

BEAR RIVER NEAR COLLINSTON, UT (10118000)

STREAMFLOW RECORDS FOR WATER YEAR 2010

LOCATION.--Lat 41°50'03", long 112°03'16" referenced to North American Datum of 1927, in NW ¼ SE ¼ 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.--6,271 mi².

PERIOD OF RECORD.--October 2006 to current year published by PacifiCorp. July 1889 to September 2006 published by USGS. Published as "at Collinston" prior to 1900. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is 4,276.13 ft above NGVD of 1929 (levels by Bureau of Reclamation). Prior to November 8, 1913, nonrecording gage, and November 8, 1913 to September 10, 1938, water-stage recorder, at site 0.8 mi downstream at different datums.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,700 ft³/s, Feb 20, 1986, gage height, 8.68 ft; minimum daily, 10 ft³/s, Aug 4-12, 18-23, 1905; practically no flow, Aug 5, 1920.

DISCHARGE MEASUREMENT DATES.-- 7-15-09, 10-6-09, 11-17-09, 2-17-10, 6-15-10, 8-5-10, 10-13-10.

Bear River near Collinston, UT (10118000) Water Year 2010 (October 2009 to September 2010) Daily Mean Values

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
1	456	1380	1890	1010	942	854	869	962	1190	50.8	50.4	50	
2	787	1150	1630	1090	944	831	1250	995	1190	50.8	50.4	107	
3	38.9	1230	656	1090	945	827	1490	997	1430	50.8	50.3	175	
4	332	1170	52.9	1090	945	828	1200	200	2250	50.8	50.2	50	
5	726	1150	52.7	1070	946	828	906	163	2300	50.8	50	50	
6	1120	1020	396	1030	951	976	841	869	1910	50.7	50	49.9	
7	1010	964	581	1020	950	1310	2310	850	1930	50.9	50	50	
8	1250	962	623	989	943	1270	1060	804	2900	51	50	50.2	
9	751	964	625	643	942	1280	881	429	2790	51.1	50	50.3	
10	410	1100	736	506	945	1310	1390	52.2	2740	51	50	50.4	
11	41.3	1110	765	622	949	1320	1430	130	2580	50.9	50	50.4	
12	1200	1120	870	693	951	1320	1240	54.1	2450	51	50	50.4	
13	961	1110	992	874	956	1100	1240	627	2260	50.9	50	50.6	
14	938	1110	1150	967	952	834	1400	993	2030	50.8	49.9	51	
15	1170	1120	1140	985	955	901	1440	1060	1990	50.8	49.9	51	
16	806	1040	1100	984	956	1130	1530	482	1690	50.8	49.9	51	
17	563	975	1070	1050	956	1330	1580	728	1710	50.8	49.9	51	
18	46.3	913	1080	1050	959	1340	1630	987	1850	50.8	49.9	50.9	
19	2270	923	1080	1060	958	1250	1790	818	1890	50.8	50	50.8	
20	1160	928	1080	1060	959	1190	1800	730	1920	50.8	49.7	50.8	
21	779	908	1080	1060	964	1080	1750	787	1820	50.8	49.7	50.4	
22	482	881	1070	1050	966	739	2210	1220	1210	50.7	49.3	50.7	
23	813	878	1070	1040	965	540	1810	1320	850	50.8	49.6	50.5	
24	526	879	1070	938	966	852	2250	1280	619	50.8	49.6	50.4	
25	345	879	1060	941	962	1300	2060	1240	423	50.8	49.7	50.4	
26	1430	885	998	940	926	1170	1620	1290	51.9	50.6	49.8	50.4	
27	1090	871	777	940	889	1060	1420	1280	51.5	50.5	50	50.3	
28	784	881	647	947	892	965	1210	1190	51.1	50.4	50	50.1	
29	986	1450	646	938	938	879	939	1190	51.1	50.4	49.7	50	
30	1090	2150	645	944	944	1200	912	1190	51.1	50.4	49.6	50	
31	997		679	948	948	1170		1200		50.4	607		
Monthly Statistics													Yearly Stats
Total	25,359	32,101	27,312	29,569	26,534	32,984	43,458	26,117	46,179	1,574	2,105	1,694	294,984
Mean	818	1,070	881	954	948	1,060	1,450	842	1,540	51	68	57	812
Min	39	871	53	506	889	540	841	52	51	50	49	50	39
Max	2,270	2,150	1,890	1,090	966	1,340	2,310	1,320	2,900	51	607	175	2,900
Ins. Min	32	47	53	230	565	531	494	52	51	40	38	39	32
Ins. Max	3,890	3,740	2,340	1,110	981	3,200	3,590	1,360	3,030	52	1,180	525	3,890
Ac-ft	50,300	63,670	54,170	58,650	52,630	65,420	86,200	51,800	91,590	3,120	4,170	3,360	585,080

