2750	2590	1560	3740	4670	5070	1370	331	543
3	682	1040	1600	3200	2000	1510	3650	4930	5280	841	1410	1370
4	621	304	652	3800	1910	1470	3400	4600	5400	236	1460	1370
5	150	1580	1280	4020	1800	1480	3370	4220	5330	690	1480	1370
6	25	1060	1230	4010	1900	1520	3390	4020	5260	717	1880	1370
7	412	702	905	3770	1630	1790	3390	4090	5110	1240	1470	1350
8	158	747	1440	3360	1800	1990	2820	4340	5010	634	1750	1350
9	1070	1560	1140	3060	1440	1910	2870	4480	5030	298	1880	1050
10	25	1550	2510	2860	1490	1920	3060	4530	5110	33	1680	1410
11	25	1560	2880	2800	1780	2220	2470	4530	5270	60	2050	1460
12	25	696	2960	917	1730	2210	2660	4620	5330	921	2310	1490
13	98	1380	2870	814	1570	2530	2640	4850	5340	1910	1530	1570
14	107	752	2960	1410	1550	2760	2750	4980	5350	2300	2070	1760
15	25	1310	2420	1610	1490	2210	2830	5000	5350	1800	1480	1810
16	162	385	2280	1760	1600	2300	2870	5130	5360	1990	1490	1780
17	262	684	524	1830	1600	1660	2890	5410	5340	2000	1440	1770
18	129	531	1370	1710	1620	2040	2930	5590	5120	1840	1410	1740
19	661	374	1320	1800	1640	2620	2960	5530	5680	1460	895	1810
20	175	311	1370	1810	1900	2990	3000	5920	4540	1460	260	1860
21	403	298	1520	1800	1920	3050	3370	5600	4380	1680	1410	1860
22	89	1590	1650	1790	1780	3150	4120	5720	4240	1390	1220	2280
23	345	1620	1720	1790	1720	3430	4800	5680	3990	822	691	2480
24	199	859	1780	1760	1500	3390	5190	5910	3660	739	1380	1900
25	1540	367	1590	1620	1490	3610	5310	6320	3170	1410	859	1120
26	953	1570	1600	1600	1490	3820	5150	6460	2880	1410	760	1830
27	1140	975	2310	2000	1560	3750	4740	6450	2760	541	1350	1380
28	236	1550	2170	2760	1490	3780	4550	6330	2000	1430	915	1790
29	387	487	3300	2850	---	3780	4550	6080	1790	285	730	1670
30	748	1560	2940	2650	---	3770	4750	5800	2390	1490	1350	2230
31	901	---	2630	1870	---	3770	---	5400	---	1680	1340	---
TOTAL	12297	28435	56452	72361	48120	79550	107970	161720	135640	36117	41711	47152
MEAN	397	948	1821	2334	1719	2566	3599	5217	4521	1165	1346	1572
MAX	1540	1620	3300	4020	2590	3820	5310	6460	5680	2300	2310	2480
MIN	25	298	524	814	1440	1470	2470	4020	1790	33	260	379
AC-FT	24390	56400	112000	143500	95450	157800	214200	320800	269000	71640	82730	93530
CAL YR 1996	TOTAL 437836		MEAN 1196		MAX 4890		MIN 25		AC-FT 868400			
WTR YR 1997	TOTAL 827525		MEAN 2267		MAX 6460		MIN 25		AC-FT 1641000			