

BEAR RIVER AT SODA SPRINGS, ID (10075000)

STREAMFLOW RECORDS FOR WATER YEAR 2010

LOCATION.--Lat 42°36'50", long 111°34'58" referenced to North American Datum of 1927, in NW ¼ SW ¼ NW ¼ sec.29, T.9 S., R.42 E., Caribou County, Hydrologic Unit 16010201, on left bank 800 ft upstream from Bailey Creek road bridge and 2 mi south of Soda Springs.

DRAINAGE AREA.--3,970 mi² (as reported by the United States Geological Survey).

PERIOD OF RECORD.--October 2006 to current year published by PacifiCorp Energy. May to September 1896, May, June 1898, and October 1953 to September 2006 in reports of Geological Survey. Irrigation season only during 1944-49, 1951-53 in reports of Bear River Hydrometric Data (Geological Survey open-file report). Discharge measurements available beginning in September 23, 1923.

GAGE.--Water-stage recorder. Elevation of gage is 5,760 ft above NGVD of 1929, from topographic map. May 25 to October 2, 1896, May 22 to July 1, 1898, staff gage at different datum. During irrigation season 1944-49, 1950-53, water-stage recorder at site 800 ft downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by upstream reservoirs, diversions for irrigation, and return flow from irrigated areas. Record is ice-affected November 13th, 2009 through March 3, 2010 and estimated from Alexander Reservoir computed inflow. No high flow measurements made, but discharge compares well to computed Alexander Reservoir inflow and Pescadero gage values.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,380 ft³/s, Jun 9, 15, 1896, gage height, 8.40 ft, datum then in use; minimum daily discharge, 37 ft³/s, Sep 30, Oct, 1, 2, 2001.

DISCHARGE MEASUREMENT DATES.-- 9-30-09, 10-31-10.

Bear River at Soda Springs, ID (10075000) 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	202	458	171	157	178	173	230	296	405	1290	1210	843	
2	203	705	154	152	173	173	211	294	407	1220	1210	652	
3	204	955	112	142	148	173	213	300	409	1190	1210	545	
4	215	1010	108	163	168	185	202	296	409	1170	1210	525	
5	242	663	138	147	173	176	201	267	447	1140	1150	516	
6	232	407	163	147	173	177	204	268	508	1180	1080	504	
7	213	356	118	168	178	183	210	268	514	1330	1070	498	
8	188	244	107	115	173	175	219	270	521	1450	1060	498	
9	162	185	138	142	162	198	232	271	530	1460	1060	498	
10	159	173	107	137	168	182	246	271	530	1580	1160	498	
11	163	173	123	152	178	208	261	268	530	1740	1280	498	
12	175	174	128	142	178	221	287	268	530	1770	1270	457	
13	180	168	164	137	173	200	312	272	530	1780	1250	401	
14	199	168	138	148	193	170	294	279	617	1760	1230	394	
15	206	177	138	152	158	197	292	279	701	1750	1200	390	
16	199	269	138	168	193	206	280	277	675	1730	1240	369	
17	193	305	163	147	178	216	278	270	644	1730	1310	264	
18	185	371	153	168	178	203	283	270	605	1730	1330	237	
19	183	340	164	178	173	197	285	272	559	1720	1330	233	
20	197	321	143	168	173	224	282	272	529	1700	1330	229	
21	202	295	169	163	163	226	274	275	501	1700	1330	227	
22	184	166	164	173	153	244	268	279	482	1710	1330	225	
23	176	166	143	152	168	245	257	280	457	1720	1330	223	
24	177	166	163	168	168	235	229	283	418	1640	1330	231	
25	167	148	152	168	173	263	237	315	464	1530	1300	289	
26	167	163	142	148	178	261	247	400	690	1500	1240	307	
27	170	143	142	173	168	233	246	408	847	1380	1180	313	
28	165	168	147	168	178	230	275	409	1200	1240	1070	318	
29	157	164	142	148		262	294	409	1440	1220	972	333	
30	175	143	142	168		261	305	409	1430	1220	939	415	
31	178		147	173		260		408		1220	939		
Monthly Statistics													
Total	5,818	9,344	4,421	4,832	4,818	6,557	7,654	9,403	18,529	46,500	37,150	11,930	166,956
Mean	188	311	143	156	172	212	255	303	618	1,500	1,200	398	454
Min	157	143	107	115	148	170	201	267	405	1,140	939	223	107
Max	242	1,010	171	178	193	263	312	409	1,440	1,780	1,330	843	1,780
Ins. Min	136	129	107	115	136	128	201	265	381	1,130	939	223	107
Ins. Max	243	1,160	620	619	493	355	314	409	1,460	1,780	1,330	939	1,780