PacifiCorp Energy

Bear River near Collinston, UT (10118000)

Rating Table

Gage Height in Feet - Discharge in Cubic Feet Per Second

Gage Height	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.7	25	25	26	27	28.1	29.1	30.2	31.3	32.4	33.6
0.8	34.8	36	37.2	38.5	39.7	41.1	42.4	43.8	45.2	46.6
0.9	48.1	49.6	51.1	52.7	54.3	55.9	57.5	59.2	60.9	62.6
1.0	64.4	66.2	68	69.8	71.7	73.6	75.5	77.4	79.4	81.4
1.1	83.4	85.4	87.5	89.6	91.7	93.8	95.9	98.1	100	102
1.2	105	107	109	111	114	116	118	121	123	125
1.3	128	130	133	135	137	140	142	145	147	150
1.4	153	155	158	160	163	166	169	171	174	177
1.5	180	183	186	189	192	195	198	201	204	208
1.6	216	220	223	226	229	233	236	239	243	246
1.7	249	253	256	260	263	267	270	274	277	281
1.8	285	288	292	296	300	303	307	311	315	319
1.9	323	327	331	335	339	343	347	351	355	359
2.0	363	368	372	376	381	385	389	394	398	403
2.1	407	412	416	421	425	430	435	439	444	449
2.2	454	459	464	468	473	478	483	488	494	499
2.3	504	509	514	519	525	530	535	541	546	552
2.4	557	563	568	574	580	585	591	597	603	608
2.5	614	620	626	632	638	644	650	656	662	669
2.6	675	681	687	694	700	707	713	720	726	733
2.7	739	746	753	759	766	773	780	787	794	801
2.8	808	815	822	829	836	843	850	858	865	872
2.9	880	887	895	902	910	917	925	933	941	948
3.0	956	964	972	980	988	996	1000	1010	1020	1030
3.1	1040	1040	1050	1060	1070	1080	1090	1100	1100	1110
3.2	1120	1130	1140	1150	1160	1160	1170	1180	1190	1200
3.3	1210	1220	1230	1240	1250	1260	1260	1270	1280	1290
3.4	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
3.5	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490
3.6	1500	1510	1520	1530	1540	1550	1560	1570	1580	1600
3.7	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700
3.8	1720	1730	1740	1750	1760	1770	1780	1800	1810	1820
3.9	1830	1840	1850	1860	1880	1890	1900	1910	1920	1940
4.0	1950	1960	1970	1980	2000	2010	2020	2030	2050	2060
4.1	2070	2080	2100	2110	2120	2130	2150	2160	2170	2180
4.2	2200	2210	2220	2240	2250	2260	2270	2290	2300	2310
4.3	2330	2340	2350	2370	2380	2390	2410	2420	2430	2450
4.4	2460	2480	2490	2500	2520	2530	2540	2560	2570	2590
4.5	2600	2610	2630	2640	2660	2670	2680	2700	2710	2730
4.6	2740	2760	2770	2790	2800	2810	2830	2840	2860	2870