PacifiCorp Energy

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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
1.5	0	0	0	1.6	0	4	5.2	6.4	7.6	8.8
1.6	10	11	12	14	14.8	13.7	14.8	15.8	16.9	18
1.7	19	20.1	21.2	22.3	23.4	24.6	25.7	26.8	28	29.2
1.8	30.3	31.5	32.7	33.9	35.1	36.4	37.6	38.9	40.2	41.4
1.9	42.7	44.1	45.4	46.7	48.1	49.5	50.9	52.3	53.7	55.1
2.0	56.6	58.1	59.6	61.1	62.6	64.1	65.7	67.3	68.9	70.5
2.1	72.2	73.8	75.5	77.2	78.9	80.7	82.4	84.2	86	87.9
2.2	89.7	91.6	93.5	95.4	97.3	99.3	101	103	105	107
2.3	109	112	114	116	118	120	122	125	127	129
2.4	132	134	136	139	141	144	146	149	151	154
2.5	156	159	162	164	167	170	172	175	178	181
2.6	184	187	189	192	195	198	201	204	208	211
2.7	214	217	220	223	227	230	233	237	240	243
2.8	247	250	254	257	261	265	268	272	275	279
2.9	283	287	291	294	298	302	306	310	314	318
3.0	322	326	330	334	338	343	347	351	355	360
3.1	364	368	373	377	382	386	391	395	400	405
3.2	409	414	419	423	428	433	438	443	447	452
3.3	457	462	467	472	477	483	488	493	498	503
3.4	508	514	519	524	530	535	541	546	552	557
3.5	563	568	574	579	585	591	596	602	608	614
3.6	620	626	631	637	643	649	655	661	667	673
3.7	680	686	692	698	704	711	717	723	730	736
3.8	742	749	755	762	768	775	781	788	794	801
3.9	808	814	821	828	835	841	848	855	862	869
4.0	876	883	890	897	904	911	918	925	932	939
4.1	946	954	961	968	975	983	990	997	1000	1010
4.2	1020	1030	1030	1040	1050	1060	1060	1070	1080	1090
4.3	1090	1100	1110	1120	1130	1130	1140	1150	1160	1160
4.4	1170	1180	1190	1200	1200	1210	1220	1230	1240	1240
4.5	1250	1260	1270	1280	1280	1290	1300	1310	1320	1330
4.6	1330	1340	1350	1360	1370	1380	1380	1390	1400	1410
4.7	1420	1430	1430	1440	1450	1460	1470	1480	1490	1490
4.8	1500	1510	1520	1530	1540	1550	1560	1560	1570	1580
4.9	1590	1600	1610	1620	1630	1640	1640	1650	1660	1670
5.0	1680	1690	1700	1710	1720	1730	1730	1740	1750	1760
5.1	1770	1780	1790	1800	1810	1820	1830	1840	1840	1850
5.2	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950
5.3	1960	1970	1980	1990	2000	2000	2010	2020	2030	2040
5.4	2050	2060	2070	2080	2090	2100	2110	2120	2130	2140

Gage Height	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
5.5	2150	2160	2170	2180	2190	2200	2210	2220	2230	2240
5.6	2250	2260	2270	2280	2290	2300	2310	2320	2330	2340
5.7	2350	2360	2370	2380	2390	2400	2410	2420	2430	2440
5.8	2450	2460	2470	2480	2490	2500	2510	2520	2530	2540
5.9	2550	2560	2570	2580	2590	2600	2610	2630	2640	2650
6.0	2660	2670	2680	2690	2700	2710	2720	2730	2740	2750
6.1	2760	2770	2780	2800	2810	2820	2830	2840	2850	2860
6.2	2870	2880	2890	2900	2920	2930	2940	2950	2960	2970
6.3	2980	2990	3000	3020	3030	3040	3050	3060	3070	3080
6.4	3090	3110	3120	3130	3140	3150	3160	3170	3190	3200
6.5	3210	3220	3230	3240	3260	3270	3280	3290	3300	3310
6.6	3330	3340	3350	3360	3370	3390	3400	3410	3420	3430
6.7	3450	3460	3470	3480	3500	3510	3520	3530	3550	3560
6.8	3570	3580	3600	3610	3620	3630	3650	3660	3670	3680
6.9	3700	3710	3720	3740	3750	3760	3770	3790	3800	3810
7.0	3840	3860	3870	3890	3900	3910	3930	3940	3960	3970
7.1	3990	4000	4020	4030	4040	4060	4070	4090	4100	4120
7.2	4130	4150	4160	4180	4190	4210	4220	4240	4250	4260
7.3	4280	4290	4310	4320	4340	4350	4370	4380	4400	4410
7.4	4430	4440	4460	4470	4480	4500	4510	4530	4540	4560
7.5	4570	4590	4600	4620	4630	4640	4660	4670	4690	4700
7.6	4720	4730	4740	4760	4770	4790	4800	4820	4830	4840
7.7	4860	4870	4890	4900	4910	4930	4940	4950	4970	4980
7.8	5000	5010	5020	5040	5050	5060	5080	5090	5100	5120
7.9	5130	5140	5160	5170	5180	5200	5210	5220	5240	5250
8.0	5260	5280	5290	5300	5310	5330	5340	5350	5370	5380
8.1	5390	5400	5420	5430	5440	5450	5470	5480	5490	5500
8.2	5520	5530	5540	5550	5570	5580	5590	5600	5620	5630
8.3	5640	5650	5670	5680	5690	5700	5720	5730	5740	5750
8.4	5760	5780	5790	5800	5810	5830	5840	5850	5860	5880
8.5	5890	5900	5910	5920	5940	5950	5960	5970	5990	6000
8.6	6010	6020	6040	6050	6060	6070	6090	6100	6110	6130
8.7	6140	6150	6160	6180	6190	6200	6220	6230	6240	6260
8.8	6270	6280	6300	6310	6320	6340	6350	6360	6380	6390
8.9	6410	6420	6430	6450	6460	6480	6490	6510	6520	6530
9.0	6550	6560	6580	6590	6610	6630	6640	6660	6670	6690
9.1	6700	6720	6740	6750	6770	6790	6800	6820	6840	6850
9.2	6870	6890	6910	6920	6940	6960	6980	7000	7020	7030
9.3	7050	7070	7090	7110	7130	7150	7170	7190	7210	7230
9.4	7250	7280	7300	7320	7340	7360	7380	7410	7430	7450
9.5	7480	7500	7520	7550	7570	7600	7620	7650	7670	7700
9.6	7720	7750	7770	7800	7830	7850	7880	7910	7940	7970
9.7	8000	8020	8050	8080	8110	8140	8170	8210	8240	8270
9.8	8300	8330	8370	8400	8430	8470	8500	8530	8570	8610
9.9	8640	8680	8710	8750	8790	8830	8860	8900	8940	8980