Gage Height	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
4.7	2890	2900	2920	2930	2950	2960	2980	2990	3010	3020
4.8	3040	3050	3070	3080	3100	3110	3130	3140	3160	3180
4.9	3190	3210	3220	3240	3250	3270	3290	3300	3320	3330
5.0	3350	3360	3380	3400	3410	3430	3440	3460	3480	3490
5.1	3510	3530	3540	3560	3570	3590	3610	3620	3640	3660
5.2	3670	3690	3710	3720	3740	3760	3770	3790	3810	3820
5.3	3840	3860	3870	3890	3910	3930	3940	3960	3980	3990
5.4	4010	4030	4050	4060	4080	4100	4110	4130	4150	4170
5.5	4180	4200	4220	4240	4250	4270	4290	4310	4330	4340
5.6	4360	4380	4400	4410	4430	4450	4470	4490	4500	4520
5.7	4540	4560	4580	4600	4610	4630	4650	4670	4690	4710
5.8	4720	4740	4760	4780	4800	4820	4830	4850	4870	4890
5.9	4910	4930	4950	4970	4980	5000	5020	5040	5060	5080
6.0	5100	5120	5130	5150	5170	5190	5210	5230	5250	5270
6.1	5290	5310	5330	5350	5360	5380	5400	5420	5440	5460
6.2	5480	5500	5520	5540	5560	5580	5600	5620	5640	5660
6.3	5680	5700	5720	5740	5760	5770	5790	5810	5830	5850
6.4	5870	5890	5910	5930	5950	5970	5990	6010	6030	6050
6.5	6070	6090	6110	6130	6150	6170	6200	6220	6240	6260
6.6	6280	6300	6320	6340	6360	6380	6400	6420	6440	6460
6.7	6480	6500	6520	6540	6560	6580	6600	6620	6650	6670
6.8	6690	6710	6730	6750	6770	6790	6810	6830	6850	6870
6.9	6890	6920	6940	6960	6980	7000	7020	7040	7060	7080
7.0	7100	7130	7150	7170	7190	7210	7230	7250	7270	7290
7.1	7320	7340	7360	7380	7400	7420	7440	7470	7490	7510
7.2	7530	7550	7570	7590	7620	7640	7660	7680	7700	7720
7.3	7740	7770	7790	7810	7830	7850	7870	7900	7920	7940
7.4	7960	7980	8000	8030	8050	8070	8090	8110	8140	8160
7.5	8180	8200	8220	8240	8270	8290	8310	8330	8350	8380
7.6	8400	8420	8440	8460	8490	8510	8530	8550	8580	8600
7.7	8620	8640	8660	8690	8710	8730	8750	8780	8800	8820
7.8	8840	8860	8890	8910	8930	8950	8980	9000	9020	9040
7.9	9070	9090	9110	9130	9160	9180	9200	9220	9250	9270
8.0	9290	9310	9340	9360	9380	9400	9430	9450	9470	9500
8.1	9520	9540	9560	9590	9610	9630	9650	9680	9700	9720
8.2	9750	9770	9790	9810	9840	9860	9880	9910	9930	9950
8.3	9980	10000	10000	10000	10100	10100	10100	10100	10200	10200
8.4	10200	10200	10300	10300	10300	10300	10300	10400	10400	10400
8.5	10400	10500	10500	10500	10500	10600	10600	10600	10600	10600
8.6	10700	10700	10700	10700	10800	10800	10800	10800	10900	10900
8.7	10900	10900	11000	11000	11000	11000	11100	11100	11100	11100
8.8	11100	11200	11200	11200	11200	11300	11300	11300	11300	11400
8.9	11400	11400	11400	11500	11500	11500	11500	11600	11600	11600
9.0	11600	11700	11700	11700	11700	11700	11800	11800	11800	11800
9.1	11900	11900	11900	11900	12000	12000	12000	12000	12100	12100

Gage Height	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
9.2	12100	12100	12200	12200	12200	12200	12300	12300	12300	12300
9.3	12400	12400	12400	12400	12500	12500	12500	12500	12600	12600
9.4	12600	12600	12700	12700	12700	12700	12800	12800	12800	12800
9.5	12900	12900	12900	12900	13000	13000	13000	13000	13100	13100
9.6	13100	13100	13200	13200	13200	13200	13300	13300	13300	13400
9.7	13400	13400	13400	13500	13500	13500	13500	13600	13600	13600
9.8	13600	13700	13700	13700	13700	13800	13800	13800	13800	13900
9.9	13900	13900	14000	14000	14000	14000	14100	14100	14100	14100